

**VILLAGE OF ARCADE**

**WASTEWATER TREATMENT PLANT**

**BIOSOLIDS COMPOSTING FACILITY ANNUAL REPORT**

**2020**

**DEC FACILITY CODE 61C03**

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

**2020**  
**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, 2020 to December 31, 2020

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

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 Arcade Composting Facility

PERMIT NUMBER: NY0026948

SW FACILITY ACTIVITY NUMBER: (Ex. 02PP0099) 61C03

COUNTY WHERE FACILITY IS LOCATED: Wyoming

**DEC USE ONLY**

Region:            SWIMS:

                              MATRIX:

Date Reviewed:

Reviewed By:

Data Entered:

**PERMITTED BIOSOLIDS COMPOSTING FACILITY ANNUAL REPORT  
SECTION 1 – FACILITY INFORMATION**

**FACILITY INFORMATION**

**FACILITY NAME:**

**Village of Arcade Composting Facility**

**FACILITY LOCATION ADDRESS:**

**7589 Hurdville Rd**

**FACILITY CITY:**

**Arcade**

**STATE:**

**NY**

**ZIP CODE:**

**14009**

**FACILITY TOWN:**

**Arcade**

**FACILITY COUNTY:**

**Wyoming**

**FACILITY PHONE NUMBER:**

**585-492-1111**

**NYSDEC  
REGION #: 9**

**FACILITY CONTACT:**

**Don Knight, Chief Operator**

**CONTACT PHONE NUMBER:**

**585-492-1111, ext 125**

**CONTACT EMAIL ADDRESS:**

**donknight@villageofarcade.org**

**OWNER INFORMATION**

**OWNER NAME:**

**Village of Arcade**

**OWNER PHONE NUMBER:**

**585-492-1111**

**OWNER ADDRESS:**

**17 Church St**

**OWNER CITY:**

**Arcade**

**STATE:**

**NY**

**ZIP CODE:**

**14009**

**OWNER CONTACT:**

**Larry Kilburn**

**OWNER CONTACT EMAIL ADDRESS:**

**larrykilburn@villageofarcade.org**

**OPERATOR INFORMATION**

**OPERATOR NAME:**

Same as owner

**Donald Knight, Chief Operator**

**PREFERENCES**

**Preferred address to receive correspondence:**  Facility location address

Owner address

Other (provide):

**Preferred email address:**  Facility Contact

Owner Contact

Other (provide):

**Preferred individual to receive correspondence:**  Facility Contact

Owner

Owner Contact

Other (provide):

**Did you operate in 2020?**  Yes; Complete this form.

No; Complete and submit Sections 1 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

Compost Input	Quantity	Unit	% Solids	Source
Biosolids (Sewage Sludge)	505 Used 802	Cubic Yards <input type="text" value="Cubic yards"/>	21	WWTP
Bulking Agent/Amendment Specify: <u>Wood Chips</u>	1010 Used Cubic Yards /891 Cubic Yards	Cubic Yards <input type="text" value="Cubic Yards"/>	50	Tree Trimming
Other: <u>Biosolids-Landfill</u>	351	Cubic Yards <input type="text" value="Cubic Yards"/>	21	WWTP

## SECTION 3 – COMPOST PRODUCTION

<b>WHAT IS THE PROCESS DETENTION TIME?</b> <i>Note: Total time material is processed, not including storage time</i>	51	days
<b>COMPOST PRODUCED DURING THE YEAR:</b>	262	Cubic Yards <input type="text" value="Cubic Yards"/>
<b>COMPOST DISTRIBUTED DURING THE YEAR:</b>	$445 + 105 = 550$ (2018) (2019) (2020)	Cubic Yards <input type="text" value="Cubic Yards"/>
<b>QUANTITY CURRENTLY STOCKPILED:</b> <i>Note: Finished product stockpiled</i>	157	Cubic Yards <input type="text" value="Cubic Yards"/>
<b>AGE OF OLDEST PRODUCT ON SITE:</b>	4	months

**SECTION 4 – COMPOST DISTRIBUTION**

Quantity Distributed Cubic Yards	Use of Compost (landscaping, agriculture, highway, onsite, bagged, etc.)
550	Landscaping for flowers, trees
	by general public

