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

RECEIVED

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 organic recycling@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: Mohican Farm/Clark Foundation				
SW FACILITY ACTIVITY NUMBER(S): (Ex. 02P20099) 39-C-07 39 P16001				
COUNTY WHERE FACILITY IS LOCATED: Otsego				

DEC USE ONLY

Region:

SWIMS:

MATRIX:

Date Reviewed:

Reviewed By:

Data Entered:

COMPOST FACILITY ANNUAL REPORT SECTION 1 – FACILITY INFORMATION



FEB 2 2 2021

FACILITY INFORMATION		T.	3
Foundation			
FACILITY CITY:		STATE:	ZIP CODE:
Cooperstown		NY	13326
FACILITY COUNTY: FACILITY PHONE NUMBER:			E NUMBER:
Otsego 607-437-2585			-2585
CONTACT PHONE NUMBER			
315-269-0943			
nerkley@gmail.com	n		
OWNER INFORMATION			
OWNER PHONE NUMBER: 607-547-2563			
		STATE: NY	ZIP CODE: 13326
OWNER CONTACT: OWNER CONTACT EMAIL ADDRESS: rtsutherland.mohicanfarm@gmail.com			
	cantarn	n@gm	all.com
OPERATOR INFORMATION			
kley			
PREFERENCES			
nce: Facility location address	00	wner address	
ct Owner Contact			
lence:)Owner	Owner	Contact
	Cooperstown FACILITY COUNTY: Otsego CONTACT PHONE NUMBER: 315-269-0943 PERKLEY@gmail.cor OWNER INFORMATION OWNER PHONE NUMBER: 607-547-2563 OWNER CITY: Cooperstown OWNER CONTACT EMAIL AI rtsutherland.mohi OPERATOR INFORMATION Kley PREFERENCES Ince: Facility location address Ct Owner Contact	FACILITY CITY: COOPERSTOWN FACILITY COUNTY: Otsego CONTACT PHONE NUMBER: 315-269-0943 PERKLEY@gmail.com OWNER INFORMATION OWNER PHONE NUMBER: 607-547-2563 OWNER CITY: Cooperstown OWNER CONTACT EMAIL ADDRESS: rtsutherland.mohicanfarm OPERATOR INFORMATION Kley PREFERENCES TOCE: Pracility location address COOPERSTOWN OWNER CONTACT OPERATOR INFORMATION CONTACT EMAIL ADDRESS: CONTACT EMAIL EMAI	FACILITY CITY: COOPERSTOWN FACILITY COUNTY: Otsego CONTACT PHONE NUMBER: 315-269-0943 MERKIEY@gmail.com OWNER INFORMATION OWNER PHONE NUMBER: 607-547-2563 OWNER CITY: COOPERSTOWN OWNER CONTACT EMAIL ADDRESS: rtsutherland.mohicanfarm@gm OPERATOR INFORMATION kley PREFERENCES TICS: Practity location address COUNTACT PHONE NY STATE: NY OWNER CONTACT EMAIL ADDRESS: rtsutherland.mohicanfarm@gm OPERATOR INFORMATION Kley OWNER CONTACT OWNER CONTACT OWNER CONTACT OPERATOR INFORMATION COUNTACT OWNER CONTACT OWNER CONTAC

SECTION 2 – QUANTITY OF MATERIAL RECEIVED

Please report quantities received from <u>January 01, 2020</u> to <u>December 31, 2020</u>

		Γ	T	
	Inputs	Quantity	Unit	Source(s)
	Leaves only		Choose Units	
VASTE	Grass Clippings		Choose Units	
YARD WASTE	Mixture of Grass and Leaves	100	Cubic Yards	
	Brush (Small branches and limbs, <4 inch diameter)		Choose Units	
	Source Separated Organics (Food scraps, soiled paper products, etc.)		Choose Units	
SSO	Food Processing Waste (brewery grains, grape pomace, etc.)	43.25	Tons	
	Crop Residues (Com stalks, etc.)		Choose Units	
	Manure (including bedding)		Choose Units	
	Sawdust/Shavings		Choose Units	
OTHER	Animal Carcasses (road-kill, animal mortalities)		Choose Units	
	Paper Mill Residuals		Choose Units	
	Digestate		Choose Units	
	Other:		Choose Units	
ENT	Woodchips	250	Cubic Yards	
BULKING AGENT	Sawdust		Choose Units	
BULKII	Other:		Choose Units	

