

New York State Department of Environmental Conservation
Division of Materials Management
Albany, New York 12233-7253

2019

REGISTERED OR PERMITTED FACILITY ANNUAL REPORT

COMPOSTING

(DO NOT USE THIS FORM FOR BIOSOLIDS COMPOSTING)

6 NYCRR Part 361-3.2

This annual report is for the year of operation from January 01, 2019 to December 31, 2019

Annual Report Form Due: No Later than March 1, 2020

This form may be used for all composting facilities under section 361-3.2 of the Part 360 series except for biosolids composting. Biosolids composting requires the submission of a different annual report form. Forms for all solid waste management facilities can be found at <http://www.dec.ny.gov/chemical/52706.html>. If you have any questions on this form, please e-mail organicrecycling@dec.ny.gov.

Failure to provide the required information requested is a violation of Environmental Conservation Law. Timely submission of a properly completed form to the Department's Regional Office that has jurisdiction over your facility and to the Department's Central Office is required to meet the Annual Report requirements of 6 NYCRR Part 360 series.

Attach additional sheets if space on the pages is insufficient or supplementary information is required or appropriate.

FACILITY NAME: Buffalo River Compost, LLC

SW FACILITY ACTIVITY NUMBER(S): (Ex. 02P20099) 15P10021 / 15P20021

COUNTY WHERE FACILITY IS LOCATED: Erie County

DEC USE ONLY

Region: SWIMS:
MATRIX:
Date Reviewed:
Reviewed By:
Data Entered:

**COMPOST FACILITY ANNUAL REPORT
SECTION 1 – FACILITY INFORMATION**

FACILITY INFORMATION			
FACILITY NAME: Buffalo River Compost, LLC			
FACILITY LOCATION ADDRESS: 47 Ensign St.	FACILITY CITY: Buffalo	STATE: NY	ZIP CODE: 14210
FACILITY TOWN: Buffalo	FACILITY COUNTY: Erie	FACILITY PHONE NUMBER: 716-510-4618	
NYSDEC REGION #: Region 9			
OWNER INFORMATION			
FACILITY CONTACT: Brian Murphy	CONTACT PHONE NUMBER: 716-510-4618		
CONTACT EMAIL ADDRESS: murphdog50@hotmail.com			
OWNER NAME: Buffalo River Compost, LLC	OWNER PHONE NUMBER: 716-510-4618		
OWNER ADDRESS: 5579 East River Road	OWNER CITY: Grand Island	STATE: NY	ZIP CODE: 14072
OWNER CONTACT: Brian Murphy	OWNER CONTACT EMAIL ADDRESS: murphdog50@hotmail.com		
OPERATOR INFORMATION			
OPERATOR NAME: <input checked="" type="checkbox"/> Same as owner			
PREFERENCES			
Preferred address to receive correspondence: <input type="radio"/> Facility location address <input checked="" type="radio"/> Owner address <input type="radio"/> Other (provide):			
Preferred email address: <input type="radio"/> Facility Contact <input checked="" type="radio"/> Owner Contact <input type="radio"/> Other (provide):			
Preferred individual to receive correspondence: <input type="radio"/> Facility Contact <input checked="" type="radio"/> Owner <input type="radio"/> Owner Contact <input type="radio"/> Other (provide):			
Did you operate in 2019? <input checked="" type="radio"/> Yes; Complete this form. <input type="radio"/> No; Complete and submit Sections 1, 12 and 13. If you no longer plan to operate and wish to relinquish your permit/registration associated with this solid waste management activity, please notify the regional office of your intent. See attachment for Regional Office addresses and contacts.			