## 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 =====>	3/11/20	6/10/20	9/9/20	12/9/20	Permit Pre 2017 Regs.  Monthly Conc. (mg/kg)	Permit Post 2017 Regs.  Max. Conc. (mg/kg)
Arsenic (mg/kg)	6.4	4.7	3.8	5.0U	41	41
Cadmium (mg/kg)	2.2	2.4	2.0	2.6	21	10
Chromium (mg/kg)	<b>29.7</b>	<b>32.3</b>	<b>30.0</b>	<b>39.3</b>	1,000	1,000
Copper (mg/kg)	582	877	706	845	1,500	1,500
Lead (mg/kg)	31	44	32	43	300	300
Mercury (mg/kg)	0.82	1.17	0.739	0.94	10	10
Molybdenum (mg/kg)	11	17	16.8	15	40	40
Nickel (mg/kg)	17U	17U	12	20U	200	200
Selenium (mg/kg)	4.3U	4.3U	8.9	5.0U	100	100
Zinc (mg/kg)	904	1440	1810	1480	2,500	2,500
TKN (mg/kg)	41700	47400	41200	56300		
Ammonia Nitrogen (mg/kg)	430	2050	2160	33		
Nitrate (mg/kg)	47U	43U	2510	228		
Total Phosphorus (mg/kg)	9190	11300	11400	13800		
Total Potassium (mg/kg)	<b>2510</b>	<b>3850</b>	<b>1670</b>	<b>2990</b>		
pH (s.u.)	6.68	7.41	5.80	6.09		
Total Solids( %)	<b>21.3</b>	<b>23.0</b>	<b>38.1</b>	<b>19.7</b>		
Total Volatile Solids (%)	<b>56.8</b>	<b>61.9</b>	<b>56.9</b>	<b>64.1</b>		

## 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)

#### **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 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.

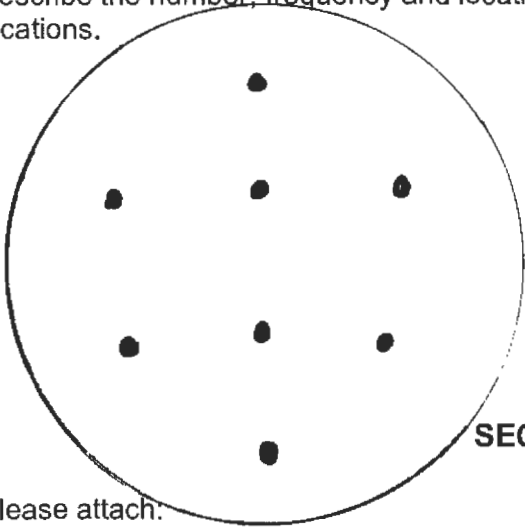
**Summarize data in table below or attached document. Print additional pages as needed.**

Analysis Date ==>	3/11/20	6/10/20	9/9/20	12/9/20	Permit Pre 2017 Regs.  Monthly Conc. (mg/kg)	Permit Post 2017 Regs.  Max. Conc. (mg/kg)
	Arsenic (mg/kg)	5.4	5.2	2.3	4.3	41
Cadmium (mg/kg)	3.29	3.4	1.5	3.4	10	10
Chromium (mg/kg)	42.7	42.5	21.8	44.9	1,000	1,000
Copper (mg/kg)	716	1010	447	924	1,500	1,500
Lead (mg/kg)	50.5	55	24.3	51	300	300
Mercury (mg/kg)	<b>0.969</b>	<b>1.10</b>	<b>1.08</b>	<b>1.02</b>	10	10
Molybdenum (mg/kg)	20.4	26.8	8.7	20.9	40	40
Nickel (mg/kg)	16.9	16.7	10.4	20.1	200	200
Selenium (mg/kg)	6.8	8.7	4.7	7.3	100	100
Zinc (mg/kg)	1210	1620	736	1600	2,500	2,500
TKN (mg/kg)	29200	25100	29300	32200		
Ammonia Nitrogen (mg/kg)	2610	1830	4980	4720		
Nitrate (mg/kg)	3220	3080	1100	1610		
Total Phosphorus (mg/kg)	16000	16300	15200	19300		
Total Potassium (mg/kg)	4250	4180	1980	4190		
pH (s.u.)	5.27	5.13	6.51	5.82		
Total Solids ( %)	51.8	49.3	50.9	46.9		
Total Volatile Solids (%)	59.1	58.9	55.1	55.5		
Fecal Coliform (MPN/g)	N/A	<1	<1	N/A	<1,000 MPN/g	
Salmonella sp. (MPN/4g)	N/A	<1	<1	<1	<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 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.