SECTION 3 – COMPOST PRODUCTION

WHAT IS THE PROCESS DETENTION TIME? Note: Total time material is processed, not Including storage time	180	days
COMPOST PRODUCED DURING THE YEAR:	211	Cubic Yards 🔽
COMPOST DISTRIBUTED DURING THE YEAR:	100	Cubic Yards 🔻
QUANTITY CURRENTLY STOCKPILED: Note: Finished product stockpiled	50	Cubic Yards 🔽
AGE OF OLDEST PRODUCT ON SITE:	24	months

SECTION 4 – COMPOST DISTRIBUTION

Quantity Distributed Cubic Yards	Use of Compost (landscaping, agriculture, highway, onsite, bagged, etc.)
25	Tree care companies (trade for chips)
25	Garden Clubs, Church etc
50	On site

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, ≥40C	s, ≥45 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.



Agricultural Analytical Services Laboratory The Pennsylvania State University 111 Ag Analytical Svcs Lab University Park, PA 16802

(814) 863-0841 aaslab@psu.edu www.aasl.psu.edu

Analysis Report For:		Сору То:				
191	rk Foundation Main St; PO Box 5 operstown NY 133					
LAB ID:	SAMPLE ID:	REPORT DATE:	SAMPLE TYPE:	FEEDSTOCKS	COMPOSTING METHOD	COUNTY
	Mohican Farm	01/29/2021	Finished Compost		Static Pile-Forced aeration	

COMPOST ANALYSIS REPORT

Compost Test 1C

Analyte	Results (As is basis)	Results (Dry weight basis)	
рН	7.2		
Soluble Salts (1:5 w:w)	0.91 mmhos/cm	_	
Solids	90.1 %		
Moisture	9.9 %	_	
Organic Matter	41.6 %	46.1 %	
Total Nitrogen (N)	2.26 %	2.50 %	
Organic Nitrogen ¹	2.25 %	2.50 %	
Ammonium N (NH ₄ -N)	8.2 mg/kg	9.1 mg/kg	
	0.0008 %	0.0009 %	
Carbon (C)	24.6 %	27.3 %	
Carbon: Nitrogen (C:N) Ratio	10.90	10.90	
Phosphorus (as P ₂ O ₅) ²	1.709 %	1.897 %	
Potassium (as K ₂ O) ²	0.43 %	0.48 %	
Calcium (Ca)	4.28 %	4.75 %	
Magnesium (Mg)	0.29 %	0.33 %	
Sulfur (S)	0.24 %	0.26 %	
Sodium (Na)	937 mg/kg	1039 mg/kg	
Aluminum (Al)	5839.38 mg/kg	6480.85 mg/kg	
Iron (Fe)	10223.96 mg/kg	11347.08 mg/kg	
Manganese (Mn)	422.88 mg/kg	469.34 mg/kg	
Copper (Cu)	21.90 mg/kg	24.31 mg/kg	
Zinc (Zn)	122.95 mg/kg	136.45 mg/kg	

See comments on back of report.

²To convert phosphorus as P₂O₅ into elemental phosphorus (P), divide by 2.29. To convert potassium (as K₂O) into elemental potassium (K), divide by 1.20.

INTERPRETATION

pН

pH is a measure of active acidity in the feedstock or compost. The pH scale is 0 (acidic) to 14 (basic) with 7 being neutral. Most finished composts will have pH values in the range of 5.0 to 8.5. Ideal pH depends on compost use. A lower pH is preferred for certain ornamental plants while a neutral pH is suitable for most other applications. pH is not a measure of the total acidity or alkalinity and cannot be used to predict the effect of compost on soil pH.

