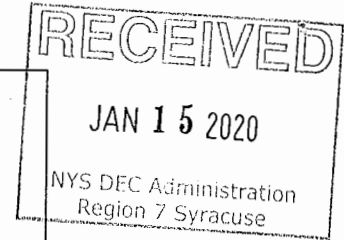


New York State Department of Environmental Conservation
Division of Materials Management
Albany, New York 12233-7253

2019
PERMITTED FACILITY ANNUAL REPORT BIOSOLIDS
COMPOSTING/OTHER PROCESSING
6 NYCRR Part 361-3.2



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

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

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

Forms for all solid waste management facilities can be found at <http://www.dec.ny.gov/chemical/52706.html>. If you have any questions on this form, please e-mail organicrecycling@dec.ny.gov.

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: Northgate WWTP

PERMIT NUMBER: 7-0324-0054/00001

SW FACILITY ACTIVITY NUMBER: (Ex. 02PP0099) _____

COUNTY WHERE FACILITY IS LOCATED: Broome

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: Northgate WWTP			
FACILITY LOCATION ADDRESS: 1256 Front Street	FACILITY CITY: Binghamton	STATE: NY	ZIP CODE: 13901
FACILITY TOWN: Chenango	FACILITY COUNTY: Broome	FACILITY PHONE NUMBER: (607)648-4809	
NYSDEC REGION #: 7			
FACILITY CONTACT: Don Benjamin		CONTACT PHONE NUMBER: (607)648-4809, ext#7	
CONTACT EMAIL ADDRESS: water@townofchenango.com			
OWNER INFORMATION			
OWNER NAME: Town of Chenango	OWNER PHONE NUMBER: (607)648-4809, ext#7		
OWNER ADDRESS: 1529 NY RT 12	OWNER CITY: Binghamton	STATE: NY	ZIP CODE: 13901
OWNER CONTACT: JoAnne Klenovic	OWNER CONTACT EMAIL ADDRESS: supervisor@townofchenango.com		
OPERATOR INFORMATION			
OPERATOR NAME: <input type="checkbox"/> Same as owner Don Benjamin			
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 checked="" type="radio"/> Facility Contact <input type="radio"/> Owner Contact <input type="radio"/> Other (provide):			
Preferred individual to receive correspondence: <input checked="" type="radio"/> Facility Contact <input type="radio"/> Owner <input type="radio"/> Owner Contact <input type="radio"/> Other (provide):			
Did you operate in 2019? <input checked="" type="radio"/> Yes; Complete this form. <input type="radio"/> No; Complete and submit Sections 1 and 13. If you no longer plan to operate and wish to relinquish your permit/registration associated with this solid waste management activity, please notify the regional office of your intent. See attachment for Regional Office addresses and contacts.			

SECTION 2 – QUANTITY OF MATERIAL RECEIVED

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

Compost Input	Quantity	Unit	% Solids	Source
Biosolids (Sewage Sludge)	1,183 yd	Cubic Yards	17.2%	Northgate, Pennview, Chenango Heights WWTP
Bulking Agent/Amendment Specify: <u>Woodchips</u>	2,400 yd	Cubic Yards	+/- 50%	Woodchips from NYSEG, County and Town Highway Departments
Other: _____		Choose Units		

SECTION 3 – COMPOST PRODUCTION

WHAT IS THE PROCESS DETENTION TIME? <i>Note: Total time material is processed, not Including storage time</i>	51 _____ days
COMPOST PRODUCED DURING THE YEAR:	588 _____ cubic yards or _____ tons
COMPOST DISTRIBUTED DURING THE YEAR:	488 _____ cubic yards or _____ tons
QUANTITY CURRENTLY STOCKPILED: <i>Note: Finished product stockpiled</i>	100 _____ cubic yards or _____ tons
AGE OF OLDEST PRODUCT ON SITE:	1.5 _____ months

SECTION 4 – COMPOST DISTRIBUTION

Quantity Distributed (cubic yards)	Use of Compost (landscaping, agriculture, highway, onsite, bagged, etc.)
488	Lawns, Fields, Landscaping

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 =====>	03/14/19	07-25-19	09-24-19	12-18-19	Permit Pre 2017 Regs. Monthly Conc. (mg/kg)	Permit Post 2017 Regs. Max. Conc. (mg/kg)
	Arsenic (mg/kg)	4.33	<4.11	<4.88	<4.48	41
Cadmium (mg/kg)	0.316	0.557	0.632	<0.448	21	10
Chromium (mg/kg)	39.8	33.6	27.7	25.5	1,000	1,000
Copper (mg/kg)	273	416	495	335	1,500	1,500
Lead (mg/kg)	16.2	12.6	12.5	10.7	300	300
Mercury (mg/kg)	0.464	<1.47	<1.61	<0.239	10	10
Molybdenum (mg/kg)	<5.51	<12.3	<14.6	<13.4	40	40
Nickel (mg/kg)	17.5	10.2	10.6	10.7	200	200
Selenium (mg/kg)	3.56	5.95	5.86	<4.48	100	100
Zinc (mg/kg)	325	420	411	327	2,500	2,500
TKN (mg/kg)	13000	78500	62900	67300		
Ammonia Nitrogen (mg/kg)	13700	13400	519	15200		
Nitrate (mg/kg)	<5.08	<36.0	<39.9	<36.2		
Total Phosphorus (mg/kg)	<5.08	21200	62900	16400		
Total Potassium (mg/kg)	6030	8310	8540	7640		
pH (s.u.)	6.42	6.30	6.40	6.30		
Total Solids(%)	19.7	16.6	15.3	17.1		
Total Volatile Solids (%)	57.1	80.1	80.9	79.6		

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 ≥ 12 for 2 hours and ≥ 11.5 for 22 hours
- 75% solids
- 90% solids (untreated solids)

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

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 ==>	02/26/19	04/30/19	06/21/19	08/22/19	Permit Pre 2017 Regs. Monthly Conc. (mg/kg)	Permit Post 2017 Regs. Max. Conc. (mg/kg)
	Arsenic (mg/kg)	2.08	2.21	2.48	2.02	41
Cadmium (mg/kg)	0.630	0.491	0.557	0.579	10	10
Chromium (mg/kg)	16.4	21.2	26.9	28.7	1,000	1,000
Copper (mg/kg)	238	192	233	270	1,500	1,500
Lead (mg/kg)	10.2	8.84	10.3	9.98	300	300
Mercury (mg/kg)	0.378	<0.377	<0.391	0.552	10	10
Molybdenum (mg/kg)	2.65	<3.64	<3.38	<3.11	40	40
Nickel (mg/kg)	8.92	9.94	9.64	8.73	200	200
Selenium (mg/kg)	3.03	1.61	2.10	2.95	100	100
Zinc (mg/kg)	315	247	308	328	2,500	2,500
TKN (mg/kg)	41000	21000	32000	18600		
Ammonia Nitrogen (mg/kg)	7290	6250	4480	8170		
Nitrate (mg/kg)	217	<9.6	81.8	51.7		
Total Phosphorus (mg/kg)	18000	9600	9800	8460		
Total Potassium (mg/kg)	7100	6500	6040	7480		
pH (s.u.)	8.26	8.4	8.5	8.6		
Total Solids (%)	55.7	62.7	60.2	68.3		
Total Volatile Solids (%)	57.2	77.5	72.2	74.9		
Fecal Coliform (MPN/g)					<1,000 MPN/g	
Salmonella sp. (MPN/4g)	<3	<3	<3	<3	<3MPN/4g	
Other _____						

SECTION 7 – FINISHED COMPOST ANALYSIS

Please attach sampling analyses and laboratory reports as required under Part 360 or your permit. Copies of original laboratory results must be attached. All results, except pH and Total Solids, must be on a dry weight basis.

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

Analysis Date ==>					Permit Pre 2017 Regs. Monthly Conc. (mg/kg)	Permit Post 2017 Regs. Max. Conc. (mg/kg)
	10/29/19	12/18/19				
Arsenic (mg/kg)	2.03	2.07			41	41
Cadmium (mg/kg)	0.592	0.608			10	10
Chromium (mg/kg)	26.7	26.0			1,000	1,000
Copper (mg/kg)	306	344			1,500	1,500
Lead (mg/kg)	10.3	12.5			300	300
Mercury (mg/kg)	0.518	0.249			10	10
Molybdenum (mg/kg)	4.35	4.11			40	40
Nickel (mg/kg)	8.80	9.67			200	200
Selenium (mg/kg)	3.34	3.16			100	100
Zinc (mg/kg)	338	363			2,500	2,500
TKN (mg/kg)	27800	22300				
Ammonia Nitrogen (mg/kg)	9030	8110				
Nitrate (mg/kg)	257	376				
Total Phosphorus (mg/kg)	17900	12200				
Total Potassium (mg/kg)	7030	6960				
pH (s.u.)	7.7	7.4				
Total Solids (%)	60.3	57.1				
Total Volatile Solids (%)	67.0	75.2				
Fecal Coliform (MPN/g)					<1,000 MPN/g	
Salmonella sp. (MPN/4g)	<3	<3			<3MPN/4g	
Other _____						

SECTION 8 – SAMPLE MANAGEMENT

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

Diagram of sampling locations is attached to this document.

The finished compost is sampled while it is being ran through the Powerscreen unit; six samples are taken at equal spacing.

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.

No operational problems to report this year.

Section 12 – QUESTIONS

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

No questions to ask.

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 – 9th Floor
Albany, New York 12233-7253**

Phone: 518-402-8706

Fax 518-402-9024

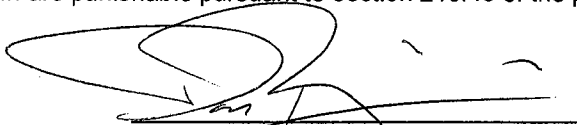
Email address: organicrecycling@dec.ny.gov

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

Don Benjamin

Name (Print)

01/10/2020

Date

Public Works Director

Title (Print)

water@townofchenango.com

Email (Print)

1529 NY RT 12

Address

Binghamton

City

New York 13901

State and Zip

(607) 648 4809

Phone Number

ATTACHMENTS: NO YES (IF YES, LIST ATTACHMENTS)

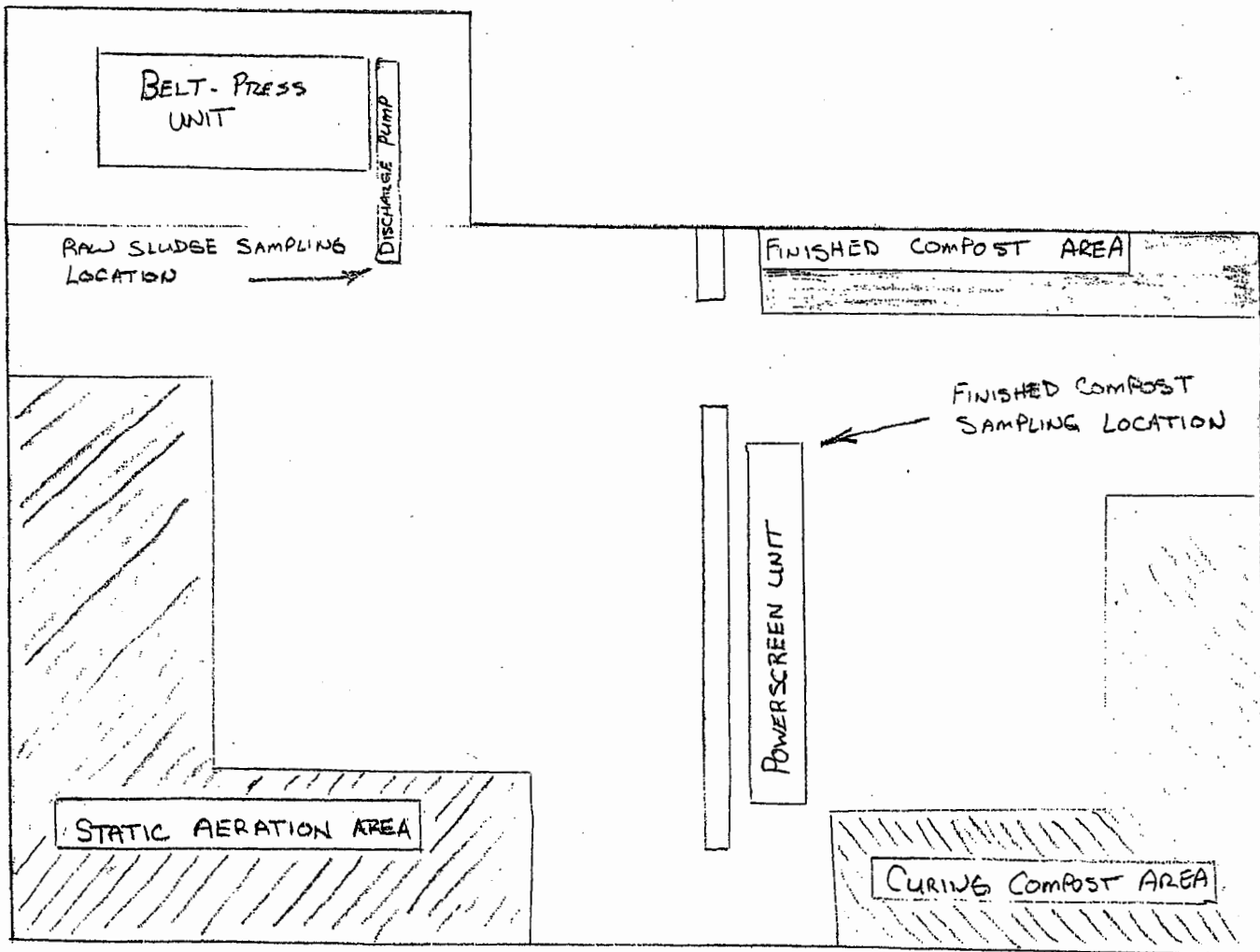
- Compost Pile Sheets
- Laboratory test results
- Compost sampling protocol

Compost Sampling Protocol

- Input material is sampled at the discharge end of the belt-filter press, as a cake form in range of 14%-19% solids.
- The finished compost material is sampled while the piles are run through the power-screen. Six samples are taken from each finished pile at equal spacing.

The above sampling locations are representative because the location and frequency of the samples provide a true measure of what the material makeup is.

Diagram Below:



TOWN OF CHENANGO COMPOST TESTING LOG

Date Built 3/1/19 Pile Number 9/19

	Temp AM	Temp PM	Hour	Comments	Initials
Day 1	55		12		SM
Day 2	58		56		SM
Day 3	57	59	98		SM SM
Day 4	59	56	124		SM SM
Day 5	55	58	142		SM SM
Day 6	59	58	158		SM SM
Day 7	55	55	167		SM
Day 8	55		185		SM
Day 9	55		190		SM
Day 10	55	54	193		SM SM
Day 11	56	58	203		SM SM
Day 12	58	56	212		SM SM
Day 13	59	55	221		SM SM
Day 14	58	56	224		SM SM
Day 15	52		230		SM
Day 16	48		266		SM
Day 17	49	51	280		SM SM
Day 18	49	44	291		SM SM
Day 19	48	47	301		SM SM
Day 20	46	48	308		SM SM
Day 21	47	45	314		SM

DATES PILE IS TURNED DURING THE CURING PROCESS

1st 3-27-19
 2nd 4-4-19
 3rd 4-5-19

RELEASE DATE: 4/21/19

TOWN OF CHENANGO COMPOST TESTING LOG

Date Built 2-15-19

Pile Number 7/19

	Temp AM	Temp PM	Hour	Comments	Initials
Day 1 16	56	56	55		JF, JF
Day 2 17	57	57	61		JF, JF
Day 3 18	58	56	75		SM, SM
Day 4 19	58	59	89		SM, SM
Day 5 20	57	58	92		SM, SM
Day 6 21	55	56	94		SM, SM
Day 7 22	59	57	98		SM, SM
Day 8 23	56		104		ML
Day 9 29	57		112		ML
Day 10 25	59	58	124		SM, SM
Day 11 26	58	56	139		SM, SM
Day 12 27	55	56	152		ML
Day 13 28	55	56	166		SM, SM
Day 14 29	58	59	176		SM, SM
Day 15 20	50		183		SM
Day 16 3	50		190		SM
Day 17 4	56	54	198		SM, SM
Day 18 5	51	50	207		SM, SM
Day 19 6	54	50	211		SM, SM
Day 20 7	50	48	213		SM, SM
Day 21 8	47	51	220		SM, SM

DATES PILE IS TURNED DURING THE CURING PROCESS

1st 3/25/19
 2nd 3-19-19
 3rd 3-21-19

RELEASE DATE: 4/8/19

TOWN OF CHENANGO COMPOST TESTING LOG

Date Built 1-25-19 Pile Number 4/19

	Temp AM	Temp PM	Hour	Comments	Initials
Day 1 26	54		0		
Day 2 27	56		0		
Day 3 28	53	59	3.02		
Day 4 29	55	58	3.85		SM SM
Day 5 30	53	58	4.32		SM
Day 6 31	59	58	5.46		SM SM
Day 7 1	58	57	6.39		SM SM
Day 8 2	58		6.99		SM
Day 9 3	57		7.76		SM
Day 10 4	58	55	8.30		SM SM
Day 11 5	59	57	8.48		SM SM
Day 12 6	59	55	8.66		SM SM
Day 13 7	59	54	8.79		SM SM
Day 14 8	55	53	8.79		SM SM
Day 15 9	52		9.12		SM
Day 16 10	52		9.65		SM
Day 17 11	50	55	10.71		SM SM
Day 18 12	51	52	11.81		SM SM
Day 19 13	46	49	12.65		SM SM
Day 20 14	46	50	13.34		SM SM
Day 21 15	49	50	13.76		SM SM

DATES PILE IS TURNED DURING THE CURING PROCESS

1st 2-19-19
 2nd 2-22-19
 3rd 2-26-19

RELEASE DATE: 3/15/19

TOWN OF CHENANGO COMPOST TESTING LOG

Date Built 1-3-19

Pile Number 1-19

	Temp AM	Temp PM	Hour	Comments	Initials
Day 1	4 54	59	24		PC PC
Day 2	5 56		54		NLI
Day 3	6 55		82		NLI
Day 4	7 57	58	106		SM SM
Day 5	8 59	56	127		SM SM
Day 6	9 54	58	152		SM SM
Day 7	10 55	59	173		SM SM
Day 8	11 56	56	197		PC PC
Day 9	12 58		208		SM
Day 10	13 59		232		SM
Day 11	14 54	55	240		SM SM
Day 12	15 56	56	261		SM SM
Day 13	16 58	57	271		SM SM
Day 14	17 56	59	285		SM SM
Day 15	18 56	53	294		PC PC
Day 16	19 53		302		PC
Day 17	20 54		314		g
Day 18	21 56	58	337		SM SM
Day 19	22 51	50	351		SM SM
Day 20	23 50	51	361		SM SM
Day 21	24 52	50	363		SM SM

DATES PILE IS TURNED DURING THE CURING PROCESS

1st 1-30-19
 2nd 2-1-19
 3rd 2-8-19

RELEASE DATE: 2-24-19

TOWN OF CHENANGO COMPOST TESTING LOG

Date Built 6/14/19 Pile Number 2419

	Temp AM	Temp PM	Hour	Comments	Initials
Day 1 15	69		14.6.9		R
Day 2 16	70		40.16		R
Day 3 17	55	60	66.15		SM SM
Day 4 18	59	58	77.06		SM SM
Day 5 19	59	58	81.86		SM SM
Day 6 20	56	58	115.39		SM SM
Day 7 21	58	58	122.76		SM SM
Day 8 22	62		124.94		GH
Day 9 23	54		126.16		GH
Day 10 24	55	58	124.96		SM SM
Day 11 25	58	56	132.43		SM SM
Day 12 26	58	53	138.90		SM SM
Day 13 27	59	58	142.31		SM SM
Day 14 28	57	58	144.42		SM SM
Day 15 29	63		148.88		GH
Day 16 30	52		150.26		GH
Day 17 1	49	50	154.33		SM SM
Day 18 2	50	52	157.06		SM SM
Day 19 3	51	53	158.33		SM SM
Day 20 4	50		159.43		SM
Day 21 5	51	50	164.81		SM SM

