

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

5

2019  
PERMITTED FACILITY ANNUAL REPORT BIOSOLIDS  
COMPOSTING/OTHER PROCESSING  
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 is for biosolids composting facilities that are permitted under section 361-3.2 previously 360-5 of Part 360. Permits for existing permitted facilities prior to November 2017 remain in effect until their expiration date, unless a modification is issued. Permittees must comply with the previous Part 360 regulations and their permit's special conditions until renewal or modification.

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](mailto: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.

PERMITTED FACILITY NAME: Village of Marcellus Compost Facility

PERMIT NUMBER: 7-3140-00005/00003

SW FACILITY ACTIVITY NUMBER: (Ex. 02PP0099) 34C10

COUNTY WHERE FACILITY IS LOCATED: Onondaga County

DEC USE ONLY

Region: SWIMS:

MATRIX:

Date Reviewed:

Reviewed By:

Data Entered:

**SECTION 4 – COMPOST DISTRIBUTION**

Quantity Distributed (cubic yards)	Use of Compost (landscaping, agriculture, highway, onsite, bagged, etc.)
60	Public
24	Municipality/Non-Profit
37	Nursery/Commercial

**Marcells Compost Facility  
2019 Compost Recipients**

<b>Village Residents Name</b>	<b>Address</b>	<b>Amount (cubic yards)</b>	<b>Use</b>	<b>Date</b>
Pat McHale	North Street	1.00	Flower Beds	4/18/2019
John Curtin	First Street	0.13	Flower Beds	6/19/2019
Josh Miller	20 South Street	2.00	Lawn	4/18/2019
Ted Moosbrugger	16 South Street	0.50	Flower Beds	7/2/2019
Sandy Caldwell	2 South Street	0.20	Flower Beds	5/17/2019
Marie Moy	Kelly Ave	1.00	Flower Beds	5/22/2019
Tim Aherin	Orchard St	0.07	Flower Beds	5/30/2019
Jim McNally	5 Reed St	0.52	Lawn	4/23/2019
Plogman		0.74	Flowers	5/22/2019
Jan Chauncey	South St	2.70	Landscape	4/26/2019
				7/5/2019
				7/8/2019
				8/22/2019

**Total:10**

**10.00**





**Marcells Compost Facility  
2019 Compost Recipients**

**Quantity Taken (cubic yards)**

~~44.00~~ 6.00  
~~17.00~~ 6.00  
~~69.00~~ 55.0

121  
130.00

**Use of Compost (Public, Municipality, Nursery)**

Public  
Municipality  
Nursery

**Marcells Compost Facility  
2019 Compost Recipients**

## SECTION 5 – BIOSOLIDS ANALYSES

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.

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

Analysis Date =====>	4/25/19	8/14/19	9/6/19	11/15/19	Permit Pre 2017 Regs.  Monthly Conc. (mg/kg)	Permit Post 2017 Regs.  Max. Conc. (mg/kg)
Arsenic (mg/kg)	ND	ND	ND	ND	41	41
Cadmium (mg/kg)	ND	ND	ND	ND	21	10
Chromium (mg/kg)	14	18	21	17	1,000	1,000
Copper (mg/kg)	470	740	700	640	1,500	1,500
Lead (mg/kg)	28	37	38	38	300	300
Mercury (mg/kg)	1.1	2.2	2.0	2.0	10	10
Molybdenum (mg/kg)	ND	ND	ND	ND	40	40
Nickel (mg/kg)	14	16	14	13	200	200
Selenium (mg/kg)	ND	7.0	ND	ND	100	100
Zinc (mg/kg)	620	1000	1200	1100	2,500	2,500
TKN (mg/kg)	57000	34000	25000	49000		
Ammonia Nitrogen (mg/kg)	2600	<2000	3200	2200		
Nitrate (mg/kg)	45	54	2000	350		
Total Phosphorus (mg/kg)	13000	11000	12000	9200		
Total Potassium (mg/kg)	4000	2000	2500	2300		
pH (s.u.)	6.5	5.9	6.3	6.2		
Total Solids( %)	14	16	16	15		
Total Volatile Solids (%)	83	74	74	78		



## SECTION 6 – PATHOGEN REDUCTION & VECTOR ATTRACTION REDUCTION

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
- Bench Scale Anaerobic Digestion
- Bench Scale Aerobic Digestion
- SOUR
- Aerobic Process 14 days, >40 °C, >45 °C avg.
- pH raised to  $\geq 12$  for 2 hours and  $\geq 11.5$  for 22 hours
- 75% solids
- 90% solids (untreated solids)

**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.**

**Marcellus Compost Facility  
Aeration Pile Temperature Log**

15.13 %

2019

Sludge \_\_\_\_\_ % New \_\_\_\_\_ % Recy \_\_\_\_\_ % Digester Sludge input (gallons)

Compost Pile # 1

Mix Ratio 4:6 (sludge:chips)

ND: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Chip Ratio 4:2 (new:recycled)

SD: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	11/19	12.8	7:25 A	15.3	12 <sup>25</sup> P	Pressed on
2	20	20.3	7:20 A	27.6	1:30 P	1/18/19
3	21	30.8	6:35 A	39.1	1:40 P	
4	22	46.9	7 <sup>10</sup> A	50.2	2 <sup>10</sup> P	1 ND = 15.55 %
5	23	56.5	7 <sup>05</sup> A	56.7	1 <sup>50</sup> P	② SD 14.71
6	24	55.3	7 <sup>10</sup> A	56.1	2 <sup>35</sup> P	③
7	25	56.6	7 <sup>05</sup> A	56.10	2:15 P	④
8	26	56.5	7:15 A	56.8	12 <sup>10</sup> P	5
9	27	56.9	7:15 A	55.9	2 <sup>30</sup> P	6
10	28	56.2	7 <sup>05</sup> A	56.7	2 <sup>30</sup> P	7
11	29	56.1	7:15 A	55.6	1 <sup>10</sup> P	8
12	30	55.7	07:50 A	56.1	2 <sup>20</sup> P	9
13	31	56.2	7 <sup>05</sup> A	56.5	12 <sup>55</sup> P	10
14	2/1	55.7	8:30 A	56.1	2 <sup>00</sup> P	11
15	2	55.1	7:20 A	55.3	1 <sup>20</sup> P	12
16	3	55.9	7:20 A	55.9	5 <sup>00</sup> P	13
17	4	56.2	7:15 A	55.6	2:45 P	14
18	5	55.6	11 <sup>00</sup> A	56.6	1:35 P	15
19	6	54.9	7 <sup>05</sup> A	56.0	2 <sup>50</sup> P	
20	7	55.5	7 <sup>20</sup> A	55.4	1 <sup>55</sup> P	
21	8	56.0	7 <sup>10</sup> A	56.2	2 <sup>55</sup> P	

Aeration completion date: 2/8      Curing completion date: 3/10      Screened pile: \_\_\_\_\_

15.93%

Marcellus Compost Facility  
Aeration Pile Temperature Log

2019

Sludge \_\_\_\_\_ % New \_\_\_\_\_ % Recy \_\_\_\_\_ % Digester Sludge input (gallons)

Compost Pile # 2

Mix Ratio 4:6 (sludge:chips)

ND: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Chip Ratio 6:- (new:recycled)

SD: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	2/6	13.5	7:05 A	15.7	2:50 P	Pressed on 2/5/19
2	2/7	17.7	7:20 A	18.9	1:55 P	
3	8	21.1	7:10 A	22.1	2:55 P	ND 16.12%
4	9	32.1	7:20 A	43.7	3:40 P	SD 15.73%
5	10	55.4	7:15 A	56.2	12:25 P	(1)
6	11	55.6	7:40 A	56.9	2:15 P	(2)
7	12	55.9	7:15 A	56.6	2:30 P	(3)
8	13	56.0	7:45 A	55.6	1:00 P	4
9	14	56.0	8:00 A	55.7	2:00 P	5
10	15	55.8	7:10 A	55.5	1:30 P	6
11	16	55.1	7:15 A	55.8	2:10 P	7
12	17	54.4	7:15 A	55.1	3:20 P	8
13	18	56.2	06:30 A	55.7	1:45 P	9
14	19	56.0	7:45 A	56.3	12:45 P	10
15	20	53.8	8:55 A	55.6	1:40 P	11
16	21	56.0	7:10 A	55.1	2:55 P	12
17	22	54.1	7:15 A	55.4	1:40 P	13
18	23	56.2	7:15 A	55.3	1:50 P	14
19	24	54.2	7:20 A	54.8	3:20 P	
20	25	54.4	7:10 A	55.6	2:00 P	
21	26	55.4	07:35 A	55.3	2:30 P	

Aeration completion date: 2/26

Curing completion date: 3/28

Screened pile: \_\_\_\_\_

15.32%

**Marcellus Compost Facility  
Aeration Pile Temperature Log**

2019

Compost Pile # 3

Sludge \_\_\_\_\_ % New \_\_\_\_\_ % Recy \_\_\_\_\_ % Digester Sludge input (gallons)  
 Mix Ratio 4:6 (sludge:chips) ND: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)  
 Chip Ratio 3:3 (new:recycled) SD: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	3/28	17.3	7 <sup>10</sup>	18	130p	Pressed on 3/27
2	29	26.4	7 <sup>25</sup> A	27.7	2 <sup>10</sup> P	ND 16.10%
3	30	30.5	7:30 A	31.3	2 <sup>45</sup> P	SD 14.54%
4	31	35.0	7:40 A	41.4	3 <sup>05</sup> P	
5	4/1	44.2	7 <sup>50</sup> A	45.0	12 <sup>20</sup> P	1
6	2	48.3	7 <sup>40</sup> A	50.8	2 <sup>50</sup> P	2
7	3	55.9	7 <sup>10</sup> A	55.2	3 <sup>45</sup> P	(3)
8	4	55.6	7 <sup>00</sup> A	56.5	130P	(4)
9	5	56.0	7 <sup>15</sup> A	56.7	12 <sup>20</sup> P	(5)
10	6	56.5	7:25 A	55.8	2 <sup>45</sup> P	6
11	7	56.2	7:25 A	56.7	12 <sup>05</sup> P	7
12	8	56.0	7 <sup>10</sup> A	55.1	2 <sup>40</sup> P	8
13	9	56.6	7 <sup>15</sup> A	56.2	1 <sup>55</sup> P	9
14	10	55.5	7 <sup>30</sup> A	56.4	1 <sup>50</sup> P	10
15	11	55.2	7 <sup>50</sup> A	55.9	<del>7</del> 3 <sup>05</sup> P	11
16	12	56.6	7 <sup>10</sup> A	55.9	1 <sup>25</sup> P	12
17	13	56.1	7:25 A	56.4	3 <sup>00</sup> P	13
18	14	55.9	7:30 A	55.1	3 <sup>30</sup> P	14
19	15	55.3	7 <sup>15</sup> A	55.2	130P	15
20	16	56.6	7 <sup>15</sup> A	56.2	210 P	16
21	17	55.8	7 <sup>20</sup> A	55.1	120P	

Aeration completion date: 4/17/19 Curing completion date: 5/1/19

Screened pile: \_\_\_\_\_

**Marcellus Compost Facility  
Aeration Pile Temperature Log**

14,349

2019

Compost Pile # 41

Sludge \_\_\_\_\_ % New \_\_\_\_\_ % Recy \_\_\_\_\_ % Digester Sludge input (gallons)

Mix Ratio \_\_\_\_\_ : \_\_\_\_\_ (sludge:chips) ND: \_\_\_\_\_ @ ( \_\_\_\_\_ mls)

