

Ontario Water Utilities

**2200 Lake Road
Ontario, NY 14519**



2020 ANNUAL REPORT

for the

TOWN OF ONTARIO WASTEWATER TREATMENT PLANT COMPOST FACILITY

January 2021

TABLE OF CONTENTS

I. LETTER TO NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION1

II. ANNUAL REPORTING FORMS2

III. TEMPERATURE MONITORING REPORTS.....3

IV. LAB ANALYSIS REPORTS.....4

I. LETTER TO NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION



January 24, 2020

NYS Department of Environmental Conservation
 Region 8
 Division of Solid & Hazardous Materials
 6274 East Avon-Lima Road
 Avon, New York 14414

**RE: ANNUAL REPORT FOR THE PERIOD JANUARY 2020 TO DECEMBER 2020
 TOWN OF ONTARIO WWTP BIOSOLIDS COMPOSTING FACILITY
 DEC PERMIT # 8-5434-00006/00005 DEC FACILITY ID # 59C02**

As of December 2, 2002 the above referenced facility has been conducting aerated static pile composting as a means of final sludge disposal.

This report covers the period from January 2020 to December 2020 and includes daily monitoring, quarterly testing on sewage sludge, semi-annual testing on finished compost along with completed reporting forms as provided by the NYSDEC. We have also included sludge analysis of sludge received from the Town of Williamson, which was composted with this composting facility.

Table 1 Compost Yearly Overview			
Compost Pile #	Date Created	Date Placing in Curing	Date Screened
463	4/6/2020	04/27/20	05/25/20
464	4/14/2020	05/05/20	06/02/20
465	4/28/2020	05/19/20	06/12/20
466	5/8/2020	05/27/20	06/19/20
467	5/18/2020	06/07/20	07/01/20
468	5/26/2020	06/15/20	07/13/20
469	6/1/2020	06/21/20	07/16/20
470	6/8/2020	06/19/20	07/27/20
471	6/16/2020	07/07/20	08/03/20
472	6/22/2020	07/13/20	08/10/20
473	6/30/2020	07/21/20	08/24/20
474	7/8/2020	07/28/20	08/26/20
475	7/14/2020	08/04/20	09/03/20
476	7/21/2020	08/10/20	09/09/20
477	7/29/2020	08/18/20	09/21/20
478	8/4/2020	08/25/20	09/24/20
479	8/27/2020	09/17/20	10/12/20
480	9/9/2020	09/30/20	10/28/20
481	9/9/2020	09/30/20	10/28/20

Compost pile temperatures are taken once in the morning and once in the afternoon. The temperature is taken with a digital thermometer, which is connected to a temperature controller. The temperature controller is manually preset to maintain a 55 degree Celsius pile temperature. When the pile temperature





exceeds 55 degrees Celsius a blower is automatically turned on by the controller. The temperature is monitored eighteen (18) to twenty (20) inches from the aeration piping.

Compost pile temperatures of 55 degrees Celsius for piles built during this reporting period were maintained for a minimum of three (3) consecutive days and the temperatures were higher than 40 degrees Celsius for a 14 day period and the average temperature was higher than 45 degrees Celsius, which satisfies both Pathogen reduction as outlined in 6 NYCRR Part 361-3.7(a)(i)(a) and Vector attraction reduction requirements as outlined in 6 NYCRR Part 361-3.7(b)(1)(v).

Lab analysis data included in this report indicates that sewage sludge and finished compost analytes that **were tested all fell under the parameters established in the facility's NYSDEC Solid Waste Management Permit, 6 NYCRR Part 361, and 40 CFR Part 503.**

Following your review, please contact me with any questions or if any additional information is required.

Sincerely,

A handwritten signature in blue ink, appearing to read "Adam Cummings".

Adam Cummings, P.E., BCEE
Town Engineer/Superintendent of Water Utilities

cc: Mr. Scott Tozier, WWTP Chief Operator, Town of Ontario
File

II. ANNUAL REPORTING FORMS

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

2020

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, 2020 to December 31, 2020

Annual Report Form Due: No Later than March 1, 2021

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: Town of Ontario Compost Facility

SW FACILITY ACTIVITY NUMBER(S): (Ex. 02P20099) 59C02

COUNTY WHERE FACILITY IS LOCATED: Wayne

DEC USE ONLY

Region: 8 SWIMS:
MATRIX: X
Date Reviewed:
Reviewed By:
Data Entered:

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

FACILITY INFORMATION			
FACILITY NAME: Town of Ontario Compost Facility			
FACILITY LOCATION ADDRESS: 2200 Lake Road	FACILITY CITY: Ontario	STATE: NY	ZIP CODE: 14519
FACILITY TOWN: Ontario	FACILITY COUNTY: Wayne	FACILITY PHONE NUMBER: 315-524-2941	
NYSDEC REGION #: 8			
FACILITY CONTACT: Scott Tozier		CONTACT PHONE NUMBER: 315-524-2941x705	
CONTACT EMAIL ADDRESS: tozier@ontariotown.org			
OWNER INFORMATION			
OWNER NAME: Town of Ontario		OWNER PHONE NUMBER: 315-524-2941x700	
OWNER ADDRESS: 2200 Lake Road	OWNER CITY: Ontario	STATE: NY	ZIP CODE: 14519
OWNER CONTACT: Adam Cummings	OWNER CONTACT EMAIL ADDRESS: acummings@ontariotown.org		
OPERATOR INFORMATION			
OPERATOR NAME: <input checked="" type="checkbox"/> Same as owner			
PREFERENCES			
Preferred address to receive correspondence: <input checked="" type="radio"/> Facility location address <input 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 type="radio"/> Owner <input checked="" type="radio"/> Owner Contact <input type="radio"/> Other (provide):			
Did you operate in 2020? <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, 2020 to December 31, 2020

	Inputs	Quantity	Unit	Source(s)
YARD WASTE	Leaves only		Choose Units	
	Grass Clippings		Choose Units	
	Mixture of Grass and Leaves		Choose Units	
	Brush (Small branches and limbs, <4 inch diameter)		Choose Units	
SSO	Source Separated Organics (Food scraps, soiled paper products, etc.)		Choose Units	
	Food Processing Waste (brewery grains, grape pomace, etc.)		Choose Units	
OTHER	Crop Residues (Corn stalks, etc.)		Choose Units	
	Manure (including bedding)		Choose Units	
	Sawdust/Shavings		Choose Units	
	Animal Carcasses (road-kill, animal mortalities)		Choose Units	
	Paper Mill Residuals		Choose Units	
	Digestate		Choose Units	
	Other: Biosolids _____	269	Cubic Yards	Municipal WWTPs
BULKING AGENT	Woodchips	818	Cubic Yards	Local Developers
	Sawdust		Choose Units	
	Other: _____		Cubic Yards	

Ontario WWTP
Compost Facility Distribution

Date	Recipient	OWUD Ref. No.	Amount Taken (CY)	Category	Use	Comments
6/8/2020	Ron Stewart	060820	3	Resid	Landscaping	
6/9/2020	Ron Stewart	060920	5	Resid	Landscaping	
6/10/2020	Ron Stewart	061020	3	Resid	Landscaping	
6/12/2020	Tom Behrendt	061220	3	Resid	Landscaping	
6/16/2020	John Ryan	061620	6	Resid	Landscaping	
6/16/2020	Tom Behrendt	061620	1.5	Resid	Landscaping	
6/19/2020	John Ryan	061920	6	Resid	Landscaping	
6/25/2020	Jeff Kunzer	062520	30	Resid	Landscaping	
7/15/2020	Ontario Highway Dept	071520	54	HW	Landscaping	
7/15/2020	Jeff Kunzer	071520	12	Resid	Landscaping	
8/6/2020	Walworth Highway De	080620	81	HW	Landscaping	
8/13/2020	Scott VandeWinkle	081320	5	Resid	Landscaping	
8/27/2020	Walworth Highway De	082720	77	HW	Landscaping	
9/23/2020	Todd Bennett	092320	5	Resid	Landscaping	
9/24/2020	Ontario Highway Dept	092420	71	HW	Landscaping	
11/3/2020	Joe Maliga	110320	1	Resid	Landscaping	
11/17/2020	Williamson Highway D	111720	53	HW	Landscaping	

Key Input:

- Parks = Ontario Parks and Rec. Dept.
- HW = Ontario Highway Dept.
- Resid = Town Residents
- Tn. Emp. = Town Employees

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.

IMPORTANT NOTE!

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 =====>					Max. Conc. (mg/kg)
Arsenic (mg/kg)	See following sheet				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 _____					

2020 COMPLIANCE REPORT
Standards for the Use or Disposal of Sewage Sludge
TOWN OF ONTARIO WASTEWATER TREATMENT PLANT
 REPORTING PERIOD - JANUARY 2020 - DECEMBER 2020
 Laboratory Analysis Report Summary

		Compost Sample Results					
LAB SAMPLE ID	REPORT SAMPLE DATE	2007730-001	2010515-003	2012385-003	2014591-002	2016740-003	2018003-002
		6/2/2020	7/8/2020	8/5/2020	9/8/2020	10/7/2020	11/2/2020
Analyte							
	361-3.9 LIMITS (Table 3)						
% VOLATILES		74	70	68	69	62	40
ARSENIC	41	16	17	18	19	17	15
CADMIUM	10	< 1.8	< 1.5	< 1.5	< 1.7	< 1.4	< 1.7
CHROMIUM	1000	30	28	28	29	30	26
COPPER	1500	430	390	450	430	420	400
LEAD	300	76	87	92	80	83	50
MOLYBDENUM	40	6.0	7.4	9.2	7.8	8.1	7.8
NICKEL	200	18	17	19	18	18	17
SELENIUM	100	4.7	6.2	6.4	6.2	6.2	5.9
ZINC	2500	620	600	630	620	630	580
POTASSIUM		4500	3900	4000	3300	3600	2700
pH		7.0	7.8	7.5	7.6	7.6	7.5
MERCURY	10	0.46	0.54	1.10	0.65	0.48	0.45
PHOSPHORUS		16000	17000	9600	24000	4200	22000
% SOLIDS		57	66	65	59	70	60
AMMONIA (NH ₃ N)		6600	8400	9000	9000	9900	9900
TKN		31000	37000	31000	32000	43000	32000
NITRATE (NO ₃ N)		380	190	320	210	350	360

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.

Sludge samples are taken from the digester and/or after dewatering. Temperature readings are taken from each pile (one in the morning and one in the afternoon) while in the active composting period. Samples of finished compost are taken at random locations.

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 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: _____

Business Phone Number: _____

Business Email: _____

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 **2021**: _____ Choose Unit

B. Amount of foods scraps projected to be processed in **2022**: _____ Choose Unit

* 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.)