SECTION 2 – QUANTITY OF MATERIAL RECEIVED

Please report quantities received from January 01, 2019 to December 31, 2019

	Inputs	Quantity	Unit	Source(s)
YARD WASTE	Leaves only	50	Cubic Yards	FGI Landscaping
	Grass Clippings		Choose Units	
	Mixture of Grass and Leaves		Choose Units	
	Brush (Small branches and limbs, <4 inch diameter)	2000	Cubic Yards	Multiple Sources
SSO	Source Separated Organics (Food scraps, soiled paper products, etc.)	400	Tons	Natural Upcycling
	Food Processing Waste (brewery grains, grape pomace, etc.)	50	Cubic Yards	Local Buffalo Breweries
OTHER	Crop Residues (Corn stalks, etc.)		Choose Units	
	Manure (including bedding)	200	Cubic Yards	Buffalo City Zoo
	Sawdust/Shavings		Choose Units	
	Animal Carcasses (road-kill, animal mortalities)		Choose Units	
	Paper Mill Residuals		Choose Units	
	Digestate		Choose Units	
	Other: _____		Cubic Yards	
BULKING AGENT	Woodchips	500	Cubic Yards	Asplund
	Sawdust		Choose Units	
	Other: <u>Driftwood & Seaweed</u>	100	Cubic Yards	NY State Parks Dept.

If **PERMITTED SSO** composting facility, continue to Section #5
SSO – Source Separated Organics

ALL OTHER COMPOSTING FACILITIES, continue to Section #9

SECTION 5 – PATHOGEN AND VECTOR ATTRACTION REDUCTION

For permitted SSO composting facilities only. Check one method for each:

Pathogen Reduction 361-3.7(a)

- Windrow Composting
- Aerated Static Pile Composting
- In-vessel Composting
- Other (specify): _____

Vector Attraction Reduction 361-3.7(b)

- 38 % Volatile Solids Reduction
- SOUR
- Aerobic Process 14 days, $\geq 40^{\circ}\text{C}$, $\geq 45^{\circ}\text{C}$ avg.

Attach operating and monitoring data to show compliance with methods chosen. Temperature data records should indicate when a pile was created, pile was moved, additional material was added and/or pile was turned.

SECTION 6 – FINISHED COMPOST ANALYSIS

For permitted SSOW composting facilities only. Please attach sampling analyses and laboratory reports as required under Part 360 or your permit. Copies of original laboratory results must be attached. All results, except pH and Total Solids, must be on a dry weight basis. See 361-3.9 Table 6 for pollutant limits and Table 5 for annual product testing frequency 361-3.9 Table 5.

Summarize data in table below or attached document. Print additional pages as needed.

Analysis Date =====>	See	Att.	Labs	Max. Conc. (mg/kg)
Arsenic (mg/kg)				41
Cadmium (mg/kg)				10
Chromium (mg/kg)				1,000
Copper (mg/kg)				1,500
Lead (mg/kg)				300
Mercury (mg/kg)				10
Molybdenum (mg/kg)				40
Nickel (mg/kg)				200
Selenium (mg/kg)				100
Zinc (mg/kg)				2,500
TKN (mg/kg)				
Ammonia Nitrogen (mg/kg)				
Nitrate (mg/kg)				
Total Phosphorus (mg/kg)				
Total Potassium (mg/kg)				
pH (s.u.)				
Total Solids(%)				
Total Volatile Solids (%)				
Fecal Coliform (MPN/g)				<1,000 MPN/g
Salmonella (MPN/4g)				<3MPN/4g
Other _____				

SECTION 7 –SAMPLE MANAGEMENT PLAN

For permitted SSO composting facilities only. Describe the number, frequency and location of samples taken. Include a diagram showing all sampling locations.

Samples of finished compost are collected once matured. Multiple grab samples are collected throughout the windrow and composited to ensure the sample is representative of the whole pile.

SECTION 8 – ATTACHMENTS (IF REQUIRED)

Permitted SSO composting facilities, please attach:

- Temperature monitoring and detention time data.
- Sample analyses laboratory reports.
- Any additional reporting requirements.

Do you have a variance to the Part 360 permit requirements? Yes No

If yes, please describe:

SECTION 9- UNAUTHORIZED WASTE

Has unauthorized solid waste been received at the composting facility during the reporting period?