Chip Ratio \_\_\_\_\_ : \_\_\_\_\_ (new:recycled) SD: \_\_\_\_\_ @ ( \_\_\_\_\_ mls)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	4/25	20.6	7 <sup>00</sup> A	22.5	2 <sup>30</sup> P	Pressed on 4/24
2	26	24.2	7 <sup>50</sup> A	25.4	2 <sup>35</sup> P	ND-14.65
3	27	28.3	7:15 A	31.2	12 <sup>10</sup> P	SD - 14.02
4	28	44.9	7:10 A	49.7	3 <sup>20</sup> P	1
5	29	53.8	11 <sup>25</sup> A	55.1	3 <sup>10</sup> P	2
6	30	56.6	7 <sup>10</sup> A	56.5	2 <sup>30</sup> P	(3)
7	5/1	55.5	7 <sup>20</sup> A	56.4	2 <sup>55</sup> P	(4)
8	2	56.8	7 <sup>05</sup> A	56.2	3 <sup>00</sup> P	(5)
9	3	56.1	7 <sup>10</sup> A	56.6	2 <sup>45</sup> P	6
10	4	55.3	7:05 A	55.8	12 <sup>05</sup> P	7
11	5	55.7	7:05 A	55.2	2 <sup>20</sup> P	8
12	6	56.2	7 <sup>15</sup> A	56.8	3 <sup>05</sup> P	9
13	7	55.8	7 <sup>05</sup> A	56.7	2 <sup>55</sup> P	10
14	8	56.3	7 <sup>45</sup> A	56.1	2 <sup>45</sup> P	11
15	9	56.5	7 <sup>00</sup> A	56.2	2 <sup>00</sup> P	12
16	10	56.0	7 <sup>15</sup> A	56.7	2 <sup>20</sup> P	13
17	11	56.0	7:10 A	56.3	12 <sup>20</sup> P	14
18	12	56.1	7:05 A	55.8	4 <sup>30</sup> P	15
19	13	56.4	7 <sup>10</sup> A	56.7	2 <sup>25</sup> P	16
20	14	55.6	7 <sup>30</sup> A	56.2	12 <sup>40</sup> P	
21	15	56.4	7 <sup>20</sup> A	55.7	2 <sup>50</sup> P	

Aeration completion date: 5/15

Curing completion date: 6/14

Screened pile: \_\_\_\_\_

**Marcellus Compost Facility  
Aeration Pile Temperature Log**

2019

Compost Pile # 5

Sludge \_\_\_\_\_ % New \_\_\_\_\_ % Recy \_\_\_\_\_ % Digester Sludge input (gallons)

Mix Ratio \_\_\_\_\_ : \_\_\_\_\_ (sludge:chips) ND: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Chip Ratio \_\_\_\_\_ : \_\_\_\_\_ (new:recycled) SD: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	5/16	24.1	7:15 A	25.4	3:00 P	Pressed on 5/15
2	17	26.5	7:10 A	27.6	2:00 P	
3	18	29.1	7:05 A	32.9	12:25 P	
4	19	39.9	7:10 A	48.1	12:00 P	
5	20	52.7	7:15 A	56.1	3:10 P	1
6	21	55.3	7:25 A	56.6	1:45 P	②
7	22	55.8	9:40 A	56.6	3:05 P	③
8	23	56.0	8:05 A	55.8	2:45 P	④
9	24	55.4	7:20 A	56.4	12:30 P	5
10	25	56.5	7:05 A	55.8	12:10 P	6
11	26	55.6	7:05 A	56.1	4:05 P	7
12	27	56.3	7:25 A	55.7	2:30 P	8
13	28	56.1	7:10 A	56.2	2:15 P	9
14	29	56.7	7:10 A	56.9	1:55 P	10
15	30	56.1	7:05 A	56.0	2:35 P	11
16	31	56.4	7:25 A	56.1	2:30 P	12
17	6/1	56.0	7:00 A	55.3	1:05 P	13
18	2	56.4	7:05 A	56.2	3:15 P	14
19	3	56.4	7:25 A	56.1	2:35 P	15
20	4	55.9	7:20 A	55.7	3:00 P	
21	5	55.9	7:25 A	56.4	12:10 P	

Aeration completion date: 6/5 Curing completion date: 7/5

Screened pile: \_\_\_\_\_

15.37%

Marcellus Compost Facility  
Aeration Pile Temperature Log

2019

Sludge \_\_\_\_\_ % New \_\_\_\_\_ % Recy \_\_\_\_\_ % Digester Sludge input (gallons)

Compost Pile # 6

Mix Ratio 4:6 (sludge:chips)

ND: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Chip Ratio 3:3 (new:recycled)

SD: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	6/28	32.3	7:05 A	33.4	2p~	Pressed on 6/27
2	29	34.4	7:05 A	37.9	12:20 P	SD 14.86%
3	30	48.8	7:05 A	51.1	5:10 P	1 ND 15.88%
4	7/1	55.3	7:10 A	55.8	1:45 P	(2)
5	2	56.7	9:15 A	55.9	3:00 P	(3)
6	3	55.0	0825	55.8	2:00 P	(4)
7	4	56.8	0630	56.2	12:15 P	5
8	5	55.8	7:15 A	56.8	2:00 P	6
9	6	55.9	7:10 A	56.3	12:05 P	7
10	7	56.0	7:05 A	55.8	1:10 P	8
11	8	55.5	7:15 A	56.1	1:00 P	9
12	9	55.3	7:25 A	56.3	2:15 P	10
13	10	55.2	7:20 A	55.5	3:00 P	11
14	11	55.6	7:20 A	55.7	2:35 P	12
15	12	56.0	7:35 A	56.6	2:00 P	13
16	13	55.3	7:05 A	55.5	2:20 P	14
17	14	55.5	7:10 A	55.1	1:05 P	15
18	15	55.3	7:15 A	56.7	12:45 P	
19	16	56.1	7:20 A	56.2	2:15 P	
20	17	56.3	7:15 A	56.3	12:10 P	
21	18	56.7	7:15 A	56.3	2:30 P	

Aeration completion date: 7/18

Curing completion date: 8/17

Screened pile: \_\_\_\_\_

**Marcellus Compost Facility  
Aeration Pile Temperature Log**

2019

Compost Pile # 7

Sludge \_\_\_\_\_ % New \_\_\_\_\_ % Recy \_\_\_\_\_ % Digester Sludge Input (gallons)

Mix Ratio \_\_\_\_\_ : \_\_\_\_\_ (sludge:chips) ND: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Chip Ratio \_\_\_\_\_ : \_\_\_\_\_ (new:recycled) SD: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	7/23	31.5	830	32.4	215P	pressed on 7/22
2	24	32.5	730	33.4	230P	
3	25	40.2	645	50.1	215P	1
4	26	56.4	0800	56.6	252	②
5	27	55.8	7:10 A	56.1	12 <sup>20</sup> P	③
6	28	56.3	7:10 A	55.8	12 <sup>05</sup> P	④
7	29	56.3	7:15 A	56.7	115P	5
8	30	56.8	7 <sup>20</sup> A	56.3	2 <sup>15</sup> P	6
9	31	56.5	7 <sup>25</sup> A	56.5	2 <sup>10</sup> P	7
10	8/1	55.9	7 <sup>15</sup> A	56.7	220P	8
11	2	56.9	7 <sup>10</sup> A	55.6	2 <sup>15</sup> P	9
12	3	56.4	7:05 A	55.7	1205	10
13	4	55.5	7:05 A	55.4	1235	11
14	5	55.2	7 <sup>10</sup> A	55.3	215	12
15	6	55.1	7 <sup>50</sup> A	56.3	2 <sup>30</sup> P	13
16	7	55.7	7 <sup>20</sup> A	56.4	2 <sup>05</sup> P	14
17	8	55.1	7 <sup>15</sup> A	56.0	2 <sup>15</sup> A	15
18	9	55.4	7 <sup>15</sup> A	56.1	2 <sup>50</sup> P	
19	10	56.0	7:05 A	56.3	120 P	
20	11	55.2	7:05 A	55.7	12 <sup>05</sup> P	
21	12	56.6	7 <sup>30</sup> A	56.2	2 <sup>30</sup> P	

Aeration completion date: 8/12

Curing completion date: 9/11

Screened pile: \_\_\_\_\_



**Marcellus Compost Facility  
Aeration Pile Temperature Log**

2019

Sludge \_\_\_\_\_ % New \_\_\_\_\_ % Recy \_\_\_\_\_ % Digester Sludge input (gallons)

Compost Pile # 8

Mix Ratio \_\_\_\_\_ : \_\_\_\_\_ (sludge:chips)

ND: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Chip Ratio \_\_\_\_\_ : \_\_\_\_\_ (new:recycled)

SD: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	7/26	34.1	0800	37.6	252	pressed on 7/25
2	27	39.1	7:00 A	42.3	12 <sup>20</sup> P	
3	28	45.0	7:10 A	51.7	12 <sup>05</sup> P	1
4	29	53.5	7:15 A	56.7	115 P	2
5	30	56.3	7 <sup>20</sup> A	56.7	2 <sup>15</sup> P	③
6	31	56.4	7 <sup>25</sup> A	55.9	2 <sup>10</sup> P	④
7	8/1	56.7	7 <sup>15</sup> A	56.6	220 P	⑤
8	2	54.7	7 <sup>10</sup> A	55.8	2 <sup>15</sup> P	6
9	3	56.6	7:05 A	56.2	1215	7
10	4	56.4	7:05 A	56.5	1220	8
11	5	56.4	7 <sup>10</sup> A	56.4	245	9
12	6	56.0	7 <sup>50</sup> A	55.6	2 <sup>30</sup> P	10
13	7	56.0	7 <sup>20</sup> A	55.5	205 P	11
14	8	55.9	7 <sup>15</sup> A	55.5	215 P	12
15	9	56.2	7 <sup>15</sup> A	56.7	2 <sup>50</sup> P	13
16	10	56.4	7:05 A	55.9	120 P	14
17	11	56.5	7:05 A	56.3	12 <sup>05</sup> P	15
18	12	56.6	7 <sup>30</sup> A	56.6	230 P	16
19	13	56.6	7 <sup>50</sup> A	56.5	115 P	
20	14	56.1	7 <sup>10</sup> A	56.6	2 <sup>35</sup> P	
21	15	56.0	8 <sup>45</sup> A	55.6	235 P	

Aeration completion date: 8/15

Curing completion date: 9/14

Screened pile: \_\_\_\_\_

**Marcellus Compost Facility  
Aeration Pile Temperature Log**

1696

2019

Sludge \_\_\_\_\_ % New \_\_\_\_\_ % Recy \_\_\_\_\_ % Digester Sludge input (gallons)