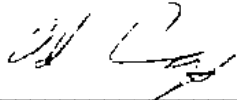
The Owner or Operator must also submit one copy by email, fax or mail to:

**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

1/24/2020

Date

Adam Cummings

Name (Print)

Town Engineer

Title (Print)

acummings@ontariotown.org

Email (Print)

2200 Lake Road

Address

Ontario

City

NY 14519

State and Zip

(315) 524-2941

Phone Number

ATTACHMENTS: NO YES (IF YES, LIST ATTACHMENTS)

- Temperature Monitoring Reports
- Lab Analysis Reports
- _____

III. TEMPERATURE MONITORING REPORTS

Pile #	Built Pile	temperature	end compost	Finish cure	Screened	Yds sludge	Yds chips	Yds cover	Total Yds	Sludge yds	% solids	From	PRESS YDS	DB Yds	Dry Met.Tons
463	4/6/2020	04/11/20	04/27/20	05/27/20	05/28/20	15.0	29	15.0	59	15.0	14.5%	DB		15.0	1.7
464	4/14/2020	04/19/20	05/05/20	06/05/20	06/02/20	15.0	29	15.0	59	15.0	14.5%	DB		15.0	1.7
465	4/28/2020	05/05/20	05/19/20	06/19/20	06/12/20	14.5	29	15.0	58.5	14.5	31.1%	DB		14.5	3.6
466	5/8/2020	05/11/20	05/27/20	06/28/20	06/19/20	14.5	29	14.5	58.0	14.5	49.5%	DB		14.5	5.9
467	5/18/2020	05/22/20	06/07/20	07/08/20	07/01/20	14.5	29	14.5	58.0	14.5	51.2%	DB		14.5	6.1
468	5/26/2020	06/01/20	06/15/20	07/15/20	07/13/20	14.5	29	14.5	58.0	14.5	51.3%	DB		14.5	6.1
469	6/1/2020	06/05/20	06/21/20	07/21/20	07/16/20	14.5	29	14.5	58.0	14.5	62.7%	DB		14.5	7.6
470	6/8/2020	06/13/20	06/19/20	07/19/20	07/27/20	14.5	29	14.5	58.0	14.5	66.2%	DB		14.5	8.1
471	6/16/2020	06/20/20	07/07/20	08/07/20	08/03/20	14.5	29	15.0	58.5	14.5	66.2%	DB		14.5	8.1
472	6/22/2020	06/24/20	07/13/20	08/13/20	08/10/20	14.5	29	15.0	58.5	14.5	65.1%	DB		14.5	7.9
473	6/30/2020	07/02/20	07/21/20	08/21/20	08/24/20	14.5	29	15.0	58.5	14.5	66.5%	DB		14.5	8.1
474	7/8/2020	07/10/20	07/28/20	08/28/20	08/26/20	14.5	29	15.0	58.5	14.5	70.0%	DB		14.5	9.5
475	7/14/2020	07/17/20	08/04/20	09/04/20	09/03/20	14.5	29	15.0	58.5	14.5	64.5%	DB		14.5	5.9
476	7/21/2020	07/26/20	08/10/20	09/10/20	09/09/20	14.5	29	15.0	58.5	14.5	72.8%	DB		14.5	9.0
477	7/29/2020	08/02/20	08/18/20	09/18/20	09/21/20	14.5	29	15.0	58.5	14.5	58.6%	DB		14.5	7.1
478	8/4/2020	08/07/20	08/25/20	09/25/20	09/24/20	14.5	29	15.0	58.5	15.0	60.0%	DB		15.0	7.5
479	8/27/2020	08/31/20	09/17/20	10/17/20	10/12/20	13.5	27.5	15.0	56.0	13.5	63.1%	DB		13.5	7.1
480	9/9/2020	09/12/20	09/30/20	10/30/20	10/28/20	11	22	15	48	11.0	62.5%	DB		11.0	5.7
481	9/9/2020	09/12/20	09/30/20	10/30/20	10/28/20	11	22	15	48	11.0	62.5%	DB		11.0	5.7
19						268.5	535.5	282.5	1086.5	269.0	55.4%		0.0	269	122.4

110 @ 62.2%^{19%} Yds Sludge
 22 Yds chips
 1.5 Yds Cover
 48 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

#481 PILE west

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	9/9/20	35.1	11:24	RB	35.5	2:07	RB
2	9/10/20	39.1	6:12	RB	39.1	12:30	RB
3	9/11/20	52.1	7:48	RB	61.5	12:40	RB
4	9/12/20	56.7	0445	HR	56.1	1:40	CP
5	9/13/20	56.1	0455	HR	55.8	1:00	CP
6	9/14/20	45.3	7:01	CP	56.0	12:35	RB
7	9-15-20	50.2	7:05	CP	55.1	12:20	CP
8	9-16-20	56.4	7:20	CP	55.3	1:55	CP
9	9-17-20	55.2	7:30	CP	56.2	12:35	CP
10	9-18-20	56.3	7:50	CP	56.0	1:10	CP
11	9/19/20	54.9	8:55	RB	53.9	2:15	CP
12	9/20/20	50.6	8:40	RB	50.1	12:40	CP
13	9/21/20	51.1	8:10	CP	51.4	12:50	CP
14	9/22/20	49.5	6:20	CP	50.2	1:35	CP
15	9/23/20	48.9	8:20	CP	48.6	2:10	CP
16	9/24/20	48.1	6:30	CP	50.2	12:40	CP
17	9/25/20	49.7	7:48	RB	49.9	1:50	RB
18	9/26/20	50.3	8:27	AK	50.9	12:43	AK
19	9/27/20	52.0	8:53	AK	52.5	1:26	AK
20	9/28/20	53.1	6:35	CP	53.8	12:15	CP
21	9/29/20	54.2	6:42	CP	54.2	1:10	CP
22	9/30/20						
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

110 52.5%
 22 Yds Sludge
 15 Yds chips
 15 Yds Cover
 48 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

480 PILE *middle*

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY	
1	9/9/20	28.6	11:24	RS	30.6	2:05	RS	
2	9/16/20	31.6	6:11	TS	34.6	12:30	TS	
3	9/11/20	46.8	7:48	TS	56.7	12:40	TS	
4	9.12.20	56.3	0445	HR	55.9	1:0	CP	
5	9.13.20	56.8	0455	HR	56.7	1:00	CP	
6	9-14-20	56.5	7:00	RS	55.0	12:35	TS	
7	9-15-20	56.4	7:05	RS	55.0	12:20	TS	
8	9-16-20	55.8	7:20	RS	54.10	1:0	TS	
9	9-17-20	56.2	7:30	RS	55.0	12:30	TS	
10	9-18-20	56.1	7:00	RS	54.0	1:10	TS	
11	9/19/20	53.9 54.9 RS	8:55	RS	54.7	2:15	TS	
12	9/20/20	53.7	8:40	RS	50.1	12:40	TS	
13	9/21/20	53.1	8:10	RS	52.7	12:10	TS	
14	9/22/20	52.4	6:35	RS	50.7	1:35	TS	
15	9/23/20	52.6	8:20	RS	51.1	2:10	TS	
16	9/24/20	51.0	6:35	RS	50.1	12:40	TS	
17	9/25/20	51.7	7:48	TS	49.7	1:50	TS	
18	9/26/20	50.3	8:27	AK	44.7	12:43	AK	
19	9/27/20	AK 52.0 49.6	8:33	AK	45.3	1:26	AK	
20	9/28/20	51.1	6:35	RS	46.9	12:15	TS	
21	9/29/20	50.2	6:48	RS	50.0	1:10	TS	
22	9/30/20	None composting						
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								

11 Batches → $\frac{13.5}{27.5} \times 63.1\%$
 13.5 Yds Sludge
 27.5 Yds chips
 15 Yds Cover
 56 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

#479 FILE EAST

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	8/21/20	24.0	11:00	RS	35.2	1:50	RS
2	8/23/20	36.7	6:45	RS	40.0	12:45	RS
3	8/24/20	47.1	7:75	CA	78.9	12:10	CA
4	8/30/20	53.0	8:20	RS	54.1	12:13	RS
5	8/31/20	56.6	6:46	RS	68.0	1:14	RS
6	9/1/20	55.5	6:56	RS	56.6	1:56	RS
7	9/2/20	56.1	7:15	RS	50.3	12:58	RS
8	9/3/20	56.7	7:02	RS	56.7	1:24	RS
9	9/4/20	56.3	6:40	RS	56.1	1:15	RS
10	9/5/20	56.4	8:40	KL	56.2	12:45	KL
11	9/6/20	56.5	8:55	KL	56.6	1:00	KL
12	9/7/20	56.1	9:36	RS	57.0	12:15	RS
13	9/8/20	56.4	6:59	RS	56.7	1:45	RS
14	9/9/20	56.9	6:47	RS	56.8	2:05	RS
15	9/10/20	56.1	6:11	RS	56.0	12:30	RS
16	9/11/20	56.7	7:48	RS	56.9	12:40	RS
17	9.12.20	56.9	0445	CA	56.6	12:10	CA
18	9.13.20	56.6	0455	CA	56.7	12:00	CA
19	9-14-20	56.9	7:00	RS	55.1	12:35	RS
20	9-15-20	56.0	7:05	RS	56.6	12:20	RS
21	9-16-20	56.2	7:20	RS	56.7	1:02	RS
22	9-17-20	56.0	7:20	RS			
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

14.5 60% Yds Sludge
29 Yds chips
15 Yds Cover
58.5 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

478 PILE middle

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	8/4/20				34.5	2:25	RB
2	8/5/20	36.6	5:20	FB	40.6	1:13	RB
3	8/6/20	46.0	7:37	RB	49.0	1:03	RB
4	8/7/20	56.2	6:00	FB	58.2	12:45	FB
5	8/8/20	56.2	0515	AN	55.7	12:15	CP
6	8/9/20	56.2	0455	AN	54.7	9:10	CP
7	8/10/20	56.3	8:19	RB	55.5	1:25	RB
8	8/11/20	55.1	6:53	FB	55.7	1:08	FB
9	8/12/20	56.8	9:30	RB	55.7	12:38	RB
10	8/13/20	55.7	9:10	RB	56.0	1:20	RB
11	8/14/20	59.7	9:15	RB	56.8	1:30	RB
12	8/15/20	56.5	8:25	BD	56.3	1:20	BD
13	8/16/20	55.4	8:23	BD	56.4	1:25	BD
14	8/17/20	56.5	6:30	FB	56.7	12:40	FB
15	8/18/20	56.9	6:05	FB	56.8	1:05	FB
16	8/19/20	56.2	6:40	FB	55.3	1:10	FB
17	8/20/20	55.5	8:12	AC	55.1	1:30	FB
18	8/21/20	56.6	6:30	FB	55.3	1:34	FB
19	8/22/20	56.4	8:50	AK	55.6	12:30	AK
20	8/23/20	53.9	9:25	AK	55.9	12:54	AK
21	8/24/20	55.8	7:41	AC	55.4	1:35	FB
22	8/25/20	55.7	7:21	FB	55.9	1:30	FB
23	8/26/20	55.9	6:35	FB			
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

→

14.5 @ 58.6%
 Yds Sludge
 29 Yds chips
 15 Yds Cover
 56.5 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