DATES PILE IS TURNED DURING THE CURING PROCESS

1st 7/10/19
 2nd 7/16/19
 3rd 7/19/19

RELEASE DATE: 8/5/19

TOWN OF CHENANGO COMPOST TESTING LOG

Date Built 5/10/19

Pile Number 19/19

	Temp AM	Temp PM	Hour	Comments	Initials
Day 1 11	44		13		MG
Day 2 12	55		33	1	MG
Day 3 13	58	56	53		SM SM
Day 4 14	57	59	62		SM SM
Day 5 15	58	57	78		SM SM
Day 6 16	59	58	89		SM SM
Day 7 17	58	57	90		SM SM
Day 8 18	53		99		SM
Day 9 19	53		104		SM
Day 10 20	58	57	110		SM SM
Day 11 21	59	58	113		SM SM
Day 12 22	58	57	122		SM SM
Day 13 23	56	55	122		SM SM
Day 14 24	54		128		SM
Day 15 25	53		130		SM
Day 16 26	50		135		SM
Day 17 27	48		143		SM
Day 18 28	45	50	148		SM SM
Day 19 29	53	51	151		SM SM
Day 20 30	50	50	152		SM SM
Day 21 31	48	52	152		SM

DATES PILE IS TURNED DURING THE CURING PROCESS

1st 6/4/19
 2nd 6/6/19
 3rd 6/14/19

RELEASE DATE: 6/30/19

TOWN OF CHENANGO COMPOST TESTING LOG

Date Built 4-12-19 File Number 15/19

	Temp AM	Temp PM	Hour	Comments	Initials
Day 1 13	59		20		NK
Day 2 14	57		44		NK
Day 3 15	58	59	61		SM SM
Day 4 16	56	58	72		SM SM
Day 5 17	57	59	77		SM SM
Day 6 18	58	59	80		SM SM
Day 7 19	59		82		SM
Day 8 20	60		84		SM
Day 9 21	59		86		SM
Day 10 22	55	58	90		SM SM
Day 11 23	58	56	90		SM SM
Day 12 24	58	55	97		SM SM
Day 13 25	58	59	101		SM SM
Day 14 26	58	56	102		NK
Day 15 27	54		105		NK
Day 16 28	55		110		NK
Day 17 29	56	53	113		SM SM
Day 18 30	54	55	116		SM SM
Day 19 1	52	50	121		SM SM
Day 20 2	50	50	125		SM SM
Day 21 3	43	49	130		SM SM

DATES PILE IS TURNED DURING THE CURING PROCESS

1st 5/9/19
 2nd 5/12/19
 3rd 5/16/19

RELEASE DATE: 6/3/19

TOWN OF CHENANGO COMPOST TESTING

Date Built

1-1-

File Number

13/19

	Temp AM	Temp PM	Hour	Comments	initials
Day 1 2	51		0		SM
Day 2 3	58		.48		SM
Day 3 4	58	59	1.53		SM SM
Day 4 5	59	58	2.01		SM SM
Day 5 6	55	57	2.72		TR, M
Day 6 7		54	3.21		
Day 7 8	56	54	3.81		MC, M
Day 8 9	57		4.04		
Day 9 10	57		4.45		
Day 10 11	54		4.75		
Day 11 12	58	56	5.34		SM SM
Day 12 13	56	58	5.68		SM SM
Day 13 14	56	56	5.90		SM SM
Day 14 15	52	56	5.91		SM SM
Day 15 16	50	52	6.20		JF JT
Day 16 17	48	50	7.93		JF JP
Day 17 18	48	48	7.93		SM SM
Day 18 19	51	45	8.09		SM SM
Day 19 20	48	46	8.54		
Day 20 21	41	45	8.63		SM SM
Day 21 22	47	47	8.98		SM SM

DATES PILE IS TURNED DURING THE CURING PROCESS

1st 12-3-19
 2nd 12-6-19
 3rd 12-10-19

RELEASE DATE: 12-22-19

TOWN OF CHENANGO COMPOST TESTING LOG

Date Built 10-11-19

Pile Number 40 / 19

	Temp AM	Temp PM	Hour	Comments	Initials
Day 1 12	59		48		SM
Day 2 13	51		60		SM
Day 3 14	50 17		60		JC
Day 4 15	59	58	62	Moved prob	SM SM
Day 5 16	58	59	74		SM SM
Day 6 17	59	59	76		SM SM
Day 7 18	59	58	79		SM SM
Day 8 19					
Day 9 20					
Day 10 21	57	55	91		MC
Day 11 22	55	53	93		R L
Day 12 23	55	54	95		M MC
Day 13 24	56	58	96	Moved Prob.	SM SM
Day 14 25	58	56	138		SM SM
Day 15 26	50		141		NIC
Day 16 27	49		147		NIC
Day 17 28	50	51	146		SM SM
Day 18 29	45	44	149		SM SM
Day 19 30	47	45	149		MC
Day 20 31	47	47	155		MC
Day 21 1	43	44	159		SM SM

DATES PILE IS TURNED DURING THE CURING PROCESS

1st 11-4-19

2nd 11-13-19

11-22-19

RELEASE DATE: 12-1-19

TOWN OF CHENANGO COMPOST TESTING LOG

Date Built 9-13-19 Pile Number 36/19

	Temp AM	Temp PM	Hour	Comments	Initials
Day 1 14	56		6		SM
Day 2 15	58		24		SM
Day 3 16		59	31		AC
Day 4 17	58	58	41		SM SM
Day 5 18	54	57	51		SM SM
Day 6 19	58	58	59		SM SM
Day 7 20	58	50	01		AC
Day 8 21	57		07		AC
Day 9 22	57		11		AC
Day 10 23	57	57	76		SM SM
Day 11 24	58	58	84		SM SM
Day 12 25	57	55	88		SM SM
Day 13 26	57	59	89		SM AC
Day 14 27	57	58	93		SM SM
Day 15 28	45		97		AC
Day 16 29	45		97		AC
Day 17 30	46	47	104		SM SM
Day 18 31	45	47	106		SM SM
Day 19 1	49	49	111		SM SM
Day 20 2	50	51	115		AC AC
Day 21 3	50	50	120		SM SM

DATES PILE IS TURNED DURING THE CURING PROCESS

1st 10-8-19
 2nd 10-10-19
 3rd 10-18-19

RELEASE DATE: 11-3-19

TOWN OF CHENANGO COMPOST TESTING LOG

Date Built 8-9-19

Pile Number 31/19

	Temp AM	Temp PM	Hour	Comments	Initials
Day 1 10	58		3.31		DL
Day 2 11	56		6.99		DL
Day 3 12	59	59	14.00		SM SM
Day 4 13	59	58	16.87		SM SM
Day 5 14	58	58	17.95		AL SM
Day 6 15	59	57	21.80		SM SM
Day 7 16	59	59	23.40		SM SM
Day 8 17	59		25.81		SM
Day 9 18	57		27.70		SM
Day 10 19	58	55	30.04		SM SM
Day 11 20	57	60	31.95		SM SM
Day 12 21	60	58	34.13		SM SM
Day 13 22	58	58	36.03		SM SM
Day 14 23	57	59	37.88		AL AL
Day 15 24	58		38.88		DL
Day 16 25	59		39.91		DL
Day 17 26	57	55	41.81		SM SM
Day 18 27	54	53	42.68		SM SM
Day 19 28	53	51	43.96		SM SM
Day 20 29	53	47	49.30		SM SM
Day 21 30	52	50	50.41		JF JF

DATES PILE IS TURNED DURING THE CURING PROCESS

1st 9-5-19
 2nd 9-13-19
 3rd 9-17-19

RELEASE DATE: 9-30-19

TOWN OF CHENANGO COMPOST TESTING LOG

Date Built 7/11/19

Pile Number 27/19

	Temp AM	Temp PM	Hour	Comments	Initials
Day 1 <u>12</u>	57	58	3.18		JK
Day 2 <u>13</u>	58	57	6.30		JF
Day 3 <u>14</u>	55	56	9.25		JF
Day 4 <u>15</u>	59	59	10.69		SM SM
Day 5 <u>16</u>	57	58	11.94		SM SM
Day 6 <u>17</u>	58	56	12.91		SM SM
Day 7 <u>18</u>	58	57	13.98		SM SM
Day 8 <u>19</u>	58	59	15.03		SM SM
Day 9 <u>20</u>	59		15.7		DE
Day 10 <u>21</u>	56		16.0		DE
Day 11 <u>22</u>	59	59	16.95		SM SM
Day 12 <u>23</u>	58	57	17.72		SM SM
Day 13 <u>24</u>	55	54	18.35		SM SM
Day 14 <u>25</u>	55	51	18.36		SM SM
Day 15 <u>26</u>	51	50	19.53		SM SM
Day 16 <u>27</u>	51		20.03		SM
Day 17 <u>28</u>	50		20.34		SM
Day 18 <u>29</u>	51	51	21.10		SM SM
Day 19 <u>30</u>	49	51	21.99		SM SM
Day 20 <u>31</u>	51	50	22.44		SM SM
Day 21 <u>1</u>	49	49	23.59		SM SM

DATES PILE IS TURNED DURING THE CURING PROCESS

1st 8-9-19
 2nd 8-15-19
 3rd 8-19-19

RELEASE DATE: 9/1/19

TOWN OF CHENANGO COMPOST TESTING LOG

Date Built 1-15-19

File Number 44/19

	Temp AM	Temp PM	Hour	Comments	Initials
Day 1 16	55	56	34		JF JF
Day 2 17	55	58	71		JF JF
Day 3 18	58	59	97		SM SM
Day 4 19	58	59	110		SM SM
Day 5 20	55	56	131		AK
Day 6 21	58	57	144		SM SM
Day 7 22	57	59	164		SM SM
Day 8 23	55		190		AK
Day 9 24	56		202		AK
Day 10 25	51	57	211		SM SM
Day 11 26	56	55	221		SM SM
Day 12 27	58	56	231	Moved prob	SM SM
Day 13 28	54		244		AK
Day 14 29	53		262		AK
Day 15 30	57		273		AK
Day 16 1	58		283		AK
Day 17 2	54	53	294		SM SM
Day 18 3	48	47	319		SM SM
Day 19 4	49	50	322		SM SM
Day 20 5	48	48	337		SM SM
Day 21 6	50	50	353		SM SM

DATES PILE IS TURNED DURING THE CURING PROCESS

1st 12-12-19

2nd 12-16-19

3rd 12-18-19

RELEASE DATE: 1-6-20



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9L1098

Project Description

NYS Part 360 Subpart 4

For:

Don Benjamin

Town of Chenango

1529 NY Route 12

Binghamton, NY 13901

Customer Relationship Specialist

Renee Lantz

Thursday, January 2, 2020

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., New York Division. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9L1098

Town of Chenango

Project Name: NYS Part 360 Subpart 4

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 12/18/2019
Reported: 01/02/2020

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
Ngate Compost	J9L1098-01	Solid	Grab		12/18/19 11:30	12/18/19 15:50



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9L1098

Analytical Testing Parameters

Client Sample ID: Ngate Compost	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 12/18/2019 11:30
Lab Sample ID: J9L1098-01	

Analyses Subcontracted to: Envirotest Laboratories

Inorganics	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 351.2, Rv 2									
Total Kjeldahl Nitrogen (TKN)	22300		2180	mg/kg dry	1	Y2	12/26/19 1106	12/27/19 1505	ETL
Method: EPA 365.3, Rv 1978									
Phosphorus - Total as P	12200		1720	mg/kg dry	1	Y2	12/26/19 1604	12/27/19 1140	ETL
Method: SM2540B PSOL									
Percent Solids	57.1		0.1	% (by wt.)	1	Y2		12/26/19 1845	ETL

Analyses Subcontracted to: Microbac Laboratories Inc., - Marietta, OH

Anions by Ion Chromatography	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 9056A									
Nitrite as N	7.3		7.2	mg/kg dry	1	H		12/20/19 1848	KWD
Nitrate as N	376		32.5	mg/kg dry	3	D3, H		12/24/19 0858	KWD

General Parameters	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: ASTM D2216-10									
Percent Solids	55.3		1.00	% (by wt.)	1	Y1	12/23/19 1402	12/24/19 0723	CB

Inorganics	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 350.1, Rv 2									
Ammonia as N	8110		476	mg/kg dry	50	Y1	12/27/19 1529	12/30/19 1221	TB
Method: EPA 9045D									
pH	7.4			S.U.	1	H4	12/26/19 0605	12/26/19 1048	AWE
Method: NA									
Temperature	20.3			°C	1	H4	12/26/19 0605	12/26/19 1048	AWE
Method: SM2540 G-1997									
Total Volatile Solids - TVS	75.2			%	1	Y1	12/26/19 0831	12/27/19 1017	AWE

Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 8082A									
Aroclor-1016 (PCB-1016)	<49.2		49.2	ug/kg dry	1		12/24/19 0900	12/24/19 2020	ECL
Aroclor-1221 (PCB-1221)	<49.2		49.2	ug/kg dry	1		12/24/19 0900	12/24/19 2020	ECL
Aroclor-1232 (PCB-1232)	<49.2		49.2	ug/kg dry	1		12/24/19 0900	12/24/19 2020	ECL
Aroclor-1242 (PCB-1242)	<49.2		49.2	ug/kg dry	1		12/24/19 0900	12/24/19 2020	ECL

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9L1098

Client Sample ID: Ngate Compost	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 12/18/2019 11:30
Lab Sample ID: J9L1098-01	

Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Aroclor-1248 (PCB-1248)	<49.2		49.2	ug/kg dry	1		12/24/19 0900	12/24/19 2020	ECL
Aroclor-1254 (PCB-1254)	<49.2		49.2	ug/kg dry	1		12/24/19 0900	12/24/19 2020	ECL
Aroclor-1260 (PCB-1260)	<49.2		49.2	ug/kg dry	1		12/24/19 0900	12/24/19 2020	ECL
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	63.1	Limit: 26-138		% Rec	1		12/24/19 0900	12/24/19 2020	ECL
Surrogate: Decachlorobiphenyl (BZ-209)	46.1	Limit: 20-125		% Rec	1		12/24/19 0900	12/24/19 2020	ECL

Total Metals - AA	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 7471A									
Mercury	0.249		0.236	mg/L	1		12/21/19 0812	12/24/19 1013	KEH

Total Metals - ICP	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 6010C									
Arsenic	2.07		1.33	mg/kg dry	1		12/30/19 0633	12/30/19 1448	JYH
Beryllium	<0.133		0.133	mg/kg dry	1		12/30/19 0633	12/30/19 1448	JYH
Cadmium	0.608		0.133	mg/kg dry	1		12/30/19 0633	12/30/19 1448	JYH
Chromium	26.0		0.331	mg/kg dry	1		12/30/19 0633	12/30/19 1448	JYH
Copper	344		1.33	mg/kg dry	1		12/30/19 0633	12/30/19 1448	JYH
Lead	12.5		1.33	mg/kg dry	1		12/30/19 0633	12/30/19 1448	JYH
Molybdenum	4.11		3.98	mg/kg dry	1		12/30/19 0633	12/30/19 1448	JYH
Nickel	9.67		2.65	mg/kg dry	1		12/30/19 0633	12/30/19 1448	JYH
Potassium	6960		66.3	mg/kg dry	1		12/30/19 0633	12/30/19 1448	JYH
Selenium	3.16		1.33	mg/kg dry	1		12/30/19 0633	12/30/19 1448	JYH
Zinc	363		1.33	mg/kg dry	1		12/30/19 0633	12/30/19 1448	JYH

Definitions

- %: Percent
- % (by wt.): Percent by Weight
- °C: Degrees Celsius
- D3: Dilution was performed due to high target analyte concentration.
- H: Sample was analyzed past holding time.
- H4: The test was performed outside of the EPA recommended holding time of 15 minutes.
- MDL: Minimum Detection Limit
- mg/L: Milligrams per Liter
- RL: Reporting Limit
- S.U.: Standard Units
- Y1: Accreditation is not offered by the accrediting body for this analyte.
- Y2: Accreditation is not offered by the accrediting body for this analyte.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 3.0°C

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9L1098

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH 10861	New York State Department of Health
Microbac Laboratories, Inc., New York Division NY Lab ID No.: 10795	New York State Department of Health
EnviroTest Laboratories NY Lab ID No: 10142	New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 01/02/2020 18:52

Microbac Laboratories, Inc.

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3821 Buck Drive
Cortland, NY 13045
607.753.3403

2369 Elmira Street, Suite C
Sayre, PA 18840
570.888.0169

1620 North Main Avenue
Scranton, PA 18508
570.348.0775

4359 Linglestown Road
Harrisburg, PA 17112
717.651.9700

CHAIN OF CUSTODY RECORD

Number _____
Instructions on back

Lab Report Address

Client Name: *Town of Chenango*

Address: *1529 NY RT12*

City, State, Zip: *Binghamton NY 13901*

Contact: *Brice Carora*

Telephone No.: *607 760 5192*

Invoice Address

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.:

Turnaround Time

Routine (5 to 7 business days)
 RUSH* (notify lab)

(needed by)

Report Type

Results Only Level 1 Level 2 Level 3 Level 4 EDD

TO BE COMPLETED BY MICROBAC

Temperature Upon Receipt (°C)
Therm ID

Holding Time

Samples Received on ice? Yes No N/A

Custody Seals Intact? Yes No N/A

Send Report via: Mail Fax e-mail (address)

Send Invoice via: Mail Fax e-mail (address)

Project:

Location:

PO No.:

Compliance Monitoring? Yes No
() Agency/Program

Sampled by (PRINT):

Sampler
Signature:

Sampler Phone
No.:

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

REQUESTED ANALYSIS									
Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Additional Notes	
	<i>agate Compost</i>	<i>12-18-19</i>	<i>1130</i>	<i>1</i>	<i>G</i>		<i>364 Compost</i>		

Possible Hazard Identification Hazardous Non-Hazardous Radioactive

Comments

Sample Disposition Dispose as appropriate Return Archive

SAMPLES MUST BE RETURNED ON ICE

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
<i>Bruce Carora</i>	<i>12-18-19 1200</i>	<i>[Signature]</i>	<i>12/18/19 13:30</i>
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
<i>[Signature]</i>	<i>12/18/19 15:30</i>	<i>[Signature]</i>	<i>12/18/19 15:50</i>

J9L1098





Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9L0934

Town of Chenango

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project Name: Salmonella

Project / PO Number: N/A
Received: 12/16/2019
Reported: 12/31/2019

Note

All sample results for this work order are attached to the end of this report.

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
N.Gate WWTP - Barn	J9L0934-01	Solid	Grab		12/16/19 08:00	12/16/19 09:24



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9L0934

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 2.0°C

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 12/31/2019 17:44

Microbac Laboratories, Inc.

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BENCHMARK ANALYTICS

A Microbac Laboratory

2566 Pennsylvania AVE, Sayre, PA 18840
 Phone (570) 888-0169 Fax (570) 888-0717
FECAL COLIFORM CHAIN OF CUSTODY

Client Name: Town of Chenango Phone# 607.760.5193
 Client Address: 1529 NY RT 12
 City: Binghamton State: NY Zip Code: 13901
 Copy of Report To: _____
 Fax Report To: (\$1.00 Service Charge) _____
 Report To: _____ Bill To: _____
 Phone#: () _____ Phone#: () _____
 Name: _____ Name: _____
 Address: _____ Address: _____
 City: _____ City: _____
 State: _____ Zip: _____ State: _____ Zip: _____

SAMPLE DATA

Sample Date: 12-16-19 Sample Time: 8:00 AM PM Collected By: Burdette
 Sample Location: N gate WWTP
 Sampling Point: Bar Field Residual Chlorine _____ mg/L

ANALYSIS REQUIRED (PLEASE CHECK ALL THAT APPLY)

- Coliform Fecal [2-3 Days] \$25.63
- Coliform Fecal -- Solid Matrix includes Total Solids -7 Days \$102.50
- Coliform *E. Coli* - Meat Carcass 3-4 Days \$25.65
- Coliform *E. Coli* -- Ground Non-Beef Meat -7 Days \$56.40
- Coliform *E. Coli* H157 -- Ground Beef Meat -7 Days \$92.25
- Salmonella Solid Matrix includes Total Solids -7 Days \$102.50
- Other: Salmonella Call Laboratory for Pricing

All pricing includes certification fee

REFRIGERATE SAMPLES AFTER COLLECTION.