Compost Pile # 9

Mix Ratio \_\_\_\_\_ : \_\_\_\_\_ (sludge:chips) ND: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Chip Ratio \_\_\_\_\_ : \_\_\_\_\_ (new:recycled) SD: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	8/14	20.2	7 <sup>10</sup> A	30.5	2 <sup>35</sup> P	Pressed on 8/13
2	15	49.3	8 <sup>45</sup> A	55.0	2:35	1 ND only
3	16	55.2	7 <sup>20</sup> A	56.6	1 <sup>00</sup> P	(2) 16% solids
4	17	55.3	7:10 A	55.4	1220P	(3)
5	18	55.1	7:10 A	55.6	1215P	(4)
6	19	56.2	7 <sup>15</sup> A	56.4	230P	5
7	20	56.2	750A	56.0	300P	6
8	21	55.2	7 <sup>30</sup> A	55.6	235P	7
9	22	56.5	7 <sup>15</sup> A	54.8	250P	8
10	23	56.1	7 <sup>30</sup> A	55.5	12 <sup>10</sup> P	9
11	24	54.7	7:05 A	55.1	12 <sup>20</sup> P	10
12	25	54.4	7 <sup>05</sup> A	54.8	3 <sup>40</sup> P	11
13	26	54.0	7 <sup>35</sup> A	56.1	2 <sup>10</sup> P	12
14	27	56.7	7 <sup>20</sup> A	52.9	2 <sup>45</sup> P	13
15	28	53.1	8 <sup>05</sup> A	53.9	12 <sup>30</sup> P	14
16	29	53.4	7 <sup>50</sup> A	55.7	140 P	15
17	30	55.2	7 <sup>25</sup> A	54.1	150 P	
18	31	55.7	7:15 A	54.8	12 <sup>50</sup> P	
19	9/1	54.6	7:10 A	55.1	135 P	
20	2	52.3	7 <sup>15</sup> A	53.2	4 <sup>10</sup> P	
21	3	54.9	7 <sup>40</sup> A	55.6	12 <sup>55</sup> P	

Aeration completion date: 9/3

Curing completion date: 10/3

Screened pile: \_\_\_\_\_

**Marcellus Compost Facility  
Aeration Pile Temperature Log**

2019 Compost Pile # 10 Sludge \_\_\_\_\_ % New \_\_\_\_\_ % Recy \_\_\_\_\_ % Digester Sludge input (gallons)  
 Mix Ratio 4 : 6 (sludge:chips) ND: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)  
 Chip Ratio 3 : 3 (new:recycled) SD: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	9/7	28.7	7:05 A	34.9	12 <sup>00</sup> P	Pressed on 9/6
2	8	31.4	7:10 A	43.1	4 <sup>40</sup> P	
3	9	48.0	7 <sup>10</sup> A	55.0	2 <sup>45</sup> P	1
4	10	56.5	7 <sup>15</sup> A	55.1	2 <sup>55</sup> P	(2)
5	11	56.5	7 <sup>10</sup> A	55.2	1 <sup>55</sup> P	(3)
6	12	55.6	7 <sup>10</sup> A	55.5	2 <sup>15</sup> P	(4)
7	13	55.2	7 <sup>30</sup> A	56.5	2 <sup>00</sup> P	5
8	14	55.6	7:15 A	56.1	12 <sup>15</sup> P	6
9	15	54.8	7:05 A	55.4	1 <sup>30</sup> P	7
10	16	55.5	7 <sup>35</sup> A	56.5	2 <sup>10</sup> P	8
11	17	55.7	7 <sup>20</sup> A	56.1	2 <sup>20</sup> P	9
12	18	55.8	7 <sup>25</sup> A	55.4	2 <sup>45</sup> P	10
13	19	55.6	7 <sup>15</sup> A	56.5	1 <sup>55</sup> P	11
14	20	56.3	7 <sup>15</sup> A	55.6	2 <sup>50</sup> P	12
15	21	56.0	7:10 A	56.1	12 <sup>05</sup> P	13
16	22	55.5	7:10 A	55.8	12 <sup>10</sup> P	14
17	23	56.6	7 <sup>10</sup> A	55.6	2 <sup>50</sup> P	15
18	24	56.4	7 <sup>20</sup> A	56.1	3 <sup>00</sup> P	
19	25	53.6	7 <sup>10</sup> A	54.6	1 <sup>30</sup> P	
20	26	54.1	7 <sup>25</sup> A	53.8	12 <sup>50</sup> P	
21	27	51.6	7 <sup>10</sup> A	52.1	12 <sup>05</sup> P	

Aeration completion date: 9/27 Curing completion date: 10/27 Screened pile: \_\_\_\_\_

**Marcellus Compost Facility  
Aeration Pile Temperature Log**

Sludge \_\_\_\_\_ % New \_\_\_\_\_ % Recy \_\_\_\_\_ % Digester Sludge input (gallons)

Mix Ratio 4 : 6 (sludge:chips) ND: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Chip Ratio \_\_\_\_\_ : \_\_\_\_\_ (new:recycled) SD: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

2019  
2018

Compost Pile # 11

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	10/4	23.6	0715	24.3	230p	pressed on 10/3
2	5	29.2	7:15 A	41.3	350p	
3	6	52.4	7:15 A	53.2	1205p	1
4	7	56.1	7:10 A	56.9	125p	(2)
5	8	56.3	7:15 A	56.5	225p	(3)
6	9	56.1	7:25 A	55.3	125p	(4)
7	10	55.3	7:15 A	55.6	145	5
8	11	56.6	7:20 A	55.3	250p	6
9	12	55.1	7:15 A	55.6	1210p	7
10	13	56.3	7:15 A	54.9	530p	8
11	14	55.3	7:10 A	55.8	1205p	9
12	15	54.8	7:25 A	56.4	200p	10
13	16	56.4	7:10 A	55.1	1205p	11
14	17	54.5	7:10 A	55.5	105p	12
15	18	56.7	7:20 A	56.1	130p	13
16	19	55.1	7:15 A	55.4	1220p	14
17	20	54.9	7:10 A	53.7	130p	15
18	21	53.9	7:15 A	53.4	1210p	
19	22	53.5	7:10 A	53.3	250p	
20	23	52.9	0745	52.0	300p	
21	24	49.6	0745	48.6	130p	

Aeration completion date: 10/24/19 Curing completion date: 11/23

Screened pile: \_\_\_\_\_

**Marcellus Compost Facility  
Aeration Pile Temperature Log**

2019

Sludge \_\_\_\_\_ % New \_\_\_\_\_ % Recy \_\_\_\_\_ % Digester Sludge Input (gallons)

Compost Pile # 12

Mix Ratio 4 : 6 (sludge:chips)

ND: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Chip Ratio 2 : 4 (new:recycled)

SD: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	10/24	29.2	<del>8</del> 745	29.3	1300	pressed on 10/23
2	25	25.0	0800	25.6	1400	
3	26	28.3	7:15 A	41.2	12 <sup>10</sup> P	
4	27	55.1	7:20 A	56.3	2:25 P	(1)
5	28	56.4	7:15 A	56.2	12:45	(2)
6	29	55.5	7:15 A	55.4	2 <sup>00</sup>	(3)
7	30	55.7	7:20 A	55.1	2:55 P	4
8	31	56.7	0800	55.7	2:00 pm	5
9	11/1	56.0	800	55.4	2:30 pm	6
10	2	56.4	7:20 A	55.9	12 <sup>10</sup> P	7
11	3	56.4	6:20 A	55.6	4:30 P	8
12	4	56.7	7:15 A	56.1	2:00 P	9
13	5	56.0	7:20 A	56.0	2:30 P	10
14	6	54.1	7:15 A	55.6	12:35 P	11
15	7	55.1	7 <sup>10</sup> A	56.1	12:45 P	12
16	8	54.0	7:35 A	55.3	1:15 P	13
17	9	55.0	7:15 A	55.6	12:30 P	14
18	10	55.8	7:15 A	55.4	12:10 P	
19	11	55.6	07:40	55.8	1:30 P	
20	12	55.5	08:30	55.2	12:45 P	
21	13	54.8	08:05	54.7	1:30 P	

Aeration completion date: 11/13/19

Curing completion date: 12/13

Screened pile: \_\_\_\_\_

Both Pile #14 and #15  
From 2018 Took Extra  
Days to get to Temp.  
The Previous piles Had  
been taken off the  
air Days Prior to Pressing,  
allowing the Floor to  
get cold. The Piles (14 & 15)  
Remained on the pipes  
past there Finish date  
Keeping the Floor Warm  
For the Next ones.

~~was~~

SD-14.56

**Marcellus Compost Facility  
Aeration Pile Temperature Log**

2018

Compost Pile # 14

Sludge \_\_\_\_\_ % New \_\_\_\_\_ % Recy \_\_\_\_\_ % Digester Sludge input (gallons)

Mix Ratio 4:6 (sludge:chips) ND: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Chip Ratio 4:2 (new:recycled) SD: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	11/28	15.5	8 <sup>20</sup> A	16.3	235p	Pressed on 11/27
2	29	18.1	0730A	20.9	2 <sup>15</sup> P	
3	30	24.0	7 <sup>15</sup> A	25.7	245P	
4	12/1	28.0	7:15 A	29.7	12 <sup>25</sup> P	
5	2	30.3	7:12 A	32.1	4 <sup>10</sup> P	
6	3	36.0	7 <sup>40</sup> A	36.5	3 <sup>15</sup> P	
7	4	36.7	7 <sup>15</sup> A	39.8	2 <sup>10</sup> P	
8	5	45.9	7 <sup>10</sup> A	47.1	1 <sup>50</sup> P	
9	6	49.7	7 <sup>15</sup> A	50.7	1 <sup>10</sup> P	
10	7	53.1	0745A	54.0	3 <sup>00</sup> P	
11	8	61.8	7:15 A	59.3	12 <sup>30</sup> P	①
12	9	56.1	7:20 A	56.8	1245p	②
13	10	55.8	7 <sup>15</sup> A	56.1	235P	③
14	11	55.2	7 <sup>10</sup> A	55.6	120P	4
15	12	55.4	735A	55.9	3 <sup>15</sup> P	5
16	13	56.6	7 <sup>05</sup> A	55.8	2 <sup>05</sup> P	6
17	14	56.0	7 <sup>10</sup> A	56.8	240P	7
18	15	55.7	7:20 A	55.4	1245p	8
19	16	55.7	7:25 A	55.9	4 <sup>15</sup> P	9
20	17	55.8	7 <sup>05</sup> A	55.8	3 <sup>00</sup> P	10
21	18	55.5	645 A	56.2	140 P	11
	19	54.3	7 <sup>10</sup> A	55.1	240 P	12
	20	54.8	7 <sup>20</sup> A	54.7	2 <sup>15</sup> P	13
	21	53.6	7 <sup>10</sup> A	53.9	12 <sup>25</sup> P	14

Aeration completion date: 12/18

Curing completion date: 11/17/19

Screened pile: \_\_\_\_\_

ND-14.31  
SD-14.02

14.17

Marcellus Compost Facility  
Aeration Pile Temperature Log

2018  
Compost Pile # 15  
Sludge \_\_\_\_\_ % New \_\_\_\_\_ % Recy \_\_\_\_\_ % Digester Sludge input (gallons)  
Mix Ratio \_\_\_\_\_ : \_\_\_\_\_ (sludge:chips) ND: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)  
Chip Ratio \_\_\_\_\_ : \_\_\_\_\_ (new:recycled) SD: \_\_\_\_\_ @ ( \_\_\_\_\_ mlss)