477 PILE East

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	7/29/20	39.8	10:41	AB	40.2	12:56	AB
2	7/30/20	42.5	7:18	AB	46.1 46.4	10:05 1:05	AB
3	7/31/20	46.8	9:30	AB	47.1	12:40	AB
4	8/1/20	50.0	6:28	AB	53.0	2:26	AB
5	8/2/20	56.1	0600	AB	67.1	1:20	AB
6	8/3/20	55.1	7:36	AB	55.9	1:38	AB
7	8/4/20	55.4	7:47	AB	55.0	2:22	AB
8	8/5/20	56.2	5:15	AB	57.0	1:18	AB
9	8/6/20	55.1	7:35	AB	56.5	1:03	AB
10	8/7/20	56.3	6:00	AB	56.1	12:45	AB
11	8/8/20	55.9	0515	AB	56.7	1:05	AB
12	8/9/20	57.0	0455	AB	56.7	1:00	CP
13	8/10/20	55.2	4:39	AB	55.4	1:00	AB
14	8/11/20	56.9	6:53	AB	55.5	1:08	AB
15	8/12/20	56.0	8:30	AB	56.1	12:38	AB
16	8/13/20	56.8	8:10	AB	56.9	1:20	AB
17	8/14/20	55.3	8:15	AB	56.9	1:30	AB
18	8/15/20	55.5	8:25	AB	57.0	1:26	AB
19	8/16/20	56.4	8:23	AB	55.6	1:25	AB
20	8/17/20	56.5	6:30	AB	56.9	12:40	AB
21	8/18/20	56.7	6:05	AB	56.7	1:05	AB
22	8/19/20	55.8	6:40	AB	56.6	1:10	AB
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

→

West

14.5 @ 72.8%
29
15
58.5

Yds Sludge
Yds chips
Yds Cover
Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

476 PILE West

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	7/21/20	33.1	11:30	JK	34.5	12:09	JK
2	7/22/20	36.7	6:30	JK	36.7	12:12	JK
3	7/23/20	40.4	7:02	JK	43.0	12:30	JK
4	7/24/20	46.6	5:57	JK	47.8	12:35	JK
5	7/25/20	52.7	8:05	JL	55.8	12:54	JL
6	7/26/20	58.0	8:11	JL	60.0	12:50	JL
7	7/27/20	70.1	8:11	JL	58.2	12:45	JK
8	7/28/20	58.1	6:51	JK	55.4	1:53	JK
9	7/29/20	56.7	10:41	JK	58.6	12:52	JK
10	7/30/20	67.6	7:15	JK	54.6	12:00	JK
11	7/31/20	56.1	9:30	JK	55.7	12:40	JK
12	8/1/20	56.9	6:29	JK	55.6	2:36	JK
13	8/2/20	56.7	0630	JK	56.1	1:21	JK
14	8/3/20	56.5	7:06	JK	55.2	1:32	JK
15	8/4/20	56.0	7:47	JK	56.7	2:25	JK
16	8/5/20	56.3	5:16	JK	56.4	1:18	JK
17	8/6/20	56.7	7:35	JK	54.7	1:23	JK
18	8/7/20	56.9	6:03	JK	56.3	12:45	JK
19	8/8/20	56.3	0515	JK	56.5	12:19	JK
20	8/9/20	55.9	0455	JK	56.1	6:30	JK
21	8/10/20	56.3	4:54	JK	56.7	1:00	JK
22	8/11/20	56.0	6:53	JK			
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

6 @ 80%
 14.5 @ 49%
 29
 15
 58
 69.5

Yds Sludge
 Yds chips
 Yds Cover
 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

475 PILE *Middle*

7/19/20

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	7/13/20	34.5	11:05	RS	36.0	1:47	RS
2	7/15/20	37.9	8:33	RS	39.2	12:13	RS
3	7/16/20	47.5	6:58	RS	50.4	1:25	RS
4	7/17/20	55.4	8:16	RS	56.4	1:05	RS
5	7/18/20	55.9	8:42	AK	67.4	12:00	LA
6	7/19/20	55.4	8:16	AK	58.0	1:38	AK
7	7/20/20	56.6	6:41	TS	63.0	12:44	RS
8	7/21/20	56.2	7:18	RS	55.3	12:09	RS
9	7/22/20	56.0	6:50	RS	56.3	12:12	RS
10	7/23/20	55.6	7:22	RS	56.2	12:28	RS
11	7/24/20	56.5	7:55:55	TS	55.0	12:35	TS
12	7/25/20	56.2	8:05	JL	56.0	12:54	JL
13	7/26/20	56.1	8:11	JL	55.0	12:50	JL
14	7/27/20	56.5	4:41	RS	55.7	12:15	RS
15	7/28/20	55.2	6:51	RS	56.8	1:13	RS
16	7/29/20	55.2	10:41	RS	55.1	12:52	RS
17	7/30/20	56.4	7:08	RS	54.4	10:05	RS
18	7/31/20	55.2	9:30	RS	53.8	12:40	RS
19	8/1/20	54.5	6:28	TS	52.5	1:36	TS
20	8/2/20	52.6	0600	AL	52.8	1:20	TS
21	8/3/20	51.8	7:06	RS	55.9	1:38	RS
22	8/4/20	55.8	7:47	RS			
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

$\frac{14.5}{29} \times 100 = 50\%$
 14.5 Yds Sludge
 29 Yds chips
 15 Yds Cover
 58.5 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

474 PILE East

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1					40.3	2:10	RB
2	7/8/20	44.7	7:34	RB	45.5	1:10	RB
3	7/9/20	52.0	7:35	RB	55.4	12:52	RB
4	7/10/20	73.0	6:42	RB	73.2	1:44	RB
5	7/11/20	56.7	8:34	RB	56.6	1:25	RB
6	7/12/20	60.0	8:12	RB	56.3	12:35	RB
7	7/13/20	56.2	6:20	RB	56.5	2:05	RB
8	7/14/20	56.5 55.8	7:00	RB	56.8	1:47	RB
9	7/15/20	56.4	9:33	RB	55.1	1:13	RB
10	7/16/20	57.2	6:58	RB	56.6	1:24	RB
11	7/17/20	56.1	8:16	RB	56.5	1:05	RB
12	7/18/20	59.4	8:42	RB	58.9	1:30	CA
13	7/19/20	56.0	8:16	RB	56.9	1:36	RB
14	7/20/20	56.0	6:41	RB	63.0	12:44	RB
15	7/21/20	64.0	7:18	RB	56.8	2:09	RB
16	7/22/20	56.1	6:30	RB	55.7	17:12	RB
17	7/23/20	55.7	7:02	RB	56.0	12:28	RB
18	7/24/20	56.0	5:58	RB	55.7	12:35	RB
19	7/25/20	56.4	8:05	JL	56.9	12:54	JL
20	7/26/20	55.7	2:11	JL	56.1	12:50	JL
21	7/27/20	55.1	8:41	RB	55.5	12:45	RB
22	7/28/20	56.1	6:51	RB			
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

4.5 @ 66.5%
 Yds Sludge
 29 Yds chips
 15 Yds Cover
 53.5 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

#473 PILE *West*

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	6/30/20	32.2	11:15	RS	33.6	12:1	RS
2	7/1/20	34.9	6:48	RS	41.6	12:47	RS
3	7/2/20	35.7 55.7	6:31	RS	57.7	12:29	RS
4	7/3/20	55.2	6:33	RS	55.1	12:03	RS
5	7/4/20	59.9	7:00	RS	56.3	12:2	RS
6	7/5/20	56.6	8:12	RS	56.9	1:10	RS
7	7/6/20	55.0	8:27	RS	55.2	12:58	RS
8	7/7/20	56.4	6:54	RS	56.1	1:52	RS
9	7/8/20	55.6	7:31	RS	55.0	1:10	RS
10	7/9/20	56.4	7:25	RS	56.3	12:42	RS
11	7/10/20	55.7	8:26:42	RS	56.1	1:12	RS
12	7/11/20	55.0	8:34	RS	54.7	1:25	RS
13	7/12/20	56.1	8:19	RS	56.5	16:55	RS
14	7/13/20	56.0	6:20	RS	55.5	2:05	RS
15	7/14/20	55.3	7:06	RS	55.8	1:42	RS
16	7/15/20	56.2	8:22	RS	56.0	1:19	RS
17	7/16/20	54.9	6:58	RS	54.8	1:25	RS
18	7/17/20	54.9	8:16	RS	55.3	1:25	RS
19	7/18/20	56.2	8:17	RS	56.9	1:36	RS
20	7/19/20	56.1	8:16	RS	55.9	1:36	RS
21	7/20/20	54.6	6:43	RS	54.5	12:44	RS
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

middle

65.1%
14.5 Yds Sludge
29 Yds chips
15 Yds Cover
58.5 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

472 PILE

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	6/22/20	34.0	11:30	RB	34.6	2:00	RB
2	6/23/20	37.1	6:44	RB	43.3	1:30	RB
3	6/24/20	56.9	6:57	RB	56.7	1:26	RB
4	6/25/20	55.4	4:30	RB	56.7	2:28	RB
5	6/26/20	56.2	5:55	RB	56.0	12:50	RB
6	6/27/20	56.5	7:10	CF	59.3	1:12	CF
7	6/28/20	56.8	7:10	CF	56.6	1:12	CF
8	6/29/20	55.1	7:00	RB	56.7	1:09	RB
9	6/30/20	55.6	6:52	RB	55.5	1:01	RB
10	7/1/20	56.2	6:47	RB	56.5	12:47	RB
11	7/2/20	55.0	6:31	RB	56.5	12:29	RB
12	7/3/20	56.5	6:30	RB	55.1	6:00	RB
13	7/4/20	55.4	8:00	CF	54	17:00	CF
14	7/5/20	57.0	8:10	CF	57.0	1:10	CF
15	7/6/20	57.2	8:05	RB	56.5	11:58	RB
16	7/7/20	54.3	6:54	RB	54.2	1:52	RB
17	7/8/20	56.3	7:34	RB	55.1	1:16	RB
18	7/9/20	56.5	7:55	RB	56.2	12:57	RB
19	7/10/20	55.7	6:42	RB	56.4	1:11	RB
20	7/11/20	55.4	8:34	RB	54.4	1:25	RB
21	7/12/20	56.4	8:18	RB	55.5	12:35	RB
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

14.5 ^{0 70%} Yds Sludge
 29 Yds chips
 15 Yds Cover
 58.5 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

