

EXHIBIT O1



July 12, 2021

NOTICE OF VIOLATION

City of Beaver Falls
ATTN Joseph Durish Jr.
715 15th Street
Beaver Falls PA 15010

Re: Sewage
Beaver Falls STP
NPDES Permit No. PA002688
City of Beaver Falls, Beaver County

Dear Mr. Durish:

This is to confirm the results of the Department's inspection conducted July 6, 2021. The electronic Inspection Report noted conditions which are violations of your NPDES permit and/or The Clean Streams Law, the Act of June 22, 1937, P.L. 1987, as amended, 35 P.S. Sections 691.1 - 691.1001 (The Clean Streams Law). The report may also note conditions that may contribute to or develop into violations of your NPDES permit and/or The Clean Streams Law and therefore need to be addressed. Any violation of The Clean Streams Law is subject to penalties provided by law.




This Notice of Violation is neither an order nor any other final action of the Department of Environmental Protection (Department). It neither imposes nor waives any enforcement action available to the Department under any of its statutes. If the Department determines that an enforcement action is appropriate, you will be notified of the action.

If you have any questions, please call me at 724-847-5279.


Sincerely,

Water Quality Specialist

SEWAGE INSPECTION REPORT

Permit Number	Inspection Date	Entry Time	Exit Time	Inspection Type	Inspection ID
PA0026883	07/06/2021	09:30	11:40	CEI	3214839
Municipality	Beaver Falls		County	Beaver	
Facility Name	CITY OF BEAVER FALLS STP		Permittee Name	BEAVER FALLS CITY BEAVER CNTY	
24-Hour Emergency Contact Person/Phone	Joe Durish / (724) 561-6511		Email	bfstp@outlook.com	
Physical Location Address	LOWER SEVENTH AVE, BEAVER FALLS, PA, 15010				
Permit Expiration Date	10/31/2023	Next Submittal Renewal Due Date	05/04/2023		
Violations*	Violation(s) Noted				
					
1. 92A.44: NPDES - Violation of effluent limits in Part A of permit TSS March 2021					
Recommendations					
--Relocate trash bin to outside of chlorine room					
Person Interviewed	Aaron Summers	Date	07/06/2021	Inspector	AMANDA J SCHMIDT
Signature		Phone Number	(724) 843-7184	Signature	
				Phone Number	(724) 847-5279
Title	Chief Operator		Title	WTR QLTQ SPCST	
Email	bfstp@outlook.com		Email	amschmidt@pa.gov	
<p>This document is official notification that a representative of the Department of Environmental Protection inspected the above facility. The findings of this inspection are shown above and on any attached pages. *Any violations which were noted during the inspection are indicated. Violations may also be discovered upon examination of the results of laboratory analyses of the discharge and/or review of Department records.</p>					

SEWAGE INSPECTION REPORT

Facility Details Section			
Responsible Official	STEPHEN JOHNSON	Title	CITY ADMIN
Business Phone	(724) 843-2808	Email	bfwpcp@hotmail.com
Permittee Address	715 15TH ST, BEAVER FALLS, PA, 15010-4124		
Certified Operator	SUMMERS AARON L	Client ID	350280
Certificates	A,E-2,4	Certification Status	Active
		Expiration Date	09/30/2022
Is a Copy of the permit(s) on-site?			Yes
Has the interviewed operator/person reviewed the facility's permit(s)?			Yes
Non-Compliances 			
1. 25 Pa. Code 92a.41(a)(10) : Failure to maintain proper sample temperature.			
Comments			
Inspection performed for routine monitoring. Responsible official is now Joe Durish Jr.			
Participants: ----			

SEWAGE INSPECTION REPORT

1 Mon,Rpts&Rcnds: 0472402 - TRTMT PLT


Influent Sampling

MRR-1	Is influent monitoring required by the permit?	Yes	
MRR-2	Are influent samples collected?	Yes	
MRR-3	Is the influent sampling location prior to all treatment?	Yes	
MRR-4	Is the influent sampling location prior to all return flows?	Yes	
MRR-5	Are representative influent samples collected?	Yes	

Effluent Sampling

MRR-6	Is the effluent sample collected at the location identified in the permit?	Yes	
MRR-7	Where is the effluent sample collection location?	IMP 001	
MRR-8	Is the effluent sample location after all treatment?	Yes	
MRR-9	Are representative effluent samples collected?	Yes	

Sample Collection

MRR-10	Are samples collected as required by the permit?	Yes	
MRR-11	Is proper sampling equipment / containers used during collection?	Yes	
MRR-12	Are the proper type of samples collected in accordance with the permit?	Yes	
MRR-13	Are the samples collected at the frequency in accordance with the permit?	Yes	
MRR-14	Is the proper sample size (minimum aliquot 100 mL) collected?	Yes	
MRR-15	Is proper temperature control provided during collection, storage and shipping?	Yes	
MRR-16	Is the temperature of the sampler or storage refrigerator monitored using an NIST traceable thermometer and recorded?	Yes	
MRR-17	Is the sample storage temperature ≤ 6 °C ?	No	
MRR-18	What is the sample storage temperature? Notes: New composite sampler on order	9	

On-site Lab Accreditation-by-Rule

MRR-19	Does the facility analyze accredited-by-rule parameters only?	No	
--------	---	----	--

Lab Accreditation

MRR-23	Does the on-site laboratory analyze permit parameters?	No	
MRR-29	Are permit parameters analyzed by a contract lab?	Yes	

SEWAGE INSPECTION REPORT

MRR-30	Contract Lab Name, City, Phone	CMA Env Labs	
MRR-31	Contract Laboratory Accreditation ID	33-00411	
MRR-32	Is the contract lab accredited for those permit parameters?	Yes	
MRR-33	Have any changes occurred with the accredited-by-rule or the accredited parameters or labs?	No	

Analysis

MRR-35	Are approved test methods (per 40 CFR Part 136 or others) used for permit parameters?	Yes	
MRR-36	Are the methods used sufficiently sensitive for permit parameters?	Not Observed	
MRR-37	Are the samples analyzed within the required holding time?	Yes	
MRR-38	Are laboratory equipment/meters calibrated in accordance with the manufacturers' specifications?	Yes	
MRR-39	Are laboratory meters operated and maintained in accordance with the manufacturers' specifications?	Yes	
MRR-40	Are pH buffers and other reagent standards current?	Yes	

Records

MRR-41	Are sampling, calibration, laboratory results, chain-of-custody and other required records readily available for review and complete?	Yes	
MRR-42	Do the sampling records include collector, date/time, location information?	Yes	
MRR-43	Do the analysis records include the analyst's name, the analysis date and time, the test method used, the quantitation limits, and the results?	Yes	
MRR-44	Are the required facility records retained for a minimum of 3 years?	Yes	
MRR-45	Are the required sludge use and disposal records retained for a minimum of 5 years?	Yes	
MRR-46	Was access provided to information or to facility records upon request?	Yes	

Reports

MRR-47	Identify the month/year of the DMRs and supporting data reviewed.	May 2021- pH, TRC,TSS	
MRR-48	Are the reviewed DMRs and supplemental reports properly completed?	Yes	
MRR-49	Are the reviewed bench sheets/lab reports consistent with the reported data?	Yes	
MRR-50	Are samples collected more frequently than required in the permit?	No	
MRR-52	Are DMRs submitted on time?	Yes	
MRR-53	Are the required supplemental reports submitted?	Yes	
MRR-54	Is the facility using the eDMR system, if required?	Yes	

SEWAGE INSPECTION REPORT

2 Flow Measurement: 0472402 - TRTMT PLT

Flow Measurement

Q-2	If influent flows are measured, are they measured before all return lines and after hauled-in waste?	Yes	
Q-3	Is a flume present?	No	
Q-6	Is a weir present?	Yes	
Q-7	Are weirs clean with a visible air space below nappe?	Yes	
Q-8	What is the max flow that can be measured at the primary device (flume or weir)?	15.415	