Day #	Date	Temp (Celsius)	Time (morning)	Temp (Celsius)	Time (afternoon)	Notes:
1	12/19	15.2	7 <sup>20</sup> A	16.1	2 <sup>45</sup> P	Pressed on 12/18
2	20	18.5	7 <sup>20</sup> A	20.4	2 <sup>50</sup> P	
3	21	22.6	7 <sup>20</sup> A	24.7	1 <sup>25</sup> P	
4	22	26.0	7:25 A	26.7	12 <sup>45</sup> P	
5	23	28.4	7:15 A	29.3	4 <sup>15</sup> P	
6	24	34.0	7 <sup>15</sup> A	37.8	12 <sup>05</sup> P	
7	25	37.5	7 <sup>15</sup> A	39.2	4 <sup>10</sup> P	
8	26	41.2	8 <sup>45</sup> A	42.1	2 <sup>35</sup> P	1
9	27	44.2	7 <sup>10</sup> A	47.6	2 <sup>35</sup> P	2
10	28	50.0	7 <sup>20</sup> A	51.6	3 <sup>05</sup> P	3
11	29	53.4	7:25 A	53.9	2 <sup>05</sup> P	4
12	30	54.8	7:20 A	55.3	12 <sup>45</sup> P	5
13	31	56.6	7 <sup>10</sup> A	55.9	12 <sup>05</sup> P	6
14	1/1/19	55.4	7 <sup>30</sup> A	56.3	12 <sup>20</sup> P	7
15	2	55.6	7 <sup>25</sup> A	56.1	2 <sup>15</sup> P	8
16	3	55.9	7 <sup>05</sup> A	56.7	1 <sup>30</sup> P	9
17	4	55.8	7 <sup>10</sup> A	56.9	2 <sup>20</sup> P	10
18	5	56.6	7:25 A	56.3	3 <sup>40</sup> P	11
19	6	55.9	7:25 A	55.2	12 <sup>20</sup> P	12
20	7	56.1	7 <sup>10</sup> A	55.4	2 <sup>30</sup> P	13
21	8	55.9	7 <sup>10</sup> A	55.0	2 <sup>20</sup> P	14
	9	56.1	7 <sup>25</sup> A	55.3	2 <sup>10</sup> P	15
	10	55.2	8 <sup>50</sup> A	54.9	1 <sup>50</sup> P	16
	11	54.9	7 <sup>25</sup> A	54.5	1 <sup>25</sup> P	17
	12	53.9	7 <sup>20</sup> A	54.6	2 <sup>20</sup> P	18
	13	54.1	7 <sup>15</sup> A	55.2	3 <sup>40</sup> P	19

Aeration completion date: 1/8/19 Curing completion date: 2/7 Screened pile: \_\_\_\_\_



## SECTION 7 – FINISHED COMPOST ANALYSIS

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.

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

Analysis Date ==>	5/7/19	5/20/19	6/17/19	7/10/19	Permit Pre 2017 Regs.  Monthly Conc. (mg/kg)	Permit Post 2017 Regs.  Max. Conc. (mg/kg)
	Arsenic (mg/kg)	ND	ND	2.0	2.0	41
Cadmium (mg/kg)	ND	ND	ND	ND	10	10
Chromium (mg/kg)	7.0	9.7	8.6	11	1,000	1,000
Copper (mg/kg)	260	310	300	370	1,500	1,500
Lead (mg/kg)	16	20	18	25	300	300
Mercury (mg/kg)	0.67	1.1	1.6	0.81	10	10
Molybdenum (mg/kg)	2.8	3.0	2.7	4.2	40	40
Nickel (mg/kg)	7.3	9.7	9.1	10	200	200
Selenium (mg/kg)	2.5	3.1	2.9	3.4	100	100
Zinc (mg/kg)	330	410	410	470	2,500	2,500
TKN (mg/kg)	25000	26000	22000	26000		
Ammonia Nitrogen (mg/kg)	3700	2400	4300	4500		
Nitrate (mg/kg)	220	650	340	53		
Total Phosphorus (mg/kg)	2500	11000	9200	11000		
Total Potassium (mg/kg)	4100	4200	4500	5000		
pH (s.u.)	6.6	5.7	6.8	7.3		
Total Solids ( %)	51	41	50	59		
Total Volatile Solids (%)	87	79	82	76		
Fecal Coliform (MPN/g)					<1,000 MPN/g	
Salmonella sp. (MPN/4g)	<3	<3	<3	<3	<3MPN/4g	
Other _____						

## SECTION 7 – FINISHED COMPOST ANALYSIS

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.

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

Analysis Date ==>	9/17/19	11/18/19			Permit Pre 2017 Regs.  Monthly Conc. (mg/kg)	Permit Post 2017 Regs.  Max. Conc. (mg/kg)
	Arsenic (mg/kg)	1.8	2.3			41
Cadmium (mg/kg)	ND	ND			10	10
Chromium (mg/kg)	11	13			1,000	1,000
Copper (mg/kg)	350	420			1,500	1,500
Lead (mg/kg)	20	27			300	300
Mercury (mg/kg)	0.83	2.3			10	10
Molybdenum (mg/kg)	3.6	3.7			40	40
Nickel (mg/kg)	10	11			200	200
Selenium (mg/kg)	3.6	4.0			100	100
Zinc (mg/kg)	470	690			2,500	2,500
TKN (mg/kg)	19000	28000				
Ammonia Nitrogen (mg/kg)	6000	3500				
Nitrate (mg/kg)	240	770				
Total Phosphorus (mg/kg)	8400	8100				
Total Potassium (mg/kg)	4400	3900				
pH (s.u.)	6.9	6.1				
Total Solids ( %)	69	52				
Total Volatile Solids (%)	77	64				
Fecal Coliform (MPN/g)					<1,000 MPN/g	
Salmonella sp. (MPN/4g)	<3	<3			<3MPN/4g	
Other _____						

## SECTION 8 – SAMPLE MANAGEMENT

Describe the number, frequency and location of samples taken. Include a diagram showing all sampling locations.

## SECTION 9 – ATTACHMENTS

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 10 – UNAUTHORIZED WASTE

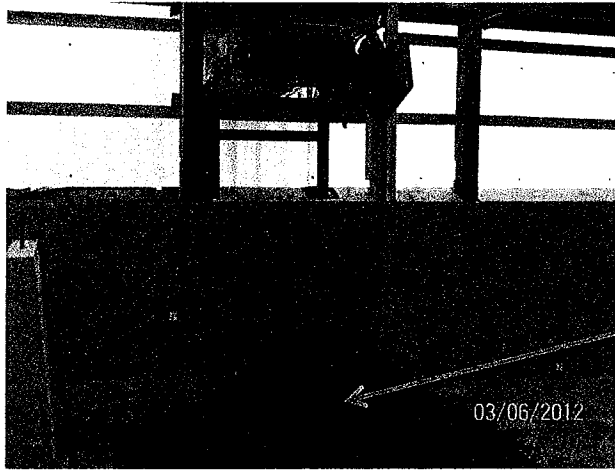
Has unauthorized solid waste been received at the Processing Facility during the reporting period?

Yes  No

If yes, please explain.

## SECTION 8 – SAMPLE MANAGEMENT

Describe the number, frequency and location of samples taken. Include a diagram showing sampling locations.



This is where the sludge enters the composting building from the Belt Press via a 30 ft conveyor. Sludge samples are taken from the pile throughout the day as a composite of that day's pressed sludge.

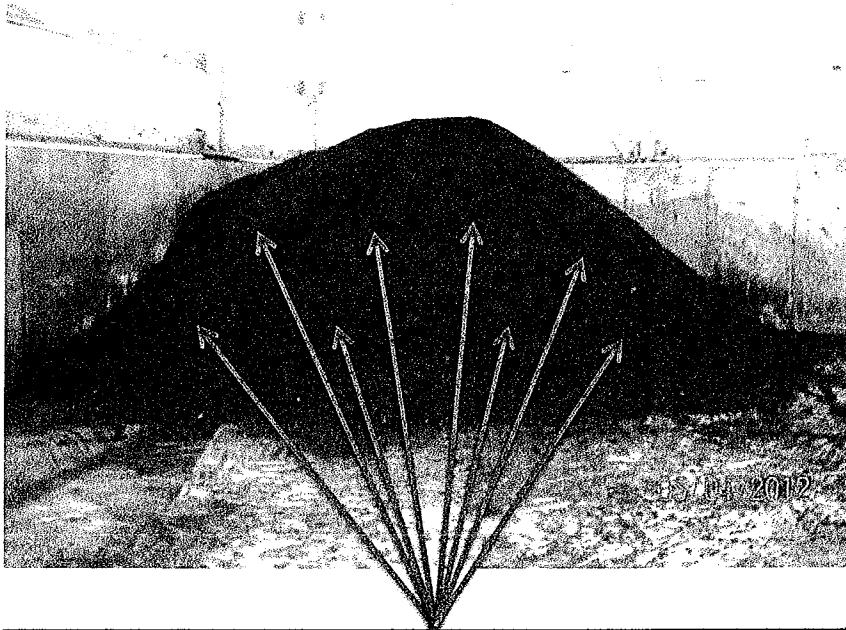
Typically, the BFP is run for a period of 7hrs on the day a pile is constructed. Each digester is pumped from individually.

This is where the temperature probe is inserted in the pile to obtain the pile temperature and control the blower's function.

Temperature readings are taken twice a day, (morning and afternoon), and recorded on a clipboard in the plant's office.



## SECTION 8 – SAMPLE MANAGEMENT CONT.



A composite finished compost sample is taken from the “Finished” building that is located at the rear of the plant’s property. The composite is a sample taken from 8 different locations within a freshly finished pile. The part 360 and Salmonella sp. samples are taken at the same time and in the same composite manner.

## **SECTION 11 – PROBLEMS/COMPLAINTS**

Describe any operational problems or 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.

## **Section 12 – QUESTIONS**

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

## 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:

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

**Phone: 518-402-8706**

**Fax 518-402-9024**

**Email address: organicrecycling@dec.ny.gov**

Permit prior to November 2017:

I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits was prepared by me or under my supervision and direction and is true to the best of my knowledge and belief, and that I have the authority to sign this report form pursuant to 6 NYCRR Part 360. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Permit Post November 2017:

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.

Sara N Tallman  
Signature

02/20/2020  
Date

Sara N Tallman  
Name (Print)

Deputy Mayor  
Title (Print)

marcellusmayor@twcny.rr.com  
Email (Print)

W Stacombe Ave  
Address

Marcellus  
City

NY 13108  
State and Zip

(315) 673-3112  
Phone Number

ATTACHMENTS:  NO  YES (IF YES, LIST ATTACHMENTS)

- Biosolids Tests
- Compost Tests
- Compost Recipients  
Temp Monitoring  
Sample Management

1



# Life Science Laboratories, Inc.

Greg Crysler  
Marcellus, Village of  
6 Slocombe Ave  
Marcellus, NY 13108

Phone: (315) 673-4491  
FAX: (315) 673-3217  
Authorization: PO# 17070  
Federal Water  
Supply ID: NY3304322

## Laboratory Analysis Report Prepared For Marcellus, Village of

LSL Project ID: 1905797

Receive Date/Time: 04/25/19 10:04

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Reviewed by:

Date:

5/16/19

David J. Prichard, Director of Tech. Services

A copy of this report was sent to:



# -- LABORATORY ANALYSIS REPORT --

*Marcellus, Village of Marcellus, NY*

<b>Sample ID:</b>	Sludge Comp.	<b>LSL Sample ID:</b>	1905797-001
<b>Location:</b>		<b>Federal Water Supply ID:</b>	NY3304322
<b>Sampled:</b>	04/24/19 14:00	<b>Sampled By:</b>	JH
<b>Sample Matrix:</b>	SHW Dry Wt, Sludge	<b>Source Code:</b>	
		<b>Reason Code:</b>	