Soluble Salts Soluble salts are determined by measuring electrical conductivity (EC) in a 1:5 (compost:water, weight ratio) slurry. EC is related to the total soluble salts dissolved in the slurry and is measured in units of millimhos/cm (mmhos/cm). Compost soluble salt levels typically range from 1 to 10 mmhos/cm. High salinity may be toxic to plants. Ideal soluble salt levels will depend on the end use of the compost. Final compost blends with soil or container media/potting mixes should be tested for soluble salts.

% Solids, % Moisture

The ideal moisture content for composting will depend on the water holding capacity of the materials being composted. In general, high organic matter materials have a higher water holding capacity and a higher ideal moisture content. A typical starting compost mix will have an ideal % solids content of 35-55 % (65-45 % moisture). Finished compost should have a % solids content of 50-60 % (50-40 % moisture).

% Organic Matter

There is no ideal organic matter level for feedstocks or finished compost. Organic matter content will decrease during composting. The organic matter content (dry weight basis) of typical feedstocks and starting mixes will be greater than 60 % while that of finished compost will be in the range of 30-70 %. An organic matter content (dry weight basis) of 50-60 % is desirable for most compost uses.

Nitrogen:
Total,
Organic,
Ammonium,
and Nitrate

Total nitrogen (N) includes all forms of nitrogen: organic N, ammonium N (NH₄-N), and nitrate N (NO₃-N). Total N will normally range from less than 1 % to around 5 % (dry weight basis) in most feedstocks and from 0.5 to 2.5 % (dry weight basis) in finished composts. NO₃-N (an optional test) is generally present in only low concentrations in immature composts, although it may increase as the compost matures. NH₄-N levels may be high during initial stages of the composting process, but decrease as maturity increases. Organic N is determined by subtracting the inorganic N forms, NH₄-N and NO₃-N, from total N. However, because NO₃-N levels are generally very low, total nitrogen minus NH₄-N provides a good estimate of organic N in most composts and is the value shown on the front of this report. In stable, finished composts, most of the N should be in the organic form. While NH₄-N and NO₃-N are immediately available to plants, organic N is only slowly available, approximately 10 to 20 % per year. However, mineralization or break-down of organic N into available inorganic forms depends on the C: N ratio (see below) as well as factors such as soil moisture and temperature.

Total Carbon Total carbon (C) is a direct measurement of all organic and inorganic carbon in the compost sample. Unless the sample has a high pH (> 8.3) or is known to contain carbonates, essentially all carbon will be in the organic form. Compost organic matter typically contains around 54 % organic carbon by weight. The carbon content of individual feedstocks may vary from this ratio.

Carbon: Nitrogen Ratio This is the ratio of total carbon (C) to total nitrogen (N) in the compost sample provided. C:N ratio may be used as an indicator of compost stability and N availability. Compost C:N ratio typically decreases during composting if the starting C:N ratio is > 25, but may increase if the starting C:N ratio is low (< 15) and N is lost during the composting process. Composts with high C:N ratios (> 30) will likely immobilize or tic-up N if applied to soil, while those with low C:N ratios (< 20) will mineralize or break-down organic N to inorganic (plant-available) N.

Phosphorus, Potassium Phosphorus (P) and potassium (K) are plant macronutrients. Values reported are for total amounts given in the oxide forms (P_2O_5 and K_2O). These results provide an indication of the nutrient value of the compost sample. However, plant availability of total phosphorus and potassium in compost has not yet been established.

Nitrogen, Phosphorus, Potassium Balance When compost is applied on the basis of nitrogen (N), most composts will have an excess of phosphorus (P) and potassium (K) relative to crop demand. These mineral elements and salts can accumulate to above optimum levels with repeated application. Growers using compost should regularly soil test to monitor P, K and salt accumulation and should consider using other nutrient sources or nitrogen fixing legumes in their crop rotation especially when P and K levels are above optimum.