Meter & Recorder

Q-9	Does the permit require continuous flow monitoring and recording?	Yes	
Q-10	Does the facility have the required flow monitoring and recording capabilities?	Yes	
Q-11	What type of flow meter is used?	Ultrasonic	
Q-12	What type of flow recorder is used?	Totalizer	
Q-13	Are the meter and recorder operable and operating?	Yes	
Q-14	What is the date of the most recent flow meter calibration?	1/22/21	
Q-15	What is the calibration range of the flow meter?	0-15.92 MGD	
Q-16	What is the flow range of the recorder?	0-15.92 MGD	
Q-17	What is the current flow meter reading (MGD or gpm)?	1.77 MGD	

High Flows

Q-18	Does the permit require a High Flow Management Plan?	Not Applicable	
Q-19	At what flow (gpm or MGD) is the plan to be implemented?	7.5 MGD	
Q-20	Is the plan being implemented?	Yes	

3 TP Treatment Plant: 0472402 - TRTMT PLT

Treatment Units

TP-1	Are all treatment units operable?	Yes	
TP-2	Are the treatment units/equipment as described in the WQM permit(s) or in the previous inspection report?	Yes	

Stand-by Power

TP-7	Is stand-by power provided?	Yes	
------	-----------------------------	-----	--

SEWAGE INSPECTION REPORT

TP-8	Type of Stand-by Power	Emergency generator	
TP-9	How often is the stand-by power unit maintained?	Weekly	
TP-10	How often is the stand-by power unit exercised?	Weekly	
TP-11	Is the stand-by power unit exercised under load?	Yes	
TP-12	Is the stand-by power system operable and maintained?	Yes	

Alarms

TP-13	Is an alarm system available?	Yes	
TP-14	Type of Alarm	Other	
TP-15	How often is the alarm system tested?	Twice Yearly	
TP-16	What conditions trigger an alarm? Select all that apply.	Other Power failure High level Pump faults Pump failure Intrusion Leaks	
TP-17	Is the alarm system(s) operable?	Yes	

Chemicals

TP-18	Are chemicals used for treatment or otherwise added to the waste stream?	Yes	
TP-19	Which chemicals are added?	Polymer	
TP-20	What is the purpose of the chemical addition?	Sludge	
TP-21	Where are the chemicals added?	NS4375	
TP-22	Are chemicals properly handled and stored to prevent a pollution incident?	Yes	

Bypasses

TP-23	Did a treatment plant bypass occur since the last inspection?	No	
-------	---	----	--

Planned Changes

TP-35	Have any changes (new pollutants, different or increased volume or loadings) to the waste stream from industrial or hauled-in wastes occurred since the last inspection?	No	
-------	--	----	--

4 O&M: 0472402 - TRTMT PLT

O&M

SEWAGE INSPECTION REPORT

OM-1	Which of the following treatment plant and equipment records are available?	Other	
OM-2	Is a daily operations log on-site?	Yes	
OM-3	Is the daily operations log up to date?	Yes	
OM-4	Which operational conditions/actions are recorded in the log?	Observations Process adjustments Problems or Concerns	
OM-5	Are process control parameters monitored? (Record the monitoring frequency and current results)	Yes	
OM-6	Is an influent/process control supplemental report form completed and submitted with the DMR?	Yes	
OM-7	Does the daily operations log include maintenance and repair records? Notes: Seperate	Yes	
OM-10	Are the PM and repair logs up to date?	Yes	
OM-11	Were major equipment repairs/replacements done since the last inspection? Notes: New Grit hopper, New pressure relief valves on digesters, Replaced belt on filter press, New combustible gas meters on the influent.	Yes	
OM-12	Is a spare parts inventory, either written or electronic, maintained?	Yes	
OM-13	Are spare parts and equipment (pumps, motors) maintained on-site or readily available?	Yes	

Solids Management

OM-14	What is the sludge storage capacity?	460,000 gallons	
OM-15	How much sludge was removed from the facility in the past year?	345.82 tons	
OM-16	How does the facility determine how much sludge to waste?	Obs dig. Supernatant	
OM-17	Is sludge/biosolids production & disposal information submitted on the applicable supplemental report form with the DMR?	Yes	
OM-18	Does the facility test the removed sludge for %TS?	Yes	
OM-19	Who provides sludge hauling/disposal/land application?	Brunner	
OM-20	Where is the sludge disposal/biosolids application location?	Brunner Landfill	
OM-21	How and where are other solid materials, such as collected screenings and grit, disposed?	Brunner Landfill	
OM-22	Has the facility obtained or assured that contracted agents have the necessary permits and approvals for the disposal of solid materials?	Yes	
OM-23	Are solid materials handled and disposed of in compliance with a disposal permit and requirements?	Yes	
OM-24	Is the facility in compliance with all other Part C Special Conditions regarding Solids Management?	Yes	

Hauled in Wastes

OM-25	Does the facility accept hauled-in wastes?	Yes	
OM-26	Does the facility accept hauled-in Municipal Wastes?	Yes	

SEWAGE INSPECTION REPORT

OM-26	Does the facility accept hauled-in municipal wastes?	Yes	
OM-27	Which types of municipal wastes are accepted?	Septage Wastewater sludge Holding tank	
OM-28	Is hauled-in municipal waste information submitted on the applicable supplemental report form with the DMR?	Yes	
OM-29	Are hauled-in Residual Wastes accepted?	Yes	
OM-30	Which types of residual wastes are accepted?	Other Landfill Leachate	
OM-31	Is hauled-in residual waste information submitted on the applicable supplemental report form with the DMR?	Yes	
OM-32	At what flow does the facility stop accepting hauled-in wastes?	N/A	
OM-33	Have the maximum amounts of hauled-in wastes that can be accepted (daily, weekly, etc.) been determined?	Yes	
OM-34	Does the influent sampling location capture all hauled-in waste?	Yes	
OM-35	Is all hauled in waste accounted for in the influent loading?	Yes	
OM-36	Is the facility in compliance with other the Part C Hauled-In Waste Restrictions?	Yes	

Stormwater

OM-37	Does the permit include a special condition or other requirements regarding stormwater management?	Yes	
OM-38	Has a PPC Plan for stormwater discharges been submitted?	Yes	
OM-39	Is the Stormwater PPC Plan available on-site?	Yes	
OM-40	When was the Stormwater PPC Plan last updated?	August 2020	
OM-41	Is the facility in compliance with all permit requirements applicable to stormwater outfalls?	Yes	

Special Conditions

OM-42	Is the facility subject to industrial pretreatment requirements, or does the permit include a Part C Special Condition regarding Industrial Pretreatment?	No	
OM-45	Does the permit contain a condition regarding whole effluent toxicity (WET) tests?	Yes	
OM-46	Has WET testing been conducted?	Yes	
OM-47	Is the facility in compliance with all other permit requirements applicable to WET testing?	Yes	
OM-48	Are any other special conditions in the permit not covered in this inspection report?	No	

5 DP Discharge Point: 001 - OUTFALL 001

Outfall

DP-1	Outfall Observations	Ok	
------	----------------------	----	--

SEWAGE INSPECTION REPORT

DP-2	Were field measurements taken?	No	
DP-4	Were effluent samples collected for laboratory analysis?	No	

Downstream

DP-10	Is the receiving stream clear of floating or deposited materials, scum, sheen, foam, oil, grease or other substances associated with the discharge?	Yes	
DP-11	Were downstream field measurements taken?	No	
DP-13	Were downstream samples collected for laboratory analysis?	No	

Upstream

DP-19	Was the stream observed upstream from the outfall?	Yes	
DP-20	Were upstream field measurements taken?	No	
DP-22	Were upstream samples collected for laboratory analysis?	No	