Analytical Method	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result Units			
(1) EPA 6010C Metals Please refer to the next page	EPA 3050B			MT
(1) EPA 7471B Metals Please refer to the next page	EPA 7471B			EP
(1) EPA 9045D Water Extractable pH				
pH	6.5 Std Units		4/29/19	HKB
pH Measurement Temperature	25 Degrees C		4/29/19	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>				
(1) EPA Method 9056A	EPA 300.0A			
Nitrate as N	45 mg/kg dry		5/1/19 21:29	EP
<i>As per NELAC regulation, disclosure of the following condition is required; The result of the matrix spike / matrix spike duplicate sample for this analyte was less than the established limit.</i>				
Nitrite as N	<36 mg/kg dry		5/1/19 21:29	EP
<i>As per NELAC regulation, disclosure of the following condition is required; The result of the matrix spike / matrix spike duplicate sample for this analyte was less than the established limit.</i>				
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia				
Ammonia as N	2600 mg/kg dry	5/4/19	5/6/19	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N				
Total Kjeldahl Nitrogen	57000 mg/kg dry	5/2/19	5/2/19	JJC
<i>As per NELAC regulation, disclosure of the following condition is required; The method blank result associated with this analyte was greater than established limits. The laboratory control sample was less than the established limit.</i>				
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus				
Phosphorus, Total as P	13000 mg/kg dry	5/7/19	5/8/19	MT
<i>The NYS DOH ELAP does not certify for this analyte. This analysis was performed by method EPA 365.3.</i>				
(1) SM 2540 B-2011 Total Solids				
Total Solids @ 103-105 C	14 %		4/29/19	MM2
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) Total Volatile Solids, SM18-21 2540E				
Total Volatile Solids @ 550 C	83 %		4/29/19	MM2
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				

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



**Life Science Laboratories, Inc.**  
 5854 Butternut Drive  
 East Syracuse, NY 13057 (315) 445-1900

# Analytical Results

StateCertNo: 10248

**CLIENT:** Life Science Labs-LIMS  
**Project:** Village of Marcellus  
**W Order:** 1905797  
**Matrix:** SLUDGE

**Lab ID:** 1905797-001A  
**Client Sample ID:** Sludge Comp.  
**Collection Date:** 04/24/19 14:00  
**Date Received:** 04/25/19 10:04

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
<b>MERCURY</b>					
			<b>SW7471B</b>		<b>(SW-846 7471B)</b>
Mercury	1.1		0.70 mg/Kg-dry	1	05/09/19 16:51

<b>TOTAL METALS BY ICP</b>					
			<b>SW6010C</b>		<b>(SW3050B)</b>
Arsenic	ND		7.0 mg/Kg-dry	1	04/30/19 13:14
Cadmium	ND		7.0 mg/Kg-dry	1	04/30/19 13:14
Chromium	14		7.0 mg/Kg-dry	1	04/30/19 13:14
Copper	470		7.0 mg/Kg-dry	1	04/30/19 13:14
Lead	28		7.0 mg/Kg-dry	1	04/30/19 13:14
Molybdenum	ND		7.0 mg/Kg-dry	1	04/30/19 13:14
Nickel	14		7.0 mg/Kg-dry	1	04/30/19 13:14
Potassium	4000		700 mg/Kg-dry	1	05/02/19 12:06
Selenium	ND		7.0 mg/Kg-dry	1	04/30/19 13:14
Zinc	620		14 mg/Kg-dry	1	04/30/19 13:14

<b>PERCENT MOISTURE</b>					
			<b>SM 2540 G</b>		
Percent Moisture	85.6		1.0 wt%	1	04/29/19

- Qualifiers:**
- \* Value may exceed the Acceptable Level
  - E Value exceeds the instrument calibration range
  - J Analyte detected below the PQL
  - P Prim./Conf. column %D or RPD exceeds limit
  - B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - ND Not Detected at the Practical Quantitation Limit (PQL)
  - S Spike Recovery outside accepted recovery limits



# Life Science Laboratories, Inc 1905797

## CHAIN OF CUSTODY RECORD

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Email: lsst@lsl-inc.com

MarcellusVill

3627

**Report Address:**  
 Name: Greg Cryler  
 Company: Village of Marcellus  
 Street: 6 Slocome Ave  
 City/State: Marcellus / New York Zip: 13108  
 Phone: (315) 673-4491 Fax: (315) 673-3217  
 Email: wpcpaper@centralny:fusco.com

**Turnaround Time**  
 Normal  Pre-Authorized   
 14 DAY  Next Day\*  3-Day\*   
 2-Day\*  7-Day\*  \*Additional Charges may apply  
 Date Needed or Special Instructions:  
 Please copy results to Greg Cryler \*  
 Authorization or P.O. # P.O. #

Client Project ID/Client Site ID \_\_\_\_\_ LSL Project Number \_\_\_\_\_

Client's Sample Identifications	Sample Date	Sample Time	Type	Matrix	Preserv Added	Containers		Analyses	Preserv. Check	LSL ID#
			grab/comp			#	size/type			
Sludge	4/24	2:00	composite	SHW	None	1	1L	EPA 351.2 TKN as N EPA 350.1 Rev 2.0 Ammonia Nitrate (EPA 300.0A) Nitrite (EPA 300.0A) EPA 365.1 Total Phosphorus EPA 9045 pH SM 18-20 2540 B Total Solids EPA 160.4 Total Volatile Solids Part 360 Soil/Sludge (EPA 6010) (Group A+B. (NO PCB'S)  Results in Dry weight Please-		001

LSL use only:	Custody Transfers		Date	Time
	Samples Received	Shipment Method:		
On Ice	Sampled By: <u>JH</u>	Received By: _____		
Containers this C-O-C	Relinquished By: <u>JH</u>	Received By: <u>MR</u>	4/25	09:00
	Relinquished By: <u>MR</u>	Rec'd for Lab By: <u>RD</u>	4/25/19	10:04
		Received Intact: <u>Y N</u>		Sample Temp <u>0°C</u>

\*\*\* All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner IN PEN ONLY\*\*\*



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Authorization: PO # 17105  
Federal Water  
Supply ID: NY3304322

## Laboratory Analysis Report

### Prepared For

### Marcellus, Village of

LSL Project ID: 1913429

Receive Date/Time: 08/14/19 12:56

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 Sample Receipt 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.

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Reviewed by:

Date:

9/9/19

David J. Prichard, Director of Tech. Services

A copy of this report was sent to:

# -- LABORATORY ANALYSIS REPORT --

*Marcellus, Village of Marcellus, NY*

<b>Sample ID:</b>	Sludge Comp.	<b>LSL Sample ID:</b>	1913429-001
<b>Location:</b>		<b>Federal Water Supply ID:</b>	NY3304322
<b>Sampled:</b>	08/13/19 14:30	<b>Sampled By:</b>	JH
<b>Sample Matrix:</b>	SHW Dry Wt, Sludge	<b>Source Code:</b>	
		<b>Reason Code:</b>	

Analytical Method Analyte	Result	Prep Method Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010C Metals Please refer to the next page		EPA 3050B			MT
(1) EPA 7471B Metals Please refer to the next page		EPA 7471B			EP
(1) EPA 9045D Water Extractable pH					
pH	5.9	Std Units		8/26/19	HKB
pH Measurement Temperature	25	Degrees C		8/26/19	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>					
(1) EPA Method 9056A		EPA 300.0A			
Nitrate as N	54	mg/kg dry		8/27/19 00:29	EP
<i>As per NELAC regulation, disclosure of the following condition is required; The associated matrix spike and matrix spike duplicate recovery were outside the method specified control limits.</i>					
Nitrite as N	<31	mg/kg dry		8/27/19 00:29	EP
<i>As per NELAC regulation, disclosure of the following condition is required; The associated matrix spike and matrix spike duplicate recovery were outside the method specified control limits.</i>					
(1) Modified EPA 350.1, Rev. 2.0 (1993)					
Ammonia					
Ammonia as N	<2000	mg/kg dry	8/31/19	9/3/19	JJC
<i>The concentration of this sample at the dilution it was prepared, was below the linear range of the instrument. Therefore, this result should be considered an estimate.</i>					
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					
(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N					
Total Kjeldahl Nitrogen	34000	mg/kg dry	8/22/19	8/22/19	JJC
<i>As per NELAC regulation disclosure of the following condition is required; The method blank and a calibration check sample results associated with this analysis were greater than the established limit.</i>					
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					
(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus					
Phosphorus, Total as P	11000	mg/kg dry	9/3/19	9/4/19	HKB
<i>As per NELAC regulation disclosure of the following condition is required; The result of the laboratory control sample was less than the established limit.</i>					
<i>The NYS DOH ELAP does not offer certification for this method in this matrix. This analysis was performed by Method EPA 365.3</i>					
(1) SM 2540 B-2011 Total Solids					
Total Solids @ 103-105 C	16	%		8/27/19	CBR
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					
(1) Total Volatile Solids, SM18-21 2540E					
Total Volatile Solids @ 550 C	74	%		8/27/19	CBR
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					

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

**Life Science Laboratories, Inc.**

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**Analytical Results**

StateCertNo: 10248

**CLIENT:** Life Science Labs-LIMS**Project:** Village of Marcellus**W Order:** 1913429**Matrix:** SLUDGE**Lab ID:** 1913429-001A**Client Sample ID:** Sludge Comp.**Collection Date:** 08/13/19 14:30**Date Received:** 08/14/19 12:56

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
<b>MERCURY</b>			<b>SW7471B</b>		<b>(SW7471B)</b>
Mercury	2.2		0.64 mg/Kg-dry	1	08/29/19 12:15

**TOTAL METALS BY ICP****SW6010C****(SW3050B)**

Arsenic	ND		6.4 mg/Kg-dry	1	08/22/19 16:38
Cadmium	ND		6.4 mg/Kg-dry	1	08/22/19 16:38
Chromium	18		6.4 mg/Kg-dry	1	08/22/19 16:38
Copper	740		6.4 mg/Kg-dry	1	08/22/19 16:38
Lead	37		6.4 mg/Kg-dry	1	08/22/19 16:38
Molybdenum	ND		6.4 mg/Kg-dry	1	08/22/19 16:38
Nickel	16		6.4 mg/Kg-dry	1	08/22/19 16:38
Potassium	2000		640 mg/Kg-dry	1	08/23/19 12:04
Selenium	7.0		6.4 mg/Kg-dry	1	08/22/19 16:38
Zinc	1000		13 mg/Kg-dry	1	08/22/19 16:38

**PERCENT MOISTURE****SM 2540 G**

Percent Moisture	84.4		1.0 wt%	1	08/27/19
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<b>Qualifiers:</b>	* Value may exceed the Acceptable Level	B Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S Spike Recovery outside accepted recovery limits



# Life Science Laboratories, Inc.

---

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Supply ID: NY3304322

## Laboratory Analysis Report

### Prepared For

### Marcellus, Village of

LSL Project ID: **1915100**

Receive Date/Time: 09/06/19 9:47

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Reviewed by:

Date:

10/3/19

David J. Prichard, Director of Tech. Services

A copy of this report was sent to:

# -- LABORATORY ANALYSIS REPORT --

*Marcellus, Village of Marcellus, NY*

<b>Sample ID:</b>	Sludge Comp.	<b>LSL Sample ID:</b>	1915100-001
<b>Location:</b>		<b>Federal Water Supply ID:</b>	NY3304322
<b>Sampled:</b>	09/06/19 8:46	<b>Sampled By:</b>	JH
<b>Sample Matrix:</b>	SHW Dry Wt, Sludge	<b>Source Code:</b>	
		<b>Reason Code:</b>	