**TRANSPORT TO LABORATORY IN COOLER WITH ICE WITHIN 5 HOURS FOR
 FECAL WATER, 6 HOURS FOR SALMONELLA, AND 24 HOURS FOR OTHERS.**

*****FOR LABORATORY USE ONLY*****

Fecal Count: Colonies _____ per 100mLs
 Fecal Coliform: _____ MPN/g Dry weight basis
E. Coli - Meat Carcass: _____ cfu/cm²
E. Coli - Ground Meat: _____ count/g

Samples Were - _____
 Delivered by: [Signature]
 Rec'd on Ice & Temp: Y/N
 Date & Time: 12/16/19 8:00/9:20
 Received by: [Signature]
 Credit Card: Y/N
 Cash Received Amount _____
 Check# _____ \$



Chenango, Town of

Units: _____ Samples Received 20

On Ice Revised 01/08/2014



Life Science Laboratories, Inc.

Jennifer Walker
Microbac-NY
3821 Buck Drive
Cortland, NY 13045 USA

Phone: (607) 753-3403

Laboratory Analysis Report For Microbac-NY

LSL Project ID: 1920782

Receive Date/Time: 12/16/19 9:24

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody and the Shipment Condition documents submitted with these samples are considered by LSL to be an appendix of this report and may contain data qualifiers and specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

Life Science Laboratories, Inc.

LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
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LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 213-4090
Fax (585) 213-4192

LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

This report was reviewed by:


Date: 12/21/19
David J. Prichard, Director of Tech. Services

A copy of this report was sent to: jennifer.walker@microbac.com
renee.lantz@microbac.com;

Page 1 of 2
Date Printed: 12/24/19

-- LABORATORY ANALYSIS REPORT --

Microbac-NY Cortland, NY

Sample ID:	Town of Chenango	LSL Sample ID:	1920782-001
Location:	N Gate WWTP - Barn		
Sampled:	12/16/19 8:00	Sampled By:	BC
Sample Matrix:	SHW Dry Wt, Compost		

Analytical Method	Result	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 1682(2014) Salmonella by MSR/V					
Salmonella	<3	MPN/4g Dry		12/16/19 15:05	DA
<i>The NYS DOH ELAP does not offer certification for this analyte.</i>					
(1) SM 2540 G-97,-11 Total Solids					
Total Solids @ 103-105 C	54	%		12/18/19	ARJ

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

BENCHMARK ANALYTICS

A Microbac Laboratory

1920782

2566 Pennsylvania AVE, Sayre, PA

MicrobacNY_Cortl 5586

Phone (570) 888-0169 Fax (570) 888-

FECAL COLIFORM CHAIN OF CU

Client Name: Town of Chenango Phone# 6077605192

Client Address: 1529 NY RT12

City: Binghamton State: NY Zip Code: 13901

Copy of Report To: _____

Fax Report To: (\$1.00 Service Charge) _____

Report To: _____ Bill To: _____

Phone#: () _____ Phone#: () _____

Name: _____ Name: _____

Address: _____ Address: _____

City: _____ City: _____

State: _____ Zip: _____ State: _____ Zip: _____

SAMPLE DATA

Sample Date: 12-16-19 Sample Time: 800 AM PM Collected By: B. Calan

Sample Location: N gate WWTP

Sampling Point: Barn Field Residual Chlorine _____ mg/L

ANALYSIS REQUIRED (PLEASE CHECK ALL THAT APPLY)

- Coliform Fecal [2-3 Days] \$25.63
- Coliform Fecal - Solid Matrix includes Total Solids -7 Days \$102.50
- Coliform *E. Coli* - Meat Carcass 3-4 Days \$25.65
- Coliform *E. Coli* - Ground Non-Beef Meat -7 Days \$56.40
- Coliform *E. Coli* H157 - Ground Beef Meat -7 Days \$92.25
- Salmonella - Solid Matrix includes Total Solids -7 Days \$102.50
- Other: Salmonella Call Laboratory for Pricing

All pricing includes certification fee

REFRIGERATE SAMPLES AFTER COLLECTION.

TRANSPORT TO LABORATORY IN COOLER WITH ICE WITHIN 5 HOURS FOR
FECAL WATER, 6 HOURS FOR SALMONELLA, AND 24 HOURS FOR OTHERS.

*****FOR LABORATORY USE ONLY*****

Fecal Coliform Colonies: _____ per 100mLs
Fecal Coliform: _____ MPN/g Dry weight basis
E. Coli - Meat Carcass: _____ cfu/cm²
E. Coli - Ground Meat: _____ count/g
Other: _____ Result: _____ Units: _____
Samples Received _____

Samples Were -
Delivered by: [Signature]
Rec'd on Ice & Temp: Y/N °C
Date & Time: 12/16/19 8:00/9:20
Received by: [Signature] 12-16 09:24
Credit Card: Y/N
Cash Received Amount _____
Check# _____ \$

On Ice Revised 01/08/2014



Microbac Laboratories, Inc., New York Division
CERTIFICATE OF ANALYSIS

J9J1262

Town of Chenango

Project Name: Salmonella

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 10/21/2019
Reported: 11/11/2019

Note

All sample results for this work order are attached to the end of this report.

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
Northgate WWTP - Barn	J9J1262-01	Solid	Grab		10/21/19 10:15	10/21/19 10:25



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9J1262

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 6.0°C

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 11/11/2019 14:30

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com

BENCHMARK ANALYTICS

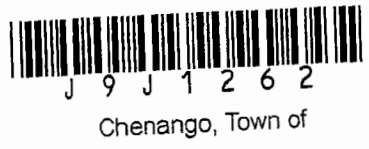
A Microbac Laboratory

2566 Pennsylvania AVE, Sayre, PA 18840
 Phone (570) 888-0169 Fax (570) 888-0717
FECAL COLIFORM CHAIN OF CUSTODY

Client Name: Town of Chenango Phone# 807 7605192
 Client Address: 1529 NY RT 12
 City: Binghamton State: NY Zip Code: 13901
 Copy of Report To: _____
 Fax Report To: (\$1.00 Service Charge) _____

Report To:
 Phone#: () _____
 Name: _____
 Address: _____
 City: _____
 State: _____ Zip: _____

Bill To:
 Phone: _____
 Name: _____
 Address: _____
 City: _____
 State: _____



SAMPLE DATA

Sample Date: 10-21-19 Sample Time: 1015 AM / PM Collected By: Daniel Connor
 Sample Location: 11 gate WWTP
 Sampling Point: Barn Field Residual Chlorine _____ mg/L

ANALYSIS REQUIRED (PLEASE CHECK ALL THAT APPLY)

- Coliform Fecal [2-3 Days] \$25.63
- Coliform Fecal -- Solid Matrix includes Total Solids -7 Days \$102.50
- Coliform *E. Coli* -- Meat Carcass 3-4 Days \$25.65
- Coliform *E. Coli* -- Ground Non-Beef Meat -7 Days \$56.40
- Coliform *E. Coli* H157 -- Ground Beef Meat -7 Days \$92.25
- Salmonella -- Solid Matrix includes Total Solids -7 Days \$102.50
- Other: Salmonella Call Laboratory for Pricing

All pricing includes certification fee

REFRIGERATE SAMPLES AFTER COLLECTION.

**TRANSPORT TO LABORATORY IN COOLER WITH ICE WITHIN 5 HOURS FOR
 FECAL WATER, 6 HOURS FOR SALMONELLA, AND 24 HOURS FOR OTHERS.**

*****FOR LABORATORY USE ONLY*****

Fecal Coliform Colonies: _____ per 100mLs
 Fecal Coliform: _____ MPN/g Dry weight basis
 E. Coli -- Meat Carcass: _____ cfu/cm²
 E. Coli -- Ground Meat: _____ count/g
 Other: _____ Result: _____ Units: _____

Samples Were -
 Delivered by: [Signature]
 Rec'd on Ice & Temp.: 6.0 °C
 Date & Time: 10/21/19 11:25
 Received by: [Signature]
 Credit Card: YTN 6.0 °C
 Cash Received Amount: _____
 Check# _____ \$ _____

Samples Received
 On Ice



Life Science Laboratories, Inc.

Jennifer Walker
Microbac-NY
3821 Buck Drive
Cortland, NY 13045 USA

Phone: (607) 753-3403

Laboratory Analysis Report For Microbac-NY

Client Project ID:

Town of Chenango

LSL Project ID: **1917789**

Receive Date/Time: 10/21/19 11:25

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody and the Shipment Condition documents submitted with these samples are considered by LSL to be an appendix of this report and may contain data qualifiers and specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

Life Science Laboratories, Inc.

LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1900
Fax (315) 445-1104

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 213-4090
Fax (585) 213-4192

LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

This report was reviewed by:

Date: 11/1/2019
Dr. Joseph L. Jeraci, Lead Techn. Director

A copy of this report was sent to: jennifer.walker@microbac.com
renee.lantz@microbac.com;

Page 1 of 2
Date Printed: 11/5/19

Page 4 of 6

-- LABORATORY ANALYSIS REPORT --

Microbac-NY Cortland, NY

Sample ID: Ngate WWTP LSL Sample ID: 1917789-001
 Location: Barn
 Sampled: 10/21/19 10:15 Sampled By: BC
 Sample Matrix: SHW Dry Wt

Analytical Method		Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result	Units			
(1) EPA 1682(2014) Salmonella by MSR/V					
Salmonella	<3	MPN/4g Dry		10/21/19 14:30	DA
<i>The NYS DOH ELAP does not offer certification for this analyte.</i>					
(1) SM 2540 G-97,-11 Total Solids					
Total Solids @ 103-105 C	63	%		10/30/19	ARJ

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

Life Science Laboratories, Inc.

BENCHMARK ANALYT 1917789

MicrobacNY_Cortland

5586

A Microbac Laboratory

2566 Pennsylvania AVE, Sayre, PA 18

Phone (570) 888-0169 Fax (570) 888-0111

FECAL COLIFORM CHAIN OF CUSTODY

Client Name: Town of Chenango Phone# 207 7605192
 Client Address: 1529 NY RT 12
 City: Binghamton State: NY Zip Code: 13901
 Copy of Report To: _____
 Fax Report To: (\$1.00 Service Charge) _____

Report To:	Bill To:
Phone#: () _____	Phone#: () _____
Name: _____	Name: _____
Address: _____	Address: _____
City: _____	City: _____
State: _____ Zip: _____	State: _____ Zip: _____

SAMPLE DATA

Sample Date: 10-21-19 Sample Time: 1015 AM/PM Collected By: Bruce Coma
 Sample Location: N gate WWTP
 Sampling Point: Barn Field Residual Chlorine _____ mg/L

ANALYSIS REQUIRED (PLEASE CHECK ALL THAT APPLY)

- Coliform Fecal [2-3 Days] \$25.63
- Coliform Fecal - Solid Matrix includes Total Solids -7 Days \$102.50
- Coliform *E. Coli* - Meat Carcass 3-4 Days \$25.65
- Coliform *E. Coli* - Ground Non-Beef Meat -7 Days \$56.40
- Coliform *E. Coli* H157 - Ground Beef Meat -7 Days \$92.25
- Salmonella - Solid Matrix includes Total Solids -7 Days \$102.50
- Other: Salmonella Call Laboratory for Pricing

All pricing includes certification fee

REFRIGERATE SAMPLES AFTER COLLECTION.

TRANSPORT TO LABORATORY IN COOLER WITH ICE WITHIN 5 HOURS FOR FECAL WATER, 6 HOURS FOR SALMONELLA, AND 24 HOURS FOR OTHERS.

*****FOR LABORATORY USE ONLY*****

Fecal Coliform Colonies: _____ per 100mLs	Samples Were -
Fecal Coliform: _____ MPN/g Dry weight basis	Delivered by: <u>[Signature]</u>
<i>E. Coli</i> - Meat Carcass: _____ cfu/cm ²	Rec'd on Ice & Temp.: <u>6.0</u> °C
<i>E. Coli</i> - Ground Meat: _____ count/g	Date & Time: <u>10/21/19 11:25</u>
Other: _____ Result: _____ Units: _____	Received by: <u>[Signature]</u>
	Credit Card: <u>YTN</u> <u>6.0</u> °C
	Cash Received Amount _____
	Check# _____ \$ _____

Samples Received
On Ice

Revised 01/08/2014



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9J1503

Analytical Testing Parameters

Client Sample ID: Compost	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 10/24/2019 11:30
Lab Sample ID: J9J1503-01	

Analyses Subcontracted to: Envirotest Laboratories

Inorganics	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 351.2, Rv 2									
Total Kjeldahl Nitrogen (TKN)	27800		1610	mg/kg Dry	1	Y2	10/29/19 0945	10/30/19 1129	ETL
Method: EPA 365.3, Rv 1978									
Phosphorus - Total as P	17900		3250	mg/kg Dry	1	Y2	11/01/19 1046	11/01/19 1620	ETL
Method: SM2540B PSOL									
Percent Solids	60.5		0.1	% by Weight	1	Y2		10/28/19 1700	ETL

Analyses Subcontracted to: Microbac Laboratories Inc., - Marietta, OH

Anions by Ion Chromatography	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 9056A									
Nitrite as N	9.6		6.6	mg/kg dry	1			10/25/19 1836	KWD
Nitrate as N	257		99.4	mg/kg dry	10	D3		10/25/19 1910	KWD

General Parameters	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: ASTM D2216-10									
Percent Solids	60.3		1.00	% (by wt.)	1	Y1	10/30/19 1325	10/31/19 0800	KMG

Inorganics	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 350.1, Rv 2									
Ammonia as N	9030		1070	mg/kg dry	125	Y1	11/04/19 1657	11/05/19 1206	APH
Method: EPA 9045D									
pH	7.7			S.U.	1	H4	10/25/19 1655	10/25/19 1705	EPT
Method: NA									
Temperature	17.5			°C	1		10/25/19 1655	10/25/19 1705	EPT
Method: SM2540 G-1997									
Total Volatile Solids - TVS	67.0			%	1	Y1	10/28/19 1238	10/29/19 1455	EPT

Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 8082A									
Aroclor-1016 (PCB-1016)	<28.4		28.4	ug/kg dry	1		10/30/19 0930	11/01/19 1532	ECL
Aroclor-1221 (PCB-1221)	<28.4		28.4	ug/kg dry	1		10/30/19 0930	11/01/19 1532	ECL
Aroclor-1232 (PCB-1232)	<28.4		28.4	ug/kg dry	1		10/30/19 0930	11/01/19 1532	ECL
Aroclor-1242 (PCB-1242)	<28.4		28.4	ug/kg dry	1		10/30/19 0930	11/01/19 1532	ECL

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9J1503

Client Sample ID: Compost	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 10/24/2019 11:30
Lab Sample ID: J9J1503-01	

Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Aroclor-1248 (PCB-1248)	<28.4		28.4	ug/kg dry	1		10/30/19 0930	11/01/19 1532	ECL
Aroclor-1254 (PCB-1254)	<28.4		28.4	ug/kg dry	1		10/30/19 0930	11/01/19 1532	ECL
Aroclor-1260 (PCB-1260)	<28.4		28.4	ug/kg dry	1		10/30/19 0930	11/01/19 1532	ECL
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	76.9	Limit: 26-138		% Rec	1		10/30/19 0930	11/01/19 1532	ECL
Surrogate: Decachlorobiphenyl (BZ-209)	58.6	Limit: 20-125		% Rec	1		10/30/19 0930	11/01/19 1532	ECL

Total Metals - AA	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 7471A									
Mercury	0.518		0.383	mg/kg dry	1		10/28/19 0658	10/29/19 0947	TMM

Total Metals - ICP	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 6010C									
Arsenic	2.03		1.29	mg/kg dry	1		10/28/19 0806	10/29/19 1744	JYH
Beryllium	<0.129		0.129	mg/kg dry	1		10/28/19 0806	10/29/19 1744	JYH
Cadmium	0.592		0.129	mg/kg dry	1		10/28/19 0806	10/29/19 1744	JYH
Chromium	26.7		0.322	mg/kg dry	1		10/28/19 0806	10/29/19 1744	JYH
Copper	306		1.29	mg/kg dry	1		10/28/19 0806	10/29/19 1744	JYH
Lead	10.3		1.29	mg/kg dry	1		10/28/19 0806	10/29/19 1744	JYH
Molybdenum	4.35		3.87	mg/kg dry	1		10/28/19 0806	10/29/19 1744	JYH
Nickel	8.80		2.58	mg/kg dry	1		10/28/19 0806	10/29/19 1744	JYH
Potassium	7030		64.5	mg/kg dry	1		10/28/19 0806	10/29/19 1744	JYH
Selenium	3.34		1.29	mg/kg dry	1		10/28/19 0806	10/29/19 1744	JYH
Zinc	338		1.29	mg/kg dry	1	B2	10/28/19 0806	10/29/19 1744	JYH

Definitions

- B2:** Target analyte is detected in the method blank at or above the reporting limit. The sample concentration is 10 times that found in the blank.
- D3:** Dilution was performed due to high target analyte concentration.
- H4:** The test was performed outside of the EPA recommended holding time of 15 minutes.
- MDL:** Minimum Detection Limit
- RL:** Reporting Limit
- Y1:** Accreditation is not offered by the accrediting body for this analyte.
- Y2:** Accreditation is not offered by the accrediting body for this analyte

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 4.6°C

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9J1503

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH 10861	New York State Department of Health
Microbac Laboratories, Inc., New York Division NY Lab ID No.: 10795	New York State Department of Health
EnviroTest Laboratories NY Lab ID No: 10142	New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 11/12/2019 18:36

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



3821 Buck Drive
Cortland, NY 13045
607.753.3403

2369 Elmira Street, Suite C
Sayre, PA 18840
670.888.0169

1620 North Main Avenue
Scranton, PA 18508
570.348.0775

4359 Linglestown Road
Harrisburg, PA 17112
717.651.9700

CHAIN OF CUSTODY RECORD

Number _____
Instructions on back

TO BE COMPLETED BY MICROBAC:

Temperature Upon Receipt (°C) _____
Therm ID _____

Holding Time _____

Samples Received on ice? Yes No N/A

Custody Seals Intact? Yes No N/A

Lab Report Address
Client Name: Town of Chenango
Address: 1529 NY RT 12
City, State, Zip: Binghamton NY 13901
Contact: Bruce Canola
Telephone No.: 607 766 5192

Invoice Address
Client Name:
Address:
City, State, Zip: (needed by)
Contact:
Telephone No.:

Turnaround Time
 Routine (6 to 7 business days)
 RUSH* (notify lab)
Report Type
 Results Only Level 1 Level 2 Level 3 Level 4 JEDD

Send Report via: Mail Fax e-mail (address)

Send Invoice via: Mail Fax e-mail (address)

Project: _____ Location: _____ PO No.: _____ Compliance Monitoring? Yes No
() Agency/Program

Sampled by (PRINT): _____ Sampler Signature: _____ Sampler Phone No.: _____

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

REQUESTED ANALYSIS

Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Requested Analysis										Addl
	Compost	10-24-19	1130	1		G		364 series										

Chenango, Town of



Possible Hazard Identification Hazardous Non-Hazardous Radioactive Sample Disposition Dispose as appropriate Return Archive

Comments
SAMPLES MUST BE RETURNED ON ICE

Relinquished By (signature) <i>Bruce Canola</i>	Date/Time 10-24-19 1200	Received By (signature) <i>[Signature]</i>	Date/Time 10/24/19 1320
Relinquished By (signature) <i>[Signature]</i>	Date/Time 10/24/19 1420	Received By (signature) <i>[Signature]</i>	Date/Time 10/24/19 1430
Relinquished By (signature) <i>[Signature]</i>	Date/Time 10/24/19 1530	Received By (signature) <i>[Signature]</i>	Date/Time 10/24/19 1530



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9J1503

Project Description

NYS Part 360 Subpart 4

For:

Don Benjamin

Town of Chenango

1529 NY Route 12

Binghamton, NY 13901

Customer Relationship Specialist

Renee Lantz

Tuesday, November 12, 2019

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc. - Dayville. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9J1503