7 PS Pump Stations: 0472402 - TRTMT PLT

Pump Stations

PS-1	How many pump stations are part of the facility's collection system?	8	
PS-2	Are pump station flows recorded?	Yes	
PS-3	How are flows measured?	Metered	
PS-4	What type of flow meter/sensor is in use?	Magnetic	
PS-5	When was the most recent flow meter calibration done?	N/A	
PS-7	Are pump stations monitored with alarms?	Yes	
PS-8	Are the alarms operable?	Not Observed	
PS-9	Are the pump stations equipped with backup auxiliary power?	Yes	
PS-10	Type of Stand-by Power	Emergency generator	
PS-11	Is the stand-by power system operable?	Yes	
PS-12	Is the stand-by power system maintained in accordance with manufacturer's recommendations?	Yes	
PS-13	How often is the stand-by power unit maintained?	Weekly	
PS-14	How often is the stand-by power unit exercised?	Weekly	
PS-15	Is the stand-by power unit exercised under load?	Yes	

OpCert: 0472402 - TRTMT PLT

SEWAGE INSPECTION REPORT

Operator Certification

OP-1	Is a properly certified operator employed for the treatment plant?	Yes	
OP-2	Is at least one collection system pump station part of the permitted facility?	Yes	
OP-3	Is an operator with a valid E-4 certificate employed for the operation of the facility's collection system pump station(s)?	Yes	
OP-4	How many properly certified available operators make process control decisions at this facility?	4	
OP-5	Is at least one available operator's current certificate displayed at the treatment plant?	Yes	
OP-6	Have the available operators been provided with a copy of the current NPDES/WQM Permits?	Yes	
OP-7	On which days of the week is an available operator at the plant?	Sunday Monday Tuesday Wednesday Thursday Friday Saturday	
OP-8	How many hours are spent at the plant by the available operator(s) each day (weekdays/weekends/holidays)?	8.5-all	
OP-9	Does the operator notify the owner about violations or conditions that may cause a violation, and needed resources?	Yes	
OP-10	How does the operator notify the owner about known violations or conditions that may cause a violation, and about needed resources?	Email Phone call	
OP-11	Does the owner respond to the operator's notification about needed resources?	Yes	
OP-12	Does the operator act to resolve the condition(s) and/or violation(s)?	Yes	
OP-13	Are non-certified or not properly certified persons expected to perform work that requires process control decisions?	No	
OP-19	If the available operator/operator in charge (OIC) has changed, was a change of operator form submitted to DEP within 10 days?	Not Observed	

Circuit Rider

OP-20	Is the facility operated by a circuit rider?	No	
-------	--	----	--

6 CV Conveyance: 0472402 - TRTMT PLT

Collection System

CV-1	Does the permitted entity own, operate & maintain the entire collection system?	No	
CV-2	How many collection systems owned by others contribute to this facility's system?	8	
CV-3	Are the contributing collection systems causing problems with this facility or it's collection system?	Not Observed	
CV-4	Is collection system maintenance performed?	Yes	
CV-5	Is maintenance regularly scheduled?	Yes	
CV-6	Is maintenance done as problems occur?	Yes	

SEWAGE INSPECTION REPORT

CV-7	Which types of maintenance are performed?	Televising etc.	
CV-8	Does the system experience infiltration and/or inflow that causes or could cause O&M problems or interferes with treatment?	Yes	
CV-9	Is an I&I program in place?	Yes	
CV-10	Select the I&I detection work performed since last inspection	Other Downspout/Floor Drain Inspections Televising	
CV-11	Select the I&I removal work performed since last inspection	Other Manhole Repair Pipe Replacement	
Sanitary Sewer Overflows			
CV-12	Have any sanitary sewer overflows occurred since the last inspection?	No	

SEWAGE INSPECTION REPORT

3 TP Treatment Plant: 0472402 - TRTMT PLT

Treatment Units

TP-1	Are all treatment units operable?			
Treatment Units	Total	On-Line	Inoperable	Comments
Grit Removal	1	1	0	
Primary Clarifier	3	3	0	
Belt Filter Press	1	1	0	
Sludge Holding Tank/Lagoon	1	1		For Skimmer
Aeration Basin	1	1	0	
Grease Removal	1	1	0	
Other	1	1	0	Sludge Decant Tank
Secondary Clarifier	5	4	0	1 tank down for maintenance
Other	2	2	0	Primary and secondary wet wells
Trickling Filter	2	2	0	
Chlorine Contact Tank	2	2	0	Gas chlorination
Anaerobic Digester	2	2	0	

4 O&M: 0472402 - TRTMT PLT

O&M

OM-5	Are process control parameters monitored? (Record the monitoring frequency and current results)	
Parameter / Calculation	Frequency Of Testing	Current Testing Results
Settleability	7/week	N/O
Dissolved Oxygen	7/week	N/O
Alkalinity	7/week	N/O
Sludge Blanket	Daily (Visual)	OK
pH	Inf 7/week	N/O
Alkalinity	7/week	N/O
Temperature	Daily	N/O

SEWAGE INSPECTION REPORT

Other

CO₂, VOAs, yr. comp

N/O



SEWAGE COMPLIANCE INSPECTION REPORT

NPDES / WQM Permit No. PA0026883	Mo/Day/Year 8/13/2019	Entry Time 9:15	Exit Time 11:15	Inspection Type CEI	eFACTS Inspection ID 2919193
Facility Name: Beaver Falls STP			Permittee Name: City of Beaver Falls		
Physical Location/Directions: 100 6th Avenue, Beaver Falls PA 15010				Permit Expiration Date: 10/31/23	
Municipality: City of Beaver Falls		County: Beaver		Permit Renewal Application Due: 5/4/23	
Facility Type: <input checked="" type="checkbox"/> Municipal <input checked="" type="checkbox"/> Major <input type="checkbox"/> Non-Municipal <input type="checkbox"/> Minor		Treatment Process: <input type="checkbox"/> Ext Aeration <input type="checkbox"/> Contact Stabilization <input type="checkbox"/> SBR <input type="checkbox"/> RBC <input type="checkbox"/> MBR <input type="checkbox"/> MBBR/IFAS <input checked="" type="checkbox"/> Trickling Filter <input type="checkbox"/> Lagoon			
Design Flow: 4.8 MGD		<input type="checkbox"/> Other:			
Responsible Official: Jim Breznai			Does the facility have an Operator in Responsible Charge: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Title: Manager			Operator Name: Joseph Durish Jr.		
Permittee Address: 715 15th Street Beaver Falls PA 15010			Circuit Rider: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
			Client ID: 296046 License Expiration Date: 12/31/2019		
			Class-Subclass(es): A,E-2,4		
			Operator properly certified for treatment process type: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Business Phone: 724-843-7184			Business Phone: 724-843-7184		
Cell Phone: 724-624-1821			Cell Phone: 724-561-6511		
Email: bfwpcp@hotmail.com			Email: joedurish88@gmail.com		
24-Hour Emergency Contact Person / Phone / Email: Joe Durish / 724-561-6511					
VIOLATIONS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> None Identified During Inspection <input type="checkbox"/> Pending Sample Results					
--Violations of effluent limits in Part A of the NPDES Permit [25 Pa. Code 92a.44]					
Recommendations: --Continue to evaluate options to address peak flows, in the interest of reducing effluent exceedances. --Review Part C.IV.D of the renewed permit & ensure semi-annual stormwater inspections are completed & documented. --Regarding basement back ups on 9 th Ave, Conduct flow monitoring studies & review system design to determine how high flows can be better accomodated. Complete repairs as necessary, noting that certain modifications may require a WQM Part II Permit ammendment.					
Person Interviewed: J. Durish Jr & Others		Date: 8/13/19	Inspector: Amanda Schmidt		Date: 9/18/19
Signature: [Report Sent by Email]		Phone No.: 724-843-7184	Inspector Signature: <i>Amanda Schmidt</i>		Phone No.: 724-847-5279
Title: Chief Operator, Maintenance Supervisor			Title: Water Quality Specialist		
Email: joedurish88@gmail.com			Email: amschmidt@pa.gov		
This document is official notification that a representative of the Department of Environmental Protection inspected the above facility. The findings of this inspection are shown above and on any attached pages. * Any violations which were noted during the inspection are indicated. Violations may also be discovered upon examination of the results of laboratory analyses of the discharge and/or review of Department records.					