#471 PILE

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	6/16/20	26.1	11:00	SC	28.3	1:00	SC
2	6/17/20	31.4	6:45	SC	36.1	1:12	RB
3	6/18/20	47.6	6:20	SC	55.5	1:22	RB
4	6/19/20	71.2	9:22	RB	65.6	1:11	RB
5	6/20/20	55.6	6:40	TB	55.8	4:26	RB
6	6/21/20	55.4	5:55	TB	56.4	12:57	RB
7	6/22/20	55.7	6:15	RB	56.2	2:20	RB
8	6/23/20	56.1	6:44	RB	55.8	1:30	RB
9	6/24/20	56.0	6:57	RB	56.8	1:20	RB
10	6/25/20	55.6	8:20	RB	55.9	2:28	RB
11	6/26/20	55.1	5:55	TB	56.9	12:50	TB
12	6/27/20	56.5	7:00	CP	56.3	1:12	CP
13	6/28/20	55.2	7:30	CP	56.6	1:30	CP
14	6/29/20	56.9	7:00	RB	55.5	1:29	RB
15	6/30/20	56.2	6:57	RB	56.0	1:21	RB
16	7/1/20	56.4	6:47	TB	56.2	12:47	RB
17	7/2/20	56.8	6:31	RB	55.8	12:28	RB
18	7/3/20	56.6	6:30	TB	56.3	1:00	TB
19	7/4/20	56.3	8:00	CP	56	1:00	CP
20	7/5/20	54.2	8:10	SC	54.6	1:10	SC
21	7/6/20	49.7	4:09	RB	55.3	12:58	RB
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

14.5 @ 66.2 %
 29 Yds Sludge
 15 Yds chips
 58.5 Yds Cover
 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

470 PILE WEST 3

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	6/8/20	26.1	11:30	CB	26.3	12:20	CB
2	6/9/20	28.2	10:20	CB	36.0	1:00	CB
3	6/10/20	40.1	6:20	CB	44.1	12:45	CB
4	6/11/20	53.9	6:15	CB	56.0	12:40	CB
5	6/12/20	56.5	6:15	CB	56.3	12:25	CB
6	6/13/20	56.8	8:30	AK	56.5	1:22	AK
7	6/14/20	56.7	7:46	AK	55.8	12:25	AK
8	6/15/20	55.8	10:10	CB	55.1	12:20	CB
9	6/16/20	56.7	5:30	CB	55.9	12:30	CB
10	6/17/20	55.8	6:30	CB	55.6	1:12	CB
11	6/18/20	56.1	6:20	CB	56.7	1:26	CB
12	6/19/20	56.3	9:02	CB	56.3	1:11	CB
13	6/20/20	56.5	6:40	CB	55.8	4:26	CB
14	6/21/20	56.4	5:55	CB	55.8	12:53	CB
15	6/22/20	56.6	6:15	CB	56.4	2:20	CB
16	6/23/20	56.1	6:14	CB	56.1	1:30	CB
17	6/24/20	56.7	6:57	CB	56.7	1:20	CB
18	6/25/20	56.2	8:30	CB	56.2	2:28	CB
19	6/26/20	55.0	5:55	CB	56.1	12:53	CB
20	6/27/20	56.5	7:00	CB	56.2	1:41	CB
21	6/28/20	56.5	7:30	CB	56.8	1:30	CB
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

14.5 @ 62.7 %
 Yds Sludge
 29 Yds chips
 15 Yds Cover
 58.5 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

469 PILE MIDDLE 2

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	6/1/20	28.0	9:30	CS	29.3	12:45	RB
2	6/2/20	30.1	6:20	CS	30.1	12:55	CS
3	6/3/20	33.5	6:45	CS	39.0	1:05	CS
4	6/4/20	45.7	6:15	CS	49.8	12:15	CS
5	6/5/20	55.9	6:00	YB	56.0	12:25	YB
6	6/6/20	55.0	5:15	CS	50.0	12:05	CS
7	6/7/20	55.0	4:50	CS	56.8	12:02	CS
8	6/8/20	55.7	6:35	CS	56.8	1:20	CS
9	6/9/20	56.7	6:30	CS	56.4	1:00	YB
10	6/10/20	56.5	5:35	CS	56.4	12:45	CS
11	6/11/20	56.1	6:15	CS	55.5	12:40	CS
12	6/12/20	55.7	6:15	CS	55.8	12:25	CS
13	6/13/20	55.8	8:30	AK	56.5	1:28	AK
14	6/14/20	56.2	7:46	AK	55.9	12:25	CS
15	6/15/20	55.4	6:10	CS	56.0	12:20	CS
16	6/16/20	56.9	5:30	CS	55.8	12:30	CS
17	6/17/20	56.1	6:30	CS	55.8	1:12	RB
18	6/18/20	56.5	6:20	CS	55.1	1:22	RB
19	6/19/20	55.7	9:02	RB	55.6	1:11	RB
20	6/20/20	54.8	6:40	YB	52.2	4:16	YB
21	6/21/20	52.5	5:55	YB	51.2	12:53	YB
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

@51.3 %

14.5	Yds Sludge
29	Yds chips
15	Yds Cover
58.5	Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

468 PILE EAST 1

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	5/26/20	27.1	8:05	SK	29.3	1:10	SK
2	5/27/20	30.5	6:35	SK	38.9	12:35	SK
3	5/28/20	40.7	6:18	SK	43.7	12:40	SK
4	5/29/20	46.7	6:05	SK	49.1	1:06	BA
5	5/30/20	50.7	7:10	CP	51.0	1:15	CP
6	5/31/20	49.5	8:10	CP	51	12:30	CP
7	6/1/20	56.3	6:30	SK	58.2	12:45	RB
8	6/2/20	50.1	6:20	SK	64.3	12:50	SK
9	6/3/20	56.7	6:45	SK	56.8	1:15	SK
10	6/4/20	56.3	6:15	SK	57.0	12:15	SK
11	6/5/20	56.6	6:00	SK	55.3	12:27	SK
12	6/6/20	56.5	5:15	SK	56.3	12:00	SK
13	6/7/20	55.8	4:50	SK	56.1	12:00	SK
14	6/8/20	45.5	6:35	SK	42.1	12:20	SK
15	6/9/20	49.4	6:50	SK	54.2	1:00	SK
16	6/10/20	50.7	5:35	SK	55.7	12:45	SK
17	6/11/20	50.8	6:15	SK	56.9	12:40	SK
18	6/12/20	56.8	6:15	SK	56.7	12:35	SK
19	6/13/20	56.7	2:30	AK	56.9	11:28	AK
20	6/14/20	56.7	7:46	AK	55.5	12:35	SK
21	6/15/20	50.7	6:10	SK	56.6	12:20	SK
22		5					
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

14.5 @ 57.2%
 29 Yds Sludge
 15 Yds chips
 58.5 Yds Cover
 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

#467 PILE west #3

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	5/18/20	31.8	11:10	SK	32.3	1:10	SK
2	5/19/20	34.6	7:05	SK	35.0	1:10	SK
3	5/20/20	37.6	10:20	SK	40.1	12:50	SK
4	5/21/20	51.2	12:25	SK	53.4	12:25	SK
5	5/22/20	56.3	7:00	SK	56.5	1:07	SK
6	5/23/20	56.1	7:45	AN	56.3	1:30	AN
7	5/24/20	56.2	8:03	AN	56.9	1:05	AN
8	5/25/20	55.8	8:10	LT	56.8	12:40	LT
9	5/26/20	55.8	5:30	SK	56.1	1:10	SK
10	5/27/20	56.1	12:35	SK	55.8	12:35	SK
11	5/28/20	56.8	10:15	SK	55.9	12:40	SK
12	5/29/20	65.8	10:05	SK	56.3	1:10	SK
13	5/30/20	26.4	7:00	CP	27.6	12:00	CP
14	5/31/20	19.5	8:00	CA	51.4	12:30	CA
15	6/1/20	55.5	10:30	SK	55.1	11:45	SK
16	6/2/20	55.6	10:21	SK	55.7	12:50	SK
17	6/3/20	56.1	10:45	SK	55.4	1:05	SK
18	6/4/20	55.8	6:15	SK	55.4	12:15	SK
19	6/5/20	56.6	6:00	TD	56.0	12:25	TD
20	6/6/20	55.8	5:15	SK	55.8	12:05	SK
21	6/7/20	56.0	4:00	SK	55.7	12:00	SK
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

14.5 @ 49.5%
 29 Yds Sludge
 15 Yds chips
 58.5 Yds Cover
 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

466 PILE middle #2

Adjust
Prz

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	5/8/20	21.9	9:15	JS	23.6	1:15	JS
2	5/9/20	26.1	8:40	CP	26.6	1:05	CP
3	5/10/20	28.3	7:40	CP	30.0	1:30	AL
4	5/10/20	62.6	6:15	JS	55.1	12:35	JS
5	5/12/20	56.6	10:10	JS	55.9	1:10	JS
6	5/13/20	56.2	6:35	JS	55.1	12:15	JS
7	5/14/20	55.7	6:11	JS	56.4	12:20	JS
8	5/15/20	55.8	6:20	JS	55.8	12:25	JS
9	5/16/20	55.9	7:40	JS	56.6	2:00	JS
10	5/17/20	55.7	7:33	JS	56.2	1:00	JS
11	5/18/20	56.6	6:25	JS	56.4	1:10	JS
12	5/19/20	55.8	7:05	JS	56.0	1:10	JS
13	5/20/20	56.2	6:30	JS	55.9	12:50	JS
14	5/21/20	55.0	6:25	JS	56.3	12:30	JS
15	5/22/20	56.8	7:00	JS	55.9	1:07	JS
16	5/23/20	55.8	7:45	JS	56.7	1:30	JS
17	5/24/20	53.4	8:03	JS	56.1	1:05	JS
18	5/25/20	56.0	8:10	JS	55.8	12:40	JS
19	5/26/20	56.2	5:30	JS	55.6	1:10	JS
20	5/27/20	55.8	10:35	JS	55.2	12:35	JS
21	5/27/20	510.0	10:18	JS	55.7	12:40	JS
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

31.1%
14.5 Yds Sludge
29 Yds chips
15 Yds Cover
58.5 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

465 PILE East

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	4/28/20	30.1	8:30	SK	24.5	12:45	SK
2	4/29/20	28.1	6:35	SK	30.0	12:40	SK
3	4/30/20	32.5	6:20	MS	24.1	12:40	SK
4	5/1/20	38.4	6:25	SK	40.9	12:50	SK
5	5/2/20	47.2	6:40	RB	51.9	12:25	SK
6	5/3/20	51.6	7:30	RB	52.0	12:28	SK
7	5/4/20	52.4	6:35	SK	54.7	12:35	SK
8	5/5/20	50.4	6:50	SK	55.7	12:25	SK
9	5/6/20	50.5	6:35	SK	55.9	12:46	SK
10	5/7/20	50.3	6:15	SK	56.0	12:08	SK
11	5/8/20	57.0	6:20	SK	56.8	1:15	RB
12	5/9/20	56.4	8:39	CP2	56.2	1:03	CP2
13	5/10/20	52.8	7:40	CP2	51.5	1:30	KA
14	5/11/20	52.6	6:15	SK	54.1	12:35	SK
15	5/12/20	54.8	6:10	SK	52.8	1:16	SK
16	5/13/20	53.4	6:28	SK	50.3	12:15	SK
17	5/14/20	50.9	6:16	SK	51.4	12:20	SK
18	5/15/20	50.1	6:30	SK	51.0	12:22	SK
19	5/16/20	50.6	7:40	JC	51.6	2:00	RB
20	5/17/20	51.9	7:33	JC	52.5	1:00	RB
21	5/18/20	53.0	6:28	SK	53.7	1:05	SK
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