Yes No

If yes, give information below for each incident (attach additional sheets if necessary):

SECTION 10- PROBLEMS/COMPLAINTS

Describe any operational problems or neighbor complaints arising from the composting operation and include any methods used to remedy the situations. This should include odor complaints, marketing difficulties, major equipment failure, etc.

No problems or complaints recorded.

SECTION 11 -QUESTIONS

Please identify any questions or concerns that you would like the Department to answer or consider:

SECTION 12 – FOOD DONATION & FOOD SCRAPS RECYCLING LAW

If you are registered or permitted to compost food scraps please complete the following. For all other operations that are interested in processing food scraps, please contact your DEC regional office to determine what is required.

In 2019, New York State passed the Food Donation & Food Scraps Recycling law. Effective January 1, 2022, large generators of food scraps (defined as generating an annual average of two tons per week or more) must donate excess food and recycle all remaining food scraps if they are within 25 miles of an organics recycler (composting facility, anaerobic digester, etc.). Examples of large generators include: large restaurants, grocery stores, hotels, colleges, etc. For more information visit: <https://www.dec.ny.gov/chemical/114499.html>

Contact Information

Under this legislation, DEC is responsible for providing a list of organics recyclers (compost facilities, anaerobic digesters, etc.) to large generators so they can determine available food scraps recycling opportunities in their area.

You will be included in this listing if you hold a permit or registration for the composting of source separated organics or food scraps. This will educate both large generators and haulers of food scraps that you are an available composter in their area.

Please provide the following information to include in the listing.

Name of Business: Buffalo River Compost

Business Phone Number: 716-510-4618

Business Email: murphdog50@hotmail.com

Business Website: _____

I would like to opt out of DEC listing my facility as an available food scraps recycler for large generators as it relates to the Food Donation and Food Scraps Recycling law.

Assessing Your Food Scraps Recycling Capacity

DEC is responsible for assessing available food scraps recycling capacity across New York State. Information from your operation will help us do this. Please complete the following section to calculate the amount of excess food scraps your operation will have the capability to process in **2022**. Please stay consistent with units (wet tons or cubic yards).

A. Amount of foods scraps projected to be processed in **2020**: 400 - 600 Tons

B. Amount of foods scraps projected to be processed in **2022**: 400 - 600 Tons

* Note: You will not be required to process this quantity of material, these estimates will only be used to assist DEC in capacity planning across the state in preparation for the Food Donation and Food Scraps Recycling law effective January 1, 2022.

Questions?

DEC USE ONLY

Excess Capacity:

SECTION 13 - CERTIFICATION

The Owner or Operator must sign, date and submit one completed form with an original signature to the appropriate Regional Office (See attachment for Regional Office addresses and Contacts.)

The Owner or Operator must also submit one copy by email, fax or mail to:

**NYS Department of Environmental Conservation
Bureau of Waste Reduction and Recycling – Annual Report
625 Broadway – 9th Floor
Albany, New York 12233-7253**


Phone: 518-402-8706

Fax 518-402-9024

Email address: organicrecycling@dec.ny.gov

I certify, under penalty of law, that the information that will be used to determine compliance with the requirements in Subpart 361-3 of 6 NYCRR Part 361 has been prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that false statement made herein are punishable pursuant to section 210.45 of the penal law.