SEWAGE COMPLIANCE INSPECTION REPORT

Comments

This inspection was conducted for routine monitoring. Joe Durish Jr & Joe Durish Sr were present on behalf of the permittee.

Administrative Review

- The NPDES permit has been renewed since the last inspection.
- The following exceedances were indicated on eDMRs submitted for July 2018 through June 2019:

September 2018-TSS

Monthly Average Load--Reported value 1811.7 mg/L, Permit limit: 1201.7 mg/L

Weekly Average Load--Reported value 5656.3 lbs/day, Permit limit: 1802.5 lbs/day

Monthly Average Concentration--Reported value: 32 mg/L, Permit limit: 30 mg/L

Weekly Average Concentration--Reported value: 77 mg/L, Permit limit: 45 mg/L

These exceedances were attributed to hydraulic overload of the STP. DMR comments indicate that 11.1 inches of rain was received during the month.

May 2019-TSS and Fecal Coliforms

TSS Weekly Average Load--Reported value: 3542.1 lbs/day, Permit limit: 1802.5 lbs/day

Fecals Instantaneous Max Concentration--Reported value: 1940 per 100 mL, Permit limit: 1000 per 100 mL

These exceedances were attributed to hydraulic overload of the STP. DMR comments indicate that 3.15 inches of rain was received during the sampling period from 5/25-29.

June 2019-TSS and Fecal Coliforms

Monthly Average Load--Reported value 1897.5 mg/L, Permit limit: 1201.7 mg/L

Weekly Average Load--Reported value 3989.7 lbs/day, Permit limit: 1802.5 lbs/day

Monthly Average Concentration--Reported value: 36 mg/L, Permit limit: 30 mg/L

Weekly Average Concentration--Reported value: 68 mg/L, Permit limit: 45 mg/L

Fecals Monthly Average Concentration--Reported value: 215 per 100 mL, Permit limit: 200 per 100 mL

These exceedances were attributed to hydraulic overload of the STP. DMR comments indicate that 10.32 inches of rain was received during the month.

The above listed exceedances were addressed in a CACP issued by the Department in early September 2019.

Site Inspection

- Weather conditions were sunny with temperatures in the high 70s.
- Since the last inspection, several repairs and upgrades have been made to the treatment process. Additional details are included on attached pages.



SEWAGE COMPLIANCE INSPECTION REPORT

Monitoring, Reporting and Recordkeeping (NPDES Permit Part A / WQM Permit)

On-site laboratory: Registered Accredited Accreditation By Rule Not Registered/Accredited N/A

On-site analyses: pH DO TRC All NPDES parameters None

Other(s): Alkalinity, Settleable Solids

DEP Lab Registration/Accreditation #: 04-01709

Lab Supervisor: Joe Durish Jr.

Lab Supervisor Client ID: 296046

License Expiration Date: 12/31/2019

Comments:

Contract Laboratory Name: CMA Environmental Laboratory

DEP Lab Accreditation #: 33-00411

Address & Phone: 265 College Avenue, Beaver PA 15009 724-728-5539

Parameters Analyzed: Influent: TSS & BOD, Effluent: CBOD, Fecals, TSS, Ammonia Nitrogen, Total N, Total P

Comments:

Sample Collection: Influent sampling prior to any treatment: Yes No Location: Influent Channel prior to bar screen

Influent sampled prior to all process return piping: Yes No N/A

Influent sampled prior to flow from septage receiving station: Yes No N/A

Effluent sampling after all treatment: Yes No Location: Discharge from Chlorine Contact Tank

Location(s) adequate for representative samples: Yes No N/O

Parameters analyzed, sample frequencies and sample types meet permit requirements: Yes No N/O

Samples properly preserved during collection, storage and shipping: Yes No N/O

Sampler or sample temperature is recorded using NIST traceable thermometer: Yes No N/O

Comments: Dalton Service Company discharges sludge press wastewater to Manhole 129. Analysis of this discharge is included in plant's influent composite sampling.

Influent Samples: Being collected: Yes No N/O Samples are: Grab 8-hour comp 24-hour comp Other

Samples are: Flow Proportional Time Proportional Not flow proportional N/A

Sampler controlled by: Flow meter Timed Collection N/A Other:

Minimum aliquot volume at least 100 ml: Yes No N/A Composite sampler temperature during inspection: 0°C

Comments: Samples are stored in lab refrigerator; Temperature is monitored with an NIST traceable thermometer.

Effluent Samples: Being collected: Yes No N/O Samples are: Grab 8-hour comp 24-hour comp Other

Samples are: Flow Proportional Time Proportional Not flow proportional N/A

Sampler controlled by: Flow meter Timed Collection N/A Other:

Minimum aliquot volume at least 100 ml: Yes No N/A Composite sampler temperature during inspection: 4°C

Comments: Operator confirmed that Fecal Coliforms are collected by grab sampling.

Sample records: Available for inspection: Yes No Retained for at least three years: Yes No

Includes: Collector name: Yes No Collection date/time: Yes No Collection location: Yes No

Analyst name: Yes No Analysis date/time: Yes No Analysis Results: Yes No

Analytical methods & quantitation limits: Yes No Chain-of-Custody forms: Yes No

Comments:

Bench sheets: Data is consistent with data on the DMR: Yes No N/A Month(s)/year checked: April 2019

Comments:

SEWAGE COMPLIANCE INSPECTION REPORT

Monitoring, Reporting and Recordkeeping (NPDES Permit Part A / WQM Permit)

Field Testing: Completed within required hold time: Yes No N/O
 Equipment is calibrated as required: pH: Yes No N/O DO: Yes No N/O N/A
 pH Buffers current: Yes No TRC Meter checked against standards: Yes No N/O N/A
 Calibration records maintained: Yes No N/O Calibration records up to date: Yes No N/O

Comments:

DMR Submittal: DMRs are submitted as required: Yes No N/O eDMR User: Yes No

All Supplemental Reports are submitted as required: Yes No N/O

DMRs include all sample results collected and analyzed using approved methods: Yes No N/O

Comments:

Flow Measurement (NPDES Permit Part A / WQM Permit)

Primary flow meter and recorder: Operable: Yes No Properly maintained: Yes No
 Measuring device type: Flume Weir Full Pipe Open Channel Other:
 Meter type: Ultrasonic Magnetic Meter Bubbler Other:
 Flow measurement location(s): Influent Effluent
 Meter location: **Ultrasonic Meter is located at Internal Outfall 101; Mag Meter Located in Primary treatment works building**
 Recorder type: Totalizer Daily Chart 7-Day Chart SCADA/Electronic Other: **Web based**
 Flow meter capable of recording hydraulic design capacity: Yes No Calibration Range: **0-15.92 MGD [effluent]**
 Inspection frequency: Daily Weekly Other:
 Calibration frequency: **Annually** Date of last calibration: **1/23/19**
 Issues noted with measurement and/or recording of flow: Yes No N/A
 Influent flow is measured before all return lines: Yes No Influent flow is measured after hauled-in wastes: Yes No
 Effluent flow is measured after all withdraws: Yes No N/A

Comments: **Mag Meter is used for recirculation pump/sludge to digester. The primary & secondary bypass meters are both ultrasonic and located at the influent channel & secondary wet well. Mechanical valve shuts down secondary wet well at 7.5 MGD.**