15	14.5%	Yds Sludge
29		Yds chips
15		Yds Cover
59		Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

464 PILE middle

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	4/14/20	18.5	10:50	SK	19.5	12:35	SK
2	4/15/20	26.4	10:55	SK	27.9	12:40	SK
3	4/16/20	35.8	6:50	SK	37.5	1:07	SK
4	4/17/20	41.0 51.7	6:55	SK	41.9	12:45	SK
5	4/18/20	50.7 AK	8:24	AK	51.5	1:30	AK
6	4/19/20	62.4	9:30	AK	58.5	2:10	AK
7	4/20/20	55.8	6:35	SK	55.0	12:40	SK
8	4/21/20	45.0	6:30	SK	55.7	12:30	SK
9	4/22/20	56.5	7:00	SK	56.0	12:25	SK
10	4/23/20	56.4	6:10	SK	56.4	12:25	SK
11	4/24/20	56.1	6:55	SK	56.4	12:30	SK
12	4/25/20	55.0	8:58	SK	54.3	12:55	CP
13	4/26/20	59.9	8:00	CP	57.6	1:00	CP
14	4/27/20	56.4	6:30	SK	56.4	12:25	SK
15	4/28/20	54.6	8:30	SK	56.2	12:45	SK
16	4/29/20	56.2	6:35	SK	56.0	12:40	SK
17	4/30/20	56.3	10:20	SK	55.9	12:40	SK
18	5/1/20	56.5	10:55	SK	54.6	12:50	SK
19	5/2/20	55.7	6:24	SK	53.4	12:25	SK
20	5/3/20	55.5	7:30	SK	54.6	12:05	SK
21	5/4/20	55.3	6:35	SK	55.5	12:35	SK
22	5/5/20	56.5	6:30	SK			
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

216% ⁵ 145%
15 Yds Sludge
29 Yds chips
15 Yds Cover
59 Total Yds

COMPOST BUILDING TEMPERATURE MONITORING

463 PILE

DAY #	DATE	AM TEMP	TIME	BY	PM TEMP	TIME	BY
1	4/6/20	8.7	10:46	SK	9.7	12:25	SK
2	4/7/20	11.8	6:46	SK	13.3	12:20	SK
3	4/8/20	16.6	7:05	SK	17.6	12:35	SK
4	4/9/20	21.7	7:05	SK	23.1	12:50	TD
5	4/10/20	30.3	7:37	AK	35.3	1:40	AK
6	4/11/20	55.0	7:30	TD	56.4	12:12	TD
7	4/12/20	55.0	7:30	TD	56.0	1:28	JC
8	4/13/20	55.1	6:30	TD	56.6	12:25	SK
9	4/14/20	56.5	7:00	SK	56.1	12:35	SK
10	4/15/20	56.7	6:35	SK	55.9	12:40	SK
11	4/16/20	56.3	6:30	SK	55.5	1:05	SK
12	4/17/20	55.1	6:35	SK	56.5	12:45	SK
13	4/18/20	55.3	8:24	AK	55.7	1:30	AK
14	4/19/20	53.8	8:41	AK	52.9	2:10	AK
15	4/20/20	55.1	6:35	SK	54.8	12:40	SK
16	4/21/20	55.7	6:30	SK	56.0	12:25	SK
17	4/22/20	54.2	7:05	SK	55.9	12:28	SK
18	4/23/20	54.5	6:30	SK	54.8	12:25	SK
19	4/24/20	55.0	6:55	SK	55.2	12:30	SK
20	4/25/20	56.1	8:57	SK	56.6	12:27	SK
21	4/26/20	55.9	8:20	SK	55.6	1:30	SK
22	4/27/20	56.1	6:30	SK			
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

IV. LAB ANALYSIS REPORTS

2020 COMPLIANCE REPORT
Standards for the Use or Disposal of Sewage Sludge
TOWN OF ONTARIO WASTEWATER TREATMENT PLANT
 REPORTING PERIOD - JANUARY 2020 - DECEMBER 2020
 Laboratory Analysis Report Summary

Analyte	LAB SAMPLE ID	Sludge Sample Results			
		2003444-001 3/5/2020	2006862-003 5/14/2020	2010516-001 7/9/2020	2014591-003 9/8/2020
	REPORT SAMPLE DATE				
	361-3.9 LIMITS (Table 3)				
PHOSPHORUS		15000	17000	20000	19000
% SOLIDS		2.3	2.5	1.8	2.1
% VOLATILES		78	79	74	75
AMMONIA (NH ₃ N)		6300	11000	25000	6200
TKN		50000	78000	69000	50000
POTASSIUM		3800	3800	5500	4000
CADMIUM	10	< 8.6	< 7.8	< 11.0	< 9.0
COPPER	1500	290	280	340	410
CHROMIUM	1000	16	18	21	19
NICKEL	200	13	20	16	15
LEAD	300	45	36	53	66
ZINC	2500	470	460	590	710
ARSENIC	41	20	22	25	26
MOLYBDENUM	40	< 8.6	9.2	11.0	12.0
SELENIUM	100	< 8.6	< 7.8	< 11.0	< 9.0
pH		6.5	7.1	7.1	5.2
MERCURY	17	< 0.86	< 0.81	< 1.10	< 0.93
NITRATE (NO ₃ N)		1400	< 200	< 280	270



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

Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS
Project: Town of Ontario
W Order: 2003444
Matrix: SLUDGE

Lab ID: 2003444-001A
Client Sample ID: *Sludge Comp*
Collection Date: 03/05/20 7:40
Date Received: 03/05/20 20:00

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	ND		0.86 mg/Kg-dry	1	03/18/20 11:01

TOTAL METALS BY ICP			SW6010C		(SW3050B)
Arsenic	20		8.6 mg/Kg-dry	1	03/13/20 17:32
Cadmium	ND		8.6 mg/Kg-dry	1	03/13/20 17:32
Chromium	16		8.6 mg/Kg-dry	1	03/13/20 17:32
Copper	290		8.6 mg/Kg-dry	1	03/13/20 17:32
Lead	45		8.6 mg/Kg-dry	1	03/13/20 17:32
Molybdenum	ND		8.6 mg/Kg-dry	1	03/13/20 17:32
Nickel	13		8.6 mg/Kg-dry	1	03/13/20 17:32
Potassium	3800		860 mg/Kg-dry	1	03/16/20 15:38
Selenium	ND		8.6 mg/Kg-dry	1	03/13/20 17:32
Zinc	470		17 mg/Kg-dry	1	03/13/20 17:32

PERCENT MOISTURE			SM 2540 G		
Percent Moisture	97.7		1.0 wt%	1	03/13/20

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

-- LABORATORY ANALYSIS REPORT --

Ontario, Town of Ontario, NY

Sample ID: Sludge Comp. **LSL Sample ID:** 2003444-003
Location: Ontario WWTP
Sampled: 03/05/20 7:40 **Sampled By:** TB
Sample Matrix: NPW

Analytical Method	Result	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	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			MT
(1) EPA 9045D Water Extractable pH					
pH	6.5	Std Units		3/20/20	HKB
pH Measurement Temperature	25	Degrees C		3/20/20	HKB
<i>This analysis is not certifiable by NYS DOH ELAP.</i>					
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia					
Ammonia as N	6300	mg/kg dry	3/28/20	3/30/20	JJC
<i>This analysis is not certifiable by NYS DOH ELAP.</i>					
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N					
Total Kjeldahl Nitrogen	50000	mg/kg dry	3/23/20	3/23/20	JJC
<i>This analysis is not certifiable by NYS DOH ELAP.</i>					
(1) Modified EPA 365.1, Rev. 2.0 (1993) Total Phosphorus					
Phosphorus, Total as P	15000	mg/kg dry	3/24/20	3/25/20	HKB
<i>This analysis is not certifiable by NYS DOH ELAP. This analysis was performed by Method EPA 365.3</i>					
(1) Modified SM 18-20 2540B Total Solids					
Total Solids @ 103-105 C	2.3	%		3/13/20	ARJ
<i>This analysis is not certifiable by NYS DOH ELAP.</i>					
(1) Nitrate-N by EPA 9056A		EPA 300.0A			
Nitrate as N	1400	mg/kg dry		4/6/20 16:34	MT
(1) Total Volatile Solids, SM18-21 2540E					
Total Volatile Solids @ 550 C	78	%		3/13/20	ARJ
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993)		EPA 300.0A			
Water Extraction				4/6/20	SB

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

Lab ID: 2010516-001A

Project: Town of Ontario

Client Sample ID: Ontario Sludge Comp.

W Order: 2010516

Collection Date: 07/09/20 13:10

Matrix: SLUDGE

Date Received: 07/09/20 19:00

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	ND		1.1 mg/Kg-dry	1	07/16/20 14:26

TOTAL METALS BY ICP			SW6010C		(SW3050B)
Arsenic	25		11 mg/Kg-dry	1	07/22/20 15:11
Cadmium	ND		11 mg/Kg-dry	1	07/22/20 15:11
Chromium	21		11 mg/Kg-dry	1	07/22/20 15:11
Copper	340		11 mg/Kg-dry	1	07/22/20 15:11
Lead	53		11 mg/Kg-dry	1	07/22/20 15:11
Molybdenum	11		11 mg/Kg-dry	1	07/22/20 15:11
Nickel	16		11 mg/Kg-dry	1	07/22/20 15:11
Potassium	5500		1100 mg/Kg-dry	1	07/23/20 13:20
Selenium	ND		11 mg/Kg-dry	1	07/22/20 15:11
Zinc	590		22 mg/Kg-dry	1	07/22/20 15:11

PERCENT MOISTURE			SM 2540 G		
Percent Moisture	98.2		1.0 wt%	1	07/15/20

- 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

-- LABORATORY ANALYSIS REPORT --

Ontario, Town of Ontario, NY

Sample ID: Ontario Sludge **LSL Sample ID:** 2010516-001

Location:

Sampled: 07/09/20 13:10 **Sampled By:** TB

Sample Matrix: SHW Dry Wt, Sludge

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			MT
(1) EPA 9045D Water Extractable pH				
pH	7.1 Std Units		7/28/20	HKB
pH Measurement Temperature	25 Degrees C		7/28/20	HKB
<i>This analysis is not certifiable by NYS DOH ELAP.</i>				
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia				
Ammonia as N	25000 mg/kg dry	7/18/20	7/20/20	JJC
<i>This analysis is not certifiable by NYS DOH ELAP.</i>				
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N				
Total Kjeldahl Nitrogen	69000 mg/kg dry	7/14/20	7/14/20	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>This analysis is not certifiable by NYS DOH ELAP.</i>				
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus				
Phosphorus, Total as P	20000 mg/kg dry	8/4/20	8/6/20	HKB
<i>This analysis is not certifiable by NYS DOH ELAP.</i>				
(1) Modified SM 18-20 2540B Total Solids				
Total Solids @ 103-105 C	1.8 %		7/15/20	ARJ
<i>This analysis is not certifiable by NYS DOH ELAP.</i>				
(1) Nitrate-N by EPA 9056A	EPA 300.0A			
Nitrate as N	<280 mg/kg dry	7/21/20	7/24/20 18:36	MT
(1) Total Volatile Solids, SM18-21 2540E				
Total Volatile Solids @ 550 C	74 %		7/15/20	ARJ
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993)	EPA 300.0A			
Water Extraction		7/21/20	7/21/20	SAB