Signature


Date

Brian D. Murphy
Name (Print)

Owner
Title (Print)

murphdog50@hotmail.com
Email (Print)

5579 East River Road
Address

Grand Island
City

NY 14072
State and Zip

716 510 4618
Phone Number

ATTACHMENTS: NO YES (IF YES, LIST ATTACHMENTS)

- Windrow Monitoring Data
- Lab Reports
- _____

New York State Department of Environmental Conservation
Division of Materials Management
Bureau of Waste Reduction and Recycling

MATERIAL MANAGEMENT PROGRAM CONTACTS

CENTRAL OFFICE

Bureau of Waste Reduction and Recycling
625 Broadway
Albany, NY 12233-7253
Phone: (518) 402-8706

For Submission of Organics Recycling Annual Reports only:

Fax: (518) 402-9024

Email: organicrecycling@dec.ny.gov

REGIONAL OFFICE ADDRESS & LEAD CONTACT PERSON

REGION 1 (Nassau, Suffolk)

Syed Rahman/David Gibb
SUNY @ Stony Brook
50 Circle Road
Stony Brook, NY 11790
Phone: (631) 444-0375
SWMFannualreportR1@dec.ny.gov

REGION 2 (Bronx, Kings, New York, Queens, Richmond)

Joseph O'Connell
47-40 21st Street
Long Island City, NY 11101-5407
Phone: (718) 482-4896
SWMFannualreportR2@dec.ny.gov

REGION 3 (Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester)

James Lansing
21 South Putt Corners Road
New Paltz, NY 12561
Phone: (845) 256-3123
SWMFannualreportR3@dec.ny.gov

REGION 4 (Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady, Schoharie)

Victoria Schmitt
1130 North Westcott Road
Schenectady, NY 12306
Phone: (518) 357-2243
SWMFannualreportR4@dec.ny.gov

REGION 5 (Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren, Washington)

Jessie Sangster
1115 State Route 86, PO Box 296
Ray Brook, NY 12977
Phone: (518) 897-1266
SWMFannualreportR5@dec.ny.gov

REGION 6 (Herkimer, Jefferson, Lewis, Oneida, St. Lawrence)

Gary McCullough
317 Washington Street
Watertown, NY 13601
Phone: (315) 785-2513
SWMFannualreportR6@dec.ny.gov

REGION 7 (Broome, Cayuga, Chenango, Cortland, Madison, Onondaga, Oswego, Tioga, Tompkins)

Thomas Annal
615 Erie Boulevard West
Syracuse, NY 13204
Phone: (315) 426-7419
SWMFannualreportR7@dec.ny.gov

REGION 8 (Chemung, Genesee, Livingston, Monroe, Ontario, Orleans, Schuyler, Seneca, Steuben, Wayne, Yates)

Greg MacLean
6274 East Avon-Lima Road
Avon, NY 14414
Phone: (585) 226-5411
SWMFannualreportR8@dec.ny.gov

REGION 9 (Allegany, Cattaraugus, Chautauqua, Erie, Niagara, Wyoming)

Peter Grasso
270 Michigan Avenue
Buffalo, NY 14203
Phone: (716) 851-7220
SWMFannualreportR9@dec.ny.gov

December 2019



Western New York Office
5167 South Park Avenue
Hamburg, NY 14075
Phone: (716) 649-8110
Fax: (716) 649-8051

Laboratory Test Report

PROJECT: Compost Testing

CLIENT: Scott Lawn Yard

DATE: October 8, 2019

PROJECT NO.: BT-19-207

REPORT NO.: LTR-1

SAMPLE INFORMATION:

Sample No. 19-1499 was collected by the Client and received at SJB Services Inc. on September 12, 2019. Sample is described by the Client as sample A: Compost.

The results of this report relate only to the items inspected or tested. The report shall not be reproduced, exact in full, without the written approval of SJB Services, Inc.

ASTM D-422: Particle Size Analysis of Soils

ASTM D-2974: Moisture, Ash, and Organic Matter of Peat and Other Organic Soils

ASTM D-4972: Test Method for pH of Soils

Spectrum Analytic Method NCR#221: Soluble Salt (Conductivity)

Moisture Content: 49.5 %

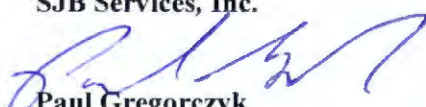
Organic Content: 34.5 %

pH Reading: 7.5

Soluble Salt Concentration: 0.98 mmhos/cm

Percent Passing ½" Sieve: 100 %

SJB Services, Inc.