Pile #2020-4 would not come up to temperature. On 6/23/20, I stopped taking temperature and took the compost pile off the aerated tube. I re-ran it thru the mixer and re-piled it on the aerator tube. Started temperature readings again on 7/3/20.

## **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**

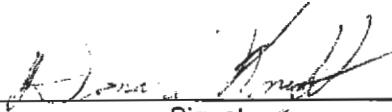
**Email address: organicrecycling@dec.ny.gov**

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.

  
\_\_\_\_\_  
Signature

2/25/2021  
\_\_\_\_\_

Date

Donald Knight  
\_\_\_\_\_

Name (Print)

Chief Operator  
\_\_\_\_\_

Title (Print)

donknight@villageofarcade.org  
\_\_\_\_\_

Email (Print)

17 Church St  
\_\_\_\_\_

Address

Arcade  
\_\_\_\_\_

City

New York 14009  
\_\_\_\_\_

State and Zip

585 492 1111  
\_\_\_\_\_-\_\_\_\_\_  
( )

Phone Number

ATTACHMENTS:  NO  YES (IF YES, LIST ATTACHMENTS)

- Sample Analyses & Laboratory Reports  
\_\_\_\_\_
- Operating and Monitor Data  
\_\_\_\_\_
- \_\_\_\_\_

Analysis Date 3/11/20

**Village of Arcade Composting Facility**

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Test Assured Network  
**Project:** Village of Arcade WWTP  
**Sample Matrix:** Sludge, Solid  
**Sample Name:** Sludge  
**Lab Code:** R2002159-003

**Service Request:** R2002159  
**Date Collected:** 03/11/20 07:15  
**Date Received:** 03/11/20 18:10

**Basis:** Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	6.4	mg/Kg	4.3	1	03/18/20 10:52	03/17/20	
Cadmium, Total	6010C	2.2	mg/Kg	2.1	1	03/18/20 10:52	03/17/20	
Chromium, Total	6010C	29.7	mg/Kg	4.3	1	03/18/20 10:52	03/17/20	
Copper, Total	6010C	582	mg/Kg	8.5	1	03/18/20 10:52	03/17/20	
Lead, Total	6010C	31	mg/Kg	21	1	03/18/20 10:52	03/17/20	
Mercury, Total	7471B	0.82	mg/Kg	0.15	1	03/17/20 14:06	03/16/20	
Molybdenum, Total	6010C	11	mg/Kg	11	1	03/18/20 10:52	03/17/20	
Nickel, Total	6010C	17 U	mg/Kg	17	1	03/18/20 10:52	03/17/20	
Potassium, Total	6010C	2510	mg/Kg	850	1	03/18/20 10:52	03/17/20	
Selenium, Total	6010C	4.3 U	mg/Kg	4.3	1	03/18/20 10:52	03/17/20	
Zinc, Total	6010C	904	mg/Kg	8.5	1	03/18/20 10:52	03/17/20	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Test Assured Network  
**Project:** Village of Arcade WWTP  
**Sample Matrix:** Sludge, Solid  
**Sample Name:** Sludge  
**Lab Code:** R2002159-003

**Service Request:** R2002159  
**Date Collected:** 03/11/20 07:15  
**Date Received:** 03/11/20 18:10

**Basis:** Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	350.1M	430	mg/Kg	110	5	03/17/20 21:23	03/17/20	
Nitrate as Nitrogen	9056A	47 U	mg/Kg	47	1	03/13/20 15:38	03/13/20	
Nitrite as Nitrogen	9056A	47 U	mg/Kg	47	1	03/13/20 15:38	03/13/20	
Nitrogen, Total Kjeldahl (TKN)	351.2 Modified	41700	mg/Kg	2300	20	03/17/20 12:20	03/16/20	
Phosphorus, Total	365.1 Modified	9190	mg/Kg	810	20	03/16/20 14:28	03/15/20	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Test Assured Network  
**Project:** Village of Arcade WWTP  
**Sample Matrix:** Sludge, Solid  
**Sample Name:** Sludge  
**Lab Code:** R2002159-003