Flumes: Flow is uniform across the channel: Yes No N/A Flume is free of debris and deposits: Yes No N/A

Maximum flow capable of measurement with flume: MGD

Comments:

Weirs: Clean with a visible air space below the nappe: Yes No N/A

Maximum flow capable of measurement with weir: **15.415 MGD**

Comments: **(Effluent)**

Treatment Plant (NPDES Permit Part B / WQM Permit)

Treatment plant bypass: Since last inspection: Yes No N/O Reported to DEP: Yes No

Location/cause:

Major equipment repair/replacement: Since last inspection: Yes No N/O

Repair List: **Replacement of stack for Digester #2 and several other items--See comments on Page 6**

Stand-by power: Emergency generator Dual power feed None Other:

System operable: Yes No Exercise frequency: **Weekly (Automated)** Maintenance frequency: **Weekly**

Unit exercised under load: Yes No N/A

Comments:



SEWAGE COMPLIANCE INSPECTION REPORT

Treatment Plant (NPDES Permit Part B / WQM Permit)

Alarms: Type: None SCADA Auto Dialer PLC Other: **Reliance Security dispatches to cell phones**
 System operable: Yes No N/A N/O Test frequency: **Twice Yearly**
Alarm triggers: Primary/Secondary wet well high level, Chlorine leak, Power failure, Pump faults, Bypass of Primary & Secondary treatment. Chlorine cylinder safety valve is tested each time gas cylinder is changed.

Staffing schedule: 24/7 Weekday hours: 7 to 3 Weekend/Holiday hours: 7 to 3
Comments: Maintenance 6:30-2:30

On site Logs: Facility maintains a daily operations log: Yes No N/O Daily log up-to-date: Yes No N/O
 Daily Log contains: Visual observations Process adjustments Problems and concerns
 Repair log maintained: Yes No Routine maintenance log maintained: Yes No N/O
Comments:

Spare parts inventory maintained: Yes No N/O Standby units available: Yes No
Comments: Inventory includes spare pump for primary wet well, several motors for pumps, grit collector motor and booster pump for press, and shoes/wear strips & flights for settling tanks

Facility Process Control Plan required: Yes No N/A Is the plan implemented: Yes No N/A N/O
 System specific management plan available: Yes No N/A N/O
Comments:

Process Control (NPDES Permit Part B / WQM Permit)

Parameter	Frequency of Testing	Current Testing Results
<input checked="" type="checkbox"/> Settleability	3/week	Settleable solids read from Imhoff Cone Raw Influent 9 mL/L
<input checked="" type="checkbox"/> Dissolved Oxygen	3/week	Influent 1.07 mg/L
<input checked="" type="checkbox"/> Alkalinity	3/week	Influent 1000 mg/L
<input checked="" type="checkbox"/> Sludge Blanket		Visual observation only. 4000 gallons/day wasted to digester from each primary settling tank.
<input type="checkbox"/> Mixed Liquor Suspended Solids (MLSS)		
<input type="checkbox"/> Mixed Liquor Volatile Suspended Solids (MLVSS)		
<input type="checkbox"/> Microscopic exam of mixed liquor		
<input type="checkbox"/> Color <input type="checkbox"/> Odor		

Other: **Influent pH: 7.77; Digester Sludge analysis: pH, TRC, alkalinity, Temperature, Settleable solids, CO2, & Volatile Acids. Yearly composite sample of belt press sludge: Metals, Oil & Grease, Ammonia Nitrogen etc.**

Operators

Total Number of Available Operators at this facility: 4
 Does a non-certified operator make process control decisions at this facility: Yes No N/O
 Does facility have a written SOP to direct non-certified operator activities: Yes No N/A N/O
 Available Operator interviewed has reviewed a copy of facility NPDES permit: Yes No N/O
Comments:

SEWAGE COMPLIANCE INSPECTION REPORT

Treatment Process Units (NPDES Permit Part B / WQM Permit)

Treatment Units	Total	On-Line	Inoperable	Date Inoperable / Expected Date Return to Service / Comments
Mechanical Bar Screen	1	1	0	
Grit System	1	1	0	Includes Teacup Separator, which collects grit before second manual bar screen and primary settling tanks.
Manual Bar Screen	3	3	0	One used for back up only(During grit system maintenance)
Primary Wet Well	1	1	0	
Primary Settling Tanks	3	3	0	Drained/cleaned annually. New on/off switches were installed.
Aeration Tank	1	1	0	Backup only
Sludge Decant Tank	1	1	0	
Secondary Wet Well	1	1	0	Flow shut off at 7.5 MGD
Trickling Filters	2	2	0	
Secondary Settling Tanks	5	5	0	Drained/Cleaned annually. New flight & wear shoes were recently installed in #3, 4 and 5, and wear strips in #2.
Sludge Return	1	1	0	
Recirculation Chamber	1	1	0	
Gas Chlorination	1	1	0	Automated disinfection is flow proportional w/ effluent meter.
Chlorine Contact Tanks	2	2	0	New mud valves have been installed
Anaerobic Digesters	2	2	0	Digester #1-newly returned sludge to be dewatered; Digester #2-staging for sludge to be pressed.
Belt Filter Press	1	1	0	Run twice weekly while seasonal sloughing occurs from trickling filters
Skimmer/Holding Tank	1	1	0	
Grease Separator	1	1	0	Grease decanted from primary settling tanks, water then recycled to head works
Sludge Bed				Maintained for backup only
				Primary settling tanks served by 4 primary sludge pumps; 5th maintained for backup.

O&M Manuals available for major pieces of equipment: Yes No N/O

Comments: Rebuilds were recently done for Primary sludge pump, Digester moyno and recirc pumps, Press polymer pump, Secondary raw pump #3, Primary raw pump #3, & Press sludge pump #1. Parts were also rebuilt for all sludge pumps in stock. New upper bearings were installed on Raw pumps #1 (primary) & #4 (secondary). Security system was upgraded. Several safety upgrades were also addressed. This included new grating.

Chemical Additions: Polymer added to sludge—Currently using NS4375



SEWAGE COMPLIANCE INSPECTION REPORT

Other Requirements (NPDES Permit Part C / WQM Permit)

Special Conditions: Next submission/action: N/A Due Date:

None

WETT: Annual testing required, last performed in late November 2018.

TRE/TIE: (No endpoint failures)

EPA Pretreatment Program

Stormwater requirements: Latest Annual Inspection performed 12/15/18

Permit Schedule:

TMDL

Other:

Comments:

PPC Plan: Available on-site: Yes No N/A N/O Last updated: July 2019

Comments:

Compliance History

Effluent Violation in the last 12 months: Yes No N/O

Recent Compliance Actions: Yes No

Comments: **(See comments on Page 2)**

Legal Agreement: Consent Order and Agreement, Consent Decree or Order: Yes No N/O Date executed:

In compliance with legal agreement: Yes No Could not confirm during field inspection

Obligations due next:

Comments:

Sewage Treatment Plant

Treatment Plant Design Capacity: Hydraulic (MGD): 4.8 Organic (PPD): 9207

High Flow Management / Maintenance Plan Available: Yes No N/A Plan implemented at: 7.5 MGD

Hauled in wastes: Facility accepts hauled in wastes: Yes No Reported to DEP on proper forms: Yes No N/A N/O

Flow at which facility stops accepting hauled in waste (MGD): N/A N/O

Comments: **There is currently no set flow at which the facility stops accepting hauled in wastes; Wastes are only accepted from Dalton Service Co.**

Solids Management: Disposal records available: Yes No N/O Retained for at least five years: Yes No

Production for calendar year: **2018--347.68 tons**

Production estimated using EPA Composite Correction Approach: Yes No Disposal within 15% of estimate: Yes No

Hauler: **Joseph J Brunner**

Disposal location: **Brunner Landfill**

Comments: **91.87% of expected sludge disposal was achieved.**



SEWAGE COMPLIANCE INSPECTION REPORT

Collection System

Chapter 94 Report: Submitted: Yes No N/A N/O Hydraulic or Organic Overload: Yes No N/A N/O
 Comments: (Chapter 94 was on file at STP and briefly reviewed during the inspection.)