Paul Gregorczyk
Laboratory Manager



Western New York Office
5167 South Park Avenue
Hamburg, NY 14075
Phone: (716) 649-8110
Fax: (716) 649-8051

Laboratory Test Report

PROJECT: Compost Testing

CLIENT: Scott Lawn Yard

DATE: October 8, 2019

PROJECT NO.: BT-19-207

REPORT NO.: LTR-2

SAMPLE INFORMATION:

Sample No. 19-1500 was collected by the Client and received at SJB Services Inc. on September 12, 2019. Sample is described by the Client as sample B: Compost.

The results of this report relate only to the items inspected or tested. The report shall not be reproduced, exact in full, without the written approval of SJB Services, Inc.

ASTM D-422: Particle Size Analysis of Soils

ASTM D-2974: Moisture, Ash, and Organic Matter of Peat and Other Organic Soils

ASTM D-4972: Test Method for pH of Soils

Spectrum Analytic Method NCR#221: Soluble Salt (Conductivity)

Moisture Content: 72.1 %

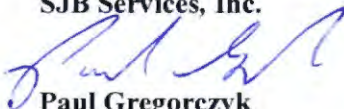
Organic Content: 39.8 %

pH Reading: 7.8

Soluble Salt Concentration: 1.58 mmhos/cm

Percent Passing ½" Sieve: 100 %

SJB Services, Inc.


Paul Gregorczyk
Laboratory Manager



Western New York Office
5167 South Park Avenue
Hamburg, NY 14075
Phone: (716) 649-8110
Fax: (716) 649-8051

Laboratory Test Report

PROJECT: Compost Testing

CLIENT: Scott Lawn Yard

DATE: October 8, 2019

PROJECT NO.: BT-19-207
REPORT NO.: LTR-3

SAMPLE INFORMATION:

Sample No. 19-1501 was collected by the Client and received at SJB Services Inc. on September 12, 2019. Sample is described by the Client as sample C: Compost.

The results of this report relate only to the items inspected or tested. The report shall not be reproduced, exact in full, without the written approval of SJB Services, Inc.

ASTM D-422: Particle Size Analysis of Soils
ASTM D-2974: Moisture, Ash, and Organic Matter of Peat and Other Organic Soils
ASTM D-4972: Test Method for pH of Soils
Spectrum Analytic Method NCR#221: Soluble Salt (Conductivity)

Moisture Content: 58.0 %

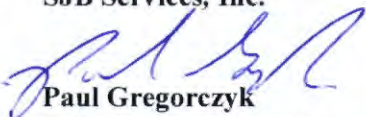
Organic Content: 37.8 %

pH Reading: 8.0

Soluble Salt Concentration: 1.31 mmhos/cm

Percent Passing 1/2" Sieve: 100 %

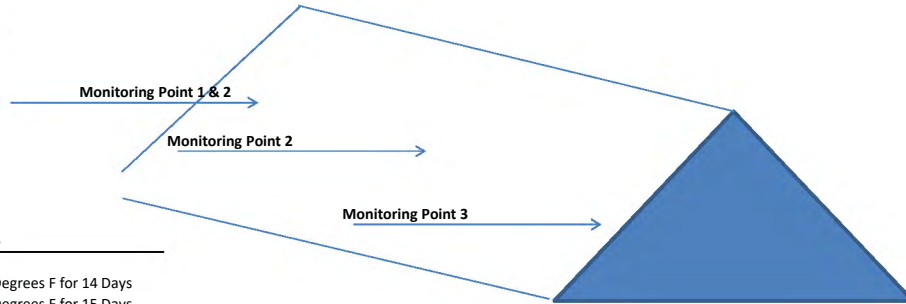
SJB Services, Inc.