**Service Request:** R2002159  
**Date Collected:** 03/11/20 07:15  
**Date Received:** 03/11/20 18:10  
**Basis:** As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
pH	9045D	6.68	pH Units	-	1	03/13/20 07:05	NA	H
Solids, Total Volatile	SM20 2540 G	56.8	Percent	1.0	1	03/18/20 11:05	NA	
Total Solids	ALS SOP	21.3	Percent	-	1	03/18/20 11:05	NA	

Analytical Report

**Client:** Test Assured Network  
**Project:** Village of Arcade WWTP  
**Sample Matrix:** Sludge, Solid  
**Sample Name:** Compost  
**Lab Code:** R2002159-004

**Service Request:** R2002159  
**Date Collected:** 03/11/20 07:15  
**Date Received:** 03/11/20 18:10

**Basis:** Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	5.4	mg/Kg	1.9	1	03/18/20 10:55	03/17/20	
Cadmium, Total	6010C	3.29	mg/Kg	0.95	1	03/18/20 10:55	03/17/20	
Chromium, Total	6010C	42.7	mg/Kg	1.9	1	03/18/20 10:55	03/17/20	
Copper, Total	6010C	716	mg/Kg	3.8	1	03/18/20 10:55	03/17/20	
Lead, Total	6010C	50.5	mg/Kg	9.5	1	03/18/20 10:55	03/17/20	
Mercury, Total	7471B	0.969	mg/Kg	0.061	1	03/17/20 14:08	03/16/20	
Molybdenum, Total	6010C	20.4	mg/Kg	4.7	1	03/18/20 10:55	03/17/20	
Nickel, Total	6010C	16.9	mg/Kg	7.6	1	03/18/20 10:55	03/17/20	
Potassium, Total	6010C	4250	mg/Kg	380	1	03/18/20 10:55	03/17/20	
Selenium, Total	6010C	6.8	mg/Kg	1.9	1	03/18/20 10:55	03/17/20	
Zinc, Total	6010C	1210	mg/Kg	38	10	03/19/20 20:54	03/17/20	



ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Test Assured Network  
**Project:** Village of Arcade WWTP  
**Sample Matrix:** Sludge, Solid  
**Sample Name:** Compost  
**Lab Code:** R2002159-004

**Service Request:** R2002159  
**Date Collected:** 03/11/20 07:15  
**Date Received:** 03/11/20 18:10

**Basis:** Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	350.1M	2610	mg/Kg	180	20	03/17/20 21:16	03/17/20	
Nitrate as Nitrogen	9056A	3220	mg/Kg	190	10	03/14/20 16:21	03/13/20	
Nitrite as Nitrogen	9056A	19 U	mg/Kg	19	1	03/13/20 15:45	03/13/20	
Nitrogen, Total Kjeldahl (TKN)	351.2 Modified	29200	mg/Kg	1200	20	03/17/20 12:21	03/16/20	
Phosphorus, Total	365.1 Modified	16000	mg/Kg	340	20	03/16/20 14:29	03/15/20	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Test Assured Network  
**Project:** Village of Arcade WWTP  
**Sample Matrix:** Sludge, Solid  
**Sample Name:** Compost  
**Lab Code:** R2002159-004

**Service Request:** R2002159  
**Date Collected:** 03/11/20 07:15  
**Date Received:** 03/11/20 18:10  
**Basis:** As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
pH	9045D	5.27	pH Units	-	1	03/13/20 07:05	NA	H
Solids, Total Volatile	SM20 2540 G	59.1	Percent	1.0	1	03/18/20 11:05	NA	
Total Solids	ALS SOP	51.8	Percent	-	1	03/18/20 11:05	NA	

Analysis Date 6/10/20

**Village of Arcade Composting Facility**

Analytical Report

**Client:** Test Assured Network  
**Project:** Village of Arcade WWTP  
**Sample Matrix:** Sludge, Solid  
**Sample Name:** Sludge  
**Lab Code:** R2004924-003