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

-- LABORATORY ANALYSIS REPORT --

Ontario, Town of Ontario, NY

Sample ID: Ontario Sludge Comp. **LSL Sample ID:** 2014591-003

Location:

Sampled: 09/08/20 11:15 **Sampled By:** TB

Sample Matrix: SHW Dry Wt, Sludge

Analytical Method	Prep Method	Prep	Analysis	Analyst	
Analyte	Result	Units	Date	Date & Time	Initials
(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					SAB
(1) EPA 9045D Water Extractable pH					
pH	5.2	Std Units		9/24/20	HKH
pH Measurement Temperature	25	Degrees C		9/24/20	HKH
<i>This analysis is not certifiable by NYS DOH ELAP.</i>					
(1) Modified EPA 350.1, Rev. 2.0 (1993)					
Ammonia					
Ammonia as N	6200	mg/kg dry	9/26/20	9/29/20	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>This analysis is not certifiable by NYS DOH ELAP.</i>					
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N					
Total Kjeldahl Nitrogen	50000	mg/kg dry	9/21/20	9/21/20	JJC
<i>This analysis is not certifiable by NYS DOH ELAP.</i>					
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus					
Phosphorus, Total as P	19000	mg/kg dry	9/22/20	9/23/20	ARJ
<i>This analysis is not certifiable by NYS DOH ELAP.</i>					
(1) Modified SM 18-20 2540B Total Solids					
Total Solids @ 103-105 C	2.1	%		9/21/20	TER
<i>This analysis is not certifiable by NYS DOH ELAP.</i>					
(1) Nitrate-N by EPA 9056A					
Nitrate as N	270	mg/kg dry	9/18/20	9/19/20 16:30	M
(1) Total Volatile Solids, SM18-21 2540E					
Total Volatile Solids @ 550 C	75	%		9/21/20	TER
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993)					
Water Extraction				9/18/20	SAB

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 **Lab ID:** 2014591-003A
Project: Town of Ontario **Client Sample ID:** Ontario Sludge Comp.
Location: Town of Ontario
W Order: 2014591 **Collection Date:** 09/08/20 11:15
Matrix: SLUDGE **Date Received:** 09/08/20 14:15

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	ND		0.03 mg/Kg-dry	†	09/22/20 10:03

TOTAL METALS BY ICP			SW6010C		(SW3050B)
Arsenic	26		9.0 mg/Kg-dry	1	09/22/20 15:41
Cadmium	ND		9.0 mg/Kg-dry	1	09/22/20 15:41
Chromium	19		9.0 mg/Kg-dry	1	09/22/20 15:41
Copper	410		9.0 mg/Kg-dry	1	09/22/20 15:41
Lead	66		9.0 mg/Kg-dry	1	09/22/20 15:41
Molybdenum	12		9.0 mg/Kg-dry	1	09/22/20 15:41
Nickel	15		9.0 mg/Kg-dry	1	09/22/20 15:41
Potassium	4000		900 mg/Kg-dry	1	09/23/20 12:08
Selenium	ND		9.0 mg/Kg-dry	1	09/22/20 15:41
Zinc	710		18 mg/Kg-dry	1	09/22/20 15:41

PERCENT MOISTURE			SM 2540 G		
Percent Moisture	97.9		1.0 wt%	1	09/21/20

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

-- LABORATORY ANALYSIS REPORT --

Ontario, Town of Ontario, NY

Sample ID: Ontario Sludge Comp. **LSL Sample ID:** 2006862-003
Location: Ontario WWTP
Sampled: 05/14/20 11:15 **Sampled By:** TB
Sample Matrix: SHW Dry Wt, Sludge

Analytical Method			Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units				
(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	7.1	Std Units			6/1/20	HKB
pH Measurement Temperature	25	Degrees C			6/1/20	HKB
<i>This analysis is not certifiable by NYS DOH ELAP.</i>						
(1) Modified EPA 350.1, Rev. 2.0 (1993)						
Ammonia						
Ammonia as N	11000	mg/kg dry		5/30/20	6/1/20	JJC
<i>As per NELAC regulation disclosure of the following condition is required. The method blank and calibration check standard result associated with this analysis were greater than the established limit.</i>						
<i>This analysis is not certifiable by NYS DOH ELAP.</i>						
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N						
Total Kjeldahl Nitrogen						
Total Kjeldahl Nitrogen	78000	mg/kg dry		5/27/20	5/27/20	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>This analysis is not certifiable by NYS DOH ELAP.</i>						
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus						
Phosphorus, Total as P						
Phosphorus, Total as P	17000	mg/kg dry		5/29/20	6/2/20	HKB
<i>This analysis is not certifiable by NYS DOH ELAP. This analysis was performed by Method EPA 365.3</i>						
(1) Modified SM 18-20 2540B Total Solids						
Total Solids @ 103-105 C						
Total Solids @ 103-105 C	2.5	%			5/22/20	ARJ
<i>This analysis is not certifiable by NYS DOH ELAP.</i>						
(1) Nitrate-N by EPA 9056A			EPA 300.0A			
Nitrate as N						
Nitrate as N	<200	mg/kg dry		6/1/20	6/1/20 19:50	MT
(1) Total Volatile Solids, SM18-21 2540E						
Total Volatile Solids @ 550 C						
Total Volatile Solids @ 550 C	79	%			5/22/20	ARJ
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993)			EPA 300.0A			
Water Extraction						
Water Extraction					6/1/20	SAB

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

Lab ID: 2006862-003A

Project: Town of Ontario

Client Sample ID: Ontario Sludge Comp.

Location: Ontario WWTP

Collection Date: 05/14/20 11:15

W Order: 2006862

Date Received: 05/14/20 18:31

Matrix: SLUDGE

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	ND		0.81 mg/Kg-dry	1	05/27/20 15:12

TOTAL METALS BY ICP			SW6010C		(SW3050B)
Arsenic	22		7.8 mg/Kg-dry	1	06/03/20 14:50
Cadmium	ND		7.8 mg/Kg-dry	1	06/03/20 14:50
Chromium	18		7.8 mg/Kg-dry	1	06/03/20 14:50
Copper	280		7.8 mg/Kg-dry	1	06/03/20 14:50
Lead	36		7.8 mg/Kg-dry	1	06/03/20 14:50
Molybdenum	9.2		7.8 mg/Kg-dry	1	06/03/20 14:50
Nickel	20		7.8 mg/Kg-dry	1	06/03/20 14:50
Potassium	3800		780 mg/Kg-dry	1	06/04/20 11:47
Potassium	3800		780 mg/Kg-dry	1	06/04/20 11:47
Selenium	ND		7.8 mg/Kg-dry	1	06/03/20 14:50
Zinc	460		16 mg/Kg-dry	1	06/03/20 14:50

PERCENT MOISTURE			SM 2540 G		
Percent Moisture	97.5		1.0 wt%	1	05/22/20

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

2020 COMPLIANCE REPORT
Standards for the Use or Disposal of Sewage Sludge
TOWN OF ONTARIO WASTEWATER TREATMENT PLANT
 REPORTING PERIOD - JANUARY 2020 - DECEMBER 2020
 Laboratory Analysis Report Summary

		Compost Sample Results					
LAB SAMPLE ID	REPORT SAMPLE DATE	2007730-001	2010515-003	2012385-003	2014591-002	2016740-003	2018003-002
		6/2/2020	7/8/2020	8/5/2020	9/8/2020	10/7/2020	11/7/2020
Analyte							
	361-3.9 LIMITS (Table 3)						
% VOLATILES		74	70	68	69	62	40
ARSENIC	41	16	17	18	19	17	15
CADMIUM	10	< 1.8	< 1.5	<	< 1.7	< 1.4	< 1.7
CHROMIUM	1000	30	28	28	29	30	26
COPPER	1500	430	390	450	430	420	400
LEAD	300	76	87	92	80	83	50
MOLYBDENUM	40	6.0	7.4	9.2	7.8	8.1	7.8
NICKEL	200	18	17	19	18	18	17
SELENIUM	100	4.7	6.2	6.4	6.2	6.2	5.9
ZINC	2500	620	600	630	620	630	580
POTASSIUM		4500	3900	4000	3300	3600	2700
pH		7.0	7.8	7.5	7.6	7.6	7.5
MERCURY	10	0.46	0.54	1.10	0.65	0.48	0.45
PHOSPHORUS		16000	17000	9600	24000	4200	22000
% SOLIDS		57	66	65	59	70	60
AMMONIA (NH ₃ N)		6600	8400	9000	9000	9900	9900
TKN		31000	37000	31000	32000	43000	32000
NITRATE (NO ₃ N)		380	190	320	210	350	360



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

Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS
Project: Town of Ontario
W Order: 2007730
Matrix: COMPOST

Lab ID: 2007730-001A
Client Sample ID: Ontario Compost

Collection Date: 06/02/20 10:55
Date Received: 06/02/20 13:53

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	0.46		0.18 mg/Kg-dry	1	06/08/20 14:01

TOTAL METALS BY ICP

SW6010C (SW3050B)

Arsenic	16		1.8 mg/Kg-dry	1	06/09/20 17:54
Cadmium	ND		1.8 mg/Kg-dry	1	06/09/20 17:54
Chromium	30		1.8 mg/Kg-dry	1	06/09/20 17:54
Copper	430		1.8 mg/Kg-dry	1	06/09/20 17:54
Lead	76		1.8 mg/Kg-dry	1	06/09/20 17:54
Molybdenum	6.0		1.8 mg/Kg-dry	1	06/09/20 17:54
Nickel	18		1.8 mg/Kg-dry	1	06/09/20 17:54
Potassium	4500		180 mg/Kg-dry	1	06/11/20 16:02
Selenium	4.7		1.8 mg/Kg-dry	1	06/09/20 17:54
Zinc	620		3.5 mg/Kg-dry	1	06/09/20 17:54

PERCENT MOISTURE

SM 2540 G

Percent Moisture	43.2		1.0 wt%	1	06/05/20
------------------	------	--	---------	---	----------

- 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

-- LABORATORY ANALYSIS REPORT --

Ontario, Town of Ontario, NY

Sample ID: Ontario Compost **LSL Sample ID:** 2007730-001
Location:
Sampled: 06/02/20 10:50 **Sampled By:** TB
Sample Matrix: SHW Dry Wt, Compost