Paul Gregorczyk
Laboratory Manager

Pile ID: K

Windrow Monitoring Data

Date Created: 5/23/2018



Monitoring Specifications

Turn According to Temperature:
 Min. Pile Temp for Vector Reduction: 104 Degrees F for 14 Days
 Min. Temp for Pathogen Reduction: 131 Degrees F for 15 Days
 Too HOT - Open Up: 180

Turn Number	Date	Location
1	6/27/2018	Turned
2	8/16/2019	Turned
3	9/12/2019	Turned
4	10/16/2018	Turned
5	11/15/2018	Turned
6	12/14/2019	Turned
7	1/20/2019	Turned
8	3/2/2019	Consolidated

Monitoring Point 1

Consolidated with J

Date:	5/31/2018	6/6/2018	6/15/2018	6/27/2018	7/6/2018	7/27/2018	8/7/2018	8/16/2018	9/7/2018	9/12/2018	10/10/2018	11/7/2018	12/1/2018	1/10/2019	1/26/2019	2/16/2019			
3' Temperature:	150	140	160	141	140	141	125	150	140	141	142	139	140	137	137	109			

Monitoring Point 2

Date:	5/31/2018	6/6/2018	6/15/2018	6/27/2018	7/6/2018	7/27/2018	8/7/2018	8/16/2018	9/7/2018	9/12/2018	10/10/2018	11/7/2018	12/1/2018	1/10/2019	1/26/2019	2/16/2019	1/0/1900	1/0/1900	1/0/1900	1/0/1900
3' Temperature:	154	137	162	150	144	144	141	141	144	132	141	142	141	137	144	110				

Monitoring Point 3

Date:	5/31/2018	6/6/2018	6/15/2018	6/27/2018	7/6/2018	7/27/2018	8/7/2018	8/16/2018	9/7/2018	9/12/2018	10/10/2018	11/7/2018	12/1/2018	1/10/2019	1/26/2019	2/16/2019	1/0/1900	1/0/1900	1/0/1900	1/0/1900
3' Temperature:		152	166	135	148		144	137			143	140	139	145	137	131				

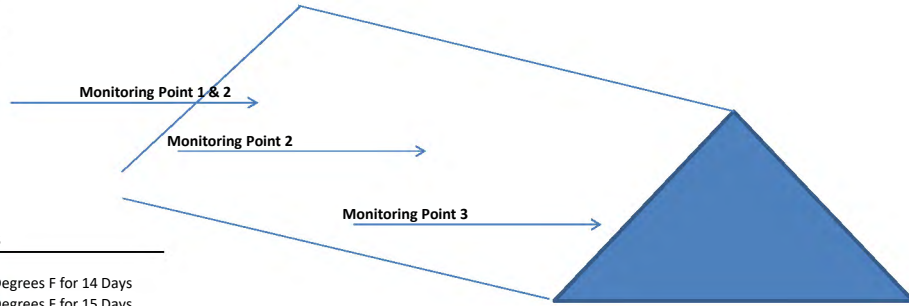
Monitoring Point 4

Date:	5/31/2018	6/6/2018	6/15/2018	6/27/2018	7/6/2018	7/27/2018	8/7/2018	8/16/2018	9/7/2018	9/12/2018	10/10/2018	11/7/2018	12/1/2018	1/10/2019	1/26/2019	2/16/2019	1/0/1900	1/0/1900	1/0/1900	1/0/1900
3' Temperature:														145	128	140				

Pile ID: MN

Windrow Monitoring Data

Date Created: 3/12/2019



Monitoring Specifications

- Turn According to Temperature
- Min. Pile Temp for Vector Reduction: 104 Degrees F for 14 Days
- Min. Temp for Pathogen Reduction: 131 Degrees F for 15 Days
- Too HOT - Open Up: 180

Turn Number	Date	Location
1	4/25/2019	Turned
2	5/3/2019	Turned
3	7/20/2019	Turned
4	9/29/2019	Turned
5		