**Service Request:** R2004924  
**Date Collected:** 06/10/20 09:20  
**Date Received:** 06/10/20 18:50

**Basis:** Dry

**Inorganic Parameters**

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	4.7	mg/Kg	4.3	1	06/17/20 18:10	06/15/20	
Cadmium, Total	6010C	2.4	mg/Kg	2.2	1	06/17/20 18:10	06/15/20	
Chromium, Total	6010C	32.3	mg/Kg	4.3	1	06/17/20 18:10	06/15/20	
Copper, Total	6010C	877	mg/Kg	8.7	1	06/17/20 18:10	06/15/20	
Lead, Total	6010C	44	mg/Kg	22	1	06/17/20 18:10	06/15/20	
Mercury, Total	7471B	1.17	mg/Kg	0.14	1	06/17/20 12:06	06/16/20	
Molybdenum, Total	6010C	17	mg/Kg	11	1	06/17/20 18:10	06/15/20	
Nickel, Total	6010C	17 U	mg/Kg	17	1	06/17/20 18:10	06/15/20	
Potassium, Total	6010C	3850	mg/Kg	870	1	06/17/20 18:10	06/15/20	
Selenium, Total	6010C	4.3 U	mg/Kg	4.3	1	06/17/20 18:10	06/15/20	
Zinc, Total	6010C	1440	mg/Kg	43	5	06/18/20 17:50	06/15/20	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Test Assured Network  
**Project:** Village of Arcade WWTP  
**Sample Matrix:** Sludge, Solid  
**Sample Name:** Sludge  
**Lab Code:** R2004924-003

**Service Request:** R2004924  
**Date Collected:** 06/10/20 09:20  
**Date Received:** 06/10/20 18:50

**Basis:** Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	350.1M	2050	mg/Kg	430	20	06/19/20 19:17	06/19/20	
Nitrate as Nitrogen	9056A	43 U	mg/Kg	43	1	06/22/20 13:09	06/21/20	
Nitrite as Nitrogen	9056A	43 U	mg/Kg	43	1	06/22/20 13:09	06/21/20	
Nitrogen, Total Kjeldahl (TKN)	351.2 Modified	47400	mg/Kg	2600	20	06/23/20 11:47	06/22/20	
Phosphorus, Total	365.1 Modified	11300	mg/Kg	780	20	06/15/20 12:26	06/13/20	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Test Assured Network  
**Project:** Village of Arcade WWTP  
**Sample Matrix:** Sludge, Solid  
**Sample Name:** Sludge  
**Lab Code:** R2004924-003

**Service Request:** R2004924  
**Date Collected:** 06/10/20 09:20  
**Date Received:** 06/10/20 18:50  
**Basis:** As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
pH	9045D	7.41	pH Units	-	1	06/13/20 15:15	NA	H
Solids, Total Volatile	SM20 2540 G	61.9	Percent	1.0	1	06/21/20 12:00	NA	*
Total Solids	ALS SOP	23.0	Percent	-	1	06/21/20 12:00	NA	

Analytical Report

**Client:** Test Assured Network  
**Project:** Village of Arcade WWTP  
**Sample Matrix:** Sludge, Solid  
**Sample Name:** Compost  
**Lab Code:** R2004924-004

**Service Request:** R2004924  
**Date Collected:** 06/10/20 09:20  
**Date Received:** 06/10/20 18:50

**Basis:** Dry

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Arsenic, Total	6010C	5.2	mg/Kg	2.0	1	06/17/20 18:33	06/15/20	
Cadmium, Total	6010C	3.4	mg/Kg	1.0	1	06/17/20 18:33	06/15/20	
Chromium, Total	6010C	42.5	mg/Kg	2.0	1	06/17/20 18:33	06/15/20	
Copper, Total	6010C	1010	mg/Kg	41	10	06/18/20 18:13	06/15/20	
Lead, Total	6010C	55	mg/Kg	10	1	06/17/20 18:33	06/15/20	
Mercury, Total	7471B	1.10	mg/Kg	0.066	1	06/17/20 12:26	06/16/20	
Molybdenum, Total	6010C	26.8	mg/Kg	5.1	1	06/17/20 18:33	06/15/20	
Nickel, Total	6010C	16.7	mg/Kg	8.1	1	06/17/20 18:33	06/15/20	
Potassium, Total	6010C	4180	mg/Kg	410	1	06/17/20 18:33	06/15/20	
Selenium, Total	6010C	8.7	mg/Kg	2.0	1	06/17/20 18:33	06/15/20	
Zinc, Total	6010C	1620	mg/Kg	41	10	06/18/20 18:13	06/15/20	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Test Assured Network  
**Project:** Village of Arcade WWTP  
**Sample Matrix:** Sludge, Solid  
**Sample Name:** Compost  
**Lab Code:** R2004924-004