Town of Chenango

Project Name: NYS Part 360 Subpart 4

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 10/24/2019
Reported: 11/12/2019

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
Compost	J9J1503-01	Solid	Grab		10/24/19 11:30	10/24/19 15:30



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9H1719

Town of Chenango

Project Name: NYS Part 360 Subpart 4

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 08/22/2019
Reported: 09/09/2019

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
Compost	J9H1719-01	Solid	Grab		08/22/19 11:30	08/22/19 15:40



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9H1719

Project Description

NYS Part 360 Subpart 4

For:

Don Benjamin

Town of Chenango

1529 NY Route 12

Binghamton, NY 13901

Customer Relationship Specialist

Renee Lantz

Monday, September 9, 2019

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., New York Division. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9H1719

Analytical Testing Parameters

Client Sample ID: Compost	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 08/22/2019 11:30
Lab Sample ID: J9H1719-01	

Analyses Subcontracted to: Envirotec Laboratories

Inorganics	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 351.2, Rv 2									
Total Kjeldahl Nitrogen (TKN)	18600		2740	mg/kg	1	Y2	08/26/19 1116	09/30/19 1120	ETL
Method: EPA 365.3, Rv 1978									
Phosphorus - Total as P	8460		1410	mg/kg	1	Y2	08/26/19 1453	08/26/19 1615	ETL
Method: SM2540 PSOL									
Percent Solids	70.6		0.1	% by Weight	1	Y2		08/23/19 1721	ETL

Analyses Subcontracted to: Microbac Laboratories Inc., - Marietta, OH

Anions by Ion Chromatography	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 9056A									
Nitrite as N	<5.8		5.8	mg/kg dry	1			08/23/19 1516	KWD
Nitrate as N	51.7		8.8	mg/kg dry	1			08/23/19 1516	KWD

General Parameters	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: ASTM D2216-10									
Percent Solids	68.3		1.00	% by Weight	1	Y1	08/26/19 1245	08/27/19 0710	KMG

Inorganics	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 350.1, Rv 2									
Ammonia as N	8170		555	mg/kg dry	75	Y1	08/30/19 1616	09/03/19 1241	TB
Method: EPA 9045D									
pH	8.6			pH Units	1	H4	08/23/19 1126	08/23/19 1151	AWE
Method: NA									
Temperature	19.0			°C	1	H4	08/23/19 1126	08/23/19 1151	AWE
Method: SM2540 G-1997									
Total Volatile Solids - TVS	74.9			%	1	Y1	08/29/19 1435	09/03/19 1015	AWE

Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 8082A									
Aroclor-1016 (PCB-1016)	<40.7		40.7	ug/kg dry	1		08/27/19 1420	08/28/19 1252	ECL
Aroclor-1221 (PCB-1221)	<40.7		40.7	ug/kg dry	1		08/27/19 1420	08/28/19 1252	ECL
Aroclor-1232 (PCB-1232)	<40.7		40.7	ug/kg dry	1		08/27/19 1420	08/28/19 1252	ECL
Aroclor-1242 (PCB-1242)	<40.7		40.7	ug/kg dry	1		08/27/19 1420	08/28/19 1252	ECL

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9H1719

Client Sample ID: Compost	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 08/22/2019 11:30
Lab Sample ID: J9H1719-01	

Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Aroclor-1248 (PCB-1248)	<40.7		40.7	ug/kg dry	1		08/27/19 1420	08/28/19 1252	ECL
Aroclor-1254 (PCB-1254)	50.1		40.7	ug/kg dry	1		08/27/19 1420	08/28/19 1252	ECL
Aroclor-1260 (PCB-1260)	<40.7		40.7	ug/kg dry	1		08/27/19 1420	08/28/19 1252	ECL
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	53.5	Limit: 26-138		% Rec	1		08/27/19 1420	08/28/19 1252	ECL
Surrogate: Decachlorobiphenyl (BZ-209)	42.2	Limit: 20-125		% Rec	1		08/27/19 1420	08/28/19 1252	ECL

Total Metals - AA	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 7471A									
Mercury	0.552		0.364	mg/kg dry	1	AC	08/26/19 0648	08/27/19 1614	KEH

Total Metals - ICP	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 6010C									
Arsenic	2.02		1.04	mg/kg dry	1		08/26/19 0713	08/26/19 1340	KEH
Beryllium	<0.104		0.104	mg/kg dry	1		08/26/19 0713	08/26/19 1340	KEH
Cadmium	0.579		0.104	mg/kg dry	1		08/26/19 0713	08/26/19 1340	KEH
Chromium	28.7		0.259	mg/kg dry	1		08/26/19 0713	08/26/19 1340	KEH
Copper	270		10.4	mg/kg dry	10		08/26/19 0713	08/28/19 0947	JYH
Lead	9.98		1.04	mg/kg dry	1		08/26/19 0713	08/26/19 1340	KEH
Molybdenum	<3.11		3.11	mg/kg dry	1		08/26/19 0713	08/26/19 1340	KEH
Nickel	8.73		2.07	mg/kg dry	1		08/26/19 0713	08/26/19 1340	KEH
Potassium	7480		51.8	mg/kg dry	1		08/26/19 0713	08/26/19 1340	KEH
Selenium	2.95		1.04	mg/kg dry	1		08/26/19 0713	08/26/19 1340	KEH
Zinc	328		10.4	mg/kg dry	10		08/26/19 0713	08/28/19 0947	JYH

Definitions

- AC:** Sample analyzed by method of standard additions due to post digestion spike recovery less than 50%.
- H4:** The test was performed outside of the EPA recommended holding time of 15 minutes.
- MDL:** Minimum Detection Limit
- RL:** Reporting Limit
- Y1:** Accreditation is not offered by the accrediting body for this analyte.
- Y2:** Accreditation is not offered by the accrediting body for this analyte

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 5.2°C



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9H1719

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH 10861	New York State Department of Health
Microbac Laboratories, Inc., New York Division NY Lab ID No.: 10795	New York State Department of Health
EnviroTest Laboratories NY Lab ID No: 10142	New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 09/09/2019 21:20

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



3821 Buck Drive
Cortland, NY 13045
607.753.3403

2389 Elmira Street, Suite C
Sayre, PA 18840
570.888.0169

1620 North Main Avenue
Scranton, PA 18508
570.348.0775

4359 Linglestown Road
Harrisburg, PA 17112
717.651.9700

CHAIN OF CUSTODY RECORD

Number _____
Instructions on back

TO BE COMPLETED BY MICROBAC:

Temperature Upon Receipt (°C) _____
Therm ID _____

Holding Time _____

Samples Received on Ice? Yes No N/A

Custody Seals Intact? Yes No N/A

Lab Report Address

Client Name: *Town of Chenango*

Address: *1529 NY RT 12*

City, State, Zip: *Binghamton NY 13901*

Contact: _____

Telephone No.: *607 760 5192*

Invoice Address

Client Name: _____

Address: _____

City, State, Zip: _____

Contact: _____

Telephone No.: _____

Turnaround Time

Routine (5 to 7 business days)
 RUSH* (notify lab)

(needed by)

Report Type

Results Only Level 1 Level 2 Level 3 Level 4 JEDD

Send Report via: Mail Fax e-mail (address)

Send invoice via: Mail Fax e-mail (address)

Project:

Location:

PO No.:

Compliance Monitoring? Yes No
() Agency/Program

Sampled by (PRINT):

Bruce Canova

Sampler Signature:

Bruce Canova

Sampler Phone No.:

607 760 5192

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

REQUESTED ANALYSIS

Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Address
	<i>COMPOST</i>	<i>8-22-19</i>	<i>1130</i>	<i>1</i>		<i>6</i>	<i>364 series</i>	

Chenango, Town of



Possible Hazard Identification

Hazardous Non-Hazardous Radioactive

Sample Disposition

Dispose as appropriate Return Archive

Comments

SAMPLES MUST BE RETURNED ON ICE

Relinquished By (signature)

Bruce Canova

Date/Time

8-22-19 1200

Received By (signature)

[Signature]

Date/Time

8/22/19 1345

Relinquished By (signature)

[Signature]

Date/Time

8/22/19 1440

Received By (signature)

[Signature]

Date/Time

8/22/19 1440

Relinquished By (signature)

[Signature]

Date/Time

8/22/19 1540

Received By (signature)

[Signature]

Date/Time

8/22/19 1540



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9H1421

Town of Chenango

Project Name: Salmonella

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 08/19/2019
Reported: 08/30/2019

Note

All sample results for this work order are attached to the end of this report.

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
Northgate WWTP	J9H1421-01	Solid	Grab		08/19/19 08:25	08/19/19 09:35



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9H1421

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 3.0°C

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 08/30/2018 21:56

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com

BENCHMARK ANA



J 9 H 1 4 2 1

Chenango, Town of

A Microbac Laboratory

2566 Pennsylvania AVE, Sayre,

Phone (570) 888-0169 Fax (570) 888-0717

FECAL COLIFORM CHAIN OF CUSTODY

Client Name: Town of Chenango Phone# 6077605192

Client Address: 1529 NY RT12

City: Binghamton State: NY Zip Code: 13901

Copy of Report To: _____

Fax Report To: (\$1.00 Service Charge) _____

Report To:
Phone#: () _____
Name: _____
Address: _____
City: _____
State: _____ Zip: _____

Bill To:
Phone#: () _____
Name: _____
Address: _____
City: _____
State: _____ Zip: _____

SAMPLE DATA

Sample Date: 8-19-19 Sample Time: 8:25 AM PM Collected By: Daniel

Sample Location: Ngate WWTP

Sampling Point: Compost Barn Field Residual Chlorine _____ mg/L

ANALYSIS REQUIRED (PLEASE CHECK ALL THAT APPLY)

- Coliform Fecal [2-3 Days] \$25.63
- Coliform Fecal -- Solid Matrix includes Total Solids -7 Days \$102.50
- Coliform *E. Coli* -- Meat Carcass 3-4 Days \$25.65
- Coliform *E. Coli* -- Ground Non-Beef Meat -7 Days \$56.40
- Coliform *E. Coli* H157 -- Ground Beef Meat -7 Days \$92.25
- Salmonella -- Solid Matrix includes Total Solids -7 Days \$102.50
- Other: Salmonella Call Laboratory for Pricing

All pricing includes certification fee

REFRIGERATE SAMPLES AFTER COLLECTION.

TRANSPORT TO LABORATORY IN COOLER WITH ICE WITHIN 5 HOURS FOR
FECAL WATER, 6 HOURS FOR SALMONELLA, AND 24 HOURS FOR OTHERS.

*****FOR LABORATORY USE ONLY*****

Samples Were -

Fecal Coliform Colonies. _____ per 100mLs

Delivered by: [Signature] 8/19/19

Fecal Coliform: _____ MPN/g Dry weight basis

Rec'd on Ice & Temp.: Y/N 3 °C 9:35 AM

E. Coli - Meat Carcass: _____ cfu/cm²

Date & Time: 8/19/19 09:33

E. Coli - Ground Meat: _____ count/g

Received by: [Signature]

Credit Card: Y/N

Cash Received Amount _____

Check# _____ \$ _____ Samples Received

Other: _____ Result: _____ Units: _____

On Ice

Revised 01/08/2014



Life Science Laboratories, Inc.

Jennifer Walker
Microbac-NY
3821 Buck Drive
Cortland, NY 13045 USA

Phone: (607) 753-3403


Laboratory Analysis Report For Microbac-NY

LSL Project ID: 1913734
Receive Date/Time: 08/19/19 9:33

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody and the Shipment Condition documents submitted with these samples are considered by LSL to be an appendix of this report and may contain data qualifiers and specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

Life Science Laboratories, Inc.

LSL Central Lab 5854 Butternut Drive East Syracuse, NY 13057 Tel. (315) 445-1900 Fax (315) 445-1104	LSL North Lab 131 St. Lawrence Avenue Waddington, NY 13694 Tel. (315) 388-4476 Fax (315) 388-4061	LSL Finger Lakes Lab 16 N. Main St., PO Box 424 Wayland, NY 14572 Tel. (585) 213-4090 Fax (585) 213-4192	LSL Southern Tier Office Cuba, NY Tel. (585) 209-4032 LSL MidLakes Office Canandaigua, NY Tel. (585) 728-3320
---	---	--	--

This report was reviewed by:  Date: 8/29/19
David J. Prichard, Director of Tech. Services

A copy of this report was sent to: jennifer.walker@microbac.com
renee.lantz@microbac.com;

-- LABORATORY ANALYSIS REPORT --

Microbac-NY Cortland, NY

Sample ID: Town of Chenango	LSL Sample ID: 1913734-001
Location: Ngate WWTP - Compost Barn	
Sampled: 08/19/19 8:25	Sampled By:
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		8/19/19 14:40	DA
<i>The NYS DOH ELAP does not offer certification for this analyte.</i>					
(1) SM 2540 G-97,-11 Total Solids					
Total Solids @ 103-105 C	68	%		8/20/19	CBR

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

BENCHMARK ANALYTICAL 1913734

A Microbac Laboratory

MicrobacNY_Cortl 5586

2566 Pennsylvania AVE, Sayre, PA 188

Phone (570) 888-0169 Fax (570) 888-07

FECAL COLIFORM CHAIN OF CUSTODY

Client Name: Town of Chenango Phone# 6077605192
Client Address: 1529 NY RT 12
City: Binghamton State: NY Zip Code: 13901
Copy of Report To: _____
Fax Report To: (\$1.00 Service Charge) _____

Report To:	Bill To:
Phone#: () _____	Phone#: () _____
Name: _____	Name: _____
Address: _____	Address: _____
City: _____	City: _____
State: _____ Zip: _____	State: _____ Zip: _____

SAMPLE DATA

Sample Date: 8-19-19 Sample Time: 8:25 AM PM Collected By: R. D. H.
Sample Location: Ngate WWTP
Sampling Point: Compost Barn Field Residual Chlorine _____ mg/L

ANALYSIS REQUIRED (PLEASE CHECK ALL THAT APPLY)

- | | | |
|-------------------------------------|---|-----------------------------|
| <input type="checkbox"/> | Coliform Fecal [2-3 Days] | \$25.63 |
| <input type="checkbox"/> | Coliform Fecal - Solid Matrix includes Total Solids -7 Days | \$102.50 |
| <input type="checkbox"/> | Coliform <i>E. Coli</i> - Meat Carcass 3-4 Days | \$25.65 |
| <input type="checkbox"/> | Coliform <i>E. Coli</i> - Ground Non-Beef Meat -7 Days | \$56.40 |
| <input type="checkbox"/> | Coliform <i>E. Coli</i> H157 - Ground Beef Meat -7 Days | \$92.25 |
| <input type="checkbox"/> | Salmonella - Solid Matrix includes Total Solids -7 Days | \$102.50 |
| <input checked="" type="checkbox"/> | Other: <u>Salmonella</u> <u>DDI</u> | Call Laboratory for Pricing |

All pricing includes certification fee

REFRIGERATE SAMPLES AFTER COLLECTION.

TRANSPORT TO LABORATORY IN COOLER WITH ICE WITHIN 5 HOURS FOR
FECAL WATER, 6 HOURS FOR SALMONELLA, AND 24 HOURS FOR OTHERS.

*****FOR LABORATORY USE ONLY*****

Fecal Coliform Colonies: _____ per 100mLs

Fecal Coliform: _____ MPN/g Dry weight basis

E.Coli - Meat Carcass: _____ cfu/cm²

E.Coli - Ground Meat: _____ count/g

Other: _____ Result: _____ Units: _____

Samples Were -

Delivered by: R. D. H. 8/19/19
Rec'd on Ice & Temp.: Y/N 3 °C 8:35 AM
Date & Time: 8/19/19 09:33
Received by: R. D. H.
Credit Card: Y/N
Cash Received Amount _____
Check# _____ \$

Samples Received

On Ice

Revised 01/08/2014



Microbac Laboratories, Inc., New York Division
CERTIFICATE OF ANALYSIS

J9G1051

Town of Chenango

Project Name: Salmonella

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 07/17/2019
Reported: 08/12/2019

Note

All sample results for this work order are attached to the end of this report.

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
Ngate WWTP - Compost Barn	J9G1051-01	Solid	Grab		07/17/19 08:45	07/17/19 10:10



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9F1338

Analytical Testing Parameters

Client Sample ID: Compost	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 06/20/2019 11:00
Lab Sample ID: J9F1338-01	

Analyses Subcontracted to: Microbac Laboratories Inc., - Marietta, OH

Anions by Ion Chromatography	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 9056A									
Nitrite as N	<6.6		6.6	mg/kg dry	1			06/21/19 1908	KWD
Nitrate as N	81.8		10.0	mg/kg dry	1			06/21/19 1908	KWD

General Parameters	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: ASTM D2216-10									
Percent Solids	60.2		1.00	% by Weight	1	Y1	06/24/19 1105	06/25/19 0750	ERP

Inorganics	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 350.1, Rv 2									
Ammonia as N	4480		221	mg/kg dry	25	Y1	06/27/19 1722	06/28/19 1408	TMM

Method: EPA 9045D									
pH	8.5			pH Units	1	H4	06/25/19 1135	06/25/19 1150	ADG

Method: NA									
Temperature	21.0			°C	1		06/25/19 1135	06/25/19 1150	ADG

Method: SM2540 G-1997									
Total Volatile Solids - TVS	72.2			%	1	Y1	07/01/19 0956	07/02/19 0000	ADG

Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
------------------------------------	--------	-----	----	-------	----------	------	----------	----------	---------

Method: EPA 8082A									
Aroclor-1016 (PCB-1016)	<29.5		29.5	ug/kg dry	1		06/27/19 0925	06/28/19 1223	ECL
Aroclor-1221 (PCB-1221)	<29.5		29.5	ug/kg dry	1		06/27/19 0925	06/28/19 1223	ECL
Aroclor-1232 (PCB-1232)	<29.5		29.5	ug/kg dry	1		06/27/19 0925	06/28/19 1223	ECL
Aroclor-1242 (PCB-1242)	<29.5		29.5	ug/kg dry	1		06/27/19 0925	06/28/19 1223	ECL
Aroclor-1248 (PCB-1248)	<29.5		29.5	ug/kg dry	1		06/27/19 0925	06/28/19 1223	ECL
Aroclor-1254 (PCB-1254)	<29.5		29.5	ug/kg dry	1		06/27/19 0925	06/28/19 1223	ECL
Aroclor-1260 (PCB-1260)	<29.5		29.5	ug/kg dry	1		06/27/19 0925	06/28/19 1223	ECL
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	81.2	Limit: 26-138		% Rec	1		06/27/19 0925	06/28/19 1223	ECL
Surrogate: Decachlorobiphenyl (BZ-209)	55.2	Limit: 20-125		% Rec	1		06/27/19 0925	06/28/19 1223	ECL

Total Metals - AA	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 7471A									
Mercury	<0.391		0.391	mg/kg dry	1		06/25/19 0643	06/25/19 1141	KEH

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9F1338

Client Sample ID: Compost	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 06/20/2019 11:00
Lab Sample ID: J9F1338-01	

Total Metals - ICP	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 6010C									
Arsenic	2.48		1.13	mg/kg dry	1		06/25/19 0656	06/27/19 1634	JYH
Beryllium	0.117		0.113	mg/kg dry	1		06/25/19 0656	06/27/19 1634	JYH
Cadmium	0.557		0.113	mg/kg dry	1		06/25/19 0656	06/27/19 1634	JYH
Chromium	26.9		0.282	mg/kg dry	1		06/25/19 0656	06/27/19 1634	JYH
Copper	233		1.13	mg/kg dry	1		06/25/19 0656	06/27/19 1634	JYH
Lead	10.3		1.13	mg/kg dry	1		06/25/19 0656	06/27/19 1634	JYH
Molybdenum	<3.38		3.38	mg/kg dry	1		06/25/19 0656	06/27/19 1634	JYH
Nickel	9.64		2.25	mg/kg dry	1		06/25/19 0656	06/27/19 1634	JYH
Potassium	6040		56.3	mg/kg dry	1		06/25/19 0656	06/27/19 1634	JYH
Selenium	2.10		1.13	mg/kg dry	1		06/25/19 0656	06/27/19 1634	JYH
Zinc	308		1.13	mg/kg dry	1		06/25/19 0656	06/27/19 1634	JYH