Permitted facility receives flow from contributing collection systems owned/maintained by others: Yes No N/O
 Comments: **Contributing flow received from Boroughs of Big Beaver, Homewood, Eastvale, Patterson Heights, West Mayfield; and Townships of Patterson, White, & North Sewickley.**

Sanitary Sewer Overflows: Since last inspection: Yes No Reported to DEP: Yes No
 Location/cause: **No SSOs were reported, however the Department has received reports of basement backups on 9th Avenue. Please see recommendations on Page 1.**

Collection system: Owned by: Permittee Other:
 Maintained by: Permittee Other: (Contributing municipalities as listed above)
 Maintenance performed: Regularly scheduled As problems occur None N/A
 Type of maintenance: Televised:

Jetted/Root Cutting: **4500 feet jetted in 2018**

Smoke Testing:

Other: **156 properties dye tested in 2018. 37 feet of 8 inch line was replaced, eliminating 7 dead taps. Two taps were also repaired. (Location unknown at time of inspection, DEP followed up by email w/ Street Dept on 9/18/19.)**

Sewer Shed metering: **Plant personnel monitor system from 10 meters at various locations**

Sewers repaired/replaced:

Inflow and Infiltration: Facility reports influences of: Inflow Infiltration

Detail I&I Detection work performed since last inspection:

Detail I&I Removal work performed since last inspection:

Comments: **Contributing municipalities oversee I&I work within their own collection systems. Beaver Falls Street Dept. handles I&I work within the City of Beaver Falls.**

Pump Stations: Total number: 8 Inspection frequency: **Eastvale--Daily ; Contributing Municipalities--N/O**
 Operator Name: **Joseph Durish Sr.** Client ID: **235217** Class-Subclasses: **E** License Exp. Date: **9/30/2022**

Flow measurement: Metered Estimated Other:

Pump stations monitored with alarm systems: Yes No N/A N/O

Pump stations capable of operation with backup auxiliary power: Yes No N/A N/O

Comments: **Big Beaver Borough oversees the operation and maintenance for 7 of the 8 pump stations that contribute flow to Beaver Falls STP. Beaver Falls maintains Eastvale pump station only. North Sewickley Twp also contributes flow from 5 pump stations.**



SEWAGE COMPLIANCE INSPECTION REPORT

Effluent / Receiving Water Evaluation

Outfall Number(s): 101 **Stream Name: Beaver River**

DEP Collector #:	Field Measurements:	Upstream	Outfall	Downstream	Units
Sample Date/Time: N/A	Flow		0.16		MGD
Sample Location:	pH				S.U.
	Conductivity				µmhos/cm
	Dissolved Oxygen				mg/L
	Total/Free Chlorine Residual				mg/L
	Temperature				°

Upstream Observations: **OK**
 Not Observed

Outfall Observations: **IMP 101 OK**
 Not Observed

Downstream Observations: **OK**
 Not Observed

Outfall Number(s): 004 **Stream Name:**

DEP Collector #:	Field Measurements:	Upstream	Outfall	Downstream	Units
Sample Date/Time:	Flow		1.54		MGD
Sample Location:	pH				S.U.
	Conductivity				µmhos/cm
	Dissolved Oxygen				mg/L
	Total/Free Chlorine Residual				mg/L
	Temperature				°

Upstream Observations: **OK**
 Not Observed

Outfall Observations: **IMP at Manhole-OK**
 Not Observed

Downstream Observations: **OK**
 Not Observed

Outfall Number(s): 201 **Stream Name:**

DEP Collector #:	Field Measurements:	Upstream	Outfall	Downstream	Units
Sample Date/Time:	Flow				MGD
Sample Location:	pH				S.U.
	Conductivity				µmhos/cm
	Dissolved Oxygen				mg/L
	Total/Free Chlorine Residual				mg/L
	Temperature				°

Upstream Observations:
 Not Observed

Outfall Observations: **OK (Back flow gate observed)**
 Not Observed

Downstream Observations:
 Not Observed



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Beaver Falls District Office
715 15th Street
Beaver Falls PA 15010

11/27/2018

NOTICE OF VIOLATION

City of Beaver Falls
715 15th Street
Beaver Falls PA 15010

Re: Sewage
Beaver Falls STP
NPDES Permit No. PA0026883
City of Beaver Falls, Beaver County


Dear Mr. Breznai,

The Department of Environmental Protection (Department) finds, as a result of a review of your Discharge Monitoring Reports for the months of July 2017 through June 2018, your effluent has exceeded the effluent limitations established in your NPDES Permit, No. PA0026883. Please be advised that failure to comply with the terms and conditions of your permit constitutes a violation of Sections 201 and 202 of The Clean Streams Law.

The violations are listed in the attached inspection report. This Notice of Violation is neither an order nor any other final action of the Department. It neither imposes nor waives any enforcement action available to the Department under any of its statutes. If the Department determines that an enforcement action is appropriate, you will be notified of the action.

If you have any questions, please call me at 724-847-5279.

Sincerely,


Amanda Schmidt
Water Quality Specialist

cc: DEP Southwest Regional Office



SEWAGE COMPLIANCE INSPECTION REPORT

NPDES / WQM Permit No. PA0026883	Mo/Day/Year 8/10/2018	Entry Time 08:45	Exit Time 10:20	Inspection Type CEI	eFACTS Inspection ID 2762510
Facility Name: Beaver Falls STP			Permittee Name: City of Beaver Falls		
Physical Location/Directions: 100 6th Avenue, Beaver Falls PA 15010					Permit Expiration Date: 2/28/2018
Municipality: City of Beaver Falls		County: Beaver		Permit Renewal Application Due: 8/31/2017	
Facility Type: <input checked="" type="checkbox"/> Municipal <input checked="" type="checkbox"/> Major <input type="checkbox"/> Non-Municipal <input type="checkbox"/> Minor		Treatment Process: <input type="checkbox"/> Ext Aeration <input type="checkbox"/> Contact Stabilization <input type="checkbox"/> SBR <input type="checkbox"/> RBC <input type="checkbox"/> MBR <input type="checkbox"/> MBBR/IFAS <input checked="" type="checkbox"/> Trickling Filter <input type="checkbox"/> Lagoon <input type="checkbox"/> Other:			
Design Flow: 4.8 MGD					
Responsible Official: Jim Breznai		Does the facility have an Operator in Responsible Charge: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Title: Manager		Operator Name: Joseph Durish Jr.			
Permittee Address: 715 15th Street Beaver Falls PA 15010		Circuit Rider: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Client ID: 296046 License Expiration Date: 12/31/2019			
		Class-Subclass(es): A,E-2,4			
		Operator properly certified for treatment process type: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Business Phone: 724-843-7184		Business Phone: 724-843-7184			
Cell Phone: 724-624-1821		Cell Phone: 724-561-6511			
Email: bfwpcp@hotmail.com		Email: joedurish88@gmail.com			
24-Hour Emergency Contact Person / Phone / Email: Joe Durish / 724-561-6511					
VIOLATIONS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> None Identified During Inspection <input type="checkbox"/> Pending Sample Results					
--Violations of effluent limits in Part A of the NPDES Permit [25 Pa. Code 92a.44]					
Recommendations:					
--Ensure PPC plan is updated to reflect recent personnel changes					
Person Interviewed: Joseph Durish Jr		Date: 8/10/18		Inspector: Amanda Schmidt	
Signature: [Report Sent by Email]		Phone No.: 724-843-7184		Date: 11/27/18	
Title: Chief Operator		Inspector Signature: <i>Amanda Schmidt</i>			
Email: joedurish88@gmail.com		Title: Water Quality Specialist			
		Email: amschmidt@pa.gov			
This document is official notification that a representative of the Department of Environmental Protection inspected the above facility. The findings of this inspection are shown above and on any attached pages. * Any violations which were noted during the inspection are indicated. Violations may also be discovered upon examination of the results of laboratory analyses of the discharge and/or review of Department records.					