**Service Request:** R2004924  
**Date Collected:** 06/10/20 09:20  
**Date Received:** 06/10/20 18:50  
**Basis:** Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	350.1M	1830	mg/Kg	190	20	06/19/20 19:18	06/19/20	
Nitrate as Nitrogen	9056A	3080	mg/Kg	100	5	06/22/20 14:05	06/21/20	
Nitrite as Nitrogen	9056A	20 U	mg/Kg	20	1	06/22/20 13:15	06/21/20	
Nitrogen, Total Kjeldahl (TKN)	351.2 Modified	25100	mg/Kg	1200	20	06/23/20 11:48	06/22/20	
Phosphorus, Total	365.1 Modified	16300	mg/Kg	810	40	06/15/20 12:27	06/13/20	



Analytical Report

**Client:** Test Assured Network  
**Project:** Village of Arcade WWTP  
**Sample Matrix:** Sludge, Solid  
**Sample Name:** Compost  
**Lab Code:** R2004924-004

**Service Request:** R2004924  
**Date Collected:** 06/10/20 09:20  
**Date Received:** 06/10/20 18:50  
**Basis:** As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
pH	9045D	5.13	pH Units	-	1	06/13/20 15:15	NA	H
Solids, Total Volatile	SM20 2540 G	58.9	Percent	1.0	1	06/21/20 12:00	NA	*
Total Solids	ALS SOP	49.3	Percent	-	1	06/21/20 12:00	NA	



3580 Harlem Road  
Cheektowaga NY 14215

# Certificate of Analysis

Report Date	6/11/2020	
Report Number	39319	
Total Pages	1	
Analysis Date	6/10/2020	Analyst
Analysis Time	1745	EL
LOG # / PO# / Project	Village of Arcade	

Name / Address
Test Assured Network 204 Talmadge Hill Waverly, NY 14892

## Laboratory Analysis Report

	Analytical Method & Analysis	Results / Units	Verified Date
Fecal Coli...	Fecal Coliform Determination in Potable and Non-Potable Water Method- Colilert-18 IDEXX MDL (<1 to > 100,00 CFU) Source.....Village of Arcade Effluent Collection Date & Time.....6-10-2020 0900 Plated Date & Time.....6-10-2020 1745 Chlorine Residual.....0.0 Dechlorinated to 0.0 with NaSO4 <4 degrees C / On Ice	<1 CFU / 100 ml *J	6-11-2020 1200

This report is issued under the authority of the analysts listed above. This report only relates to the samples which was tested. Interpretation of these results is the sole responsibility of the client. This report shall not be reproduced except in full, without the written approval of the laboratory [ J\* Denotes samples have expired test hold time]  
 NYSDOH and NELAC ID 11660

Sample Dilution:  
 <1 CFU= No Dilution  
 <10 CFU=1:10 Dilution  
 <100 CFU = 1:100 Dilution

Phone	716-651-0146	Form CC-01
Fax	716-242-3010	www.biotrax.net
Email	edward@biotrax.net	

*Edward J. Lukaszek*

Reviewed By

Edward J Lukaszek  
Laboratory Director



**BIOTRAX**

3580 Harlem Road  
Cheektowaga NY 14215

# Certificate of Analysis

Report Date	6/21/2020	
Report Number	39471	
Total Pages	1	
Analysis Date	6/18/2020	Analyst
Analysis Time	1100	EL
LOG # / PO# / Project	Village of Arcade	