Monitoring Point 1

Date:	4/7/2019	4/12/2019	4/16/2019	4/23/2019	5/2/2019	5/6/2019	5/16/2019	5/22/2019	6/20/2019	7/24/2019	8/22/2019	9/2/2019	9/27/2019	11/4/2019	12/4/2019	Finished				
3' Temperature:	138	158	135	161	161	146	136	133	170	115	130	138	158	136	100					

Monitoring Point 2

Date:	4/7/2019	4/12/2019	4/16/2019	4/23/2019	5/2/2019	5/6/2019	5/16/2019	5/22/2019	6/20/2019	7/24/2019	8/22/2019	9/2/2019	9/27/2019	11/4/2019	12/4/2019	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900
3' Temperature:	126	128	137	161	152	140	136	144	176	115	132	142	135	140	98					

Monitoring Point 3

Date:	4/7/2019	4/12/2019	4/16/2019	4/23/2019	5/2/2019	5/6/2019	5/16/2019	5/22/2019	6/20/2019	7/24/2019	8/22/2019	9/2/2019	9/27/2019	11/4/2019	12/4/2019	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900
3' Temperature:	139	146	145	152	152	136	123	131	184	119	144	144	145	121	103					

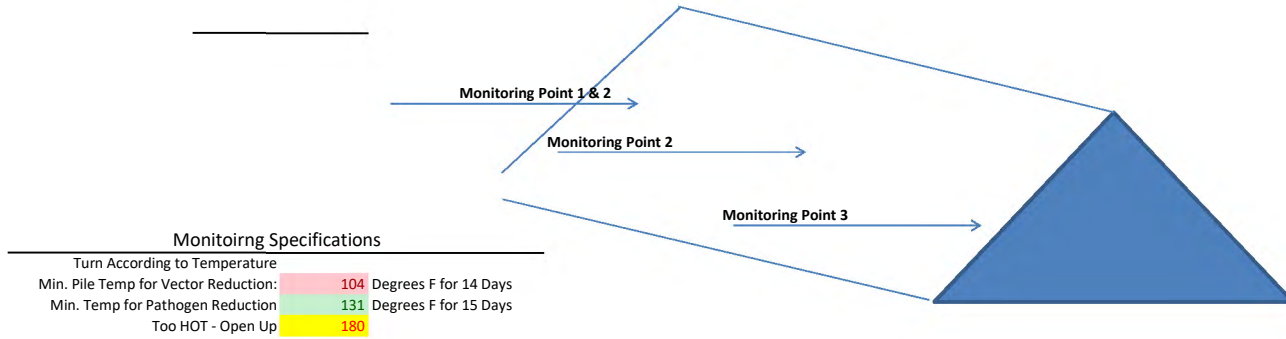
Monitoring Point 4

Date:	4/7/2019	4/12/2019	4/16/2019	4/23/2019	5/2/2019	5/6/2019	5/16/2019	5/22/2019	6/20/2019	7/24/2019	8/22/2019	9/2/2019	9/27/2019	11/4/2019	12/4/2019	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900
3' Temperature:		147		152		136	129	140	180	121	121	134	133	133						

Pile ID: OP

Windrow Monitoring Data

Date Created: 3/12/2019



Turn Number	Date	Location
1	4/25/2019	Turned
2	5/3/2019	Turned
3	6/24/2019	Turned
4	8/15/2019	Turned
5		

Monitoring Point 1

Date:	4/12/2019	4/16/2019	4/23/2019	5/2/2019	5/6/2019	5/16/2019	5/22/2019	6/20/2019	7/24/2019	8/22/2019	9/20/2019	9/27/2019	11/4/2019	12/2/2019						
3' Temperature:	143	147	158	153	148	140	148	194	142	128	122	134	131							