Analytical Method Analyte	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 160.4 Total Volatile Solids Total Volatile Solids @ 550 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	74	%			6/5/20	ARJ
(1) EPA 1682(2014) Salmonella by MSRV Salmonella <i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>	<3	MPN/4g Dry			6/2/20 15:20	DA/DA
(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 pH Measurement Temperature <i>This analysis is not certifiable by NYS DOH ELAP.</i>	7.0	Std Units			6/9/20	HKB
	25	Degrees C			6/9/20	HKB
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia Ammonia as N <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>This analysis is not certifiable by NYS DOH ELAP.</i>	6600	mg/kg dry		6/9/20	6/10/20	JJC
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N Total Kjeldahl Nitrogen <i>This analysis is not certifiable by NYS DOH ELAP.</i>	31000	mg/kg dry		6/5/20	6/5/20	JJC
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus Phosphorus, Total as P <i>This analysis is not certifiable by NYS DOH ELAP.</i>	16000	mg/kg dry		6/11/20	6/12/20	HKB
(1) Modified SM 18-20 2540B Total Solids Total Solids @ 103-105 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	57	%			6/5/20	ARJ
(1) Nitrate-N by EPA Method 9056A Nitrate as N	380	mg/kg dry	EPA 300.0A	6/12/20	6/14/20 11:30	MT
(1) SM 2540 G-97,-11 Total Solids Total Solids @ 103-105 C	57	%			6/5/20	ARJ
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993) Water Extraction			EPA 300.0A	6/12/20	6/14/20	MT

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

-- LABORATORY ANALYSIS REPORT --

Ontario, Town of Ontario, NY

Sample ID: Ontario Compost Comp. **LSL Sample ID:** 2010515-003

Location:

Sampled: 07/08/20 10:45 **Sampled By:** TB

Sample Matrix: SHW Dry Wt, Compost

Analytical Method	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result Units			
(I) EPA 160.4 Total Volatile Solids				
Total Volatile Solids @ 550 C	70 %		7/15/20	ARJ
<i>This analysis is not certifiable by NYS DOH ELAP.</i>				
(I) EPA 6010C Metals		EPA 3050B		
Please refer to the next page				MT
(I) EPA 7471B Metals		EPA 7471B		
Please refer to the next page				MT
(I) EPA 9045D Water Extractable pH				
pH	7.8 Std Units		7/28/20	HKB
pH Measurement Temperature	25 Degrees C		7/28/20	HKB
<i>This analysis is not certifiable by NYS DOH ELAP.</i>				
(I) Modified EPA 350.1, Rev. 2.0 (1993)				
Ammonia				
Ammonia as N	8400 mg/kg dry		7/18/20 7/20/20	JJC
<i>This analysis is not certifiable by NYS DOH ELAP.</i>				
(I) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N				
Total Kjeldahl Nitrogen	37000 mg/kg dry		7/14/20 7/14/20	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>This analysis is not certifiable by NYS DOH ELAP.</i>				
(I) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus				
Phosphorus, Total as P	17000 mg/kg dry		8/4/20 8/6/20	HKB
<i>This analysis is not certifiable by NYS DOH ELAP.</i>				
(I) Modified SM 18-20 2540B Total Solids				
Total Solids @ 103-105 C	66 %		7/15/20	ARJ
<i>This analysis is not certifiable by NYS DOH ELAP.</i>				
(I) Nitrate-N by EPA Method 9056A		EPA 300.0A		
Nitrate as N	190 mg/kg dry		7/21/20 7/24/20 18:07	MT
(I) SM 2540 G-97,-11 Total Solids				
Total Solids @ 103-105 C	66 %		7/15/20	ARJ
(I) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993)		EPA 300.0A		
Water Extraction			7/21/20 7/21/20	SAB

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: Town of Ontario
W Order: 2010515
Matrix: COMPOST

Lab ID: 2010515-003A
Client Sample ID: Ontario Compost Comp.
Collection Date: 07/08/20 10:45
Date Received: 07/09/20 19:00

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	0.54		0.15 mg/Kg-dry	1	07/16/20 14:24

TOTAL METALS BY ICP		SW6010C	(SW3050B)
Arsenic	17	1.5 mg/Kg-dry	1 07/22/20 15:07
Cadmium	ND	1.5 mg/Kg-dry	1 07/22/20 15:07
Chromium	28	1.5 mg/Kg-dry	1 07/22/20 15:07
Copper	390	1.5 mg/Kg-dry	1 07/22/20 15:07
Lead	87	1.5 mg/Kg-dry	1 07/22/20 15:07
Molybdenum	7.4	1.5 mg/Kg-dry	1 07/22/20 15:07
Nickel	17	1.5 mg/Kg-dry	1 07/22/20 15:07
Potassium	3900	150 mg/Kg-dry	1 07/23/20 13:16
Selenium	6.2	1.5 mg/Kg-dry	1 07/22/20 15:07
Zinc	600	3.0 mg/Kg-dry	1 07/22/20 15:07

PERCENT MOISTURE		SM 2540 G
Percent Moisture	34.0	1.0 wt% 1 07/15/20

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.

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS

Project: Town of Ontario

Location: Compost

W Order: 2012385

Matrix: COMPOST

Lab ID: 2012385-003A

Client Sample ID: Ontario Compost Comp

Collection Date: 08/05/20 11:00

Date Received: 08/06/20 19:00

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	1.1		0.15 mg/Kg-dry	1	08/21/20 14:34

TOTAL METALS BY ICP		SW6010C	(SW3050B)
Arsenic	18	1.5 mg/Kg-dry	1 08/31/20 13:50
Cadmium	ND	1.5 mg/Kg-dry	1 08/31/20 13:50
Chromium	28	1.5 mg/Kg-dry	1 08/31/20 13:50
Copper	450	1.5 mg/Kg-dry	1 08/31/20 13:50
Lead	92	1.5 mg/Kg-dry	1 08/31/20 13:50
Molybdenum	9.2	1.5 mg/Kg-dry	1 08/31/20 13:50
Nickel	19	1.5 mg/Kg-dry	1 08/31/20 13:50
Potassium	4000	150 mg/Kg-dry	1 08/31/20 13:50
Selenium	6.4	1.5 mg/Kg-dry	1 08/31/20 13:50
Zinc	630	3.1 mg/Kg-dry	1 08/31/20 13:50

PERCENT MOISTURE		SM 2540 G
Percent Moisture	34.6	1.0 wt% 1 08/27/20

- 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

-- LABORATORY ANALYSIS REPORT --

Ontario, Town of Ontario, NY

Sample ID: Ontario Compost Comp **LSL Sample ID:** 2012385-003
Location:
Sampled: 08/05/20 11:00 **Sampled By:** TB
Sample Matrix: SHW Dry Wt, Compost

Analytical Method	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result Units			
(1) EPA 160.4 Total Volatile Solids Total Volatile Solids @ 550 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	68 %		8/27/20	ARJ
(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 pH Measurement Temperature <i>This analysis is not certifiable by NYS DOH ELAP.</i>	7.5 Std Units 25 Degrees C		8/21/20 8/21/20	HKB HKB
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia Ammonia as N <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>This analysis is not certifiable by NYS DOH ELAP.</i>	9000 mg/kg dry	8/22/20	8/24/20	JJC
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N Total Kjeldahl Nitrogen <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>This analysis is not certifiable by NYS DOH ELAP.</i>	31000 mg/kg dry	8/21/20	8/21/20	JJC
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus Phosphorus, Total as P <i>This analysis is not certifiable by NYS DOH ELAP.</i>	9600 mg/kg dry	8/25/20	8/26/20	JJC
(1) Modified SM 18-20 2540B Total Solids Total Solids @ 103-105 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	65 %		8/27/20	ARJ
(1) Nitrate-N by EPA Method 9056A Nitrate as N	EPA 300.0A 320 mg/kg dry	8/31/20	8/31/20 14:37	MT
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993) Water Extraction	EPA 300.0A		8/19/20	SAB

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

-- LABORATORY ANALYSIS REPORT --

Ontario, Town of Ontario, NY

Sample ID: Ontario Compost Comp. **LSL Sample ID:** 2014591-002

Location:

Sampled: 09/08/20 11:10 **Sampled By:** TB

Sample Matrix: SHW Dry Wt, Compost

Analytical Method	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result Units			
(1) EPA 160.4 Total Volatile Solids Total Volatile Solids @ 550 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	69 %		9/21/20	TER
(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		SAB
(1) EPA 9045D Water Extractable pH pH pH Measurement Temperature <i>This analysis is not certifiable by NYS DOH ELAP.</i>	7.6 Std Units 25 Degrees C		9/24/20 9/24/20	HKB HKB
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia Ammonia as N <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>This analysis is not certifiable by NYS DOH ELAP.</i>	9000 mg/kg dry		9/26/20 9/29/20	JJC
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N Total Kjeldahl Nitrogen <i>This analysis is not certifiable by NYS DOH ELAP.</i>	32000 mg/kg dry		9/21/20 9/21/20	JJC
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus Phosphorus, Total as P <i>This analysis is not certifiable by NYS DOH ELAP.</i>	24000 mg/kg dry		9/22/20 9/23/20	ARJ
(1) Modified SM 18-20 2540B Total Solids Total Solids @ 103-105 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	59 %		9/21/20	TER
(1) Nitrate-N by EPA Method 9056A Nitrate as N	210 mg/kg dry	EPA 300.0A	9/18/20 9/19/20 16:01	M
(1) SM 2540 G-97,-11 Total Solids Total Solids @ 103-105 C	59 %		9/21/20	TER
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993) Water Extraction		EPA 300.0A	9/18/20	SAB

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

Lab ID: 2014591-002A

Project: Town of Ontario

Client Sample ID: Ontario Compost Comp.

Location: Town of Ontario

W Order: 2014591

Collection Date: 09/08/20 11:10

Matrix: COMPOST

Date Received: 09/08/20 14:15

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	0.65		0.17 mg/Kg-dry	1	09/22/20 10:01

TOTAL METALS BY ICP		SW6010C	(SW3050B)
Arsenic	19	1.7 mg/Kg-dry	1 09/22/20 15:36
Cadmium	ND	1.7 mg/Kg-dry	1 09/22/20 15:36
Chromium	29	1.7 mg/Kg-dry	1 09/22/20 15:36
Copper	430	1.7 mg/Kg-dry	1 09/22/20 15:36
Lead	80	1.7 mg/Kg-dry	1 09/22/20 15:36
Molybdenum	7.8	1.7 mg/Kg-dry	1 09/22/20 15:36
Nickel	18	1.7 mg/Kg-dry	1 09/22/20 15:36
Potassium	3300	170 mg/Kg-dry	1 09/23/20 11:30
Selenium	6.2	1.7 mg/Kg-dry	1 09/22/20 15:36
Zinc	620	3.4 mg/Kg-dry	1 09/22/20 15:36

PERCENT MOISTURE		SM 2540 G
Percent Moisture	41.3	1.0 wt% 1 09/21/20

- 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

-- LABORATORY ANALYSIS REPORT --

Ontario, Town of Ontario, NY

Sample ID: Ontario Compost Comp. **LSL Sample ID:** 2016740-003

Location:

Sampled: 10/07/20 10:20 **Sampled By:** TB

Sample Matrix: SHW Dry Wt, Compost

Analytical Method	Result	Units	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 160.4 Total Volatile Solids Total Volatile Solids @ 550 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	62	%			10/22/20	TER
(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			SAB
(1) EPA 9045D Water Extractable pH pH pH Measurement Temperature <i>This analysis is not certifiable by NYS DOH ELAP.</i>	7.6	Std Units			10/26/20	HKB
	25	Degrees C			10/26/20	HKB
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia Ammonia as N <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>This analysis is not certifiable by NYS DOH ELAP.</i>	9900	mg/kg dry		10/24/20	10/26/20	JJC
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N Total Kjeldahl Nitrogen <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>This analysis is not certifiable by NYS DOH ELAP.</i>	43000	mg/kg dry		10/26/20	10/26/20	JJC
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus Phosphorus, Total as P <i>This analysis is not certifiable by NYS DOH ELAP.</i>	4200	mg/kg dry		10/26/20	10/27/20	HKB
(1) Modified SM 18-20 2540B Total Solids Total Solids @ 103-105 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	70	%			10/22/20	TER
(1) Nitrate-N by EPA Method 9056A Nitrate as N	350	mg/kg dry	EPA 300.0A	10/28/20	10/29/20 16:49	MT
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993) Water Extraction			EPA 300.0A		10/28/20	SAB

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

Lab ID: 2016740-003A

Project: Town of Ontario

Client Sample ID: Ontario Compost Comp.