Name / Address
Test Assured Network 204 Talmadge Hill Waverly, NY 14892

## Laboratory Analysis Report

Test ID	Analytical Method & Analysis	Results / Units	Verified Date ...
1682 Salm	Salmonella Species in Compost / Biosolid Method- EPA 1682 Sample ..... <b>Compost 2020- 1</b> Sample Date & Time.....6-18-2020 0815 Sample Plated Date & Time ...6-18-2020 1100 Results Interpretation MPN / 4g Dry Weight	<1 MPN per 4g Dry Weight	6-22-2020 1000
1682 Salm	Salmonella Species in Compost / Biosolid Method- EPA 1682 Sample ..... Compost 2020- 2 Sample Date & Time.....6-18-2020 0815 Sample Plated Date & Time ...6-18-2020 1100 Results Interpretation MPN / 4g Dry Weight	<1 MPN per 4g Dry Weight	6-22-2020 1000
1682 Salm	Salmonella Species in Compost / Biosolid Method- EPA 1682 Sample ..... Compost 2020- 3 Sample Date & Time.....6-18-2020 0815 Sample Plated Date & Time ...6-18-2020 1100 Results Interpretation MPN / 4g Dry Weight	<1 MPN per 4g Dry Weight	6-22-2020 1000

This report is issued under the authority of the analysts listed above. This report only relates to the samples which was tested. Interpretation of these results is the sole responsibility of the client. This report shall not be reproduced except in full, without the written approval of the laboratory [ J\* Denotes samples have expired test hold time]  
 NYSDOH and NELAC ID 11660

Sample Dilution:  
 <1 CFU= No Dilution  
 <10 CFU=1:10 Dilution  
 <100 CFU = 1:100 Dilution

*Edward J. Lukaszek*

Reviewed By

Edward J Lukaszek  
 Laboratory Director

Phone #	716-651-0146	Form CC-01
Fax #	716-242-3010	www.biotrax.net
E-mail	edward@biotrax.net	

# Village of Arcade Compost Facility

## Aerated Static Pile Materials Testing Record

2020 - 1

			Empty Dish	Wet+Dish	Dry+Dish	Wet sample	Dry Sample	% Solids	Analyst
Date	1-7-20	Sludge # 8	73.08	116.09	81.38	43.01	8.3	19.3	DK
Date	1-7-20	Woochips # 2	72.20	116.53	97.77	44.33	25.57	57.9	DK
Date	1-7-20	Initial mix # B	118.42	252.90	166.58	134.48	48.16	35.8	DK
Date	2-7-20	After compost # B	118.43	229.26	167.53	110.83	49.10	44.3	DK
Date	3-16-20	After cure # B	118.42	257.89	175.00	139.47	56.58	40.6	NS

**VILLAGE OF ARCADE COMPOSTING FACILITY  
AERATED STATIC PILE  
MONITORING RECORD**

File number 2020-1

Date constructed 1-9-20

File location \_\_\_\_\_

S E N

DAY	DATE	TIME	PH	THERM TEMP	THERM TEMP	PROBE TEMP	OPERATOR
1	1-10-20	7:35		90°F	60°F	7°C	DK
2	1-11-20	8:15		108°F	66°F	8°C	DK
3	1-12-20	8:10		117°F	70°F	9°C	DK
4	1-13-20	7:40		150°F	80°F	12°C	DK
5	1-14-20	7:45		161°F	86°F	13°C	DK
6	1-15-20	10:25		168°F	92°F	16°C	DK
7	1-16-20	7:45		172°F	92°F	18°C	DK
8	1-17-20	1:15		170°F	96°F	23°C	DK
9	1-18-20	7:30		168°F	100°F	27°C	NS
10	1-19-20	7:45		164°F	100°F	34°C	NS
11	1-20-20	11:50		160°F	102°F	42°C	NS
12	1-21-20	10:35		158°F	120°F	53°C	DK
13	1-22-20	11:00		152°F	124°F	59°C	DK
14	1-23-20	7:55		157°F	157°F	58°C	DK
15	1-24-20	7:45		150°F	152°F	59°C	DK
16	1-25-20	7:45		146°F	150°F	60°C	DK
17	1-26-20	7:45		140°F	152°F	59°C	DK
18	1-27-20	9:40		138°F	152°F	59°C	NS
19	1-28-20	7:45		138°F	150°F	59°C	DK
20	1-29-20	7:45		137°F	157°F	60°C	DK
21	1-30-20	7:50		135°F	150°F	60°C	DK