Analytical Method Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010C Metals Please refer to the next page			EPA 3050B			MT
(1) EPA 7471B Metals Please refer to the next page			EPA 7471B			EP
(1) EPA 9045D Water Extractable pH						
pH	6.3	Std Units			9/19/19	HKB
pH Measurement Temperature	25	Degrees C			9/19/19	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>						
(1) EPA Method 9056A			EPA 300.0A			
Nitrate as N	2000	mg/kg dry			9/12/19 14:43	EP
<i>As per NELAC regulation, disclosure of the following condition is required; The associated matrix spike duplicate recovery were outside the method specified control limits.</i>						
Nitrite as N	<310	mg/kg dry			9/12/19 14:43	EP
<i>As per NELAC regulation, disclosure of the following condition is required; The associated matrix spike and matrix spike duplicate recovery were outside the method specified control limits.</i>						
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia						
Ammonia as N	3200	mg/kg dry		9/28/19	9/30/19	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N						
Total Kjeldahl Nitrogen	25000	mg/kg dry		9/13/19	9/13/19	JJC
<i>As per NELAC regulation, disclosure of the following condition is required; The method blank result associated with this analyte was greater than established limits. The laboratory control sample was less than the established limit.</i>						
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus						
Phosphorus, Total as P	12000	mg/kg dry		9/26/19	9/30/19	HKB
<i>The NYS DOH ELAP does not offer certification for this method in this matrix. This analysis was performed by Method EPA 365.3</i>						
(1) SM 2540 B-2011 Total Solids						
Total Solids @ 103-105 C	16	%			9/13/19	TER
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
(1) Total Volatile Solids, SM18-21 2540E						
Total Volatile Solids @ 550 C	74	%			9/13/19	TER
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						

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





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Supply ID: NY3304322

## Laboratory Analysis Report Prepared For Marcellus, Village of

LSL Project ID: 1919178

Receive Date/Time: 11/15/19 8:50

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Reviewed by:

  
Kristin E. Carpenter, Quality Staff

Date:

12/17/19

# -- LABORATORY ANALYSIS REPORT --

*Marcellus, Village of Marcellus, NY*

<b>Sample ID:</b>	Sludge Comp.	<b>LSL Sample ID:</b>	1919178-001
<b>Location:</b>		<b>Federal Water Supply ID:</b>	NY3304322
<b>Sampled:</b>	11/14/19 13:20	<b>Sampled By:</b>	JH
<b>Sample Matrix:</b>	SHW Dry Wt, Sludge	<b>Source Code:</b>	
		<b>Reason Code:</b>	

Analytical Method Analyte	Result	Prep Method Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010C Metals Please refer to the next page		EPA 3050B			MT
(1) EPA 7471B Metals Please refer to the next page		EPA 7471B			MT
(1) EPA 9045D Water Extractable pH					
pH	6.2	Std Units		11/27/19	HKB
pH Measurement Temperature	25	Degrees C		11/27/19	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>					
(1) EPA Method 9056A		EPA 300.0A			
Nitrate as N	350	mg/kg dry		12/5/19 19:45	CRT
Nitrite as N	<33	mg/kg dry		12/5/19 19:45	CRT
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia					
Ammonia as N	2200	mg/kg dry	11/23/19	11/25/19	JJC
<i>As per NELAC regulation, disclosure of the following condition is required; The result of the laboratory control sample for this analyte was less than the established limit.</i>					
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					
(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N					
Total Kjeldahl Nitrogen	49000	mg/kg dry	11/27/19	11/27/19	JJC
<i>As per NELAC regulation disclosure of the following condition is required; The method blank result associated with this analysis was greater than the established limit.</i>					
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					
(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus					
Phosphorus, Total as P	9200	mg/kg dry	12/11/19	12/13/19	HKB
<i>The NYS DOH ELAP does not offer certification for this method in this matrix. This analysis was performed by Method EPA 365.3</i>					
(1) SM 2540 B-2011 Total Solids					
Total Solids @ 103-105 C	15	%		11/22/19	TER
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					
(1) Total Volatile Solids, SM18-21 2540E					
Total Volatile Solids @ 550 C	78	%		11/22/19	TER
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					

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



**Life Science Laboratories, Inc.**  
 5854 Butternut Drive  
 East Syracuse, NY 13057 (315) 445-1900

# Analytical Results

StateCertNo: 10248

**CLIENT:** Life Science Labs-LIMS  
**Project:** Village of Marcellus  
**W Order:** 1919178  
**Matrix:** SHW

**Lab ID:** 1919178-001A  
**Client Sample ID:** Sludge  
**Collection Date:** 11/14/19 12:01  
**Date Received:** 11/15/19 8:50

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
<b>MERCURY</b>			<b>SW7471B</b>		<b>(SW7471B)</b>
Mercury	2.0		0.68 mg/Kg-dry	1	12/06/19 17:13

<b>TOTAL METALS BY ICP</b>			<b>SW6010C</b>		<b>(SW3050B)</b>
Arsenic	ND		6.8 mg/Kg-dry	1	12/11/19 14:12
Cadmium	ND		6.8 mg/Kg-dry	1	12/11/19 14:12
Chromium	17		6.8 mg/Kg-dry	1	12/11/19 14:12
Copper	640		6.8 mg/Kg-dry	1	12/11/19 14:12
Lead	38		6.8 mg/Kg-dry	1	12/11/19 14:12
Molybdenum	ND		6.8 mg/Kg-dry	1	12/11/19 14:12
Nickel	13		6.8 mg/Kg-dry	1	12/11/19 14:12
Potassium	2300		680 mg/Kg-dry	1	12/12/19 15:18
Selenium	ND		6.8 mg/Kg-dry	1	12/11/19 14:12
Zinc	1100		14 mg/Kg-dry	1	12/11/19 14:12

<b>PERCENT MOISTURE</b>			<b>SM 2540 G</b>		
Percent Moisture	85.2		1.0 wt%	1	11/22/17

- Qualifiers:**
- \* Value may exceed the Acceptable Level
  - E Value exceeds the instrument calibration range
  - J Analyte detected below the PQL
  - P Prim./Conf. column %D or RPD exceeds limit
  - B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - ND Not Detected at the Practical Quantitation Limit (PQL)
  - S Spike Recovery outside accepted recovery limits

13



# Life Science Laboratories, Inc.

Greg Crysler  
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Authorization: PO# 17076  
Federal Water  
Supply ID: NY3304322

## Laboratory Analysis Report Prepared For Marcellus, Village of

LSL Project ID: 1906378

Receive Date/Time: 05/07/19 8:43

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Reviewed by:

*LaDonna Kibler*  
LaDonna Kibler, Quality Assurance

Date:

5/28/19

A copy of this report was sent to:

# -- LABORATORY ANALYSIS REPORT --

*Marcellus, Village of Marcellus, NY*

<b>Sample ID:</b>	Compost Sample Comp.	<b>LSL Sample ID:</b>	1906378-001
<b>Location:</b>		<b>Federal Water Supply ID:</b>	NY3304322
<b>Sampled:</b>	05/07/19 7:50	<b>Sampled By:</b>	JH
<b>Sample Matrix:</b>	SHW Dry Wt, Compost	<b>Source Code:</b>	
		<b>Reason Code:</b>	

Analytical Method Analyte	Result	Prep Method Units	Prep Date	Analysis Date & Time	Analyst Initials
<i>(1) EPA 1682(2014) Salmonella by MSRV</i>					
Salmonella	<3	mpn/4g Dry		5/7/19 15:15	DA
<i>The NYS DOH ELAP does not offer certification for this method.</i>					
<i>(1) EPA 6010C Metals</i>					
Please refer to the next page		EPA 3050B			MT
<i>(1) EPA 7471B Metals</i>					
Please refer to the next page		EPA 7471B			MT
<i>(1) EPA 9045D Water Extractable pH</i>					
pH	6.6	Std Units		5/8/19	HKB
pH Measurement Temperature	25	Degrees C		5/8/19	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>					
<i>(1) EPA Method 9056A</i>					
Nitrate as N	220	mg/kg dry		5/21/19 22:16	EP
Nitrite as N	<49	mg/kg dry		5/21/19 22:16	EP
<i>(1) Modified EPA 350.1, Rev. 2.0 (1993)</i>					
Ammonia					
Ammonia as N	3700	mg/kg dry	5/15/19	5/16/19	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					
<i>(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N</i>					
Total Kjeldahl Nitrogen	25000	mg/kg dry	5/14/19	5/15/19	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					
<i>(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus</i>					
Phosphorus, Total as P	2500	mg/kg dry	5/14/19	5/17/19	EP
<i>The NYS DOH ELAP does not offer certification for this method in this matrix. This analysis was performed by method EPA 365.3.</i>					
<i>(1) SM 2540 B-2011 Total Solids</i>					
Total Solids @ 103-105 C	51	%		5/7/19	MM2
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					
<i>(1) Total Volatile Solids, SM18-21 2540E</i>					
Total Volatile Solids @ 550 C	87	%		5/21/19	MM2
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					

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



**Life Science Laboratories, Inc.**  
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 East Syracuse, NY 13057 (315) 445-1900

# Analytical Results

StateCertNo: 10248

**CLIENT:** Life Science Labs-LIMS  
**Project:** Village of Marcellus  
**W Order:** 1906378  
**Matrix:** COMPOST

**Lab ID:** 1906378-001A  
**Client Sample ID:** *Compost Sample Comp.*  
**Collection Date:** 05/07/19 7:50  
**Date Received:** 05/07/19 8:43

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
<b>MERCURY</b>			<b>SW7471B</b>		<b>(SW-846 7471B)</b>
Mercury	0.67		0.20 mg/Kg-dry	1	05/09/19 17:39

<b>TOTAL METALS BY ICP</b>			<b>SW6010C</b>		<b>(SW3050B)</b>
Arsenic	ND		2.0 mg/Kg-dry	1	05/22/19 15:29
Cadmium	ND		2.0 mg/Kg-dry	1	05/22/19 15:29
Chromium	7.0		2.0 mg/Kg-dry	1	05/22/19 15:29
Copper	260		2.0 mg/Kg-dry	1	05/17/19 16:10
Lead	16		2.0 mg/Kg-dry	1	05/22/19 15:29
Molybdenum	2.8		2.0 mg/Kg-dry	1	05/22/19 15:29
Nickel	7.3		2.0 mg/Kg-dry	1	05/22/19 15:29
Potassium	4100		200 mg/Kg-dry	1	05/17/19 16:10
Selenium	2.5		2.0 mg/Kg-dry	1	05/22/19 15:29
Zinc	330		3.9 mg/Kg-dry	1	05/22/19 15:29

<b>PERCENT MOISTURE</b>			<b>SM 2540 G</b>		
Percent Moisture	49.2		1.0 wt%	1	05/07/19

- Qualifiers:**
- \* Value may exceed the Acceptable Level
  - E Value exceeds the instrument calibration range
  - J Analyte detected below the PQL
  - P Prim./Conf. column %D or RPD exceeds limit
  - B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - ND Not Detected at the Practical Quantitation Limit (PQL)
  - S Spike Recovery outside accepted recovery limits

**LSL****Life Science Laboratories, Inc.****Greg Crysler  
Marcellus, Village of  
6 Slocombe Ave  
Marcellus, NY 13108****Phone: (315) 673-4491  
FAX: (315) 673-3217  
Authorization: PO# 17080  
Federal Water  
Supply ID: NY3304322**

## Laboratory Analysis Report

### Prepared For

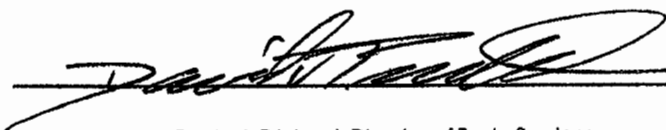
### Marcellus, Village of

**LSL Project ID: 1907312****Receive Date/Time: 05/20/19 9:30**

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Reviewed by:



Date:

6/17/19

David J. Prichard, Director of Tech. Services

A copy of this report was sent to:

Page 1 of 2

Date Printed:

6/17/19

**-- LABORATORY ANALYSIS REPORT --**

*Marcellus, Village of Marcellus, NY*

<b>Sample ID:</b> Compost Sample Comp.	<b>LSL Sample ID:</b> 1907312-001
<b>Location:</b>	<b>Federal Water Supply ID:</b> NY3304322
<b>Sampled:</b> 05/20/19 8:35	<b>Sampled By:</b> JH
<b>Sample Matrix:</b> SHW Dry Wt, Compost	<b>Reason Code:</b>