Analyses Subcontracted to: TestAmerica Buffalo

	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: Percent Moisture									
Percent Solids	61.2		0.1	%	1	Y2		07/18/19 1824	CMK

351.2 Nitrogen, Total Kjeldahl	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: 351.2									
Total Kjeldahl Nitrogen	32000	840	1900	mg/Kg dry	121	Y2	07/05/19 1700	07/07/19 1208	KEB

4500_P_E Phosphorus	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: SM 4500 P E									
Phosphorus	9800	56	140	mg/Kg dry	250	Y2	07/01/19 0800	07/01/19 1010	RP

Definitions

- H: Sample was analyzed past holding time.
- H4: The test was performed outside of the EPA recommended holding time of 15 minutes.
- MDL: Minimum Detection Limit
- RL: Reporting Limit
- Y1: Accreditation is not offered by the accrediting body for this analyte.
- Y2: Accreditation is not offered by the accrediting body for this analyte.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 4.8°C

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9F1338

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH 10861	New York State Department of Health
Microbac Laboratories, Inc., New York Division NY Lab ID No.: 10795	New York State Department of Health
TestAmerica Buffalo NY Lab IDNo.: 10026	New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 07/23/2019 18:46

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



3821 Buck Drive
Cortland, NY 13045
607.753.3403

2369 Elmira Street, Suite C
Sayre, PA 18840
670.888.0169

1820 North Main Avenue
Scranton, PA 18508
670.348.0776

4359 Lingfstown Road
Harrisburg, PA 17112
717.651.9700

CHAIN OF CUSTODY RECORD

Number _____
Instructions on back

Lab Report Address

Client Name: *Town of Chenango*

Address: *15 29 NY Rt 12*

City, State, Zip: *Binghamton NY 13901*

Contact:

Telephone No.: *607 760 5192*

Invoice Address

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.:

Turnaround Time

Routine (5 to 7 business days)
 RUSH* (notify lab)

(needed by)

Report Type

Results Only Level 1 Level 2 Level 3 Level 4 EDD

TO BE COMPLETED BY MICROBAC

Temperature Upon Receipt (°C) *4.8*
Therm ID:

Holding Time:

Samples Received on ice? Yes No N/A

Custody Seals Intact? Yes No N/A

Send Report via: Mail Fax e-mail (address)

Send Invoice via: Mail Fax e-mail (address)

Project:

Location: *Wgate Compost Barn* PO No.:

Compliance Monitoring? Yes No
() Agency/Program

Sampled by (PRINT): *Bruce Canova*

Sampler Signature: *Bruce Canova*

Sampler Phone No.: *607 760 5192*

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

REQUESTED ANALYSIS

Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Addl
	<i>Compost</i>	<i>9-20-19</i>	<i>1100</i>	<i>1</i>		<i>6</i>	<i>None</i>	



Possible Hazard Identification Hazardous Non-Hazardous Radioactive Sample Disposition Dispose as appropriate Return Archive

Comments

SAMPLES MUST BE RETURNED ON ICE

Relinquished By (signature) <i>Bruce Canova</i>	Date/Time <i>9-20-19 1200</i>	Received By (signature) <i>[Signature]</i>	Date/Time <i>9-20-19/1200</i>
Relinquished By (signature) <i>[Signature]</i>	Date/Time <i>9-20-19/1536</i>	Received By (signature) <i>[Signature]</i>	Date/Time <i>U/20/19 1536</i>
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9F1338

Town of Chenango

Project Name: NYS Part 360 Subpart 4

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 06/20/2019
Reported: 07/23/2019

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
Compost	J9F1338-01	Solid	Grab		06/20/19 11:00	06/20/19 15:36



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9G1051

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 5.0°C

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 08/12/2019 16:03

BENCHMARK ANALYTICAL



Chenango, Town of

A Microbac Laboratory

2566 Pennsylvania AVE, Sayre, NY 13840

Phone (570) 888-0169 Fax (570) 888-0717

FECAL COLIFORM CHAIN OF CUSTODY

Client Name: Town of Chenango Phone# 6077605192

Client Address: 1529 NY 2712

City: Binghamton State: NY Zip Code: 13901

Copy of Report To: _____

Fax Report To: (\$1.00 Service Charge) _____

Report To: _____

Phone#: () _____

Name: _____

Address: _____

City: _____

State: _____ Zip: _____

Bill To: _____

Phone#: () _____

Name: _____

Address: _____

City: _____

State: _____ Zip: _____

SAMPLE DATA

Sample Date: 7-17-19 Sample Time: 8:45 (AM) PM Collected By: B. Williams

Sample Location: N gate WWTP

Sampling Point: Compost Barn Field Residual Chlorine _____ mg/L

ANALYSIS REQUIRED (PLEASE CHECK ALL THAT APPLY)

- Coliform Fecal [2-3 Days] \$25.63
- Coliform Fecal - Solid Matrix includes Total Solids -7 Days \$102.50
- Coliform *E. Coli* - Meat Carcass 3-4 Days \$25.65
- Coliform *E. Coli* - Ground Non-Beef Meat -7 Days \$56.40
- Coliform *E. Coli* H157 - Ground Beef Meat -7 Days \$92.25
- Salmonella - Solid Matrix includes Total Solids -7 Days \$102.50
- Other: Salmonella Call Laboratory for Pricing

All pricing includes certification fee

REFRIGERATE SAMPLES AFTER COLLECTION.

TRANSPORT TO LABORATORY IN COOLER WITH ICE WITHIN 5 HOURS FOR
FECAL WATER, 6 HOURS FOR SALMONELLA, AND 24 HOURS FOR OTHERS.

*****FOR LABORATORY USE ONLY*****

Fecal Coliform Colonies: _____ per 100mLs

Fecal Coliform: _____ MPN/g Dry weight basis

E.Coli - Meat Carcass: _____ cfu/cm²

E.Coli - Ground Meat: _____ count/g

Other: _____ Result: _____ Units: _____

Samples Were -

Delivered by: [Signature] 7/17/19 8:45 AM

Rec'd on Ice & Temp.: Y/N _____ °C Release 10:10

Date & Time: _____ 10:15

Received by: [Signature] 7/17/19

Credit Card: Y/N _____

Cash Received Amount _____

Check# _____ \$ _____

5.0

Samples Received

Revised 01/08/2014



Life Science Laboratories, Inc.

Jennifer Walker
Microbac-NY
3821 Buck Drive
Cortland, NY 13045 USA

Phone: (607) 753-3403

Laboratory Analysis Report

For

Microbac-NY

Client Project ID:

Chenango, Town of

LSL Project ID: **1911419**

Receive Date/Time: 07/17/19 10:15

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody and the Shipment Condition documents submitted with these samples are considered by LSL to be an appendix of this report and may contain data qualifiers and specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

Life Science Laboratories, Inc.

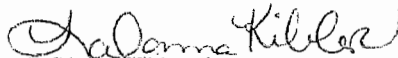
LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1900
Fax (315) 445-1104

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 728-3320
Fax (585) 728-2711

LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320


LaDonna Kibler, Quality Assurance

This report was reviewed by:

Date:

7/29/19

A copy of this report was sent to: jennifer.walker@microbac.com
renee.lantz@microbac.com;

Page 1 of 2
Date Printed: 7/29/19

Page 4 of 6

- - LABORATORY ANALYSIS REPORT - -

Microbac-NY Cortland, NY

Sample ID: Compost Barn LSL Sample ID: 1911419-001
Location: N. Gate WWTP
Sampled: 07/17/19 8:45 Sampled By:
Sample Matrix: SHW Dry Wt, Compost

Analytical Method	Prep Method	Prep	Analysis	Analyst	
Analyte	Result	Units	Date	Date & Time	Initials
(1) EPA 1682(2014) Salmonella by MSRV					
Salmonella	<3	MPN/4g Dry	7/17/19	15:45	DA/JLJ
(1) SM 2540 G-97,-11 Total Solids					
Total Solids @ 103-105 C	72	%	7/19/19		CBR

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

BENCHMARK ANALYTIC

A Microbac Laboratory

1911419

2566 Pennsylvania AVE, Sayre, PA 1884 (MicrobacNY_Cortl 5586)

Phone (570) 888-0169 Fax (570) 888-0717

FECAL COLIFORM CHAIN OF CUSTODY

Client Name: Town of Chenango Phone# 607 760 5192

Client Address: 1529 NY RT 12

City: Binghamton State: NY Zip Code: 13901

Copy of Report To: _____

Fax Report To: (\$1.00 Service Charge) _____

Report To:
Phone#: () _____
Name: _____
Address: _____
City: _____
State: _____ Zip: _____

Bill To:
Phone#: () _____
Name: _____
Address: _____
City: _____
State: _____ Zip: _____

SAMPLE DATA

Sample Date: 7-17-19 Sample Time: 8:45 (AM) PM Collected By: Burdick

Sample Location: N gate WWTP

Sampling Point: Compost Barn Field Residual Chlorine _____ mg/L

ANALYSIS REQUIRED (PLEASE CHECK ALL THAT APPLY)

- Coliform Fecal [2-3 Days] \$25.63
- Coliform Fecal - Solid Matrix includes Total Solids -7 Days \$102.50
- Coliform *E. Coli* - Meat Carcass 3-4 Days \$25.65
- Coliform *E. Coli* - Ground Non-Beef Meat -7 Days \$56.40
- Coliform *E. Coli* H157 - Ground Beef Meat -7 Days \$92.25
- Salmonella - Solid Matrix includes Total Solids -7 Days \$102.50

001 Other: salmonella Call Laboratory for Pricing

All pricing includes certification fee

REFRIGERATE SAMPLES AFTER COLLECTION.

TRANSPORT TO LABORATORY IN COOLER WITH ICE WITHIN 5 HOURS FOR
FECAL WATER, 6 HOURS FOR SALMONELLA, AND 24 HOURS FOR OTHERS.

*****FOR LABORATORY USE ONLY*****

Fecal Coliform Colonies: _____ per 100mLs

Fecal Coliform: _____ MPN/g Dry weight basis

E.Coli - Meat Carcass: _____ cfu/cm²

E.Coli - Ground Meat: _____ count/g

Other: _____ Result: _____ Units: _____

Samples Were -

Delivered by: [Signature] 7/17/19

Rec'd on Ice & Temp.: Y/N _____ °C

Date & Time: _____

Received by: [Signature] 10:15

Credit Card: Y/N _____

Cash Received Amount _____

Check# _____ \$

8:45 AM
Released
10:10
7/17/19
5.0%

Samples Received

Revised 01/08/2014

On Ice



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9D0990

Town of Chenango

Project Name: Salmonella

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 04/15/2019
Reported: 04/25/2019

Analytical Testing Parameters

Table with 4 columns: Client Sample ID, Sample Matrix, Lab Sample ID, Collected By, Collection Date. Values include N.Gate WWTP - Compost Barn, Solid, J9D0990-01, BC-Client, 04/15/2019 8:30.

Analyses Subcontracted to: LIFE SCIENCE LABORATORIES, INC.

Table for Salmonella by MSRV. Columns: Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Salmonella, <3, 3, MPN/4g dry, Y2, 04/15/19 1430, DA.

Table for Total Solids. Columns: Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Total Solids @ 103-105 C, 60, 0.1, %, Y2, 04/15/19 0000, MM2.

Results in bold have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Definitions

- RL: Reporting Limit
Y2: Accreditation is not offered by the accrediting body for this analyte.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 0.0°C

Cooler Inspection Checklist

Checklist table with 4 columns: Question, Yes/No, Question, Yes/No. Items include Ice Present, Custody seals, COC information, Sample collector, Containers Received, etc.

Project Requested Certification(s)

Life Science Laboratories, Inc.
NY Lab ID No.: 10248

New York State Department of Health



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9D0990

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

A handwritten signature in black ink that reads "Renee Lantz". The signature is written in a cursive style with a large, sweeping initial 'R'.

Renee Lantz

Customer Relationship Specialist

Reported: 04/25/2019 09:58

B1



YTICS

Chenango, Town of

2566 Pennsylvania Ave, Sayre, PA 18840
Phone (570) 888-0169 Fax (570) 888-0717
FECAL COLIFORM CHAIN OF CUSTODY

Client Name: Town of Chenango Phone# 6077605792
Client Address: 1529 NY Rt 12
City: Binghamton State: NY Zip Code: 13901
Copy of Report To:
Fax Report To: (\$1.00 Service Charge)

Report To: Bill To:
Phone#: () Phone#: ()
Name: Name:
Address: Address:
City: City:
State: Zip: State: Zip:

SAMPLE DATA

Sample Date: 4-15-19 Sample Time: 830 AM/PM Collected By: [Signature]
Sample Location: Ngate WWTP
Sampling Point: Compost Barn Field Residual Chlorine mg/l.

ANALYSIS REQUIRED (PLEASE CHECK ALL THAT APPLY)

- Coliform Fecal [2-3 Days] \$25.63
Coliform Fecal - Solid Matrix includes Total Solids -7 Days \$102.50
Coliform E. Coli - Meat Carcass 3-4 Days \$25.65
Coliform E. Coli - Ground Non-Beef Meat -7 Days \$56.40
Coliform E. Coli H157 - Ground Beef Meat -7 Days \$92.25
Salmonella - Solid Matrix includes Total Solids -7 Days \$102.50
Other: Salmonella Call Laboratory for Pricing

All pricing includes certification fee

REFRIGERATE SAMPLES AFTER COLLECTION.

TRANSPORT TO LABORATORY IN COOLER WITH ICE WITHIN 5 HOURS FOR
FECAL WATER, 6 HOURS FOR SALMONELLA, AND 24 HOURS FOR OTHERS.

*****FOR LABORATORY USE ONLY*****

Fecal Coliform Colonies: per 100mLs
Fecal Coliform: MPN/g Dry weight basis
E.Coli - Meat Carcass: cfu/cm2
E.Coli - Ground Meat: count/g
Other: Result: Units:
Samples Were -
Delivered by: [Signature]
Rec'd on Ice & Temp: Y/N 0°C
Date & Time: 4/15/19 10:11
Received by: [Signature] 4-15-19 10 14
Credit Card: Y/N
Cash Received Amount
Check# \$
Samples Received
On Ice

Revised 01/08/2014



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9D1532

Analytical Testing Parameters

Client Sample ID: Compost	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 04/26/2019 12:00
Lab Sample ID: J9D1532-01	

Analyses Subcontracted to: Microbac Laboratories Inc., - Marietta, OH

Anions by Ion Chromatography	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 9056A									
Nitrite as N	<6.4		6.4	mg/kg dry	1	H1		04/30/19 1126	KWD
Nitrate as N	<9.6		9.6	mg/kg dry	1	H1		04/30/19 1126	KWD
General Parameters	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: ASTM D2216-10									
Percent Solids	62.7		1.00	% by Weight	1	Y1	05/06/19 1323	05/07/19 0750	KMG
Inorganics	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 350.1, Rv 2									
Ammonia as N	6250		859	mg/kg dry	125	Y1	05/01/19 1707	05/02/19 1138	TB
Method: EPA 9045D									
pH	8.4			pH Units	1		05/01/19 1034	05/01/19 1449	AWE
Method: NA									
Temperature	21.8			°C	1		05/01/19 1034	05/01/19 1449	AWE
Method: SM2540 G-1997									
Total Volatile Solids - TVS	77.5			%	1	Y	05/06/19 1720	05/09/19 0000	ADG
Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 8082A									
Aroclor-1016 (PCB-1016)	<26.3		26.3	ug/kg dry	1		05/01/19 1223	05/03/19 1508	ECL
Aroclor-1221 (PCB-1221)	<26.3		26.3	ug/kg dry	1		05/01/19 1223	05/03/19 1508	ECL
Aroclor-1232 (PCB-1232)	<26.3		26.3	ug/kg dry	1		05/01/19 1223	05/03/19 1508	ECL
Aroclor-1242 (PCB-1242)	<26.3		26.3	ug/kg dry	1		05/01/19 1223	05/03/19 1508	ECL
Aroclor-1248 (PCB-1248)	<26.3		26.3	ug/kg dry	1		05/01/19 1223	05/03/19 1508	ECL
Aroclor-1254 (PCB-1254)	<26.3		26.3	ug/kg dry	1		05/01/19 1223	05/03/19 1508	ECL
Aroclor-1260 (PCB-1260)	<26.3		26.3	ug/kg dry	1		05/01/19 1223	05/03/19 1508	ECL
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	50.6	Limit: 29-133		% Rec	1		05/01/19 1223	05/03/19 1508	ECL
Surrogate: Decachlorobiphenyl (BZ-209)	80.4	Limit: 50-125		% Rec	1		05/01/19 1223	05/03/19 1508	ECL
Total Metals - AA	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 7471A									
Mercury	<0.377		0.377	mg/kg dry	1		05/02/19 0825	05/02/19 1431	KEH

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9D1532

Client Sample ID: Compost	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 04/26/2019 12:00
Lab Sample ID: J9D1532-01	

Total Metals - ICP	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 6010C									
Arsenic	2.21		1.21	mg/kg dry	1		05/01/19 0848	05/07/19 1203	PDM
Beryllium	<0.121		0.121	mg/kg dry	1		05/01/19 0848	05/07/19 1203	PDM
Cadmium	0.491		0.121	mg/kg dry	1		05/01/19 0848	05/07/19 1203	PDM
Chromium	21.2		0.304	mg/kg dry	1		05/01/19 0848	05/07/19 1203	PDM
Copper	192		1.21	mg/kg dry	1		05/01/19 0848	05/07/19 1203	PDM
Lead	8.84		1.21	mg/kg dry	1		05/01/19 0848	05/07/19 1203	PDM
Molybdenum	<3.64		3.64	mg/kg dry	1		05/01/19 0848	05/07/19 1203	PDM
Nickel	9.94		2.43	mg/kg dry	1		05/01/19 0848	05/07/19 1203	PDM
Potassium	6500		60.7	mg/kg dry	1		05/01/19 0848	05/07/19 1203	PDM
Selenium	1.61		1.21	mg/kg dry	1		05/01/19 0848	05/07/19 1203	PDM
Zinc	247		1.21	mg/kg dry	1		05/01/19 0848	05/07/19 1203	PDM

Analyses Subcontracted to: Test America - Nashville

351.2 Nitrogen, Total Kjeldahl	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: 351.2									
Kjeldahl Nitrogen as N	21000		720	mg/Kg dry	20	Y2	05/03/19 0859	05/06/19 1246	DRR

365.4 Phosphorus, Total	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: 365.4									
Phosphorus, Total	9600		690	mg/Kg dry	50	Y2	05/03/19 1215	05/07/19 0718	REM

Percent Moisture	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: Moisture									
Percent Solids	69.3		0.1	%	1	Y2		05/06/19 2058	JKG

Definitions

- H1: Sample was received past holding time.
- H1: Sample was received past holding time.
- H3: Sample was extracted/prepared within holding time but analyzed past holding time.
- H4: The test was performed outside of the EPA recommended holding time of 15 minutes.
- MDL: Minimum Detection Limit
- RL: Reporting Limit
- Y: This analyte is not on the laboratory's current scope of accreditation.
- Y1: Accreditation is not offered by the accrediting body for this analyte.
- Y2: Accreditation is not offered by the accrediting body for this analyte.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 5.5°C

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9D1532

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH 10861	New York State Department of Health
Microbac Laboratories, Inc., New York Division NY Lab ID No.: 10795	New York State Department of Health
Test America - Nashville NY Lab ID No:11342	New York State Department of Health
PA DEP ID: 68-00540	Pennsylvania Department of Environmental Protection

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 06/03/2019 21:16

Microbac Laboratories, Inc.