**VILLAGE OF ARCADE COMPOSTING FACILITY  
AERATED STATIC PILE  
MONITORING RECORD**

File number 2020-1

Date constructed 1-9-20

File location \_\_\_\_\_

S      E      N

DAY	DATE	TIME	PH	THERM TEMP	THERM TEMP	PROBE TEMP	OPERATOR
1	1-31-20	7:40		134°F	157°F	58°C	DK
2	2-1-20	7:45		132°F	150°F	59°C	NS
3	2-2-20	7:40		124°F	148°F	59°C	NS
4	2-3-20	8:50		130°F	147°F	60°C	DK
5	2-4-20	7:40		130°F	148°F	59°C	DK
6	2-5-20	7:30		129°F	147°F	58°C	DK
7	2-6-20	11:10		136°F	139°F	58°C	DK
8	2-7-20	7:40		138°F	140°F	59°C	DK TP
9	2-8-20	8:50		104°F	82°F	122°F	DK
10	2-9-20	8:50		123°F	102°F	132°F	DK
11	2-10-20	11:05		140°F	128°F	147°F	DK
12	2-11-20	7:55		150°F	146°F	152°F	DK
13	2-12-20	7:30		150°F	157°F	155°F	DK
14	2-13-20	7:30		147°F	150°F	153°F	DK
15	2-14-20	7:50		144°F	147°F	157°F	DK
16	2-15-20	7:40		140°F	142°F	144°F	NS
17	2-16-20	8:40		136°F	138°F	132°F	NS
18	2-17-20	3:45		134°F	138°F	132°F	NS
19	2-18-20	7:55		132°F	138°F	132°F	DK
20	2-19-20	9:25		129°F	136°F	131°F	DK TP
21	2-20-20	7:40		131°F	98°F	115°F	DK

**VILLAGE OF ARCADE COMPOSTING FACILITY  
CURING PILE  
MONITORING RECORD**

File number 2020-1

Date constructed 1-9-20

File location \_\_\_\_\_

S      E      N

Day	DATE	TIME	THERM	THERM	THERM	OPERATOR	
			TEMP	TEMP	TEMP		
1	2-21-20	7:20	153°F	111°F	133°F	DK	TP
2	2-22-20	7:15	95°F	85°F	116°F	DK	
3	2-23-20	7:45	104°F	74°F	137°F	DK	
4	2-24-20	9:15	122°F	92°F	156°F	NS	
5	2-25-20	7:30	132°F	107°F	157°F	DK	
6	2-26-20	7:40	137°F	118°F	157°F	DK	
7	2-27-20	7:50	137°F	122°F	157°F	DK	TP
8	2-28-20	11:00	118°F	98°F	122°F	DK	
9	2-29-20	7:15	128°F	88°F	136°F	NS	
10	3-1-20	9:40	138°F	108°F	154°F	NS	
11	3-2-20	7:55	141°F	115°F	157°F	DK	
12	3-3-20	7:50	143°F	119°F	158°F	DK	
13	3-4-20	10:40	145°F	120°F	157°F	DK	
14	3-5-20	7:20	145°F	127°F	156°F	DK	TP
15	3-6-20	9:00	122°F	90°F	122°F	DK	
16	3-7-20	9:30	134°F	94°F	131°F	DK	
17	3-8-20	7:50	140°F	101°F	137°F	DK	
18	3-9-20	7:40	144°F	108°F	141°F	DK	
19	3-10-20	9:00	148°F	115°F	143°F	DK	
20	3-11-20	9:10	150°F	118°F	145°F	DK	
21	3-12-20	9:05	150°F	118°F	145°F	DK	TP
22	3-13-20	7:50	127°F	103°F	113°F	DK	
23	3-14-20	7:45	129°F	62°F	125°F	DK	
24	3-15-20	6:05	134°F	64°F	130°F	NS	
25	3-16-20	7:30	134°F	73°F	134°F	DK	TP
26							
27							
28							
29							
30							
31							