SEWAGE COMPLIANCE INSPECTION REPORT

Comments

An announced Compliance Evaluation Inspection was conducted on short notice for routine monitoring.

Administrative Review

- The facility has an expired NPDES Permit. A renewal application has been submitted.
- The following exceedances were indicated on eDMRs submitted for July 2017 through June 2018:

Parameter	Monitoring Period Exceeded	Reported Value	Permit Limit
TSS <i>Max Weekly Average Load</i>	February 2018	2278.7 lbs/day	1802.5 lbs/day
TSS <i>Weekly Average Concentration</i>	May 2018	53 mg/L	45 mg/L
Fecal Coliforms <i>Average Monthly Concentration</i>	May 2018	247 per 100 mL	200 per 100 mL
Fecal Coliforms <i>Instantaneous Max Concentration</i>	May 2018	2100 per 100 mL	1000 per 100 mL

Exceedances in February were attributed to hydraulic overload of the STP. DMR comments indicate that 6.5 inches of rain was received locally during the month.

Exceedances in May were attributed to fixed film sloughing from the beginning of May through the beginning of June. DMR comments also indicated that the organic load exceeded design capacity. The influent TSS on May 13 was unusually high at 6720 mg/L, causing an unusually high effluent TSS result of 96 mg/L. This event also occurred during sough off. An unusually high chlorine demand was also noted during grab sampling for Fecal Coliforms. Corrective actions were indicated for each exceedance.

Site Inspection

- Weather conditions were sunny with temperatures in the high 70s.
- Treatment units appeared to be in working order.
- Additional observations and details are included on attached pages.

The attached Notice of Violation has been issued for the above listed exceedances.



SEWAGE COMPLIANCE INSPECTION REPORT

Monitoring, Reporting and Recordkeeping (NPDES Permit Part A / WQM Permit)

On-site laboratory: Registered Accredited Accreditation By Rule Not Registered/Accredited N/A
 On-site analyses: pH DO TRC All NPDES parameters None
 Other(s): Alkalinity, Settleable Solids

DEP Lab Registration/Accreditation #: 04-01709 Lab Supervisor: Joe Durish Jr.
 Lab Supervisor Client ID: 296046 License Expiration Date: 12/31/2019
 Comments:

Contract Laboratory Name: CMA Environmental Laboratory DEP Lab Accreditation #: 33-00411
 Address & Phone: 265 College Avenue, Beaver PA 15009 724-728-5539
 Parameters Analyzed: Influent: TSS & BOD, Effluent: CBOD, Fecals, TSS, Ammonia Nitrogen, Total N, Total P
 Comments:

Sample Collection: Influent sampling prior to any treatment: Yes No Location: Influent Channel prior to bar screen
 Influent sampled prior to all process return piping: Yes No N/A
 Influent sampled prior to flow from septage receiving station: Yes No N/A
 Effluent sampling after all treatment: Yes No Location: Discharge from Chlorine Contact Tank
 Location(s) adequate for representative samples: Yes No N/O
 Parameters analyzed, sample frequencies and sample types meet permit requirements: Yes No N/O
 Samples properly preserved during collection, storage and shipping: Yes No N/O
 Sampler or sample temperature is recorded using NIST traceable thermometer: Yes No N/O
 Comments: Dalton Service Company discharges sludge press wastewater to Manhole 129. Analysis of this discharge is included in plant's influent composite sampling.

Influent Samples: Being collected: Yes No N/O Samples are: Grab 8-hour comp 24-hour comp Other
 Samples are: Flow Proportional Time Proportional Not flow proportional N/A
 Sampler controlled by: Flow meter Timed Collection N/A Other:
 Minimum aliquot volume at least 100 ml: Yes No N/A Composite sampler temperature during inspection: 1°C
 Comments: Samples are stored in lab refrigerator; Temperature is monitored with an NIST traceable thermometer.

Effluent Samples: Being collected: Yes No N/O Samples are: Grab 8-hour comp 24-hour comp Other
 Samples are: Flow Proportional Time Proportional Not flow proportional N/A
 Sampler controlled by: Flow meter Timed Collection N/A Other:
 Minimum aliquot volume at least 100 ml: Yes No N/A Composite sampler temperature during inspection: 5.56°C
 Comments: Operator confirmed that Fecal Coliforms are collected by grab sampling.

Sample records: Available for inspection: Yes No Retained for at least three years: Yes No
 Includes: Collector name: Yes No Collection date/time: Yes No Collection location: Yes No
 Analyst name: Yes No Analysis date/time: Yes No Analysis Results: Yes No
 Analytical methods & quantitation limits: Yes No Chain-of-Custody forms: Yes No
 Comments:

Bench sheets: Data is consistent with data on the DMR: Yes No N/A Month(s)/year checked: June 2018
 Comments:



SEWAGE COMPLIANCE INSPECTION REPORT

Monitoring, Reporting and Recordkeeping (NPDES Permit Part A / WQM Permit)

Field Testing: Completed within required hold time: Yes No N/O
Equipment is calibrated as required: pH: Yes No N/O DO: Yes No N/O N/A
pH Buffers current: Yes No TRC Meter checked against standards: Yes No N/O N/A
Calibration records maintained: Yes No N/O Calibration records up to date: Yes No N/O
Comments:

DMR Submittal: DMRs are submitted as required: Yes No N/O eDMR User: Yes No
All Supplemental Reports are submitted as required: Yes No N/O
DMRs include all sample results collected and analyzed using approved methods: Yes No N/O
Comments:

Flow Measurement (NPDES Permit Part A / WQM Permit)

Primary flow meter and recorder: Operable: Yes No Properly maintained: Yes No
Measuring device type: Flume Weir Full Pipe Open Channel Other:
Meter type: Ultrasonic Magnetic Meter Bubbler Other:
Flow measurement location(s): Influent Effluent
Meter location: **Ultrasonic Meter is located at Internal Outfall 101; Mag Meter Located in Primary treatment works building**
Recorder type: Totalizer Daily Chart 7-Day Chart SCADA/Electronic Other: **Web based**
Flow meter capable of recording hydraulic design capacity: Yes No Calibration Range: **0-15.92 MGD [effluent]**
Inspection frequency: Daily Weekly Other:
Calibration frequency: **Annually** Date of last calibration: **1/11/18**
Issues noted with measurement and/or recording of flow: Yes No N/A
Influent flow is measured before all return lines: Yes No Influent flow is measured after hauled-in wastes: Yes No
Effluent flow is measured after all withdraws: Yes No N/A
Comments: **Mag Meter is used for recirculation pump/sludge to digester. The primary & secondary bypass meters are both ultrasonic and located at the influent channel & secondary wet well. Mechanical valve shuts down secondary wet well at 7.5 MGD.**

Flumes: Flow is uniform across the channel: Yes No N/A Flume is free of debris and deposits: Yes No N/A
Maximum flow capable of measurement with flume: MGD
Comments:

Weirs: Clean with a visible air space below the nappe: Yes No N/A
Maximum flow capable of measurement with weir: **15.415 MGD**
Comments: **(Effluent)**

Treatment Plant (NPDES Permit Part B / WQM Permit)

Treatment plant bypass: Since last inspection: Yes No N/O Reported to DEP: Yes No
Location/cause:

Major equipment repair/replacement: Since last inspection: Yes No N/O
Repair List: **Replacement of computer system for pump controls**