Location: Ontario WWTP

Collection Date: 10/07/20 10:20

W Order: 2016740

Date Received: 10/08/20 17:31

Matrix: COMPOST

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	0.48		0.14 mg/Kg-dry	1	10/27/20 10:21

TOTAL METALS BY ICP

SW6010C

(SW3050B)

Arsenic	17		1.4 mg/Kg-dry	1	10/16/20 16:47
Cadmium	ND		1.4 mg/Kg-dry	1	10/16/20 16:47
Chromium	30		1.4 mg/Kg-dry	1	10/16/20 16:47
Copper	420		1.4 mg/Kg-dry	1	10/16/20 16:47
Lead	83		1.4 mg/Kg-dry	1	10/16/20 16:47
Molybdenum	8.1		1.4 mg/Kg-dry	1	10/16/20 16:47
Nickel	18		1.4 mg/Kg-dry	1	10/16/20 16:47
Potassium	3600		140 mg/Kg-dry	1	10/29/20 16:39
Selenium	6.2		1.4 mg/Kg-dry	1	10/16/20 16:47
Zinc	630		2.9 mg/Kg-dry	1	10/16/20 16:47

PERCENT MOISTURE

SM 2540 G

Percent Moisture	30.1		1.0 wt%	1	10/22/20
------------------	------	--	---------	---	----------

- 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

-- LABORATORY ANALYSIS REPORT --

Ontario, Town of Ontario, NY

Sample ID: Ontario Compost Comp. LSL Sample ID: 2018003-002
 Location:
 Sampled: 11/02/20 11:10 Sampled By: TB
 Sample Matrix: SHW Dry Wt, Compost

Analytical Method	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result Units			
(1) EPA 160.4 Total Volatile Solids Total Volatile Solids @ 550 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	40 %		11/10/20	TER
(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 pH Measurement Temperature <i>This analysis is not certifiable by NYS DOH ELAP.</i>	7.5 Std Units 25 Degrees C		11/18/20 11/18/20	HKB HKB
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia Ammonia as N <i>This analysis is not certifiable by NYS DOH ELAP.</i>	9900 mg/kg dry		11/14/20 11/16/20	JJC
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N Total Kjeldahl Nitrogen <i>This result should be considered an estimate because the concentration exceeded the linear range of the instrument. This analysis is not certifiable by NYS DOH ELAP.</i>	32000 mg/kg dry		11/12/20 11/16/20	JJC
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus Phosphorus, Total as P <i>This analysis is not certifiable by NYS DOH ELAP.</i>	22000 mg/kg dry		11/17/20 11/19/20	ARJ
(1) Modified SM 18-20 2540B Total Solids Total Solids @ 103-105 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	60 %		11/10/20	TER
(1) Nitrate-N by EPA Method 9056A Nitrate as N	360 mg/kg dry	EPA 300.0A	11/21/20 11/21/20 16:00	MT
(1) SM 2540 G-97,-11 Total Solids Total Solids @ 103-105 C	60 %		11/10/20	TER
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993) Water Extraction		EPA 300.0A	11/21/20 11/21/20	MT

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

**Life Science Laboratories, Inc.**

5854 Butternut Drive

East Syracuse, NY 13057

(315) 445-1900

Analytical Results

StateCertNo: 10248

CLIENT: Life Science Labs-LIMS**Project:** Town of Ontario**Location:** Compost**W Order:** 2018003**Matrix:** COMPOST**Lab ID:** 2018003-002A**Client Sample ID:** Ontario Compost Comp.**Collection Date:** 11/02/20 11:10**Date Received:** 11/02/20 13:50

Analyte	Result	Qual	PQL Units	DF	Date Analyzed
MERCURY			SW7471B		(SW7471B)
Mercury	0.45		0.17 mg/Kg-dry	1	11/30/20 16:37

TOTAL METALS BY ICP

		SW6010C		(SW3050B)
Arsenic	15	1.7 mg/Kg-dry	1	12/03/20 20:28
Cadmium	ND	1.7 mg/Kg-dry	1	12/03/20 20:28
Chromium	26	1.7 mg/Kg-dry	1	12/03/20 20:28
Copper	400	1.7 mg/Kg-dry	1	12/03/20 20:28
Lead	50	1.7 mg/Kg-dry	1	12/03/20 20:28
Molybdenum	7.8	1.7 mg/Kg-dry	1	12/03/20 20:28
Nickel	17	1.7 mg/Kg-dry	1	12/03/20 20:28
Potassium	2700	170 mg/Kg-dry	1	12/04/20 14:29
Selenium	5.9	1.7 mg/Kg-dry	1	12/03/20 20:28
Zinc	580	3.3 mg/Kg-dry	1	12/03/20 20:28

PERCENT MOISTURE

		SM 2540 G		
Percent Moisture	40.2	1.0 wt%	1	11/10/20

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

2020 COMPLIANCE REPORT
Standards for the Use or Disposal of Sewage Sludge
TOWN OF ONTARIO WASTEWATER TREATMENT PLANT
 REPORTING PERIOD - JANUARY 2020 - DECEMBER 2020
 Laboratory Analysis Report Summary

Compost Sample Results - Prior to Public Distribution				
Analyte	Lab Sample ID	Date	Result	Most Probable Number (MPN/4g) ¹
Salmonella	2007730-001	6/2/2020	< 3	3
	2010775-001	7/14/2020	< 3	3
	2011889-001	8/3/2020	< 3	3
	2014591-001	9/8/2020	< 3	3
	2016791-001	10/12/2020	< 3	3
	2018003-001	11/2/2020	< 3	3

¹At the time sewage sludge is prepared for sale or given away in a bag or other container for application to the land the density of Salmonella must be less than three Most Probable Number (MPN) per four grams of total solids (dry weight basis) or 3 MPN/4g.

-- LABORATORY ANALYSIS REPORT --

Ontario, Town of Ontario, NY

Sample ID: Ontario Compost Comp. **LSL Sample ID:** 2018003-001

Location:

Sampled: 11/02/20 11:05 **Sampled By:** TB

Sample Matrix: SHW Dry Wt, Compost

Analytical Method	Result	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte		Units			
(1) EPA 1682(2014) Salmonella by MSRV					
Salmonella	<3	MPN/4g Dry		11/2/20 15:35	DA/DA
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>					
(1) SM 2540 G-97,-11 Total Solids					
Total Solids @ 103-105 C	60	%		11/10/20	TER

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

-- LABORATORY ANALYSIS REPORT --

Ontario, Town of Ontario, NY

Sample ID: Ontario Compost Comp. **LSL Sample ID:** 2014591-001

Location:

Sampled: 09/08/20 11:00 **Sampled By:** TB

Sample Matrix: SHW Dry Wt, Compost

Analytical Method	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result Units			
(1) EPA 1682(2014) Salmonella by MSRV				
Salmonella	<3 MPN/4g Dry		9/8/20 16:05	DA/DA
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) SM 2540 G-97,-11 Total Solids				
Total Solids @ 103-105 C	58 %		9/15/20	TER

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

REVISED
KC 08/10/20

-- LABORATORY ANALYSIS REPORT --

Ontario, Town of Ontario, NY

Sample ID: Ontario Compost LSL Sample ID: 2010775-001
Location: Town of Ontario
Sampled: 07/14/20 11:00 Sampled By: TB
Sample Matrix: SHW Dry Wt, Compost

Analytical Method	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result Units			
(1) EPA 1682(2014) Salmonella by MSRV				
Salmonella	<3 MPN/4g Dry	7/14/20	16:25	DA/DA
<i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>				
(1) SM 2540 G-97,-11 Total Solids				
Total Solids @ 103-105 C	65 %	7/15/20		ARJ

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

-- LABORATORY ANALYSIS REPORT --

Ontario, Town of Ontario, NY

Sample ID: Ontario Compost **LSL Sample ID:** 2007730-001
Location:
Sampled: 06/02/20 10:50 **Sampled By:** TB
Sample Matrix: SHW Dry Wt, Compost

Analytical Method Analyte	Result	Prep Method Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 160.4 Total Volatile Solids Total Volatile Solids @ 550 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	74	%		6/5/20	ARJ
(1) EPA 1682(2014) Salmonella by MSRV Salmonella <i>The NYS DOH ELAP does not offer certification for this method in this matrix.</i>	<3	MPN/4g Dry		6/2/20 15:20	DA/DA
(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 pH Measurement Temperature <i>This analysis is not certifiable by NYS DOH ELAP.</i>	7.0	Std Units		6/9/20	HKB
	25	Degrees C		6/9/20	HKB
(1) Modified EPA 350.1, Rev. 2.0 (1993) Ammonia Ammonia as N <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>This analysis is not certifiable by NYS DOH ELAP.</i>	6600	mg/kg dry	6/9/20	6/10/20	JJC
(1) Modified EPA 351.2, Rev. 2.0 (1993)TKN as N Total Kjeldahl Nitrogen <i>This analysis is not certifiable by NYS DOH ELAP.</i>	31000	mg/kg dry	6/5/20	6/5/20	JJC
(1) Modified EPA 365.3, Rev. 2.0 (1993) Total Phosphorus Phosphorus, Total as P <i>This analysis is not certifiable by NYS DOH ELAP.</i>	16000	mg/kg dry	6/11/20	6/12/20	HKB
(1) Modified SM 18-20 2540B Total Solids Total Solids @ 103-105 C <i>This analysis is not certifiable by NYS DOH ELAP.</i>	57	%		6/5/20	ARJ
(1) Nitrate-N by EPA Method 9056A Nitrate as N	380	mg/kg dry	EPA 300.0A	6/12/20 6/14/20 11:30	MT
(1) SM 2540 G-97,-11 Total Solids Total Solids @ 103-105 C	57	%		6/5/20	ARJ
(1) Water Extraction of Solids, EPA 300.0, Rev. 2.1 (1993) Water Extraction			EPA 300.0A	6/12/20 6/14/20	MT

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