<b>Analytical Method</b>	<b>Prep Method</b>	<b>Prep Date</b>	<b>Analysis Date &amp; Time</b>	<b>Analyst Initials</b>
<b>Analyte</b>	<b>Result Units</b>			
(1) EPA 1682(2014) Salmonella by MSRV				
Salmonella	< 3 mpn/4g Dry		5/20/19 16:00	DA
<i>The NYS DOH ELAP does not offer certification for this analyte.</i>				
(1) EPA 6010C Metals	EPA 3050B			MT
Please refer to the next page				
(1) EPA 7471B Metals	EPA 7471B			EP
Please refer to the next page				
(1) EPA 9045D Water Extractable pH				
pH	5.7 Std Units		6/17/19	HKB
pH Measurement Temperature	25 Degrees C		6/17/19	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>				
(1) EPA Method 9056A	EPA 300.0A			
Nitrate as N	650 mg/kg dry		5/29/19 23:51	EP
<i>As per NELAC regulation, disclosure of the following condition is required; The result of the continuing calibration verification for this analyte was greater than the established control limit. The result of the laboratory control sample for this analyte was greater than the established control limit.</i>				
Nitrite as N	<61 mg/kg dry		5/29/19 23:51	EP
(1) Modified EPA 350.1, Rev. 2.0 (1993)				
Ammonia				
Ammonia as N	2400 mg/kg dry		5/25/19 5/28/19	JJC
<i>As per NELAC regulation disclosure of the following condition is required; The result of the laboratory control sample was less than the established limit.</i>				
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N				
Total Kjeldahl Nitrogen	26000 mg/kg dry		6/3/19 6/3/19	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus				
Phosphorus, Total as P	11000 mg/kg Dry		5/30/19 5/31/19	HKB
<i>The NYS DOH ELAP does not offer certification for this method in this matrix. This analysis was performed by method EPA 365.3.</i>				
(1) SM 2540 B-2011 Total Solids				
Total Solids @ 103-105 C	41 %		5/21/19	MM2
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) Total Volatile Solids, SM18-21 2540E				
Total Volatile Solids @ 550 C	79 %		5/21/19	MM2
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				

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





**Life Science Laboratories, Inc.**

5854 Butternut Drive  
East Syracuse, NY 13057 (315) 445-1900

**Analytical Results**

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS  
Project: Village of Marcellus  
W Order: 1907312  
Matrix: COMPOST

Lab ID: 1907312-001A  
Client Sample ID: Compost Sample Comp.  
Collection Date: 05/20/19 8:35  
Date Received: 05/20/19 9:30

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
<b>MERCURY</b>			<b>SW7471B</b>		<b>(SW-846 7471B)</b>
Mercury	1.1		0.25 mg/Kg-dry	1	05/22/19 17:02

<b>TOTAL METALS BY ICP</b>		<b>SW6010C</b>	<b>(SW3050B)</b>
Arsenic	ND	2.5 mg/Kg-dry	1 05/24/19 15:44
Cadmium	ND	2.5 mg/Kg-dry	1 05/24/19 15:44
Chromium	9.7	2.5 mg/Kg-dry	1 05/24/19 15:44
Copper	310	2.5 mg/Kg-dry	1 05/24/19 15:44
Lead	20	2.5 mg/Kg-dry	1 05/24/19 15:44
Molybdenum	3.0	2.5 mg/Kg-dry	1 05/24/19 15:44
Nickel	9.7	2.5 mg/Kg-dry	1 05/24/19 15:44
Potassium	4200	250 mg/Kg-dry	1 06/01/19 11:54
Selenium	3.1	2.5 mg/Kg-dry	1 05/24/19 15:44
Zinc	410	4.9 mg/Kg-dry	1 05/24/19 15:44

<b>PERCENT MOISTURE</b>		<b>SM 2540 G</b>
Percent Moisture	59.4	1.0 wt% 1 05/21/19

- Qualifiers:**
- \* Value may exceed the Acceptable Level
  - E Value exceeds the instrument calibration range
  - J Analyte detected below the PQL
  - P Prim./Conf. column %D or RPD exceeds limit
  - B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - ND Not Detected at the Practical Quantitation Limit (PQL)
  - S Spike Recovery outside accepted recovery limits



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Federal Water  
Supply ID: NY3304322

## Laboratory Analysis Report Prepared For Marcellus, Village of

LSL Project ID: 1909123

Receive Date/Time: 06/17/19 9:57

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Reviewed by:

Date:

7/8/19

David J. Prichard, Director of Tech. Services

A copy of this report was sent to:

# -- LABORATORY ANALYSIS REPORT --

*Marcellus, Village of Marcellus, NY*

<b>Sample ID:</b>	Compost Sample Comp.	<b>LSL Sample ID:</b>	1909123-001
<b>Location:</b>		<b>Federal Water Supply ID:</b>	NY3304322
<b>Sampled:</b>	06/17/19 9:15	<b>Sampled By:</b>	JH
<b>Sample Matrix:</b>	SHW Dry Wt, Compost	<b>Source Code:</b>	
		<b>Reason Code:</b>	

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		6/17/19 16:10	DA
<i>The NYS DOH ELAP does not offer certification for this analyte.</i>				
(1) EPA 6010C Metals	EPA 3050B			MT
Please refer to the next page				
(1) EPA 7471B Metals	EPA 7471B			EP
Please refer to the next page				
(1) EPA 9045D Water Extractable pH				
pH	6.8 Std Units		6/26/19	HKB
pH Measurement Temperature	25 Degrees C		6/26/19	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>				
(1) EPA Method 9056A	EPA 300.0A			
Nitrate as N	340 mg/kg dry		6/20/19 08:47	EP
Nitrite as N	<50 mg/kg dry		6/20/19 08:47	EP
(1) Modified EPA 350.1, Rev. 2.0 (1993)				
Ammonia				
Ammonia as N	4300 mg/kg dry	6/29/19	7/1/19	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N				
Total Kjeldahl Nitrogen	22000 mg/kg dry	6/25/19	6/25/19	JJC
<i>As per NELAC regulation disclosure of the following condition is required; The method blank result associated with this analysis is greater than the established limit.</i>				
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus				
Phosphorus, Total as P	9200 mg/kg Dry	7/1/19	7/2/19	HKB
<i>The NYS DOH ELAP does not offer certification for this method in this matrix. This analysis was performed by Method EPA 365.3</i>				
(1) SM 2540 G-97,-11 Total Solids				
Total Solids @ 103-105 C	50 %		6/25/19	CBR
<i>This analysis is not certifiable by the NYS DOH ELAP.</i>				
(1) Total Volatile Solids, SM18-21 2540E				
Total Volatile Solids @ 550 C	82 %		6/25/19	CBR
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				

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



**Life Science Laboratories, Inc.**  
 5854 Butternut Drive  
 East Syracuse, NY 13057 (315) 445-1900

# Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS  
 Project: Village of Marcellus  
 W Order: 1909123  
 Matrix: COMPOST

Lab ID: 1909123-001A  
 Client Sample ID: *Compost Sample Comp.*  
 Collection Date: 06/17/19 9:15  
 Date Received: 06/17/19 9:57

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
<b>MERCURY</b>					
Mercury	1.6		0.20 mg/Kg-dry	1	07/02/19 10:17
NOTES: As per NELAC regulation, disclosure of the following condition is required; The associated matrix spike and matrix spike duplicate recovery were outside the method specified control limits.					
<b>TOTAL METALS BY ICP</b>					
Arsenic 2.0 2.0 mg/Kg-dry 1 06/28/19 15:07					
Cadmium ND 2.0 mg/Kg-dry 1 06/28/19 15:07					
Chromium 8.6 2.0 mg/Kg-dry 1 06/28/19 15:07					
Copper 300 2.0 mg/Kg-dry 1 06/28/19 15:07					
Lead 18 2.0 mg/Kg-dry 1 06/28/19 15:07					
Molybdenum 2.7 2.0 mg/Kg-dry 1 06/28/19 15:07					
Nickel 9.1 2.0 mg/Kg-dry 1 06/28/19 15:07					
Potassium 4500 200 mg/Kg-dry 1 07/02/19 11:50					
Selenium 2.9 2.0 mg/Kg-dry 1 06/28/19 15:07					
Zinc 410 4.0 mg/Kg-dry 1 06/28/19 15:07					

<b>PERCENT MOISTURE</b>		<b>SM 2540 G</b>	
Percent Moisture	49.9	1.0 wt%	1 06/25/19

**Qualifiers:** \* Value may exceed the Acceptable Level B Analyte detected in the associated Method Blank  
 E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded  
 J Analyte detected below the PQL ND Not Detected at the Practical Quantitation Limit (PQL)  
 P Prim./Conf. column %D or RPD exceeds limit S Spike Recovery outside accepted recovery limits



# Life Science Laboratories, Inc.

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Authorization: PO# 17096  
Federal Water  
Supply ID: NY3304322

## Laboratory Analysis Report

### Prepared For

### Marcellus, Village of

LSL Project ID: 1910808

Receive Date/Time: 07/10/19 12:51

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 Sample Receipt 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.

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Reviewed by:

Date:

7/30/19

David J. Prichard, Director of Tech. Services

A copy of this report was sent to:

# -- LABORATORY ANALYSIS REPORT --

Marcellus, Village of    Marcellus, NY

Sample ID:	Compost Sample Comp.	LSL Sample ID:	1910808-001
Location:		Federal Water Supply ID:	NY3304322
Sampled:	07/10/19 8:24	Sampled By:	JH
Sample Matrix:	SHW Dry Wt, Compost	Source Code:	
		Reason Code:	

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		7/10/19 16:10	DA/JLJ
<i>The NYS DOH ELAP does not offer certification for this method.</i>				
(1) EPA 6010C Metals Please refer to the next page	EPA 3050B			MT
(1) EPA 7471B Metals Please refer to the next page	EPA 7471B			EP
(1) EPA 9045D Water Extractable pH pH	7.3 Std Units		7/19/19	HKB
pH Measurement Temperature	25 Degrees C		7/19/19	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>				
(1) EPA Method 9056A Nitrate as N	53 mg/kg dry	EPA 300.0A	7/15/19 16:57	EP
Nitrite as N	<8.5 mg/kg dry		7/15/19 16:57	EP
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia				
Ammonia as N	4500 mg/kg dry		7/20/19 7/22/19	JJC
<i>As per NELAC regulation, disclosure of the following condition is required; The result of the laboratory control sample for this analyte was less than the established limit.</i>				
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N				
Total Kjeldahl Nitrogen	26000 mg/kg dry		7/18/19 7/19/19	JJC
<i>As per NELAC regulation disclosure of the following condition is required; The method blank result associated with this analysis was greater than the established limit.</i>				
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus				
Phosphorus, Total as P	11000 mg/kg dry		7/23/19 7/25/19	HKB
<i>The NYS DOH ELAP does not offer certification for this method in this matrix. This analysis was performed by Method EPA 365.3</i>				
(1) SM 2540 B-2011 Total Solids Total Solids @ 103-105 C	59 %		7/12/19	CBR
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) Total Volatile Solids, SM18-21 2540E Total Volatile Solids @ 550 C	76 %		7/12/19	CBR
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				