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3821 Buck Drive
Cortland, NY 13045
607.753.3403

2369 Elmira Street, Suite C
Sayre, PA 18840
570.888.0189

1620 North Main Avenue
Scranton, PA 18608
570.348.0775

4359 Linglestown Road
Harrisburg, PA 17112
717.651.9700

CHAIN OF CUSTODY RECORD

Number _____
Instructions on back

Lab Report Address

Client Name: *Town of Chenango*
Address: *1529 NY RT12*
City, State, Zip: *Binghamton NY 13901*
Contact: *Bruce Canova*
Telephone No.: *607 7605192*

Invoice Address

Client Name:
Address:
City, State, Zip:
Contact:
Telephone No.:

Turnaround Time

Routine (5 to 7 business days)
 RUSH* (notify lab)

TO BE COMPLETED BY MICROBAC

Temperature Upon Receipt (°C) *9.5*
Therm ID _____
Holding Time _____
Samples Received on Ice? Yes No N/A
Custody Seals Intact? Yes No N/A

Send Report via: Mail Fax e-mail (address)

Send Invoice via: Mail Fax e-mail (address)

Project: *364 Series Compost*

Location: *UG WWTP compost* DAPA No.:

Compliance Monitoring? Yes No
() Agency/Program

Sampled by (PRINT):

Sampler Signature:

Sampler Phone No.:

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)
** Preservative Types: (1) HNO₃, (2) H₂SO₄, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

REQUESTED ANALYSIS

Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Additional
	<i>Compost</i>	<i>4-26-19</i>	<i>1200</i>	<i>1</i>		<i>6</i>	<i>364 Series ✓</i>	

Chenango, Town of



Possible Hazard Identification

Hazardous Non-Hazardous Radioactive

Sample Disposition

Dispose as appropriate Return Archive

Comments

SAMPLES MUST BE RETURNED ON ICE

Relinquished By (signature)

Date/Time

Bruce Canova

4-26-19 1200

Received By (signature)

Date/Time

[Signature]

4-26-19 1450

Relinquished By (signature)

Date/Time

[Signature]

4-26-19 1535

Received By (signature)

Date/Time

[Signature]

4-26-19 1535

Relinquished By (signature)

Date/Time

Received By (signature)

Date/Time



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9D1532

Town of Chenango

Project Name: NYS Part 360 Subpart 4

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 04/26/2019
Reported: 06/03/2019

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
Compost	J9D1532-01	Solid	Grab		04/26/19 12:00	04/26/19 15:35



Microbac Laboratories, Inc., New York Division
CERTIFICATE OF ANALYSIS

J9C0956

Town of Chenango

Project Name: NYS Part 360 Subpart 4

Don Benjamin
 1529 NY Route 12
 Binghamton, NY 13901

Project / PO Number: N/A
 Received: 03/14/2019
 Reported: 03/22/2019

Analytical Testing Parameters

Client Sample ID: Compost	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 03/14/2019 14:35
Lab Sample ID: J9C0956-01	

Analyses Subcontracted to: Microbac Laboratories, Inc. - Ohio Valley

	Result	MDL	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA160.4								
Total Volatile Solids	85.7	1	1	%			03/19/19 0610	AWE

Definitions

MDL: Minimum Detection Limit
RL: Reporting Limit

Cooler Receipt Log

Cooler ID: Default Cooler **Temp:** 2.8°C

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories, Inc., New York Division
 NY Lab ID No.: 10795
 Microbac Laboratories, Inc. - Ohio Valley
 VA ID: 460187
 NJ DEP ID: OH004
 NY Lab ID No.: 10861
 PA DEP ID: 68-01670

New York State Department of Health
 Commonwealth of Virginia (VELAP)
 New Jersey Department of Environmental Protection
 New York State Department of Health
 Pennsylvania Department of Environmental Protection

Microbac Laboratories, Inc.

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-- LABORATORY ANALYSIS REPORT --

Microbac-NY Cortland, NY

Sample ID: Town of Chenango LSL Sample ID: 1902200-001
Location: N Gate WWTP - Compost Barn
Sampled: 02/18/19 8:00 Sampled By:
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 MSR/V				
Salmonella	<3 mpn/4gDry		2/18/19 15:20	DA
<i>The NYS DOH ELAP does not offer certification for this analyte.</i>				
(1) SM 2540 G-97,-11 Total Solids				
Total Solids @ 103-105 C	57 %		2/18/19	MM2

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

rptC001

Life Science Laboratories, Inc.

Page 2 of 2
Date Printed: 02/19/19

Page 4 of 5



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9B1281

Town of Chenango

Project Name: NYS Part 360 Subpart 4

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 02/26/2019
Reported: 03/14/2019

Case Narrative

Microbac OVD:

METHOD

Analysis EPA 160.4(Total Volatile Solids)

SAMPLES

Samples: The sample was dried for four days and weights were taken over 12 times. The sample would not dry to a constant weight. No result can be reported.

Analytical Testing Parameters

Table with 4 columns: Client Sample ID, Sample Matrix, Lab Sample ID, Collected By, Collection Date. Values include Compost, Solid, J9B1281-01, BC-Client, 02/26/2019 12:00.

Analyses Subcontracted to: Microbac Laboratories, Inc. - Ohio Valley

Main data table with 9 columns: Method, Result, MDL, RL, Units, Note, Prepared, Analyzed, Analyst. Rows include Corrosivity pH, Temperature At Determination (C), Common anions (Nitrate, Nitrite), Mercury (Total), and Metals by 6010 (Arsenic, Beryllium, Cadmium, Chromium, Copper, Lead, Molybdenum, Nickel, Potassium, Selenium, Zinc).

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9B1281

Client Sample ID: Compost	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 02/26/2019 12:00
Lab Sample ID: J9B1281-01	

NH3	Result	MDL	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA350.1								
Nitrogen, Ammonia	7290	191	382	mg/kg DRY	Y2	03/01/19 1501	03/04/19 1355	TB

PCB SOLID	Result	MDL	RL	Units	Note	Prepared	Analyzed	Analyst
Method: 8082A								
Aroclor-1016	<14.9	14.9	29.9	ug/kg DRY		02/28/19 1056	03/04/19 1152	ECL
Aroclor-1221	<14.9	14.9	29.9	ug/kg DRY		02/28/19 1056	03/04/19 1152	ECL
Aroclor-1232	<14.9	14.9	29.9	ug/kg DRY		02/28/19 1056	03/04/19 1152	ECL
Aroclor-1242	<14.9	14.9	29.9	ug/kg DRY		02/28/19 1056	03/04/19 1152	ECL
Aroclor-1248	<14.9	14.9	29.9	ug/kg DRY		02/28/19 1056	03/04/19 1152	ECL
Aroclor-1254	<14.9	14.9	29.9	ug/kg DRY		02/28/19 1056	03/04/19 1152	ECL
Aroclor-1260	<14.9	14.9	29.9	ug/kg DRY		02/28/19 1056	03/04/19 1152	ECL
Surrogate: 2,4,5,6-Tetrachloro-m-Xylene	75.5		Limit: 29-133	% Rec		02/28/19 1056	03/04/19 1152	ECL
Surrogate: Decachlorobiphenyl	47.1		Limit: 50-125	% Rec	*	02/28/19 1056	03/04/19 1152	ECL

Percent Solids	Result	MDL	RL	Units	Note	Prepared	Analyzed	Analyst
Method: ASTM D2216-10								
Percent Solids	57.2	1.00	1.00	weight %	Y2		03/06/19 1220	KMG

Analyses Subcontracted to: Test America - Nashville

Inorganics	Result	MDL	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 351.2, Rv 2								
Total Kjeldahl Nitrogen (TKN)	41000		1100	mg/kg		03/04/16 0851	03/06/19 1235	TAN
Method: EPA 365.4								
Phosphorus - Total as P	18000		1800	mg/kg		03/04/19 0951	03/06/19 1531	TAN
Method: SM2540 G-1997								
Percent Solids	55.7		0.1	% by Weight			03/03/19 1235	TAN

Definitions

- *: Surrogate or spike compound out of range
- J: The analyte was positively identified, but the quantitation was below the RL
- MDL: Minimum Detection Limit
- RL: Reporting Limit
- Y2: Accreditation is not offered by the accrediting body for this analyte

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 4.7°C

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9B1281

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories, Inc., New York Division
NY Lab ID No.: 10795

New York State Department of Health

Microbac Laboratories, Inc. - Ohio Valley
VA ID: 460187

Commonwealth of Virginia (VELAP)

NJ DEP ID: OH004

New Jersey Department of Environmental Protection

NY Lab ID No.: 10861

New York State Department of Health

PA DEP ID: 68-01670

Pennsylvania Department of Environmental Protection

Test America - Nashville

NY Lab ID No.: 11342

New York State Department of Health

PA DEP ID: 68-00540

Pennsylvania Department of Environmental Protection

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz

Customer Relationship Specialist

Reported: 03/14/2019 15:03

Microbac Laboratories, Inc.

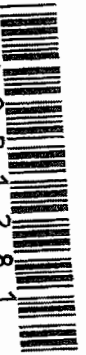
3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com

3821 Buck Drive
 Cortland NY 13045
 Phone: (607) 753-3463 Fax: (607) 753-3415
 NY #10795, EPA #NY00095

Microbac Laboratories, Inc.

CHAIN OF CUSTODY

Client Information		Billing/Invoice:	Analysis Requested		Receiving Info (Lab Use Only)
Name: Town of Chenango			364 Series		Ice: YES NO
Address: 1529 NY Route 12 Binghamton, NY 13901					Cooler: YES NO
Contact: Bruce Canova					Sample Temp: 4.7
Phone: 607 760 5192					Cooler Seal: YES NO
Project:			Pickup: YES NO		Dropoff: C W
Quote ID: PO#:			Accepted? YES NO		
Rush TAT Bus. Days: <2 2-5 5-7 7-10 Date Req.:			Glass	Container Material	
Carbon Copy: Yes			32oz	Container Size (In ML)	
Email Results: Yes			None	Preservative	
Fax Results: Yes			Sample Information		
			Description/Location		Date
			Time	Initial	Matrix Type
			1	Sledge	
			2	Compost	2-26-19 1200 PC
			3		
			4		
			5		
			6		
			7		
			8		
			Comments/Field Data		
Print Name and Company		Signature	Date/Time	Comments	
Sampled: Bruce Canova Town of Chenango		Bruce Canova	2-26-19/1200	Dioxins are subcontracted Pace	
Received: E.J. Tamm		[Signature]	2-26-19 1545		
Received: Keyla Conway		[Signature]	2/26/19 1545		
Received:					
Microbac Laboratories (MNY) may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by MNY of the intent to subcontract and are in agreement with this action.					



BENCHMARK ANAL 1902200

A Microbac Laboratory

MicrobacNY_Cortland

5588

2566 Pennsylvania AVE, Sayre, 1

Phone (570) 888-0169 Fax (570) 888-0717

FECAL COLIFORM CHAIN OF CUSTODY

Client Name: Town of Chenango Phone# 607 766 5192

Client Address: 1529 NY RT 12

City: Binghamton State: NY Zip Code: 13901

Copy of Report To: _____

Fax Report To: (\$1.00 Service Charge) _____

Report To:
Phone#: () _____
Name: _____
Address: _____
City: _____
State: _____ Zip: _____

Bill To:
Phone#: () _____
Name: _____
Address: _____
City: _____
State: _____ Zip: _____

SAMPLE DATA

Sample Date: 2-18-19 Sample Time: 800 AM PM Collected By: Bruce Green

Sample Location: N gate WWTP

Sampling Point: Compost Barn Field Residual Chlorine _____ mg/L

ANALYSIS REQUIRED (PLEASE CHECK ALL THAT APPLY)

- Coliform Fecal [2-3 Days] \$25.63
- Coliform Fecal -- Solid Matrix includes Total Solids -7 Days \$102.50
- Coliform *E. Coli* -- Meat Carcass 3-4 Days \$25.65
- Coliform *E. Coli* -- Ground Non-Beef Meat -7 Days \$56.40
- Coliform *E. Coli* H157 -- Ground Beef Meat -7 Days \$92.25
- Salmonella -- Solid Matrix includes Total Solids -7 Days \$102.50
- Other: Salmonella Call Laboratory for Pricing

All pricing includes certification fee

REFRIGERATE SAMPLES AFTER COLLECTION.

TRANSPORT TO LABORATORY IN COOLER WITH ICE WITHIN 5 HOURS FOR
FECAL WATER, 6 HOURS FOR SALMONELLA, AND 24 HOURS FOR OTHERS.

*****FOR LABORATORY USE ONLY*****

Fecal Coliform Colonies: _____ per 100mLs

Fecal Coliform: _____ MPN/g Dry weight basis

E. Coli -- Meat Carcass: _____ cfu/cm²

E. Coli - Ground Meat: _____ count/g

Other: _____ Result: _____ Units: _____

Samples Were -

Delivered by: [Signature]

Rec'd on Ice & Temp. Y/N °C

Date & Time: 2/18/19 9:24

Received by: [Signature] 2/18/19 09:24

Credit Card: Y/N 0/C

Cash Received Amount _____

Check# _____ \$ Samples Received

On Ice

Revised 01/08/2014



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9B0925

Town of Chenango

Project Name: Salmonella

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 02/18/2019
Reported: 02/26/2019

Narrative

All sample results for this work order are attached to the end of this report.

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 02/26/2019 20:38

Microbac Laboratories, Inc.

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Page 1 of 5

B



J 9 B 0 9 2 5

YTICS

Chenango, Town of

2500 PENNSYLVANIA AVE, SAYRE, PA 18840

Phone (570) 888-0169 Fax (570) 888-0717

FECAL COLIFORM CHAIN OF CUSTODY

Client Name: Town of Chenango Phone# 607 760 5192

Client Address: 1529 NY RT 12

City: Binghamton State: NY Zip Code: 13901

Copy of Report To: _____

Fax Report To: (\$1.00 Service Charge) _____

Report To:	Bill To:
Phone#: () _____	Phone#: () _____
Name: _____	Name: _____
Address: _____	Address: _____
City: _____	City: _____
State: _____ Zip: _____	State: _____ Zip: _____

SAMPLE DATA

Sample Date: 2-18-19 Sample Time: 800 AM PM Collected By: Bruce Lee

Sample Location: N gate WWT

Sampling Point: Compost Barn Field Residual Chlorine _____ mg/L

ANALYSIS REQUIRED (PLEASE CHECK ALL THAT APPLY)

- Coliform Fecal [2-3 Days] \$25.63
- Coliform Fecal - Solid Matrix includes Total Solids -7 Days \$102.50
- Coliform E. Coli - Meat Carcass 3-4 Days \$25.65
- Coliform E. Coli - Ground Non-Beef Meat -7 Days \$56.40
- Coliform E. Coli H157 - Ground Beef Meat -7 Days \$92.25
- Salmonella - Solid Matrix includes Total Solids -7 Days \$102.50
- Other: Salmonella Call Laboratory for Pricing

All pricing includes certification fee

REFRIGERATE SAMPLES AFTER COLLECTION.

TRANSPORT TO LABORATORY IN COOLER WITH ICE WITHIN 5 HOURS FOR FECAL WATER, 6 HOURS FOR SALMONELLA, AND 24 HOURS FOR OTHERS.

*****FOR LABORATORY USE ONLY*****

Fecal Coliform Colonies: _____ per 100mLs

Fecal Coliform: _____ MPN/g Dry weight basis

E. Coli - Meat Carcass: _____ cfu/cm²

E. Coli - Ground Meat: _____ count/g

Other: _____ Result: _____ Units: _____

Samples Were -

Delivered by: [Signature]

Rec'd on Ice & Temp. Y/N °C

Date & Time: 2/18/19 9:24

Received by: [Signature] 2/18/19 09:24

Credit Card: Y/N

Cash Received Amount _____

Check# _____ \$ _____

Revised 01/08/2014



Life Science Laboratories, Inc.

Jennifer Walker
Microbac-NY
3821 Buck Drive
Cortland, NY 13045 USA

Phone: (607) 753-3403

Laboratory Analysis Report

Prepared For

Microbac-NY

LSL Project ID: 1902200

Receive Date/Time: 02/18/19 9:24

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody and the Sample Receipt documents submitted with these samples are considered by LSL to be an appendix of this report and may contain data qualifiers and specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1900
Fax (315) 445-1104
NYS DOH ELAP #10248

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 728-3320
Fax (585) 728-2711
NYS DOH ELAP #11667

LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

Reviewed by:

Date:

2/25/19

Dr. Joseph L. Jeraci, Lead Tech. Director

A copy of this report was sent to:

Pamela.Brown@microbac.com

Date Printed:

Page 1 of 2
2/25/19

Page 3 of 5



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9C0956

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.


Reviewed and Approved By:

A handwritten signature in black ink that reads "Renee Lantz".

Renee Lantz
Customer Relationship Specialist
Reported: 03/22/2019 16:52

3521 Buck Drive
 Corland NY 13045
 Phone: (807)753-3403 Fax: (807)753-3415
 NY #10795, EPA #NYU0935

Microbac Laboratories, Inc. CHAIN OF CUSTODY

Client Information			Billing/Invoice:			Analysis Requested			Receiving Info (Lab Use Only)		
Name: Town of Chenango			Address: 1529 NY Route 12 Binghamton, NY 13901			Contact: Bruce Canova			Phone: _____		
Project: _____			Quote ID: _____			PO#: _____			Ice: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
Rush TAT Bus, Days: <2 2-5 6-7 7-10			Date Req.: _____			Glass			Cooler: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
Carbon Copy: Yes			Email Results: Yes			Fax Results: Yes			Sample Temp: 2-8		
						3oz			Cooler Seal: YES <input type="checkbox"/> NO <input type="checkbox"/>		
						None			Pickup: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
Sample Information			Matrix			Container Material			Dropoff:		
Description/Location			Date			Time			Initial		
									C W		
1 Sludge									Accepted? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
2 Compost			3/14/19			235			Container Size (In Mil)		
									Preservative		
									Comments/Field Data		
									 Chenango, Town of J 9 C 0 9 5 6		
Print Name and Company			Signature			Date/Time			Comments		
Sampled: Bruce Canova Town of Chenango			<i>[Signature]</i>			3-14-19 240			Dioxins are subcontracted Pace		
Received: Thomas Webster			<i>[Signature]</i>			3-14-19/1440					
Received: Thomas Webster			<i>[Signature]</i>			3-14-19/1590					
Received: Kenya Conway			<i>[Signature]</i>			3/14/19 1590					
Microbac Laboratories (MNY) may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by MNY of the intent to subcontract and are in agreement with this action.											



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9B0925

Town of Chenango

Project Name: Salmonella

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 02/18/2019
Reported: 02/26/2019

Narrative

All sample results for this work order are attached to the end of this report.

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 02/26/2019 20:38

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com

B



J 9 B 0 9 2 5

Chenango, Town of

YTICS

2500 PENNSYLVANIA AVE, Sayre, PA 18840

Phone (570) 888-0169 Fax (570) 888-0717

FECAL COLIFORM CHAIN OF CUSTODY

Client Name: Town of Chenango Phone# 607 760 5192

Client Address: 1529 NY RT 12

City: Binghamton State: NY Zip Code: 13901

Copy of Report To: _____

Fax Report To: (\$1.00 Service Charge) _____

Report To:	Bill To:
Phone#: () _____	Phone#: () _____
Name: _____	Name: _____
Address: _____	Address: _____
City: _____	City: _____
State: _____ Zip: _____	State: _____ Zip: _____

SAMPLE DATA

Sample Date: 2-18-19 Sample Time: 8:00 AM PM Collected By: Brian Lee

Sample Location: N gate WWT

Sampling Point: Compost Barn Field Residual Chlorine _____ mg/L

ANALYSIS REQUIRED (PLEASE CHECK ALL THAT APPLY)

- Coliform Fecal [2-3 Days] \$25.63
- Coliform Fecal - Solid Matrix includes Total Solids -7 Days \$102.50
- Coliform *E. Coli* - Meat Carcass 3-4 Days \$25.65
- Coliform *E. Coli* - Ground Non-Beef Meat -7 Days \$56.40
- Coliform *E. Coli* H157 - Ground Beef Meat -7 Days \$92.25
- Salmonella - Solid Matrix includes Total Solids -7 Days \$102.50
- Other: Salmonella Call Laboratory for Pricing

All pricing includes certification fee

REFRIGERATE SAMPLES AFTER COLLECTION.

**TRANSPORT TO LABORATORY IN COOLER WITH ICE WITHIN 5 HOURS FOR
FECAL WATER, 6 HOURS FOR SALMONELLA, AND 24 HOURS FOR OTHERS.**

*****FOR LABORATORY USE ONLY*****

Fecal Coliform Colonies: _____ per 100mLs

Fecal Coliform: _____ MPN/g Dry weight basis

E.Coli - Meat Carcass: _____ cfu/cm²

E.Coli - Ground Meat: _____ count/g

Other: _____ Result: _____ Units: _____

Samples Were -

Delivered by: [Signature]
 Rec'd on Ice & Temp. 5 °C
 Date & Time: 2/18/19 9:24
 Received by: [Signature] 2/18/19 09:24
 Credit Card: Y/N 0
 Cash Received Amount _____
 Check# _____ \$ _____

Revised 01/08/2014



Life Science Laboratories, Inc.

Jennifer Walker
Microbac-NY
3821 Buck Drive
Cortland, NY 13045 USA

Phone: (607) 753-3403

Laboratory Analysis Report Prepared For Microbac-NY

LSL Project ID: 1902200

Receive Date/Time: 02/18/19 9:24

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody and the Sample Receipt documents submitted with these samples are considered by LSL to be an appendix of this report and may contain data qualifiers and specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1900
Fax (315) 445-1104
NYS DOH ELAP #10248

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
Tel. (585) 728-3320
Fax (585) 728-2711
NYS DOH ELAP #11667

LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

Reviewed by:

Date:

2/25/19

Dr. Joseph L. Jeraci, Lead Tech. Director

A copy of this report was sent to:

Pamela.Brown@microbac.com

Date Printed:

2/25/19

Page 3 of 5

Page 1 of 2

-- LABORATORY ANALYSIS REPORT --

Microbac-NY Cortland, NY

Sample ID:	Town of Chenango	LSL Sample ID:	1902200-001
Location:	N Gate WWTP - Compost Barn		
Sampled:	02/18/19 8:00	Sampled By:	
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/4gDry		2/18/19 15:20	DA
<i>The NYS DOH ELAP does not offer certification for this analyte.</i>					
(1) SM 2540 G-97,-11 Total Solids					
Total Solids @ 103-105 C	57	%		2/18/19	MM2

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

BENCHMARK ANAL 1902200

A Microbac Laboratory

MicrobacNY_Cortland

5588

2566 Pennsylvania AVE, Sayre, 1

Phone (570) 888-0169 Fax (570) 888-0717

FECAL COLIFORM CHAIN OF CUSTODY

Client Name: Town of Chenango Phone# 607 766 5192

Client Address: 1529 NY RT 12

City: Binghamton State: NY Zip Code: 13901

Copy of Report To: _____

Fax Report To: (\$1.00 Service Charge) _____

Report To:
Phone#: () _____
Name: _____
Address: _____
City: _____
State: _____ Zip: _____

Bill To:
Phone#: () _____
Name: _____
Address: _____
City: _____
State: _____ Zip: _____

SAMPLE DATA

Sample Date: 2-18-19 Sample Time: 8:00 AM PM Collected By: Brian Green

Sample Location: N gate WWT

Sampling Point: Compost Barn Field Residual Chlorine _____ mg/L

ANALYSIS REQUIRED (PLEASE CHECK ALL THAT APPLY)

- Coliform Fecal [2-3 Days] \$25.63
- Coliform Fecal - Solid Matrix includes Total Solids -7 Days \$102.50
- Coliform *E. Coli* - Meat Carcass 3-4 Days \$25.65
- Coliform *E. Coli* - Ground Non-Beef Meat -7 Days \$56.40
- Coliform *E. Coli* H157 - Ground Beef Meat -7 Days \$92.25
- Salmonella - Solid Matrix includes Total Solids -7 Days \$102.50
- Other: Salmonella Call Laboratory for Pricing

All pricing includes certification fee

REFRIGERATE SAMPLES AFTER COLLECTION.

TRANSPORT TO LABORATORY IN COOLER WITH ICE WITHIN 5 HOURS FOR
FECAL WATER, 6 HOURS FOR SALMONELLA, AND 24 HOURS FOR OTHERS.

*****FOR LABORATORY USE ONLY*****

Fecal Coliform Colonies: _____ per 100mLs

Fecal Coliform: _____ MPN/g Dry weight basis

E. Coli - Meat Carcass: _____ cfu/cm²

E. Coli - Ground Meat: _____ count/g

Other: _____ Result: _____ Units: _____

Samples Were -

Delivered by: [Signature]
Rec'd on Ice & Temp. 5 °C
Date & Time: 2/18/19 9:24
Received by: [Signature] 2/18/19 09:24
Credit Card: Y/N
Cash Received Amount _____
Check# _____ \$
Samples Received

On Ice

Revised 01/08/2014



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9L1099

Project Description

NYS Part 360 Subpart 4

For:

Don Benjamin

Town of Chenango

1529 NY Route 12

Binghamton, NY 13901

Customer Relationship Specialist

Renee Lantz

Thursday, January 2, 2020

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., New York Division. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9L1099

Town of Chenango

Project Name: NYS Part 360 Subpart 4

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 12/18/2019
Reported: 01/02/2020

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
Ngate Sludge	J9L1099-01	Solid	Grab		12/18/19 11:30	12/18/19 15:50



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9L1099

Analytical Testing Parameters

Client Sample ID: Ngate Sludge	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 12/18/2019 11:30
Lab Sample ID: J9L1099-01	

Analyses Subcontracted to: Envirotest Laboratories

Inorganics	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 351.2, Rv 2									
Total Kjeldahl Nitrogen (TKN)	67300		7180	mg/kg dry	1	Y2	12/26/19 1106	12/27/19 1510	ETL
Method: EPA 365.3, Rv 1978									
Phosphorus - Total as P	16400		5720	mg/kg dry	1	Y2	12/26/19 1604	12/27/19 1140	ETL
Method: SM2540B PSOL									
Percent Solids	17.1		0.1	% (by wt.)	1	Y2		12/26/19 1845	ETL

Analyses Subcontracted to: Microbac Laboratories Inc., - Marietta, OH

Anions by Ion Chromatography	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 9056A									
Nitrite as N	<24.1		24.1	mg/kg dry	1	H		12/20/19 1830	KWD
Nitrate as N	<36.2		36.2	mg/kg dry	1	H		12/20/19 1830	KWD

General Parameters	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: ASTM D2216-10									
Percent Solids	16.6		1.00	% (by wt.)	1	Y1	12/23/19 1402	12/24/19 0723	CB

Inorganics	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 350.1, Rv 2									
Ammonia as N	15200		705	mg/kg dry	25	Y1	12/27/19 1529	12/30/19 1219	TB
Method: EPA 9045D									
pH	6.3			S.U.	1	H4	12/26/19 0605	12/26/19 1046	AWE
Method: NA									
Temperature	20.2			°C	1	H4	12/26/19 0605	12/26/19 1046	AWE
Method: SM2540 G-1997									
Total Volatile Solids - TVS	79.6			%	1	Y1	12/26/19 0831	12/27/19 1017	AWE

Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 8082A									
Aroclor-1016 (PCB-1016)	<155		155	ug/kg dry	1		12/24/19 0900	12/24/19 2002	ECL
Aroclor-1221 (PCB-1221)	<155		155	ug/kg dry	1		12/24/19 0900	12/24/19 2002	ECL
Aroclor-1232 (PCB-1232)	<155		155	ug/kg dry	1		12/24/19 0900	12/24/19 2002	ECL
Aroclor-1242 (PCB-1242)	<155		155	ug/kg dry	1		12/24/19 0900	12/24/19 2002	ECL

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9L1099

Client Sample ID: Ngate Sludge	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 12/18/2019 11:30
Lab Sample ID: J9L1099-01	

Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Aroclor-1248 (PCB-1248)	<155		155	ug/kg dry	1		12/24/19 0900	12/24/19 2002	ECL
Aroclor-1254 (PCB-1254)	<155		155	ug/kg dry	1		12/24/19 0900	12/24/19 2002	ECL
Aroclor-1260 (PCB-1260)	<155		155	ug/kg dry	1		12/24/19 0900	12/24/19 2002	ECL
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	49.6	Limit: 26-138		% Rec	1		12/24/19 0900	12/24/19 2002	ECL
Surrogate: Decachlorobiphenyl (BZ-209)	28.6	Limit: 20-125		% Rec	1		12/24/19 0900	12/24/19 2002	ECL

Total Metals - AA	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 7471A									
Mercury	<0.239		0.239	mg/L	1	M5	12/21/19 0812	12/24/19 1008	KEH

Total Metals - ICP	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 6010C									
Arsenic	<4.48		4.48	mg/kg dry	1		12/30/19 0633	12/30/19 1431	JYH
Beryllium	<0.448		0.448	mg/kg dry	1		12/30/19 0633	12/30/19 1431	JYH
Cadmium	<0.448		0.448	mg/kg dry	1		12/30/19 0633	12/30/19 1431	JYH
Chromium	25.5		1.12	mg/kg dry	1		12/30/19 0633	12/30/19 1431	JYH
Copper	335		4.48	mg/kg dry	1		12/30/19 0633	12/30/19 1431	JYH
Lead	10.7		4.48	mg/kg dry	1		12/30/19 0633	12/30/19 1431	JYH
Molybdenum	<13.4		13.4	mg/kg dry	1		12/30/19 0633	12/30/19 1431	JYH
Nickel	10.7		8.96	mg/kg dry	1		12/30/19 0633	12/30/19 1431	JYH
Potassium	7650		224	mg/kg dry	1		12/30/19 0633	12/30/19 1431	JYH
Selenium	<4.48		4.48	mg/kg dry	1		12/30/19 0633	12/30/19 1431	JYH
Zinc	327		4.48	mg/kg dry	1		12/30/19 0633	12/30/19 1431	JYH

Definitions

- %:** Percent
- % (by wt.):** Percent by Weight
- °C:** Degrees Celsius
- H:** Sample was analyzed past holding time.
- H4:** The test was performed outside of the EPA recommended holding time of 15 minutes.
- M5:** Post digestion spike is outside of acceptance limits.
- MDL:** Minimum Detection Limit
- mg/L:** Milligrams per Liter
- RL:** Reporting Limit
- S.U.:** Standard Units
- Y1:** Accreditation is not offered by the accrediting body for this analyte.
- Y2:** Accreditation is not offered by the accrediting body for this analyte.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 3.0°C

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9L1099

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH 10861	New York State Department of Health
Microbac Laboratories, Inc., New York Division NY Lab ID No.: 10795	New York State Department of Health
EnviroTest Laboratories NY Lab ID No: 10142	New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 01/02/2020 18:52

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



3821 Buck Drive
Cortland, NY 13045
607.753.3403

2369 Elmira Street, Suite C
Sayre, PA 18840
570.888.0169

1620 North Main Avenue
Scranton, PA 18608
570.348.0775

4359 Linglestown Road
Harrisburg, PA 17112
717.651.9700

CHAIN OF CUSTODY RECORD

Number _____
Instructions on back

Lab Report Address
Client Name: *Town of Chenango*
Address: *1529 NY RT 12*
City, State, Zip: *Binghamton NY 13901*
Contact: *Bruce Carova*
Telephone No.: *607 760 5192*

Invoice Address
Client Name:
Address:
City, State, Zip: (needed by)
Contact:
Telephone No.:

Turnaround Time
 Routine (6 to 7 business days)
 RUSH* (notify lab)
Report Type
 Results Only Level 1 Level 2 Level 3 Level 4 EDD

TO BE COMPLETED BY MICROBAC
Temperature Upon Receipt (°C)
Therm ID:
Holding Time: *300*
Samples Received on Ice? Yes No N/A
Custody Seals Intact? Yes No N/A

Send Report via: Mail Fax e-mail (address)

Send Invoice via: Mail Fax e-mail (address)

Project: Location: PO No.: Compliance Monitoring? Yes No
() Agency/Program

Sampled by (PRINT): Sampler Signature: Sampler Phone No.:

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)
** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

REQUESTED ANALYSIS

Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Additional I
	<i>ngate sludge</i>	<i>12-18-19</i>	<i>11:30</i>	<i>1</i>		<i>0</i>	<i>3604 Sludge</i>	

Possible Hazard Identification Hazardous Non-Hazardous Radioactive Sample Disposition Dispose as appropriate Return Archive

Comments

SAMPLES MUST BE RETURNED ON ICE

Relinquished By (signature) <i>Bruce Carova</i>	Date/Time <i>12-18-19 1200</i>	Received By (signature) <i>[Signature]</i>	Date/Time <i>12/18/19 13:30</i>
Relinquished By (signature) <i>[Signature]</i>	Date/Time <i>12/18/19 1525</i>	Received By (signature) <i>[Signature]</i>	Date/Time <i>12/18/19 1550</i>
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time

Page 6 of 6



J9L1099



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9I1492

Project Description

NYS Part 360 Subpart 4

For:

Don Benjamin

Town of Chenango

1529 NY Route 12

Binghamton, NY 13901

Customer Relationship Specialist

Renee Lantz

Wednesday, October 9, 2019

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., New York Division. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9I1492

Town of Chenango

Project Name: NYS Part 360 Subpart 4

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 09/24/2019
Reported: 10/09/2019

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
N.Gate Sludge	J9I1492-01	Solid	Grab		09/24/19 11:30	09/24/19 15:45



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9I1492

Analytical Testing Parameters

Client Sample ID: N.Gate Sludge	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 09/24/2019 11:30
Lab Sample ID: J9I1492-01	

Analyses Subcontracted to: Envirotec Laboratories

Inorganics	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 351.2, Rv 2									
Total Kjeldahl Nitrogen (TKN)	62900		62290	mg/kg dry	1	Y2	09/26/19 0908	09/27/19 1043	ETL
Method: EPA 365.3, Rv 1978									
Phosphorus - Total as P	27600		6350	mg/kg dry	1	Y2	09/27/19 0809	09/27/19 1629	ETL
Method: SM2540B PSOL									
Percent Solids	15.3		0.1	% by Weight	1	Y2		09/26/19 1852	ETL

Analyses Subcontracted to: Microbac Laboratories Inc., - Marietta, OH

Anions by Ion Chromatography	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 9056A									
Nitrite as N	<26.6		26.6	mg/kg dry	1			09/25/19 1933	KWD
Nitrate as N	<39.9		39.9	mg/kg dry	1			09/25/19 1933	KWD

General Parameters	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: ASTM D2216-10									
Percent Solids	15.0		1.00	% by Weight	1	Y1	09/26/19 1329	09/27/19 0735	KMG

Inorganics	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 350.1, Rv 2									
Ammonia as N	519		31.1	mg/kg dry	1	Y1	09/27/19 1511	09/27/19 1830	TB
Method: EPA 9045D									
pH	6.4			pH Units	1	H	09/26/19 1546	09/26/19 1624	EPT
Method: NA									
Temperature	21.2			°C	1		09/26/19 1546	09/26/19 1624	EPT
Method: SM2540 G-1997									
Total Volatile Solids - TVS	80.9			%	1	Y1	09/25/19 1535	09/27/19 1108	AWE

Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 8082A									
Aroclor-1016 (PCB-1016)	<115		115	ug/kg dry	1		09/25/19 1200	09/25/19 1809	ECL
Aroclor-1221 (PCB-1221)	<115		115	ug/kg dry	1		09/25/19 1200	09/25/19 1809	ECL
Aroclor-1232 (PCB-1232)	<115		115	ug/kg dry	1		09/25/19 1200	09/25/19 1809	ECL
Aroclor-1242 (PCB-1242)	<115		115	ug/kg dry	1		09/25/19 1200	09/25/19 1809	ECL

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J911492

Client Sample ID: N.Gate Sludge	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 09/24/2019 11:30
Lab Sample ID: J911492-01	

Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Aroclor-1248 (PCB-1248)	<115		115	ug/kg dry	1		09/25/19 1200	09/25/19 1809	ECL
Aroclor-1254 (PCB-1254)	<115		115	ug/kg dry	1		09/25/19 1200	09/25/19 1809	ECL
Aroclor-1260 (PCB-1260)	<115		115	ug/kg dry	1		09/25/19 1200	09/25/19 1809	ECL
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	69.7	Limit: 26-138		% Rec	1		09/25/19 1200	09/25/19 1809	ECL
Surrogate: Decachlorobiphenyl (BZ-209)	57.4	Limit: 20-125		% Rec	1		09/25/19 1200	09/25/19 1809	ECL

Total Metals - AA	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 7471A									
Mercury	<1.61		1.61	mg/kg dry	1		09/30/19 0752	10/01/19 0908	TMM

Total Metals - ICP	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 6010C									
Arsenic	<4.88		4.88	mg/kg dry	1		09/26/19 0652	09/27/19 1307	JYH
Beryllium	<0.488		0.488	mg/kg dry	1		09/26/19 0652	09/27/19 1307	JYH
Cadmium	0.632		0.488	mg/kg dry	1		09/26/19 0652	09/27/19 1307	JYH
Chromium	27.7		1.22	mg/kg dry	1		09/26/19 0652	09/27/19 1307	JYH
Copper	495		4.88	mg/kg dry	1		09/26/19 0652	09/27/19 1307	JYH
Lead	12.5		4.88	mg/kg dry	1		09/26/19 0652	09/27/19 1307	JYH
Molybdenum	<14.6		14.6	mg/kg dry	1		09/26/19 0652	09/27/19 1307	JYH
Nickel	10.6		9.76	mg/kg dry	1		09/26/19 0652	09/27/19 1307	JYH
Potassium	8540		244	mg/kg dry	1		09/26/19 0652	09/27/19 1307	JYH
Selenium	5.86		4.88	mg/kg dry	1		09/26/19 0652	09/27/19 1307	JYH
Zinc	411		4.88	mg/kg dry	1		09/26/19 0652	09/27/19 1307	JYH

Definitions

- H:** Sample was analyzed past holding time.
- MDL:** Minimum Detection Limit
- RL:** Reporting Limit
- Y1:** Accreditation is not offered by the accrediting body for this analyte.
- Y2:** Accreditation is not offered by the accrediting body for this analyte.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 5.8°C



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9I1492

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH 10861	New York State Department of Health
Microbac Laboratories, Inc., New York Division NY Lab ID No.: 10795	New York State Department of Health
EnviroTest Laboratories NY Lab ID No: 10142	New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 10/09/2019 22:06

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



3821 Buck Drive
Cortland, NY 13045
607.753.3403

2369 Elmira Street, Suite C
Sayre, PA 18840
570.888.0169

1620 North Main Avenue
Scranton, PA 18508
570.348.0775

4359 Linglestown Road
Harrisburg, PA 17112
717.651.9700

CHAIN OF CUSTODY RECORD

Number _____
Instructions on back

Lab Report Address

Invoice Address

Turnaround Time

TO BE COMPLETED BY MICROBAC

Client Name: *Town of Chenango*

Client Name:

Routine (5 to 7 business days)
 RUSH* (notify lab)

Temperature Upon Receipt (°C) *51.8*
Therm ID

Address: *1529 NY RT 12*

Address:

Holding Time

City, State, Zip: *Binghamton NY 13901*

City, State, Zip:

(needed by)

Samples Received on Ice? Yes No N/A

Contact: *Don Benjamin*

Contact:

Report Type

Custody Seals Intact? Yes No N/A

Telephone No.: *607 760 9152*

Telephone No.:

Results Only Level 1 Level 2 Level 3 Level 4 EDD

Send Report via: Mail Fax e-mail (address)

Send Invoice via: Mail Fax e-mail (address)

Project:

Location:

PO No.:

Compliance Monitoring? Yes No
() Agency/Program

Sampled by (PRINT): *Bruce Canova*

Sampler Signature: *Bruce Canova*

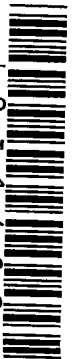
Sampler Phone No.: *607 760 5192*

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

REQUESTED ANALYSIS													
Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **						Additional
	<i>N gate sludge</i>	<i>9-24-19</i>	<i>11:30</i>	<i>1</i>		<i>G</i>	<i>Sludge 264 5/21/19</i>						

Chenango, Town of



J 9 I 1 4 9 2

Possible Hazard Identification Hazardous Non-Hazardous Radioactive Sample Disposition Dispose as appropriate Return Archive