Monitoring Point 2

Date:	4/12/2019	4/16/2019	4/23/2019	5/2/2019	5/6/2019	5/16/2019	5/22/2019	6/20/2019	7/24/2019	8/22/2019	9/20/2019	9/27/2019	11/4/2019	12/2/2019	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900
3' Temperature:	143	130	152	153	139	142	145	183	140	128	128	132	138	151						

Monitoring Point 3

Date:	4/12/2019	4/16/2019	4/23/2019	5/2/2019	5/6/2019	5/16/2019	5/22/2019	6/20/2019	7/24/2019	8/22/2019	9/20/2019	9/27/2019	11/4/2019	12/2/2019	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900
3' Temperature:	150	130	149	143	137	150	148	193	133	138	121	131	147	128						

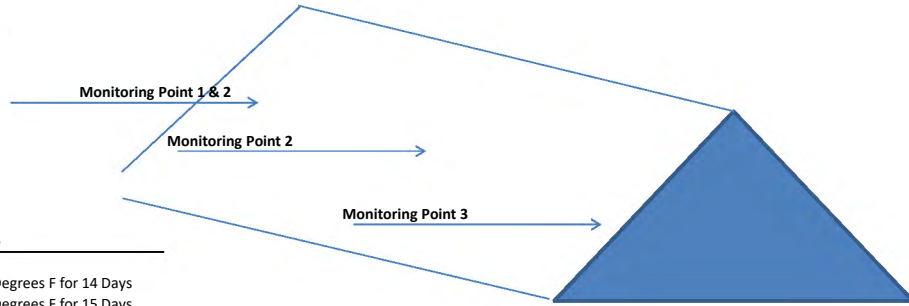
Monitoring Point 4

Date:	4/12/2019	4/16/2019	4/23/2019	5/2/2019	5/6/2019	5/16/2019	5/22/2019	6/20/2019	7/24/2019	8/22/2019	9/20/2019	9/27/2019	11/4/2019	12/2/2019	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900
3' Temperature:	153		152	141		133	150	188	135	110	122	131	140							

Pile ID: Q

Windrow Monitoring Data

Date Created: 3/12/2019



Monitoring Specifications

Turn According to Temperature:
 Min. Pile Temp for Vector Reduction: 104 Degrees F for 14 Days
 Min. Temp for Pathogen Reduction: 131 Degrees F for 15 Days
 Too HOT - Open Up: 180

Turn Number	Date	Location
1	4/25/2019	Turned
2	5/18/2019	Turned
3	6/23/2019	Turned
4	8/15/2019	Turned
5		

Monitoring Point 1

Date:	4/12/2019	4/16/2019	4/23/2019	5/6/2019	5/16/2019	5/22/2019	5/22/2019	6/20/2019	7/24/2019	8/22/2019	9/20/2019	9/27/2019	11/4/2019	12/2/2019						
3' Temperature:	145	132	135	151	151	140	148	173	145	150	124	136	125	130						

Monitoring Point 2

Date:	4/12/2019	4/16/2019	4/23/2019	5/6/2019	5/16/2019	5/22/2019	5/22/2019	6/20/2019	7/24/2019	8/22/2019	9/20/2019	9/27/2019	11/4/2019	12/2/2019	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900
3' Temperature:	145	138	150	139	161	140	145	185	145	133	124	138	125	160						

Monitoring Point 3

Date:	4/12/2019	4/16/2019	4/23/2019	5/6/2019	5/16/2019	5/22/2019	5/22/2019	6/20/2019	7/24/2019	8/22/2019	9/20/2019	9/27/2019	11/4/2019	12/2/2019	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900
3' Temperature:	145	143	133	137	158	155	148	185	145	143	140	145	132	169						

Monitoring Point 4

Date:	4/12/2019	4/16/2019	4/23/2019	5/6/2019	5/16/2019	5/22/2019	5/22/2019	6/20/2019	7/24/2019	8/22/2019	9/20/2019	9/27/2019	11/4/2019	12/2/2019	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900	1/0/1900
3' Temperature:			147	144			150	180	126	151	126	143	140							