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



**Life Science Laboratories, Inc.**  
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# Analytical Results

StateCertNo: 10248

**CLIENT:** Life Science Labs-LIMS  
**Project:** Village of Marcellus  
**W Order:** 1910808  
**Matrix:** COMPOST

**Lab ID:** 1910808-001A  
**Client Sample ID:** *Compost Sample Comp.*  
**Collection Date:** 07/10/19 8:24  
**Date Received:** 07/10/19 12:51

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
<b>MERCURY</b>			<b>SW7471B</b>		<b>(SW7471B)</b>
Mercury	0.81		0.17 mg/Kg-dry	1	07/23/19 11:01

<b>TOTAL METALS BY ICP</b>		<b>SW6010C</b>		<b>(SW3050B)</b>
Arsenic	2.0	1.7 mg/Kg-dry	1	07/23/19 10:52
Cadmium	ND	1.7 mg/Kg-dry	1	07/23/19 10:52
Chromium	11	1.7 mg/Kg-dry	1	07/23/19 10:52
Copper	370	1.7 mg/Kg-dry	1	07/23/19 10:52
Lead	25	1.7 mg/Kg-dry	1	07/23/19 10:52
Molybdenum	4.2	1.7 mg/Kg-dry	1	07/23/19 10:52
Nickel	10	1.7 mg/Kg-dry	1	07/23/19 10:52
Potassium	5000	170 mg/Kg-dry	1	07/24/19 11:25
Selenium	3.4	1.7 mg/Kg-dry	1	07/23/19 10:52
Zinc	470	3.4 mg/Kg-dry	1	07/23/19 10:52

<b>PERCENT MOISTURE</b>		<b>SM 2540 G</b>		
Percent Moisture	40.9	1.0 wt%	1	07/12/19

- Qualifiers:**
- \* Value may exceed the Acceptable Level
  - E Value exceeds the instrument calibration range
  - J Analyte detected below the PQL
  - P Prim./Conf. column %D or RPD exceeds limit
  - B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - ND Not Detected at the Practical Quantitation Limit (PQL)
  - S Spike Recovery outside accepted recovery limits



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Federal Water  
Supply ID: NY3304322

## Laboratory Analysis Report

### Prepared For

### Marcellus, Village of

LSL Project ID: 1915682

Receive Date/Time: 09/17/19 11:21

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 Sample Receipt 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.

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Reviewed by:

Date:

10/10/19

David J. Prichard, Director of Tech. Services

A copy of this report was sent to:

Page 1 of 2

Date Printed:

10/7/19



# -- LABORATORY ANALYSIS REPORT --

*Marcellus, Village of Marcellus, NY*

<b>Sample ID:</b>	Compost Sample Comp.	<b>LSL Sample ID:</b>	1915682-001
<b>Location:</b>		<b>Federal Water Supply ID:</b>	NY3304322
<b>Sampled:</b>	09/17/19 10:25	<b>Sampled By:</b>	JH
<b>Sample Matrix:</b>	SHW Dry Wt, Compost	<b>Source Code:</b>	
		<b>Reason Code:</b>	

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		9/17/19 14:45	DA
<i>The NYS DOH ELAP does not offer certification for this method.</i>					
(1) EPA 6010C Metals		EPA 3050B			
Please refer to the next page					MT
(1) EPA 7471B Metals		EPA 7471B			
Please refer to the next page					MT
(1) EPA 9045D Water Extractable pH					
pH	6.9	Std Units		9/27/19	HKB
pH Measurement Temperature	25	Degrees C		9/27/19	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>					
(1) EPA Method 9056A		EPA 300.0A			
Nitrate as N	240	mg/kg dry		9/23/19 23:19	EP
Nitrite as N	<36	mg/kg dry		9/23/19 23:19	EP
(1) Modified EPA 350.1, Rev. 2.0 (1993)					
Ammonia					
Ammonia as N	6000	mg/kg dry	10/5/19	10/7/19	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					
(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N					
Total Kjeldahl Nitrogen	19000	mg/kg dry	9/24/19	9/25/19	JJC
<i>As per NELAC regulation disclosure of the following condition is required; The method blank result associated with this analysis was greater than the established limit.</i>					
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					
(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus					
Phosphorus, Total as P	8400	mg/kg dry	10/3/19	10/4/19	HKB
<i>The NYS DOH ELAP does not offer certification for this method in this matrix. This analysis was performed by Method EPA 365.3</i>					
(1) SM 2540 B-2011 Total Solids					
Total Solids @ 103-105 C	69	%		9/17/19	TER
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					
(1) Total Volatile Solids, SM18-21 2540E					
Total Volatile Solids @ 550 C	77	%		9/17/19	TER
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					

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



**Life Science Laboratories, Inc.**  
 5854 Butternut Drive  
 East Syracuse, NY 13057 (315) 445-1900

# Analytical Results

StateCertNo: 10248

**CLIENT:** Life Science Labs-LIMS  
**Project:** Village of Marcellus  
**W Order:** 1915682  
**Matrix:** COMPOST

**Lab ID:** 1915682-001A  
**Client Sample ID:** *Compost Sample Comp.*  
**Collection Date:** 09/17/19 10:25  
**Date Received:** 09/17/19 11:21

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
<b>MERCURY</b>			<b>SW7471B</b>		<b>(SW7471B)</b>
Mercury	0.83		0.14 mg/Kg-dry	1	10/07/19 11:56

<b>TOTAL METALS BY ICP</b>		<b>SW6010C</b>	<b>(SW3050B)</b>
Arsenic	1.8	1.4 mg/Kg-dry	1 10/02/19 11:29
Cadmium	ND	1.4 mg/Kg-dry	1 10/02/19 11:29
Chromium	11	1.4 mg/Kg-dry	1 10/02/19 11:29
Copper	350	1.4 mg/Kg-dry	1 10/02/19 11:29
Lead	20	1.4 mg/Kg-dry	1 10/02/19 11:29
Molybdenum	3.6	1.4 mg/Kg-dry	1 10/02/19 11:29
Nickel	10	1.4 mg/Kg-dry	1 10/02/19 11:29
Potassium	4400	140 mg/Kg-dry	1 10/04/19 12:56
Selenium	3.6	1.4 mg/Kg-dry	1 10/02/19 11:29
Zinc	470	2.9 mg/Kg-dry	1 10/02/19 11:29

<b>PERCENT MOISTURE</b>		<b>SM 2540 G</b>
Percent Moisture	30.6	1.0 wt% 1 09/17/19

- Qualifiers:**
- \* Value may exceed the Acceptable Level
  - E Value exceeds the instrument calibration range
  - J Analyte detected below the PQL
  - P Prim./Conf. column %D or RPD exceeds limit
  - B Analyte detected in the associated Method Blank
  - H Holding times for preparation or analysis exceeded
  - ND Not Detected at the Practical Quantitation Limit (PQL)
  - S Spike Recovery outside accepted recovery limits



# Life Science Laboratories, Inc.

---

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Federal Water  
Supply ID: NY3304322

## Laboratory Analysis Report

### Prepared For

### Marcellus, Village of

LSL Project ID: 1919222

Receive Date/Time: 11/18/19 9:41

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Tel. (585) 728-3320

Reviewed by:

  
**Kristin E. Carpenter, Quality Staff**

Date:

12/30/19

# -- LABORATORY ANALYSIS REPORT --

*Marcellus, Village of Marcellus, NY*

<b>Sample ID:</b>	Compost Sample Comp.	<b>LSL Sample ID:</b>	1919222-001
<b>Location:</b>		<b>Federal Water Supply ID:</b>	NY3304322
<b>Sampled:</b>	11/18/19 8:57	<b>Sampled By:</b>	JH
<b>Sample Matrix:</b>	SHW as Recd, Compost	<b>Source Code:</b>	
		<b>Reason Code:</b>	

Analytical Method	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
<i>(1) EPA 1682(2014) Salmonella by MSRV</i>						
Salmonella	<3	MPN/4g Dry			11/18/19 14:20	DA
<i>The NYS DOH ELAP does not offer certification for this method.</i>						
<i>(1) EPA 6010C Metals</i>						
Please refer to the next page			EPA 3050B			MT
<i>(1) EPA 7471B Metals</i>						
Please refer to the next page			EPA 7471B			MT
<i>(1) EPA 9045D Water Extractable pH</i>						
pH	6.1	Std Units			12/3/19	HKB
pH Measurement Temperature	25	Degrees C			12/3/19	HKB
<i>pH is not certifiable by the NYS DOH ELAP in a solid/sludge matrix.</i>						
<i>(1) EPA Method 9056A</i>						
Nitrate as N	770	mg/kg dry	EPA 300.0A		12/8/19 21:52	MT
Nitrite as N	<48	mg/kg dry			12/8/19 21:52	MT
<i>As per NELAC regulation, disclosure of the following condition is required; *The result of a quality control sample was greater than the established limit.</i>						
<i>(1) Modified EPA 350.1, Rev. 2.0 (1993)</i>						
Ammonia						
Ammonia as N	3500	mg/kg dry		11/23/19	11/25/19	JJC
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
<i>(1) Modified EPA 351.2, Rev. 2.0 (1993) TKN as N</i>						
Total Kjeldahl Nitrogen	28000	mg/kg dry		12/2/19	12/3/19	JJC
<i>As per NELAC regulation disclosure of the following condition is required; The method blank result associated with this analysis was greater than the established limit.</i>						
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
<i>(1) Modified EPA 365.1, Rev. 2.0 (1993), Rev. 2.0 Total Phosphorus</i>						
Phosphorus, Total as P	8100	mg/kg dry		12/11/19	12/13/19	HKB
<i>The NYS DOH ELAP does not offer certification for this method in this matrix. This analysis was performed by Method EPA 365.3</i>						
<i>(1) SM 2540 B-2011 Total Solids</i>						
Total Solids @ 103-105 C	52	%			11/22/19	TER
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						
<i>(1) Total Volatile Solids, SM18-21 2540E</i>						
Total Volatile Solids @ 550 C	64	%			11/22/19	TER
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>						

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



**Life Science Laboratories, Inc.**  
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 East Syracuse, NY 13057 (315) 445-1900

# Analytical Results

StateCertNo: 10248

**CLIENT:** Life Science Labs-LIMS  
**Project:** Village of Marcellus  
**W Order:** 1919222  
**Matrix:** SHW

**Lab ID:** 1919222-001A  
**Client Sample ID:** Compost Sample  
**Collection Date:** 11/18/19 8:50  
**Date Received:** 11/18/19 9:41

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
<b>MERCURY</b>			<b>SW7471B</b>		<b>(SW7471B)</b>
Mercury	2.3		0.19 mg/Kg-dry	1	12/06/19 17:17

<b>TOTAL METALS BY ICP</b>		<b>SW6010C</b>	<b>(SW3050B)</b>
Arsenic	2.3	1.9 mg/Kg-dry	1 12/11/19 14:22
Cadmium	ND	1.9 mg/Kg-dry	1 12/11/19 14:22
Chromium	13	1.9 mg/Kg-dry	1 12/11/19 14:22
Copper	420	1.9 mg/Kg-dry	1 12/11/19 14:22
Lead	27	1.9 mg/Kg-dry	1 12/11/19 14:22
Molybdenum	3.7	1.9 mg/Kg-dry	1 12/11/19 14:22
Nickel	11	1.9 mg/Kg-dry	1 12/11/19 14:22
Potassium	3900	190 mg/Kg-dry	1 12/12/19 15:31
Selenium	4.0	1.9 mg/Kg-dry	1 12/11/19 14:22
Zinc	690	3.8 mg/Kg-dry	1 12/11/19 14:22

<b>PERCENT MOISTURE</b>		<b>SM 2540 G</b>
Percent Moisture	47.7	1.0 wt% 1 11/22/17

**Qualifiers:**

- \* Value may exceed the Acceptable Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits