

**STATE OF WEST VIRGINIA, COUNTY OF UPSHUR, CITY OF BUCKHANNON, TO WIT:**

A regular scheduled meeting of the City of Buckhannon Sanitary Board was held March 15, 2018 at 4:00pm at City Hall with the following persons present:

Mayor	David McCauley	Present
Recorder	Susan Aloï	Present
Finance Director/Assistant Recorder	Amberle Jenkins	Present
Board Member	Gene Frye	Present
Board Member	Phil Loftis	Present
Engineer	Sam Ludlow	Present
Sanitary Superintendent	Erasmus Rizo	Present
Director of Public Works	Jerry Arnold	Present

Guests: None

**Meeting Agenda Posted 03-12-18**

***City of Buckhannon Sanitary Board – 4:00 pm in Council Chambers  
Meeting Agenda for Thursday, March 15, 2018***

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**A. CALL TO ORDER**

- A.1 Moment of Silence
- A.2 Pledge to the Flag of the United States of America

**B. RECOGNIZE GUESTS**

**C. CONSENT AGENDA**

- C.1 Approval of Minutes – February 15, 2018 Sanitary Board Meeting

**D. FINANCIAL REPORT-AMBY**

- D.1 CD Rates

**E. DEPARTMENT ADMINISTRATIVE REPORT- Erasmo Rizo**

- E.1 GRANTS
- E.2 PERSONNEL
  - 1. Employee training & Safety
  - 2. Vehicle Quotes
  - 3. Stone Box Purchase
  - 4. Public Awareness on Website/Social Media

**F. SANITARY SEWER**

**COMPLETED PROJECTS:**

- 1. Dr. Jeran Sewer Separation Lateral

**WORK IN PROGRESS**

- 1. Wood St. Project Ph. II
- 2. MH, Collection System, Trouble areas

**PLANNING PROJECTS Sanitary Sewer work-List:**

- 1. Tap request 68 Holbrook
- 2. Tap Request 172 Holbrook
- 3. Citizens Bank, Stormwater and Sewer Relocation
- 4. Corridor H-South Extension

**G. STORMWATER**

**COMPLETED PROJECTS:**

- 1. Huffman Alley Improvements

**WORK IN PROGRESS**

- 2. Swisher Culvert/Sewer

**PLANNING PROJECTS Storm Sewer work-List:**

- 1. Stormwater Manual and details (Step B-Permitting/inspection/enforcement)
- 2. Stormwater Billing
- 3. Camden Ave. Storm System

**H. PLANT**

- 1. Tests
- 2. Screw Pumps
- 3. Plant Pump Station
- 4. Clarifier
- 5. UV-lights
- 6. Lab Inspection/Certification
- 7. Lunch Room Upgrades

**I. CORRESPONDENCE & INFORMATION**

- 1. Letter to DEP Re; NPDES Draft Permit Response
- 2. EPA Sewage Sludge(Biosolids) Annual Report Submittal
- 3. Letter to Tennerton PSD Re; Issues & Concerns

**J. STRATEGIC ISSUES**

1. Building Construction on Sewer ROW
2. Tennerton Board Meeting
3. Appointment of Departmental Safety Officer

**K. BOARD MEMBERS COMMENTS AND ANNOUNCEMENTS**

**L. MAYOR'S COMMENTS AND ANNOUNCEMENTS**

**M. ADJOURNMENT**

POSTED 03/12/18

Mayor McCauley called the meeting to order, followed by a moment of silence and pledge to the US flag.

**Consent agenda: Approval of minutes from February 15, 2018. Motion Frye/Loftis to approve the minutes of the meeting held February 15, 2018. Motion carried.**

**Financial Report- Amberle Jenkins:** Ms. Jenkins shared the monthly report and the financial statement ending 02.28.18. Ms. Jenkins shared that the current balance is the best it's been in quite a while, so she would like to put some of the money into a CD to work towards the requirement for a reserve account. Ms. Jenkins reviewed CD rates from Citizens Bank, as well as the Sanitary Board loan balance. **Motion Frye/Loftis to move \$50,000 into a CD; motion passed.**

Sanitary Board:

Balances 2-28-18

Would like to place some of the fund in money market into CD's. We are to place 12.5% of our operation and maintenance into reserve. According to the 2017 PSC report it was \$1,449,000 (page 103) That would be \$181,125. We currently have \$63,200 in CD's.

Citizens Bank is offering some specials. (attached)

Information on loan balances Dec 2017

401-980-199-00	Sewer Bond A	\$ 1,140,229.00	2025
401-970-199-00	Sewer Bond B	\$ 243,261.00	2022
401-997-451-02	Belt Press	\$ 88,943.35	2021
401-997-454-00	2015 Ford Dump truck	\$ 16,518.48	2018
401-997-454-00	Dustless Blaster & 2002 Caterpillar Backhoe	\$ 24,420.93	2020
401-997-454-00	2017 Ford Super Duty F-55 Crane Truck	\$ 91,372.00	2022
401-997-454-00	2017 Jeep Grand Cherokee (Enterprise)	\$ 24,347.10	2022
		<b>\$ 1,629,091.86</b>	



Certificates of Deposit & IRAs

Term	Compounding	Interest Rate	Annual Percentage Yield	Minimum Deposit to Open
3 Months	At Maturity	0.05%	0.05%	\$500.00
6 Months	At Maturity	0.10%	0.10%	\$500.00
12 Months	Quarterly	0.20%	0.20%	\$500.00
18 Months	Quarterly	0.25%	0.25%	\$500.00
24 Months	Quarterly	0.35%	0.35%	\$500.00
30 Months	Quarterly	0.50%	0.50%	\$500.00
36 Months	Quarterly	0.55%	0.55%	\$500.00
48 Months	Quarterly	0.65%	0.65%	\$500.00
60 Months	Quarterly	1.05%	1.05%	\$500.00
15 Month Special <sup>1</sup>	Quarterly	1.24%	1.25%	\$10,000.00
35 Month Special <sup>2</sup>	Quarterly	1.49%	1.50%	\$10,000.00
65 Month Special <sup>3</sup>	Quarterly	1.99%	2.00%	\$10,000.00

Deposits of \$500 or more may be added to an IRA certificate of deposit at anytime. IRA deposits are subject to rules for IRA accounts.

Certificates of Deposit will automatically renew at maturity. Rates are subject to change.

The Annual Percentage Yield assumes interest will remain on deposit until maturity. Withdrawals, fees and other conditions could reduce earnings. A penalty may be imposed for early withdrawal.

<sup>1</sup> Special offer is good for opening balance of at least 50% new money not on deposit at Citizens Bank of WV.

1. The CD will automatically renew into a regular 12 month CD upon maturity at the prevailing rate.
2. The CD will automatically renew into a regular 36 month CD upon maturity at the prevailing rate.
3. The CD will automatically renew into a regular 60 month CD upon maturity at the prevailing rate.

Checking & Savings Accounts

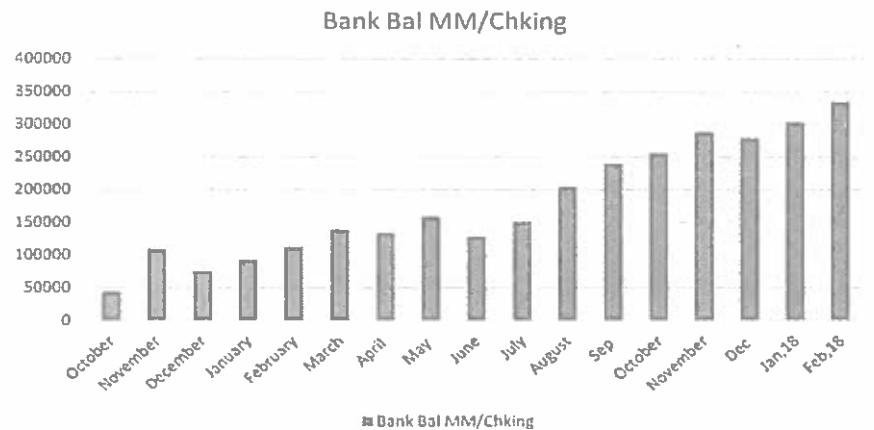
Name of Account	Compounding	Interest Rate	Annual Percentage Yield	Minimum Deposit to Open
IRA Savings*	Quarterly	1.49%	1.50%	\$500.00
Checking Plus*	Monthly	0.05%	0.05%	\$1,000.00
Money Market*	Monthly	0.05%	0.05%	\$1,000.00
Regular Savings*	Quarterly	0.05%	0.05%	None

\*Rate may change after the account is opened

**SANITARY BOARD  
CITY OF BUCKHANNON  
BALANCE SHEET**

Balance February 28, 2018

Money market checking	\$ 334,804.94
CD at FCB	\$ 22,797.20
CD Investment	\$ 40,403.51
2% Depreciation fund	\$ 29,268.61 (Closed Out 7-27-16)



**Department Report-Erasmo Rizo:**

1. **Grants** – Additional information provided recently to FEMA; still optimistic about receiving the grant. Should hear final decision by May 2018.
2. **Personnel** –
  - **Employee training & safety** – continuing CPR training for City employees. Mr. Rizo is continuing his Class 2 Operator classes.
  - **Vehicle quotes** – Erasmo Rizo explained that there are several vehicles on the schedule to be repaired or replaced. Mr. Rizo would like to squeeze one of these into this year’s budget. Amby Jenkins agreed to develop a revised budget and the purchase can be included on the April 2018 meeting agenda.
  - **Stone Box Purchase** – Erasmo Rizo explained that this would assist in transporting stone from one site to another. The purchase price is in the current budget, and Mr. Rizo will be ordering this soon.
  - **Public Awareness on Website/Social Media** – Callie Sams asked each department to provide information that should be shared with the public.

**Sanitary Sewer:**


1. **Completed Project** – Dr. Jeran sewer separation lateral – In the past, sewage from Dr. Jeran’s office ran under someone else’s home. This has been corrected.
2. **Work in Progress** –
  - **Wood Street Project Phase II** – Manhole and about 100 ft of pipe installed; working on hooking up another house.
  - **Manhole, collection system, trouble areas** – Mr. Rizo explained the process to repair yardwork following manhole replacements.
  - **Planned Projects** – Sanitary Sewer work list
    1. **Tap request 68 Holbrook**
    2. **Tap request 172 Holbrook**
    3. **Citizens Bank, stormwater and sewer relocation**
    4. **Corridor H – south extension**

**Stormwater:**

1. Completed Project - Huffman Alley improvements
2. Work in Progress - Swisher culvert/sewer
3. Planning Projects - Storm sewer work list
  - Stormwater Manual and details (Step B-permitting/inspection/enforcement)
  - Stormwater billing
  - 176-1/2 Camden Avenue storm system

**Plant:**

1. Tests- Mr. Rizo reported that all results were within required limits. The month of February was bad for spillages, due to weather; all were reported and corrected.

		Applicant:	BUCKHANNON, CITY OF	Type:	Electronic DMR
		Reference ID:	WV0032336Feb.2018 (03/13/2018)	Permit ID:	New/Pending
eDMR Worksheet - WV0032336 - 001		Status:	New	Printed:	Mar. 13, 2018 2:09 PM

Plant: WV0032336	Outlet No: 001	Type: Normal	Lab Performing Analysis: TSP - BUCKHANNON WASTEWATER TREAT
Report for the Month of: February	Year: 2018	Plant	

Parameter	Permit Limits	Quantity				Other Units				Measurement Frequency	Sample Type	Lab Test Flag		
		Avg	Max	Units	Number Exceed	Min	Avg	Max	CFI*					
1000 (M-1) RF-A BOD in Conduit Or Treatment Plant Year Round	Reported Permit Limits	N/A N/A	N/A N/A			N/A N/A	400 400	400 400		mgd	0	Continuous Continuous	measured	153
1010 (M-1) RF-A BOD Winter Nov 1-Jun 30	Reported Permit Limits	20.0 313	70.0 626	Lbs/Day	0	N/A N/A	2.3 15	3.4 30		mgA	0	1/week 1/week	0 ft comp	153
1020 (M-1) RF-A Suspended Solids, Total Year Round	Reported Permit Limits	70.1 825.0	85.0 1251.0	Lbs/Day	0	N/A N/A	3.1 20	4.5 80		mgd	0	1/week 1/week	0 ft comp	153
1102 (M-1) RF-A BOD 5day Percent Removal, Dry Year Round	Reported Permit Limits	N/A N/A	N/A N/A			N/A N/A	N/A N/A	95.0 95.0		Percent	0	1/week 4/week	Calculated	153
1103 (M-1) RF-A BOD 5day Percent Removal, Wet Year Round	Reported Permit Limits	N/A N/A	N/A N/A			N/A N/A	N/A N/A	95.0 95.0		Percent	0	1/week 4/week	Calculated	153
1104 (M-1) RF-A Solids, Suspended Percent Removal, Dry Year Round	Reported Permit Limits	N/A N/A	N/A N/A			N/A N/A	N/A N/A	95.0 95.0		Percent	0	1/week 4/week	Calculated	153
1105 (M-1) RF-A Solids, Suspended Percent Removal, Wet Year Round	Reported Permit Limits	N/A N/A	N/A N/A			N/A N/A	N/A N/A	95.0 95.0		Percent	0	1/week 4/week	Calculated	153
1400 (M-1) RF-A Calcium, Fecal Year Round	Reported Permit Limits	N/A N/A	N/A N/A			N/A N/A	20 200	174 400		Col/100ml	0	1/week 1/week	Grab	153
1401 (M-1) RF-A Oil Year Round	Reported Permit Limits	N/A N/A	N/A N/A			N/A N/A	0.66 9	0.78 9		GU	0	1/week 1/week	Grab	153
1402 (M-1) RF-A Dissolved Oxygen Year Round	Reported Permit Limits	N/A N/A	N/A N/A			N/A N/A	7.5 7.5	7.5 7.5		mgd	0	1/week 1/week	Grab	153
1500 (M-1) RF-A Temperature, Air/water Total Winter Nov 1-Jun 30	Reported Permit Limits	13.4 42.0	41.5 125	Lbs/Day	0	N/A N/A	0.470 3	1.904 6		mgd	0	1/week 1/week	0 ft comp	153
1118 (M-1) RF-A Copper Total Recoverable Year Round	Reported Permit Limits	N/A N/A	N/A N/A			N/A N/A	0.0031 0.0031	0.0031 0.0031		mgd	0	1/week 1/week	0 ft comp	150
1403 (M-1) RF-A Grease Flow Collected Winter Nov 1-Jun 30	Reported Permit Limits	N/A N/A	N/A N/A			N/A N/A	30.3 30.3	350.0 350.0		lbs	0	1/week 1/week	Calculated	153

ES-59  
Revised 1975

STATE OF WEST VIRGINIA  
SUMMARY OF WASTEWATER TREATMENT PLANT OPERATORS

Month: Feb-18  
City: Buckhannon W.Va.  
Operator: Dan Baker

Date	INFLUENT WASTEWATER				BELT PRESS			Plant Effluent				Partic. Mat. mg/l		
	Sub. Sol. mg/l	BOD5 mg/l	Flow mgd	Temp C	Grit Scr. C.F.	Gala. Wet Sludge Added	Pounds Dry solids Produced	Sus. Sol. mg/l	Fecal Col./100 ml	BOD5 mg/l	PH			
2/1/18			2.538	10.0	7.04	2.0					8.4	6.70		
2/2/18			2.117	8.0	7.02	2.0					6.6	6.68		
2/3/18			1.656			2.0								
2/4/18			3.409			2.0								
2/5/18			2.780	10.0	6.98	2.0				17	8.0	6.70		
2/6/18			2.398	10.0	6.99	2.0					8.1	6.71		
2/7/18	84	154	4.326	12.0	7.12	2.0	21,085	2,620	2.5	2.0	8.2	6.73	<0.15	
2/8/18			2.780	12.0	7.06	2.0					8.4	6.71		
2/9/18			2.574	13.0	7.09	2.0					8.3	6.74		
2/10/18			1.953			2.0								
2/11/18			1.227			2.0								
2/12/18			3.588	14.0	7.00	2.0				21	8.1	6.70		
2/13/18			2.421	14.0	7.03	2.0	20,002	2,385			7.8	6.72		
2/14/18	110	178	3.536	15.0	7.02	2.0			2.5	1.8	7.6	6.74	<0.15	
2/15/18			3.730	16.0	7.01	2.0					7.5	6.73		
2/16/18			3.765	14.0	6.98	2.0					7.1	6.71		
2/17/18			3.457			2.0								
2/18/18			3.443			2.0								
2/19/18			2.719	16.0	6.97	2.0					7.6	6.68		
2/20/18			2.172	17.0	6.95	2.0					7.7	6.67		
2/21/18	96	187	2.611	17.0	6.90	2.0			4.5	3.4	174	7.4	6.65	1.904
2/22/18			1.892	16.0	6.87	2.0					7.3	6.69		
2/23/18			2.243	17.0	6.90	2.0					7.4	6.70		
2/24/18			3.030			2.0								
2/25/18			3.570			2.0								
2/26/18			2.771	17.0	6.96	2.0	18,483	2,574			41	7.6	6.72	
2/27/18			1.983	17.0	7.01	2.0					7.9	6.75		
2/28/18	92	181	1.706	18.0	7.04	2.0	14,830	2,090	3.0	1.9	7.9	6.78	<0.15	
TOTAL			79.351				74,400	9,669						
AVERAGE	96	175	2.834	14.2	7.00	2.0			3.1	2.3	48	7.9	6.71	0.470
MAXIMUM	112	187	4.326	18.0	7.12	2.0			4.5	3.4	174	8.6	6.78	1.904
MINIMUM	84	154	1.656	8.0	6.87	2.0			2.5	1.8	17	7.3	6.65	<0.15

2. Screw pumps - Replaced a motor
3. Plant pump station - made repairs
4. Clarifier - was clogged, due to too much water in the system, and needed to be pumped down, drained, and cleaned out
5. UV-lights - water overflow in the basement shorted out some lights. These have been replaced, and Mr. Rizo believes they can file a claim to cover the cost.

6. **Lab inspection/certification** – Lab inspection date was changed to April 11. Mr. Rizo believes that lab certification standards have been updated and their application might need to be revised and resubmitted in order to recertify with the new standards. However, the standards may be similar enough that there may not be an issue.
7. **Lunch room upgrades** – Mr. Rizo explained that there is a \$2,000 budget to upgrade counters and paint walls, etc. A leak in the roof needs to be repaired before the upgrade work can be done.

## Correspondence & Information:

### 1. Letter to DEP RE: NPDES Draft Permit Response

March 8, 2018

Lori Devereux, NPDES Team  
Division of Water & Waste Management, DEP  
Permitting Section  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304-2345

CERTIFIED MAIL  
RETURN RECEIPT

Attention: Robert Bates

RE: City of Buckhannon  
NPDES No WV0032336

Dear Bob,

The City of Buckhannon Sanitary Sewer Department has received the draft permit and has several comments, which are addressed as follows:

#### Copper, Total Recoverable (Outlet 001 Sanitary Plant Discharge):

The draft permit reduces the plant discharge limits for copper from 0.0084 mg/l to 0.008 mg/l average monthly and from 0.0221 mg/l to 0.015 mg/l max day. The average monthly reduction appears to be a significant digit matter, and, if so, is not a concern. Reduction in the maximum day limit lowers the limit by over 30%. We believed that negotiations resulting from Buckhannon's appeal of the 2012 permit established the 0.0084 mg/l and 0.0221 mg/l concentrations and would be maintained in the new permit. We request that the limits for copper be changed back to the limits provided in the permit modification issued by DEP after the negotiations of Buckhannon's appeal of the 2012 permit.

#### Zinc, Total Recoverable (Outlet 001 Sanitary Plant Discharge)

Similar to the discussion on copper, we believe that the discharge limits for zinc were addressed during negotiations following Buckhannon's appeal of the 2012 permit. That original permit had limits for zinc at 0.076 mg/l average monthly and 0.122 mg/l max day. After the negotiations, which particularly addressed mixing, DEP issued a permit modification eliminating the numeric limits and making monitoring zinc "Report Only". Proposed limits in the draft permit are 0.075 mg/l average monthly and 0.13 max day. These are essentially the same as the limits in the old permit before the modification. We request that the limits for zinc be changed back to "Report Only" as provided in the permit modification issued by DEP after the negotiations of Buckhannon's appeal of the 2012 permit.

We have noted to DEP during the past several permit cycles that Buckhannon's extended aeration, oxidation ditch type treatment does not target removal of heavy metals like copper or zinc. Any removal is accomplished by uptake into organism cell bodies which becomes part of our sludge disposal. We attempt to maximize this removal by operating at high mixed liquor concentrations. In spite of our efforts, background amounts of some heavy metals can be great enough to affect the plant effluent. We understood that this issue was addressed during the negotiations of our appeal in 2012 resulting in the permit modification.

#### Chronic Toxicity Testing (Outlet 001 Sanitary Plant Discharge):

During the past permit cycle; there were only two occasions when the TUC was greater than one. The two unsuccessful tests were both eight, which we suspect, were bad tests rather than bad samples since, in both cases, the follow up test TUC was one. Given the success of our previous testing and the fact that the toxicity tests do not provide any useful information to improve plant operation, we would request that the test frequency for all the toxicity testing be reduced to once per year. Our research indicates that common causes of toxicity test failure include high chlorine residual, ammonia, or a solids, pH, and DO imbalance. We do not use chlorine and routinely monitor the other parameters, for regulatory and operational purposes. Toxicity testing is arduous and expensive, and we do not believe it provides real benefit to our operation. Once a year testing, with any required follow up, would be sufficient to demonstrate any serious issue with the plant discharge.

#### Phosphorus, Total (Outlet 001 Sanitary Plant Discharge):

Draft permit requirements are for twice a month testing for phosphorus during the period May through October. We understand that this additional testing is to monitor for conditions that promote algae growth and impairment in receiving streams. The Buckhannon River, downstream from the treatment plant has not suffered this condition which has occurred downstream from several nearby treatment plants, and consequently Buckhannon has not been included on an impaired stream list. Since we are testing to provide background information, we would request that we be allowed to sample and test on a once per month basis during the summer period. This would match the rest of our testing schedule requiring involvement of the commercial lab which does our metals and nutrient testing. A twice a month schedule would require a special trip for one test which might make this test very expensive.

**CSO Summary Report:**

During the past several permit cycles, we have requested, and DEP has concurred, that the CSO/ I & I summary report be submitted on a semiannual basis rather than quarterly. Again with this draft permit, quarterly reports are required. We have found that the semiannual reports provide us an excellent opportunity to not only meet a DEP requirement, but also to present an operational summary to our Board members. We request that the report frequency be changed to semiannual.

**Metals, IU01 Transfer Station:**

Several changes were made to the heavy metals discharge limits for the Buckhannon Transfer Station. They are noted as follows.

Parameter	Avg Monthly	Max Day
Mercury	5.0 mg/l to 2.0 mg/l	7.0 mg/l to 3.0 mg/l
Chromium	1.79 mg/l to 0.5 mg/l	2.69 mg/l to 1 mg/l

Efforts are made at the transfer station to prevent dumping of inappropriate material which could cause contaminated drainage. Even so, a single contaminated load, brought during a sampling period could result in high test results. Test results are generally low and we request that the limits from the previous permit be maintained.

**Section F-Combined Sewer System Overflows**

We would request that the language in TMDL item be replaced with statement as shown below.

**8. Total Maximum Daily Load(TMDL)**

b) For the CSO Outfalls noted above, LTCP implementation procedures may include scheduling the TMDL compliance measures at the end of the LTCP compliance schedule (implementation schedule) such that the final LTCP controls necessary to achieve the TMDL may reflect any intervening changes in water quality standards and/or TMDL revisions or updates.

If any of the new or more stringent limits remain in the permit over your objection then we request that the compliance schedules be at a minimum four years, ideally, the full term of the permit.

I appreciate the forum to allow for comments on the draft permit. If you should have any question about any of the modifications that have been requested please contact me via email at Erasmo.rizo@buckhannonwv.org or by telephone at 304-472-5459.

Sincerely,  
Erasmo Rizo  
Superintendent Sewer Department

cc. David W. McCauley, Mayor & Chairman Sanitary Board  
Sanitary Board Members

**2. EPA Sewage Sludge (Bio-solids) Annual Report submittal – submitted and approved**



**Sewage Sludge (Biosolids) Annual Report**  
EPA Regulations – 503.18, 503.28, 503.48

**INSTRUCTIONS**

EPA's sewage sludge regulations (40 CFR part 503) require certain POTWs and Class I sewage sludge management facilities to submit to an annual biosolids report. POTWs that must submit an annual report include POTWs with a design flow rate equal to or greater than one million gallons per day, and POTWs that serve 10,000 people or more. This is the biosolids annual report form for POTWs and Class I sewage sludge management facilities in the 42 states and all tribes and territories where EPA administers the Federal biosolids program.

For the purposes of this form, the term "sewage sludge" also refers to the material that is commonly referred to as "biosolids." EPA does not have a regulatory definition for biosolids but this material is commonly referred to as sewage sludge that is placed on, or applied to the land to use the beneficial properties of the material as a soil amendment, conditioner, or fertilizer. EPA's use of the term "biosolids" in this form is to confirm that information about beneficially used sewage sludge (a.k.a. biosolids) should be reported on this form.

Please note that questions with a (\*) are required. Please also note that EPA may contact you after you submit this report for more information regarding your sewage sludge program.

Questions regarding this form should be directed to the NPDES Electronic Reporting Helpdesk at:

- NPDESreporting@epa.gov OR  
- 1-877-227-8945

What action would you like to take? \*

New Biosolids Program Report

**1. Program Information**

Please select the NPDES ID number below for this Sewage Sludge (Biosolids) Annual Report. \*

VVYD032336: BUCKHANNON, CITY OF

**IMPORTANT** - If you do not see the NPDES ID associated with your facility (i.e., you only see a blue bar in the above drop down list), you MUST follow the instructions in the "Biosolids User's Guide." A shorter set of instructions to fix this issue are in the "Important Instructions on Accessing Your NPDES ID" document. Both documents are located at: <https://enrnc12rncdcs.com/nc/en-us/sections/202108187-General-Biosolids>.

Facility Name: BUCKHANNON, CITY OF

Street: 70 E. MAIN STREET

City: BUCKHANNON

State: WV

Zip Code: 26201

1.1 Please select at least one of the following options pertaining to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with 40 CFR 503. The facility is: \*

- a POTW with a design flow rate equal to or greater than one million gallons per day
- a POTW that serves 10,000 people or more
- a Class I Sludge Management Facility as defined in 40 CFR 503.9
- otherwise required to report (e.g., permit condition, enforcement action)
- none of the above

1.2 Reporting Period Start and End Dates

Start Date of Reporting Period \*  End Date of Reporting Period \*

2. Facility Information

2.1 Biosolids or Sewage Sludge Treatment Processes

Please check the box next to the following biosolids or sewage sludge treatment processes that you use on the sewage sludge or biosolids generated or produced at your facility during the reporting period (check one or more that apply):

Pathogen Reduction Operations (see Appendix B to Part 503)

Processes to Significantly Reduce Pathogens (PSRP)

- Aerobic Digestion
- Air Drying (or "sludge drying beds")
- Anaerobic Digestion
- Lower Temperature Composting
- Lime Stabilization

Processes to Further Reduce Pathogens (FRP)

- Higher Temperature Composting
- Heat Drying (e.g., flash dryer, spray dryer, rotary dryer)
- Heat Treatment (Liquid sewage sludge is treated to temp. of 356°F (or 180°C) or higher for 30 min.)
- Thermophilic Aerobic Digestion
- Beta Ray Irradiation
- Gamma Ray Irradiation
- Pasteurization

Physical Treatment Operations

- Preliminary Operations (e.g., sludge grinding, degritting, blending)
- Thickening (e.g., gravity and/or flotation thickening, centrifugation, belt filter press, vacuum filter)
- Sludge Lagoon

Other Processes to Manage Sewage Sludge

- Temporary Sludge Storage (sewage sludge stored on land 2 years or less, not in sewage sludge unit)
- Long-term Sludge Storage (sewage sludge stored on land 2 years or more, not in sewage sludge unit)
- Methane or Biogas Capture and Recovery
- Other Treatment Process:

2.2 Biosolids or Sewage Sludge Analytical Methods

EPA regulations specify that representative samples of sewage sludge that is applied to the land, placed on a surface disposal site, or fired in a sewage sludge incinerator must be collected and analyzed. These regulations also specify the analytical methods that must be used to analyze samples of sewage sludge. For example, EPA requires facilities to monitor for the certain parameters, which are listed in Tables 1, 2, 3, and 4 of 40 CFR 503.13 and Tables 1 and 2 of 40 CFR 503.23. See also 40 CFR 503.8.

Please check the box next to the following analytic methods used on the sewage sludge or biosolids generated or produced by you or your facility during the reporting period (check one or more that apply):

Parameter	Method Number or Author	Description Text for Certification Section
Pathogens		
Ascaris ova	<input type="checkbox"/> Sludge Monitoring - Ascaris ova. <input type="checkbox"/> Other Ascaris ova Analytical Method:	Sludge Monitoring - Ascaris ova, "Test Method for Detecting, Enumerating, and Determining the Viability of Ascaris in Sludge (Appendix I)," Control of Pathogens and Vector Attraction in Sewage Sludge, EPA-625-R-92-013, July 2003
Enteric viruses	<input type="checkbox"/> ASTM Method D4994 - Enteric Viruses <input type="checkbox"/> Other Enteric Viruses Analytical Method: <input checked="" type="checkbox"/> Standard Method 9222 - Fecal Coliform	ASTM Method D4994 - Enteric Viruses, "Standard Practice for Recovery of Viruses from Wastewater Sludges," ASTM International Standard Method 9222 - Fecal Coliform, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association [Note: This method is only allowable for Class B sewage sludge] Standard Method 9221 - Fecal Coliform, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
Fecal coliform	<input type="checkbox"/> Standard Method 9221 - Fecal Coliform <input type="checkbox"/> EPA Method 1680 - Fecal Coliform <input type="checkbox"/> EPA Method 1681 - Fecal Coliform <input type="checkbox"/> Other Fecal Coliform Analytical Method:	EPA Method 1680 - Fecal Coliform, "Fecal Coliforms in Sewage Sludge by Multiple-Tube Fermentation using Lysuryl Tryptose Broth and EC Medium," EPA-821-R-10-003, April 2010 EPA Method 1681 - Fecal Coliform, Fecal Coliforms in Sewage Sludge (Biosolids) by Multiple-Tube Fermentation using A-1 medium, EPA-821-R-04-027, June 2005
Helminth ova	<input type="checkbox"/> W.A. Yanko Method - Helminth ova. <input type="checkbox"/> Other Helminth ova Analytical Method:	W.A. Yanko Method - Helminth Ova, "Occurrence of Pathogens in Distribution and Marketing Municipal Sludges," EPA-600-1-87-014, 1987
Salmonella sp. Bacteria	<input type="checkbox"/> Standard Method 9260 - Salmonella <input type="checkbox"/> EPA Method 1682 - Salmonella <input type="checkbox"/> Kenner and Clark Method - Salmonella <input type="checkbox"/> Other Salmonella sp. Bacteria Analytical Method:	Standard Method 9260 - Salmonella, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association EPA Method 1682 - Salmonella in Sewage Sludge (Biosolids) by Modified Semisolid Rappaport-Vasthakis (MSRV) Medium," EPA-821-R-06-014, July 2006 Kenner and Clark Method - Salmonella, "Detection and Enumeration of Salmonella and Pseudomonas aeruginosa," J. Water Pollution Control Federation, 46(9):2163-2171, 1974
Total Culturable Viruses	<input type="checkbox"/> Class A Sludge Monitoring - Total Culturable Viruses <input type="checkbox"/> Other Total Culturable Viruses Analytical Method:	EPA Class A Sludge Monitoring - Total Culturable Viruses, "Method for the Recovery and Assay of Total Culturable Viruses from Sludge (Appendix H)," Control of Pathogens and Vector Attraction in Sewage Sludge, EPA-625-R-92-013, July 2003
Metals		
Arsenic	<input checked="" type="checkbox"/> EPA Method 6010 - Arsenic (ICP-OES) <input type="checkbox"/> EPA Method 6020 - Arsenic (ICP-MS) <input type="checkbox"/> EPA Method 7010 - Arsenic (GF-AAS) <input type="checkbox"/> EPA Method 7061 - Arsenic (AA-G10) <input type="checkbox"/> Other Arsenic Analytical Method:	EPA Method 6010 - Arsenic (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 6020 - Arsenic (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7010 - Arsenic (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7061 - Arsenic (Atomic Absorption - Caseous Hydride), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
Beryllium	<input type="checkbox"/> EPA Method 6010 - Beryllium (ICP-OES) <input type="checkbox"/> EPA Method 6020 - Beryllium (ICP-MS) <input type="checkbox"/> EPA Method 7000 - Beryllium (FAAS) <input type="checkbox"/> EPA Method 7010 - Beryllium (GF-AAS) <input type="checkbox"/> Other Beryllium Analytical Method:	EPA Method 6010 - Beryllium (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 6020 - Beryllium (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7000 - Beryllium (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7010 - Beryllium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
Cadmium	<input checked="" type="checkbox"/> EPA Method 6010 - Cadmium (ICP-OES) <input type="checkbox"/> EPA Method 6020 - Cadmium (ICP-MS) <input type="checkbox"/> EPA Method 7000 - Cadmium (FAAS) <input type="checkbox"/> EPA Method 7010 - Cadmium (GF-AAS) <input type="checkbox"/> EPA Method 7131 - Cadmium (GF-AAS) <input type="checkbox"/> Other Cadmium Analytical Method:	EPA Method 6010 - Cadmium (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 6020 - Cadmium (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7000 - Cadmium (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7010 - Cadmium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7131 - Cadmium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
Chromium	<input checked="" type="checkbox"/> EPA Method 6010 - Chromium (ICP-OES) <input type="checkbox"/> EPA Method 6020 - Chromium (ICP-MS) <input type="checkbox"/> EPA Method 7000 - Chromium (FAAS) <input type="checkbox"/> EPA Method 7010 - Chromium (GF-AAS) <input type="checkbox"/> EPA Method 7191 - Chromium (AA-FT) <input type="checkbox"/> Other Chromium Analytical Method:	EPA Method 6010 - Chromium (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 6020 - Chromium (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7000 - Chromium (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7010 - Chromium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7191 - Chromium (Atomic Absorption - Furnace Technique), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
Copper	<input checked="" type="checkbox"/> EPA Method 6010 - Copper (ICP-OES) <input type="checkbox"/> EPA Method 6020 - Copper (ICP-MS) <input type="checkbox"/> EPA Method 7000 - Copper (FAAS) <input type="checkbox"/> EPA Method 7010 - Copper (GF-AAS) <input type="checkbox"/> Other Copper Analytical Method:	EPA Method 6010 - Copper (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 6020 - Copper (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7000 - Copper (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7010 - Copper (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
Lead	<input checked="" type="checkbox"/> EPA Method 6010 - Lead (ICP-OES) <input type="checkbox"/> EPA Method 6020 - Lead (ICP-MS) <input type="checkbox"/> EPA Method 7000 - Lead (FAAS) <input type="checkbox"/> EPA Method 7010 - Lead (GF-AAS) <input type="checkbox"/> EPA Method 7421 - Lead (AA-FT) <input type="checkbox"/> Other Lead Analytical Method:	EPA Method 6010 - Lead (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 6020 - Lead (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7000 - Lead (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7010 - Lead (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846 EPA Method 7421 - Lead (Atomic Absorption - Furnace Technique), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
Mercury	<input checked="" type="checkbox"/> EPA Method 7471 - Mercury (CVAA) <input type="checkbox"/> Other Mercury Analytical Method:	EPA Method 7471 - Mercury in Solid or Semi-Solid Waste (Cold Vapor Atomic Absorption), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846

Parameter	Method Number or Author	Description Text for Certification Section
Molybdenum	<input checked="" type="checkbox"/> EPA Method 6010 - Molybdenum (ICP-OES)	EPA Method 6010 - Molybdenum (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 6020 - Molybdenum (ICP-MS)	EPA Method 6020 - Molybdenum (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7000 - Molybdenum (FAAS)	EPA Method 7000 - Molybdenum (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7010 - Molybdenum (GF-AAS)	EPA Method 7010 - Molybdenum (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7481 - Molybdenum (AA-FT)	EPA Method 7481 - Molybdenum (Atomic Absorption - Furnace Technique), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
Nickel	<input type="checkbox"/> Other Molybdenum Analytical Method:	
	<input checked="" type="checkbox"/> EPA Method 6010 - Nickel (ICP-OES)	EPA Method 6010 - Nickel (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 6020 - Nickel (ICP-MS)	EPA Method 6020 - Nickel (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7000 - Nickel (FAAS)	EPA Method 7000 - Nickel (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7010 - Nickel (GF-AAS)	EPA Method 7010 - Nickel (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
Selenium	<input type="checkbox"/> Other Nickel Analytical Method:	
	<input checked="" type="checkbox"/> EPA Method 6010 - Selenium (ICP-OES)	EPA Method 6010 - Selenium (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 6020 - Selenium (ICP-MS)	EPA Method 6020 - Selenium (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7010 - Selenium (GF-AAS)	EPA Method 7010 - Selenium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7740 - Selenium (AA-FT)	EPA Method 7740 - Selenium (Atomic Absorption - Furnace Technique), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
Zinc	<input type="checkbox"/> EPA Method 7741A - Selenium (AA-GI)	EPA Method 7741A - Selenium (Atomic Absorption - Furnace Technique), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> Other Selenium Analytical Method:	
	<input checked="" type="checkbox"/> EPA Method 6010 - Zinc (ICP-OES)	EPA Method 6010 - Zinc (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 6020 - Zinc (ICP-MS)	EPA Method 6020 - Zinc (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 7000 - Zinc (FAAS)	EPA Method 7000 - Zinc (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846

Parameter	Method Number or Author	Description Text for Certification Section
Ammonia Nitrogen	<input type="checkbox"/> EPA Method 350.1 - Ammonia Nitrogen	EPA Method 350.1 - Ammonia Nitrogen, "Determination of Ammonia Nitrogen by Semi-Automated Colorimetry," August 1993
	<input checked="" type="checkbox"/> Standard Method 4500-NH3 - Ammonia Nitrogen	Standard Method 4500-NH3 - Ammonia Nitrogen, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input type="checkbox"/> Other Ammonia Nitrogen Analytical Method	
Nitrate Nitrogen	<input type="checkbox"/> EPA Method 9056 - Nitrate Nitrogen (C)	EPA Method 9056 - Nitrate Nitrogen (Ion Chromatography), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 9210 - Nitrate Nitrogen (SE)	EPA Method 9210 - Nitrate Nitrogen (Ion-Selective Electrode), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
<input type="checkbox"/> Other Nitrate Nitrogen Analytical Method:		

Parameter	Method Number or Author	Description Text for Certification Section
Nitrogen	<input type="checkbox"/> Standard Method 4500-N - Nitrogen	Standard Method 4500-N - Nitrogen, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input checked="" type="checkbox"/> Other Nitrogen Analytical Method:	Difference between TKH and Ammonia Nitrogen
Organic Nitrogen	<input type="checkbox"/> Standard Method 4500-Norg - Organic Nitrogen	Standard Method 4500-Norg - Organic Nitrogen, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input checked="" type="checkbox"/> Other Organic Nitrogen Analytical Method:	SM4500NI-97
Total Kjeldahl Nitrogen	<input type="checkbox"/> EPA Method 351.2 - Total Kjeldahl Nitrogen	EPA Method 351.2 - Total Kjeldahl Nitrogen, "Determination of Total Kjeldahl Nitrogen by Semi-Automated Colorimetry," August 1993
	<input checked="" type="checkbox"/> Other Total Kjeldahl Nitrogen Analytical Method:	SM4500NB-97

Parameter	Method Number or Author	Description Text for Certification Section
Fixed Solids	<input type="checkbox"/> Standard Method 2540 - Fixed Solids	Standard Method 2540 - Total, fixed, and volatile solids, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input type="checkbox"/> Other Fixed Solids Analytical Method:	
Paint Filter Test	<input type="checkbox"/> EPA Method 9095 - Paint Filter Liquids Test	EPA Method 9095 - Paint Filter Liquids Test, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> Other Paint Filter Test Analytical Method:	
pH	<input checked="" type="checkbox"/> EPA Method 9040 - pH ( $\leq$ 7% solids)	EPA Method 9040 - pH ( $\leq$ 7% solids), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	<input type="checkbox"/> EPA Method 9045 - pH ( $>$ 7% solids)	EPA Method 9045 - pH ( $>$ 7% solids), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
Specific Oxygen Uptake Rate	<input type="checkbox"/> Other pH Analytical Method:	
	<input checked="" type="checkbox"/> Standard Method 2710 - SOUR	Standard Method 2710 - Specific Oxygen Uptake Rate, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
TCLP	<input type="checkbox"/> Other Specific Oxygen Uptake Rate Analytical Method:	
	<input type="checkbox"/> EPA Method 1311 - Toxicity Characteristic Leaching Procedure	EPA Method 1311 - Toxicity Characteristic Leaching Procedure, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
<input type="checkbox"/> Other TCLP Analytical Method:		

Parameter	Method Number or Author	Description Text for Certification Section
Temperature	<input type="checkbox"/> Standard Method 2550 - Temperature	Standard Method 2550 - Temperature, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input type="checkbox"/> Other Temperature Analytical Method:	
Total Solids	<input checked="" type="checkbox"/> Standard Method 2540 - Total Solids	Standard Method 2540 - Total, fixed, and volatile solids, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input type="checkbox"/> Other Total Solids Analytical Method:	
Volatile Solids	<input type="checkbox"/> Standard Method 2540 - Volatile Solids	Standard Method 2540 - Total, fixed, and volatile solids, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	<input type="checkbox"/> Other Volatile Solids Analytical Method:	
No Analytical Methods	<input type="checkbox"/> No Analytical Methods Used	

2.3 What is the estimated total volume of biosolids or sewage sludge produced at your facility for the reporting period (in dry metric tons)? \*

63.59

3. Biosolids or Sewage Sludge Management

EPA NPDES regulations at 40 CFR 503 only require reporting for land application, surface disposal, or incineration. You have the option to select "Other Management Practice" if you wish to provide more information on how you manage your sewage sludge or biosolids. Please use the selections below to identify how sewage sludge or biosolids generated or produced at your facility was managed, used, or disposed by you or your facility for the reporting period. You can use the button below to add as many Sewage Sludge Unique Identifier (SSUID) sections as needed to describe how you manage your sewage sludge.

SSUID Section

Sewage Sludge Unique Identifier (SSUID): 001

Management Practice Type *	Handler, Preparer, or Applier Type *	Management Practice Detail *
Land Application	On-Site Owner or Operator	Agricultural Land Application

Please Note: Land Application includes the distribution and marketing (sale or give away) of Class A EQ. "Off-Site Third-Party Handler or Applier" refers to third parties which do not change the quality of the biosolids. "Off-Site Third-Party Preparer" refers to a third party which changes the quality of the biosolids.

Bulk or Bag/Container *	Pathogen Class *	Volume Amount (dry metric tons) *
Bulk	Class B	63.59

Pollutant Concentrations:

Did the facility land apply bulk sewage sludge when one or more pollutant concentrations in the sewage sludge exceeded a monthly average pollutant concentration in Table 3 of 40 CFR 503.137? \*

Yes  No

Biosolids or Sewage Sludge Pathogen Reduction Options

Please use the selections below to identify the pathogen reduction options used by your facility for this sewage sludge unique identifier for the reporting period (check one or more that apply). \*



- Code** **Pathogen Reduction Option**
- B1 Class B-Alternative 1: Fecal Coliform Geometric Mean
  - B21 Class B-Alternative 2 PSRP 1: Aerobic Digestion
  - B22 Class B-Alternative 2 PSRP 2: Air Drying
  - B23 Class B-Alternative 2 PSRP 3: Anaerobic Digestion
  - B24 Class B-Alternative 2 PSRP 4: Composting
  - B25 Class B-Alternative 2 PSRP 5: Lime Stabilization
  - B3 Class B-Alternative 3: PSRP Equivalency
  - pH pH Adjustment (Domestic Sewage)

**Biosolids or Sewage Sludge Vector Attraction Reduction Options**

Please use the selection below to identify the vector attraction reduction options used by your facility or another person/facility for this sewage sludge unique identifier for the reporting period (check one or more that apply). \*

**Vector Attraction Reduction Options**

- VR1 Option 1: Volatile Solids Reduction
- VR2 Option 2: Bench-Scale Volatile Solids Reduction (Anaerobic Bench Test)
- VR3 Option 3: Bench-Scale Volatile Solids Reduction (Aerobic Bench Test with Percent Solids of Two Percent or Less)
- VR4 Option 4: Specific Oxygen Uptake Rate
- VR5 Option 5: Aerobic Processing (Thermophilic Aerobic Digestion/Composting)
- VR6 Option 6: Alkaline Treatment
- VR7 Option 7: Drying (Equal to or Greater than 75 Percent)
- VR8 Option 8: Drying (Equal to or Greater than 90 Percent)
- VR9 Option 9: Sewage Sludge Injection
- VR10 Option 10: Sewage Sludge Timely Incorporation into Land
- VR11 Option 11: Sewage sludge Covered at the End of Each Operating Day

**Noncompliance Reporting**

Please use the check boxes below to indicate any noncompliance with EPA's Federal sewage sludge program requirements (see 40 CFR 503) for this facility during the reporting period. EPA notes that any person who prepares sewage sludge (i.e., person who generates sewage sludge or a person who derives a material from sewage sludge) shall ensure that the applicable requirements in EPA's biosolids regulations (40 CFR 503) are met when the sewage sludge is applied to the land, placed on a surface disposal site, or fired in a sewage sludge incinerator (see 40 CFR 503.7).

**Land Application**

- Facility land applied bulk sewage sludge or sold or gave away sewage sludge in a bag or other container when one or more pollutant concentrations in the sewage sludge exceeded a land application ceiling pollutant limit (see Table 1 of 40 CFR 503.13).
  - Facility failed to properly collect and analyze its sewage sludge in accordance with the required monitoring frequency and approved analytical methods in order to obtain an accurate and representative sample (including appropriate method holding times) (see permit requirements and 40 CFR 503.8).
  - Facility had deficiencies with pathogen reduction (see 40 CFR 503.22).
  - Facility had deficiencies with vector attraction reduction (see 40 CFR 503.33).
  - Land application of bulk sewage sludge likely to adversely affect a threatened or endangered species listed under Section 4 of the Endangered Species Act or its designated critical habitat (see 40 CFR 503.14(d)).
  - Bulk sewage sludge was applied to agricultural land, forest, a public contact site, or a reclamation site that was flooded, frozen, or snow covered such that the bulk sewage sludge entered a wellhead or other waters of the United States, as defined in 40 CFR 122.2, except as provided in a permit issued pursuant to Section 402 or 404 of the CWA (see 40 CFR 503.14(b)).
  - Bulk sewage sludge was applied to agricultural land, forest, or a reclamation site was 10 meters or less from waters of the United States, as defined in 40 CFR 122.2, unless otherwise specified by the permitting authority (see 40 CFR 503.14(c)).
  - Bulk sewage sludge was applied to agricultural land, forest, a public contact site, or a reclamation site at a whole sludge application rate that was greater than the agronomic rate for the bulk sewage sludge, unless, in the case of a reclamation site, otherwise specified by the permitting authority (see 40 CFR 503.14(d)).
  - One or more label or information sheet requirements were not met for sewage sludge that was sold or given away for land application (see 40 CFR 503.11(c)).
  - Bulk sewage sludge was applied to land where the cumulative pollutant loading rates in 503.12(b)(2) have been reached.
  - The required notice and information was not provided to the land application applicator (see 40 CFR 503.12(f) and (g)).
  - The required notice and information was not provided to the owner or lease holder of the land on which bulk sewage sludge was applied (see 40 CFR 503.12(h)).
  - The required notice was not provided to the permitting authority for the State in which bulk sewage sludge was applied if the bulk sewage sludge was applied to land in a State other than the State in which the bulk sewage sludge was prepared (see 40 CFR 503.12(i) and (j)).
  - The facility failed to keep the necessary records for preparers and applicators during the reporting period (see 40 CFR 503.21).
- When sewage sludge that meets Class B pathogen reduction requirements, but not Class A, is applied to the land, additional site restrictions must be met. Please use the check boxes below to indicate any noncompliance with EPA's Federal sewage sludge Class B pathogen reduction requirements (see 40 CFR 503.22) for this facility during the reporting period.
- Food crops with harvested parts that touched the sewage sludge/soil mixture (such as melons, cucumbers, squash, etc.) were harvested within 14 months after application of sewage sludge (see 40 CFR 503.27(b)(5)(i)).
  - Root crops with harvested parts below the soil surface (root crops such as potatoes, carrots, radishes) were harvested within 20 months after application of sewage sludge and the sewage sludge remained on the land surface for four months or longer prior to incorporation into the soil (see 40 CFR 503.27(b)(5)(ii)).
  - Food crops with harvested parts below the soil surface (root crops such as potatoes, carrots, radishes) were harvested within 30 months after application of the sewage sludge and the sewage sludge remained on the land surface for less than four months prior to incorporation into the soil (see 40 CFR 503.27(b)(5)(iii)).
  - Food crops, feed crops, and fiber crops were harvested within 30 days after application of sewage sludge (see 40 CFR 503.27(b)(5)(iv)).
  - Animals were grazed on a site within 30 days after application of sewage sludge (see 40 CFR 503.27(b)(5)(v)).
  - Turf was harvested within 1 year after application of sewage sludge if the turf was placed on land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority (see 40 CFR 503.27(b)(5)(vi)).
  - Public access to land with high potential for public exposure was not restricted for 1 year after application of sewage sludge (see 40 CFR 503.27(b)(5)(vii)).
  - Public access to land with a low potential for public exposure was not restricted for 30 days after application of sewage sludge (see 40 CFR 503.27(b)(5)(viii)).

Please select this checkbox to continue completing the form.  
If you wish to change the SSUID section(s) above, uncheck this box. \*

**Land Application Monthly Sample Table**

Sample	Sample Period Start Date	Sample Period End Date
Sample 1 Time Period	01-01-2017	12-31-2017

**Maximum Pollutant Concentration Data for All Sewage Sludge Applied to Land \***

This section summarizes the maximum pollutant concentrations in sewage sludge that was applied to land during the reporting year. In accordance with 40 CFR 503.13(a), EPA's sewage sludge regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (see Table 1 of 40 CFR 503.13). In order to identify noncompliance, EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13.

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Arsenic	Maximum	mg/kg	COMPOS
Sample 1			
=		0.71	
Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Cadmium	Maximum	mg/kg	COMPOS
Sample 1			
=		3.39	
Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Copper	Maximum	mg/kg	COMPOS
Sample 1			
=		316.0	
Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Lead	Maximum	mg/kg	COMPOS
Sample 1			
=		43.6	
Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Mercury	Maximum	mg/kg	COMPOS
Sample 1			
=		0.12	
Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Molybdenum	Maximum	mg/kg	COMPOS
Sample 1			
=		1.02	

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Nickel	Maximum	mg/kg	COMPOS
Sample 1			
=	20.4		

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Selenium	Maximum	mg/kg	COMPOS
Sample 1			
=	0.41		

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Zinc	Maximum	mg/kg	COMPOS
Sample 1			
=	956.0		

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Total Nitrogen (TKN plus Nitrate-Nitrite)	Average	mg/kg	COMPOS
Sample 1			
=	27493.75		

**Monthly Average Pollutant Concentration Data for All Sewage Sludge Applied to Land \***

This section summarizes the monitoring-period average pollutant concentrations in sewage sludge that was applied to land during the reporting year.

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Arsenic	Average	mg/kg	COMPOS
Sample 1			
=	0.61		

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Cadmium	Average	mg/kg	COMPOS
Sample 1			
=	2.11		

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Copper	Average	mg/kg	COMPOS
Sample 1			
=	234.75		

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Lead	Average	mg/kg	COMPOS
Sample 1			
=	31.1		

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Mercury	Average	mg/kg	COMPOS
Sample 1			
=	.06		

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Nickel	Average	mg/kg	COMPOS
Sample 1			
=	16.43		

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Selenium	Average	mg/kg	COMPOS
Sample 1			
=	0.35		

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Zinc	Average	mg/kg	COMPOS
Sample 1			
=	751.25		

**Pathogens: Class B, Alternative 1 \***

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Fecal Coliform	Geometric Mean	MPN/gram	GRAB-7
Sample 1			
=	674		

**Vector Attraction Reduction - SDUR Option (Option 4) \***

Biosolids or Sewage Sludge Monitored Parameter	Measurement Type	Unit of Measure (Dry Weight)	Sample Type
Specific Oxygen Uptake Rate (SOUR)	Maximum	Milligrams per hour per gram	GRAB
Sample 1			
=	1.39		

### 3. Letter to Tennerton PSD RE: Issues and concerns

March 14, 2018

John McGrew, Chairman  
Tennerton Public Service District  
188 Fayette Street  
Buckhannon, WV 26201

Dear John:

This letter is being hand delivered to you at the Tennerton PSD regularly scheduled meeting on March 14, 2018 by Buckhannon Sewer Department Superintendent Erasmo Rizo. It is intended to be a follow up on several items relating to Tennerton's use of the Buckhannon Sewer Department facilities for sewage treatment.

First, Mr. Rizo and Sam Ludlow attended the Tennerton PSD Board meeting on February 8, 2017 in order to relate their concerns about extraneous flow being discharged by Tennerton into Buckhannon's system. We were pleased by Mr. Rizo's report to us after that meeting, that Tennerton provided assurance that this matter would be promptly addressed by Tennerton. We are concerned, however, as we continue to monitor the discharge from the Murphy Mart pump station, and now also the East Side pump station, that we see no evidence that the high flows have been reduced. Expected flows from Murphy Mart pump station should be less than 100,000 gallons per day, but we have recorded flows up to 1.6 million gallons per day. These flows overwhelm the collection system and create difficulties at the pump stations and treatment plant. Mr. Rizo will provide details on the high flows at your meeting. These flows cause great concern because they put Buckhannon in serious jeopardy of violating its NPDES permit. Reducing extraneous flow is a matter that urgently needs your immediate attention.

Buckhannon is required by its NPDES Permit to submit Combined Sewer Overflow progress reports to the WV DEP on a semiannual basis. We provide information on all aspects of the system operation relative to their impact on removing extraneous flow. It would be purposeful to receive extraneous flow removal activity reports from Tennerton which we could incorporate into our report.

A second matter of concern is Tennerton's payment of user fees to Buckhannon. During the mid-summer of 2017, Tennerton was five months in arrears in its payment of user fees, for a total amount owed of about \$100,000. After some discussion between Buckhannon's Director of Finance and Administration, Amby Jenkins, and Tennerton's Manager, Terry Gould, the current debt has been reduced to three months in arrears for a total amount outstanding of about \$50,000. In addition to the \$50,000, however, we have not received water consumption information from Tennerton since November to allow us to bill for East Side customers. Billing for the intervening three months would add another \$10,000 to the outstanding debt. We very much appreciated the reduction from the \$100,000 debt and are certainly willing to continue to work with Tennerton on a debt reduction plan, but it is very important to Buckhannon's operation that payments remain current. Buckhannon's rates are below the middle of state wide sewer utility rates, and are what we believe to be necessary to maintain a quality operation. The aggressive operation, maintenance, and upgrade work-performed by the Buckhannon Sewer Department will provide long term financial benefits for both Buckhannon and Tennerton.

Finally, we need to improve general communication with Tennerton. We have made several attempts to obtain meeting minutes of your board meetings without result. In order to encourage reciprocity, we began to send copies of our board meetings to you. We hope those minutes are being distributed to all of your board members and provide you useful information.

As governmental entities, municipal sanitary boards and public service districts are required by law to provide agendas and publish minutes. Both the WV Public Service Commission and the WV Ethics Commission would be resources to provide details regarding this obligation. More than the legal obligation, however, we believe that there are many common matters of concern to Buckhannon and Tennerton that good communication would benefit the performance of both systems

We look forward to your prompt cooperation on these matters.

Very truly yours,

David W McCauley  
Mayor & Chairman Sanitary Board

Cc Upshur County Commission  
Sanitary Board Members  
City Council Members  
Amberle Jenkins, Director of Finance and Administration  
Jerry Arnold, Superintendent of Public Works  
Erasmo Rizo, Superintendent of Sewer Department  
Sam Ludlow, City Engineer Sewer Department

#### Strategic Issues:

1. Building construction on sewer right of way at Holbrook's was discussed
2. Tennerton Board meeting – Sam Ludlow, Amby Jenkins, and Erasmo Rizo attended the Tennerton Public Service District Board meeting on March 14. They learned that to repair their system to operating standards would require a 50-60% rate increase. Tennerton PSD

has not submitted a certified audit for the last ten years. Tennerton PSD accountant, Randy Harris, indicated that there are many noncompliance issues with their financial system.

- 3. Appointment of Departmental Safety Officer** – Based on insurance recommendation, each department is identifying a departmental safety officer. Mr. Rizo will identify the Sanitary Safety Officer at the next meeting. **Motion Fry/Loftis to approve an additional \$.33 per hour in pay for the Departmental Safety Officer; motion passed.**

**Board Member Comments:**

- **Gene Frye** – No comments
- **Phil Loftis** – No comments
- **Mayor McCauley** – Would like to meet at the plant for the June 21, 2018 meeting.

There being no further business to be conducted. **Motion Loftis/Frye to adjourn at 5:18pm. Motion carried.**

**Mayor David McCauley**

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**Recorder Susan Aloï**

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