SECTION 6 - FINISHED COMPOST ANALYSIS

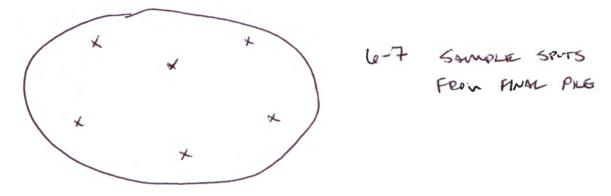
For permitted SSOW composting facilities only. Please attach sampling analyses and laboratory reports as required under Part 360 or your permit. Copies of original laboratory results must be attached. All results, except pH and Total Solids, must be on a dry weight basis. See 361-3.9 Table 6 for pollutant 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)	41
Cadmium (mg/kg)	10
Chromium (mg/kg)	1,000
Copper (mg/kg)	1,500
Lead (mg/kg)	300
Mercury (mg/kg)	10
Molybdenum (mg/kg)	40
Nickel (mg/kg)	200
Selenium (mg/kg)	100
Zinc (mg/kg)	2,500
TKN (mg/kg)	
Ammonia Nitrogen (mg/kg)	
Nitrate (mg/kg)	
Total Phosphorus (mg/kg)	
Total Potassium (mg/kg)	
pH (s.u.)	
Total Solids(%)	
Total Volatile Solids (%)	
Fecal Coliform (MPN/g)	<1,000 MPN/g
Salmonella (MPN/4g)	<3MPN/4g
Other	

SECTION 7 - SAMPLE MANAGEMENT PLAN

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



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.
Due to covid-19 affects and shutdowns the facility operated from March until August without taking or any Food Waste. This is reflected in a lower amount of finished product in comparison to other years
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 lorge generators on
it relates to the Food Donation and Food Scraps Recycling law.	ior large generators as
Assessing Your Food Scraps Recycling Capacity	
DEC is responsible for assessing available food scraps recycling capacity across New from your operation will help us do this. Please complete the following section to calcul excess food scraps your operation will have the capability to process in 2022 . Please s (wet tons or cubic yards).	ate the amount of
A. Amount of foods scraps projected to be processed in 2021: 125-150 tons	Tons [
B. Amount of foods scraps projected to be processed in 2022: 125-50	Tons [
* Note: You will not be required to process this quantity of material, these estimates will DEC in capacity planning across the state in preparation for the Food Donation and Follow effective January 1, 2022.	-
Questions?	DEC USE ONLY
	Excess Capacity:

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

MATERIAL MANAGEMENT PROGRAM CONTACTS

CENTRAL OFFICE

Bureau of Waste Reduction and Recycling 625 Broadway Albany, NY 12233-7253

Phone: (518) 402-8706

For Submission of Organics Recycling Annual Reports only:

Fax: (518) 402-9024

Email: organicrecycling@dec.ny.gov

REGIONAL OFFICE ADDRESS & LEAD CONTACT PERSON

REGION 1 (Nassau, Suffolk)

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

PEGION 2 (Brony Kings New York Oues

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Peter Grasso 270 Michigan Avenue Buffalo, NY 14203 Phone: (716) 851-7220

SWMFannualreportR9@dec.ny.gov

September 2020

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.

Muly Signatu	re	2/18/2021 Date
DENIN MERKY	xx	TECH
Name (Print)		Title (Print)
devner	Kley@gnal	nail (Print)
7195 HWY	80	COURSTON N
Address	3	City
NY 1332		(315) 219- 0943
Name (Print) deumer 7195 HWY Address	Kley@gmail En 80	Title (Print) L. LoM nail (Print) (000 CUSTON N City

ΑΤ	FACHMENTS: ONO YES	(IF YES, LIST ATTACHMENTS)
•	Soil Annalysis	
•	Temperature L	ogs
•		

Mohican Farm Compost Data Sheet

Month/Year 11/10 12/20 12/11

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Mohican Farm

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Mohican Farm Compost Data Sheet

MARCH 2020

Month/Year 1/10

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September 2020
Month/Year

Mohican Farm Compost Data Sheet

October

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