Comments

SAMPLES MUST BE RETURNED ON ICE

Relinquished By (signature) <i>Bruce Canova</i>	Date/Time <i>9-24-19</i>	Received By (signature) <i>Don Benjamin</i>	Date/Time <i>9-24-19 1507</i>
Relinquished By (signature) <i>[Signature]</i>	Date/Time <i>9-24-19 1545</i>	Received By (signature) <i>[Signature]</i>	Date/Time <i>9/24/19 1545</i>
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9G1512

Project Description

NYS Part 360 Subpart 4

For:

Don Benjamin

Town of Chenango

1529 NY Route 12

Binghamton, NY 13901

Customer Relationship Specialist

Renee Lantz

Tuesday, August 13, 2019

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., New York Division. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9G1512

Town of Chenango

Project Name: NYS Part 360 Subpart 4

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 07/25/2019
Reported: 08/13/2019

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
Sludge	J9G1512-01	Solid	Grab		07/25/19 11:00	07/25/19 16:00



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9G1512

Analytical Testing Parameters

Client Sample ID: Sludge	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 07/25/2019 11:00
Lab Sample ID: J9G1512-01	

Analyses Subcontracted to: Envirotest Laboratories

Inorganics	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 351.2, Rv 2									
Total Kjeldahl Nitrogen (TKN)	78500		5770	mg/kg Dry	20	Y2	07/31/19 0945	08/01/19 1103	ETL
Method: EPA 365.3, Rv 1978									
Phosphorus - Total as P	21200		5800	mg/kg Dry	50	Y2	07/30/19 1405	07/31/19 1719	ETL
Method: SM2540B									
Percent Solids	16.9		0.1	%	1	Y2		07/31/19 1810	ETL

Analyses Subcontracted to: Microbac Laboratories Inc., - Marietta, OH

Anions by Ion Chromatography	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 9066A									
Nitrite as N	<24.0		24.0	mg/kg dry	1			07/26/19 1748	KWD
Nitrate as N	<36.0		36.0	mg/kg dry	1			07/26/19 1748	KWD

General Parameters	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: ASTM D2216-10									
Percent Solids	16.6		1.00	% by Weight	1	Y1	07/31/19 1237	07/31/19 1239	KMG

Inorganics	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 350.1, Rv 2									
Ammonia as N	13400		775	mg/kg dry	25	Y1	07/31/19 1514	08/02/19 1202	TB
Method: EPA 9045D									
pH	6.3			pH Units	1	H4	07/29/19 0905	07/29/19 0907	ADG
Method: NA									
Temperature	23.5			°C	1	H4	07/29/19 0905	07/29/19 0907	ADG
Method: SM2540 G-1997									
Total Volatile Solids - TVS	80.1			%	1	Y1	07/26/19 1408	07/29/19 1130	AWE

Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 8082A									
Aroclor-1016 (PCB-1016)	<91.5		91.5	ug/kg dry	1		07/30/19 1606	07/31/19 1900	ECL
Aroclor-1221 (PCB-1221)	<91.5		91.5	ug/kg dry	1		07/30/19 1606	07/31/19 1900	ECL
Aroclor-1232 (PCB-1232)	<91.5		91.5	ug/kg dry	1		07/30/19 1606	07/31/19 1900	ECL
Aroclor-1242 (PCB-1242)	<91.5		91.5	ug/kg dry	1		07/30/19 1606	07/31/19 1900	ECL

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9G1512

Client Sample ID: Sludge	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 07/25/2019 11:00
Lab Sample ID: J9G1512-01	

Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Aroclor-1248 (PCB-1248)	<91.5		91.5	ug/kg dry	1		07/30/19 1606	07/31/19 1900	ECL
Aroclor-1254 (PCB-1254)	<91.5		91.5	ug/kg dry	1		07/30/19 1606	07/31/19 1900	ECL
Aroclor-1260 (PCB-1260)	<91.5		91.5	ug/kg dry	1		07/30/19 1606	07/31/19 1900	ECL
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	61.0	Limit: 26-138		% Rec	1		07/30/19 1606	07/31/19 1900	ECL
Surrogate: Decachlorobiphenyl (BZ-209)	295	Limit: 20-125		% Rec	1	S1	07/30/19 1606	07/31/19 1900	ECL

Total Metals - AA	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 7471A									
Mercury	<1.47		1.47	mg/kg dry	1		08/01/19 0732	08/01/19 1331	KEH

Total Metals - ICP	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 6010C									
Arsenic	<4.11		4.11	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Beryllium	<0.411		0.411	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Cadmium	0.557		0.411	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Chromium	33.6		1.03	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Copper	416		4.11	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Lead	12.6		4.11	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Molybdenum	<12.3		12.3	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Nickel	10.2		8.22	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Potassium	8310		206	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Selenium	5.95		4.11	mg/kg dry	1		07/29/19 0823	08/01/19 1339	JYH
Zinc	420		4.11	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH

Definitions

- H4:** The test was performed outside of the EPA recommended holding time of 15 minutes.
- MDL:** Minimum Detection Limit
- RL:** Reporting Limit
- S1:** Surrogate recovery is above acceptance limits.
- Y1:** Accreditation is not offered by the accrediting body for this analyte.
- Y2:** Accreditation is not offered by the accrediting body for this analyte.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 4.2°C



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9G1512

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH 10861	New York State Department of Health
Microbac Laboratories, Inc., New York Division NY Lab ID No.: 10795	New York State Department of Health
EnviroTest Laboratories NY Lab ID No: 10142	New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 08/13/2019 11:18

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com

3821 Buck Drive
 Cortland NY 13045
 Phone: (607) 753-3403 Fax: (607) 753-3415
 NY #10795, EPA #NY00035

Microbac Laboratories, Inc.

CHAIN OF CUSTODY

Client Information		Billing/Invoice:	Analysis Requested		Receiving Info (Lab Use Only)																																											
Name: Town of Chenango Address: 1529 NY Route 12 Binghamton, NY 13901 Contact: Bruce Canova Phone: 7605192 Project: Quote ID: _____ PO#: _____					Ice: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Cooler: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Sample Temp: 4.2 Cooler Seal: YES NO Pickup: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Dropoff: C W Accepted?: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO																																											
Rush TAT Bar. Days: <2 2-5 5-7 7-10 Date Req.:		364 Series	Chenango, Town of		Container Material																																											
Carbon Copy: Yes Email Results: Yes Fax Results: Yes					Container Size (In MI)																																											
Sample Information		Glass 32oz. None	Chenango, Town of		Preservative																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Description/Location</th> <th>Date</th> <th>Time</th> <th>Initial</th> <th>Matrix Type</th> </tr> </thead> <tbody> <tr> <td>1 Sludge</td> <td>7/25/19</td> <td>1:00</td> <td>BC</td> <td>1</td> </tr> <tr> <td>2 Comment</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Description/Location			Date	Time	Initial	Matrix Type	1 Sludge	7/25/19	1:00	BC	1	2 Comment					3					4					5					6					7					8				
Description/Location	Date	Time	Initial	Matrix Type																																												
1 Sludge	7/25/19	1:00	BC	1																																												
2 Comment																																																
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4																																																
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6																																																
7																																																
8																																																
Print Name and Company		Signature	Date/Time	Comments																																												
Sampled: Town of Chenango		<i>[Signature]</i>	7/25/19 12:00	Dioxins are subcontracted Pacc																																												
Received: DPALANZA		<i>[Signature]</i>	7/25/19 15:45/1500																																													
Received: Ernest Spawer		<i>[Signature]</i>	7/25/19 15:30/16200																																													
Received: Kayla Conway		<i>[Signature]</i>	7/25/19 16:00																																													
<small>Microbac Laboratories (MNY) may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by MNY of the intent to subcontract and are in agreement with this action.</small>																																																



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9G1512

Project Description

NYS Part 360 Subpart 4

For:

Don Benjamin

Town of Chenango

1529 NY Route 12

Binghamton, NY 13901

Customer Relationship Specialist

Renee Lantz

Tuesday, August 13, 2019

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., New York Division. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9G1512

Client Sample ID: Sludge	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 07/25/2019 11:00
Lab Sample ID: J9G1512-01	

Polychlorinated Biphenyls - GC/ECD	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Aroclor-1248 (PCB-1248)	<91.5		91.5	ug/kg dry	1		07/30/19 1606	07/31/19 1900	ECL
Aroclor-1254 (PCB-1254)	<91.5		91.5	ug/kg dry	1		07/30/19 1606	07/31/19 1900	ECL
Aroclor-1260 (PCB-1260)	<91.5		91.5	ug/kg dry	1		07/30/19 1606	07/31/19 1900	ECL
Surrogate: 2,4,5,6-Tetrachloro-m-xylene	61.0	Limit: 26-138		% Rec	1		07/30/19 1606	07/31/19 1900	ECL
Surrogate: Decachlorobiphenyl (BZ-209)	295	Limit: 20-125		% Rec	1	S1	07/30/19 1606	07/31/19 1900	ECL

Total Metals - AA	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 7471A									
Mercury	<1.47		1.47	mg/kg dry	1		08/01/19 0732	08/01/19 1331	KEH

Total Metals - ICP	Result	MDL	RL	Units	Dilution	Note	Prepared	Analyzed	Analyst
Method: EPA 6010C									
Arsenic	<4.11		4.11	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Beryllium	<0.411		0.411	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Cadmium	0.557		0.411	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Chromium	33.6		1.03	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Copper	416		4.11	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Lead	12.6		4.11	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Molybdenum	<12.3		12.3	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Nickel	10.2		8.22	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Potassium	8310		206	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH
Selenium	5.95		4.11	mg/kg dry	1		07/29/19 0823	08/01/19 1339	JYH
Zinc	420		4.11	mg/kg dry	1		07/29/19 0823	07/29/19 1929	JYH

Definitions

- H4:** The test was performed outside of the EPA recommended holding time of 15 minutes.
- MDL:** Minimum Detection Limit
- RL:** Reporting Limit
- S1:** Surrogate recovery is above acceptance limits.
- Y1:** Accreditation is not offered by the accrediting body for this analyte.
- Y2:** Accreditation is not offered by the accrediting body for this analyte.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 4.2°C



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9G1512

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories Inc., - Marietta, OH 10861	New York State Department of Health
Microbac Laboratories, Inc., New York Division NY Lab ID No.: 10795	New York State Department of Health
EnviroTest Laboratories NY Lab ID No: 10142	New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.


Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 08/13/2019 11:18

3521 Duck Drive
 Cortland NY 13045
 Phone: (607) 753-3403 Fax: (607) 753-3415
 NY #10795, EPA #NY00935

Microbac Laboratories, Inc.

CHAIN OF CUSTODY

Client Information	Billing/Invoice:	Analysis Requested	Receiving Info (Lab Use Only)																																																						
Name: Town of Chenango Address: 1529 NY Route 12 Binghamton, NY 13901 Contact: Bruce Canova Phone: 7605192 Project: Quote ID: PO#:			Ice: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Cooler: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Sample Temp: <u>4-2</u> Cooler Seal: YES NO Pickup: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Dropoff: C W Accepted? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO																																																						
Rush TAT Bar. Days: <2 2-5 5-7 7-10 Date Req.: Carbon Copy: Yes Email Results: Yes Fax Results: Yes			Container Material: Container Size (In MI): Preservative:																																																						
364 Series Glass 32oz. None			Chenango, Town of  J 9 6 1 5 1 2																																																						
Sample Information <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 25%;">Description/Location</th> <th style="width: 10%;">Date</th> <th style="width: 10%;">Time</th> <th style="width: 10%;">Initial</th> <th style="width: 40%;">Matrix Type</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Sludge</td> <td>7/25/19</td> <td>1100</td> <td>BC</td> <td></td> </tr> <tr> <td>2</td> <td>Comment</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Description/Location	Date	Time	Initial	Matrix Type	1	Sludge	7/25/19	1100	BC		2	Comment					3						4						5						6						7						8						Comments/Field Data:
	Description/Location	Date	Time	Initial	Matrix Type																																																				
1	Sludge	7/25/19	1100	BC																																																					
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Print Name and Company Sampled: <i>Town of Chenango</i> Received: <i>D PALANZA</i> Received: <i>EORST SPENCER</i> Received: <i>Karla Conway</i>	Signature <i>[Signature]</i> <i>[Signature]</i> <i>[Signature]</i>	Date/Time 7-25-19 1200 7/25/19 1345/1500 7/25/19 15300/16200 7/25/19 1600	Comments Dioxins are subcontracted Pass																																																						
Microbac Laboratories (MNY) may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by MNY of the intent to subcontract and are in agreement with this action.																																																									



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9C0950

Town of Chenango

Project Name: NYS Part 360 Subpart 4

Don Benjamin
1529 NY Route 12
Binghamton, NY 13901

Project / PO Number: N/A
Received: 03/14/2019
Reported: 03/27/2019

Analytical Testing Parameters

Client Sample ID:	Sludge	Collected By:	BC-Client
Sample Matrix:	Solid	Collection Date:	03/14/2019 11:00
Lab Sample ID:	J9C0950-01		

Analyses Subcontracted to: Microbac Laboratories, Inc. - Ohio Valley

	Result	MDL	RL	Units	Note	Prepared	Analyzed	Analyst
Method: 6010C								
Arsenic, Total	4.33	1.84	3.68	mg/kg DRY		03/21/19 0724	03/21/19 1331	PDM
Beryllium, Total	0.206	0.184	0.368	mg/kg DRY	Ja	03/21/19 0724	03/21/19 1331	PDM
Cadmium, Total	0.316	0.184	0.368	mg/kg DRY	Ja	03/21/19 0724	03/21/19 1331	PDM
Chromium, Total	39.8	0.459	0.919	mg/kg DRY		03/21/19 0724	03/21/19 1331	PDM
Copper, Total	273	1.84	3.68	mg/kg DRY		03/21/19 0724	03/21/19 1331	PDM
Lead, Total	16.2	1.84	3.68	mg/kg DRY		03/21/19 0724	03/21/19 1331	PDM
Molybdenum, Total	<5.51	5.51	11.0	mg/kg DRY		03/21/19 0724	03/21/19 1331	PDM
Nickel, Total	17.5	3.68	7.35	mg/kg DRY		03/21/19 0724	03/21/19 1331	PDM
Potassium, Total	6030	91.9	184	mg/kg DRY		03/21/19 0724	03/21/19 1331	PDM
Selenium, Total	3.56	1.84	3.68	mg/kg DRY	Ja	03/21/19 0724	03/21/19 1331	PDM
Zinc, Total	325	1.84	3.68	mg/kg DRY		03/21/19 0724	03/21/19 1331	PDM
Method: 7471B								
Mercury, Total	0.464	0.0477	1.49	mg/kg DRY	Ja	03/21/19 0733	03/21/19 1408	KEH
Method: 8082A								
Aroclor-1016	<47.3	47.3	94.5	ug/kg DRY		03/19/19 1122	03/20/19 1154	ECL
Aroclor-1221	<47.3	47.3	94.5	ug/kg DRY		03/19/19 1122	03/20/19 1154	ECL
Aroclor-1232	<47.3	47.3	94.5	ug/kg DRY		03/19/19 1122	03/20/19 1154	ECL
Aroclor-1242	<47.3	47.3	94.5	ug/kg DRY		03/19/19 1122	03/20/19 1154	ECL
Aroclor-1248	<47.3	47.3	94.5	ug/kg DRY		03/19/19 1122	03/20/19 1154	ECL
Aroclor-1254	<47.3	47.3	94.5	ug/kg DRY		03/19/19 1122	03/20/19 1154	ECL
Aroclor-1260	<47.3	47.3	94.5	ug/kg DRY		03/19/19 1122	03/20/19 1154	ECL
Surrogate: 2,4,5,6-Tetrachloro-m-Xylene	63.6			Limit: 29-133 % Rec		03/19/19 1122	03/20/19 1154	ECL
Surrogate: Decachlorobiphenyl	51.5			Limit: 50-125 % Rec		03/19/19 1122	03/20/19 1154	ECL
Method: 9045D								
Corrosivity pH	6.42			UNITS			03/19/19 1659	APH
Temperature At Determination (C)	20.8			UNITS			03/19/19 1659	APH
Method: 9056								
Nitrate	<5.08	5.08	30.5	mg/kg DRY		03/15/19 1520	03/15/19 2254	KWD
Nitrite	<5.08	5.08	20.3	mg/kg DRY		03/15/19 1520	03/15/19 2254	KWD
Method: ASTM D2216-10								
Percent Solids	19.7	1.00	1.00	weight %	Y2		03/22/19 0721	KMG

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9C0950

Client Sample ID: Sludge	Collected By: BC-Client
Sample Matrix: Solid	Collection Date: 03/14/2019 11:00
Lab Sample ID: J9C0950-01	

	Result	MDL	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA160.4								
Total Volatile Solids	57.1	1	1	%	Y2		03/19/19 0610	AWE
Method: EPA350.1								
Nitrogen, Ammonia	13700	308	617	mg/kg DRY	Y2	03/22/19 1417	03/25/19 1151	TB

Analyses Subcontracted to: Test America - Nashville

351.2 Nitrogen, Total Kjeldahl	Result	MDL	RL	Units	Note	Prepared	Analyzed	Analyst
Method: 351.2								
Kjeldahl Nitrogen as N	13000		350	mg/Kg Dry	B	03/21/19 1312	03/26/19 1932	DRR

365.4 Phosphorus, Total	Result	MDL	RL	Units	Note	Prepared	Analyzed	Analyst
Method: 365.4								
Phosphorus, Total	1500		700	mg/Kg Dry		03/21/19 1312	03/26/19 1805	REM

Definitions

- B:** Compound was found in the blank and sample.
- Ja:** The analyte was positively identified, but the quantitation was below the RL
- MDL:** Minimum Detection Limit
- RL:** Reporting Limit
- Y2:** Accreditation is not offered by the accrediting body for this analyte

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 2.8°C

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J9C0950

Project Requested Certification(s)

Microbac Laboratories, Inc., New York Division

NY Lab ID No.: 10795

New York State Department of Health

Microbac Laboratories, Inc. - Ohio Valley

VA ID: 460187

Commonwealth of Virginia (VELAP)

NJ DEP ID: OH004

New Jersey Department of Environmental Protection

NY Lab ID No.: 10861

New York State Department of Health

PA DEP ID: 68-01670

Pennsylvania Department of Environmental Protection

Test America - Nashville

NY Lab ID No.: 11342

New York State Department of Health

PA DEP ID: 68-00540

Pennsylvania Department of Environmental Protection

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz

Customer Relationship Specialist

Reported: 03/27/2019 16:53

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com

3521 Buck Drive
 Carlisle NY 13045
 Phone (607) 753-3403 Fax (607) 753-3415
 NY #10795, EPA #NY00935

Microbac Laboratories, Inc. CHAIN OF CUSTODY

Client Information			Billing/Invoice:		Analysis Requested			Receiving Info (Lab Use Only)		
Name: Town of Chenango					364 Series			Ice: <input checked="" type="checkbox"/> NO		
Address: 1529 NY Route 12 Binghamton, NY 13901								Cooler: <input checked="" type="checkbox"/> NO		
Contact: Bruce Canova					Glass 32oz			Sample Temp: 2-4		
Phone: 607 7605192								Cooler Seal: <input checked="" type="checkbox"/> NO		
Project:					None			Pickup: <input checked="" type="checkbox"/> NO		
Quote ID: PO#:								Dropoff: C W		
Rush TAT Bur. Days: <2 2-5 5-7 7-10			Date Req.:		✓			Accepted? <input checked="" type="checkbox"/> YES NO		
Carbon Copy: Yes								Container Material		
Email Results: Yes								Container Size (in ml)		
Fax Results: Yes								Preservative		
Sample Information										
Description/Location		Date	Time	Initial	Matrix Type	Comments/Field Data				
1	Sludge	3-14-19	11:00	BC	Grub					
2	Compost									
3										
4										
5										
6										
7										
8										
Print Name and Company					Signature		Date/Time		Comments	
Sampled: Alice Can Bruce Canova Town of Chenango Binghamton					[Signature]		3-14-19 1200		Dioxins are subcontracted Per	
Received: T. Webster					[Signature]		3-14-19/1435/1540			
Received: Kayla Conway					[Signature]		3/14/19 15010			
Received:										
<p><i>Microbac Laboratories (MNY) may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by MNY of the intent to subcontract and are in agreement with this action.</i></p>										