Stand-by power: Emergency generator Dual power feed None Other:
System operable: Yes No Exercise frequency: **Weekly (Automated)** Maintenance frequency: **Weekly**
Unit exercised under load: Yes No N/A
Comments:



SEWAGE COMPLIANCE INSPECTION REPORT

Treatment Plant (NPDES Permit Part B / WQM Permit)

Alarms: Type: None SCADA Auto Dialer PLC Other: Reliance Security dispatches to cell phones

System operable: Yes No N/A N/O Test frequency: Twice Yearly

Alarm triggers: **Primary/Secondary wet well high level, Chlorine leak, Power failure, Pump faults, Bypass of Primary & Secondary treatment. Chlorine cylinder safety valve is tested each time gas cylinder is changed.**

Staffing schedule: 24/7 Weekday hours: 7 to 3 Weekend/Holiday hours: 7 to 3

Comments: **Maintenance 6:30-2:30**

On site Logs: Facility maintains a daily operations log: Yes No N/O Daily log up-to-date: Yes No N/O

Daily Log contains: Visual observations Process adjustments Problems and concerns

Repair log maintained: Yes No Routine maintenance log maintained: Yes No N/O

Comments:

Spare parts inventory maintained: Yes No N/O Standby units available: Yes No

Comments: **Inventory includes spare pump for primary wet well, several motors for pumps, grit collector motor and booster pump for press.**

Facility Process Control Plan required: Yes No N/A Is the plan implemented: Yes No N/A N/O

System specific management plan available: Yes No N/A N/O

Comments:

Process Control (NPDES Permit Part B / WQM Permit)

Parameter	Frequency of Testing	Current Testing Results
<input checked="" type="checkbox"/> Settleability	3/week	Settleable solids read from Imhoff Cone Raw Influent 27 mL/L
<input checked="" type="checkbox"/> Dissolved Oxygen	3/week	Influent 3.25 mg/L
<input checked="" type="checkbox"/> Alkalinity	3/week	Influent 250 mg/L
<input checked="" type="checkbox"/> Sludge Blanket		Visual observation only. 4000 gallons/day wasted to digester from each primary settling tank.
<input type="checkbox"/> Mixed Liquor Suspended Solids (MLSS)		
<input type="checkbox"/> Mixed Liquor Volatile Suspended Solids (MLVSS)		
<input type="checkbox"/> Microscopic exam of mixed liquor		
<input type="checkbox"/> Color <input type="checkbox"/> Odor		

Other: **Digester Sludge analysis: pH, TRC, alkalinity, Temperature, Settleable solids, CO2, & Volatile Acids. Yearly composite sample of belt press sludge: Metals, Oil & Grease, Ammonia Nitrogen etc.**

Operators

Total Number of Available Operators at this facility: 4

Does a non-certified operator make process control decisions at this facility: Yes No N/O

Does facility have a written SOP to direct non-certified operator activities: Yes No N/A N/O

Available Operator interviewed has reviewed a copy of facility NPDES permit: Yes No N/O

Comments:



SEWAGE COMPLIANCE INSPECTION REPORT

Treatment Process Units (NPDES Permit Part B / WQM Permit)				
Treatment Units	Total	On-Line	Inoperable	Date Inoperable / Expected Date Return to Service / Comments
Mechanical Bar Screen	1	1	0	
Grit System	1	1	0	Includes Teacup Separator, which collects grit before second manual bar screen and primary settling tanks.
Manual Bar Screen	3	3	0	One used for back up only(During grit system maintenance)
Primary Wet Well	1	1	0	
Primary Settling Tanks	3	2	1	Drained/cleaned annually. One tank down for flight repair
Aeration Tank	1	1	0	Backup only
Sludge Decant Tank	1	1	0	
Secondary Wet Well	1	1	0	Flow shut off at 7.5 MGD
Trickling Filters	2	2	0	
Secondary Settling Tanks	5	5	0	Drained/Cleaned annually
Sludge Return	1	1	0	
Recirculation Chamber	1	1	0	
Gas Chlorination	1	1	0	Automated disinfection is flow proportional w/ effluent meter.
Chlorine Contact Tanks	2	2	0	Removable redwood baffolds were installed to manage accumulation of solids on water surface.
Anaerobic Digesters	2	2	0	Digester #1-newly returned sludge to be dewatered; Digester #2-staging for sludge to be pressed
Belt Filter Press	1	1	0	Run twice weekly while seasonal sloughing occurs from trickling filters
Skimmer/Holding Tank	1	1	0	
Grease Separator	1	1	0	Grease decanted from primary settling tanks, water then recycled to head works
Sludge Bed				Maintained for backup only
				Primary settling tanks served by 4 primary sludge pumps; 5th maintained for backup.
O&M Manuals available for major pieces of equipment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O				
Comments:				
Chemical Additions: Polymer added to sludge—Currently using NS4375				



SEWAGE COMPLIANCE INSPECTION REPORT

Other Requirements (NPDES Permit Part C / WQM Permit)

Special Conditions: Next submission/action: N/A

Due Date:

- None
 WETT: Annual testing required, last performed November 2017
 TRE/TIE: (No endpoint failures)
 EPA Pretreatment Program
 Stormwater requirements: Latest Annual Inspection performed 12/5/17
 Permit Schedule:
 TMDL
 Other:
 Comments:

PPC Plan: Available on-site: Yes No N/A N/O

Last updated: August 2017

Comments: See recommendation on Page 1

Compliance History

Effluent Violation in the last 12 months: Yes No N/ORecent Compliance Actions: Yes No

Comments:

Legal Agreement: Consent Order and Agreement, Consent Decree or Order: Yes No N/O Date executed:In compliance with legal agreement: Yes No Could not confirm during field inspection

Obligations due next:

Comments:

Sewage Treatment Plant

Treatment Plant Design Capacity: Hydraulic (MGD): 4.8 Organic (PPD): 9207

High Flow Management / Maintenance Plan Available: Yes No N/A Plan implemented at: 7.5 MGDHauled in wastes: Facility accepts hauled in wastes: Yes No Reported to DEP on proper forms: Yes No N/A N/OFlow at which facility stops accepting hauled in waste (MGD): N/A N/OComments: **There is currently no set flow at which the facility stops accepting hauled in wastes; Wastes are only accepted from Dalton Service Co.**Solids Management: Disposal records available: Yes No N/O Retained for at least five years: Yes No

Production for calendar year: 2017--284.18 tons

Production estimated using EPA Composite Correction Approach: Yes No Disposal within 15% of estimate: Yes No

Hauler: Joseph J Brunner

Disposal location: Brunner Landfill

Comments: **84.2% of expected sludge disposal was achieved.**



SEWAGE COMPLIANCE INSPECTION REPORT

Collection System

Chapter 94 Report: Submitted: Yes No N/A N/O Hydraulic or Organic Overload: Yes No N/A N/O
Comments: (Chapter 94 was on file at STP and briefly reviewed during the inspection.)

Permitted facility receives flow from contributing collection systems owned/maintained by others: Yes No N/O
Comments: **Contributing flow received from Boroughs of Big Beaver, Homewood, Eastvale, Patterson Heights, West Mayfield; and Townships of Patterson, White, & North Sewickley.**

Sanitary Sewer Overflows: Since last inspection: Yes No Reported to DEP: Yes No
Location/cause:

Collection system: Owned by: Permittee Other:
Maintained by: Permittee Other: (Contributing municipalities as listed above)
Maintenance performed: Regularly scheduled As problems occur None N/A
Type of maintenance: Televised:

Jetted/Root Cutting: **4700 feet jetted in 2017**

Smoke Testing:

Other: **142 properties dye tested in 2017**

Sewer Shed metering: **Plant personnel monitor system from 10 meters at various locations**

Sewers repaired/replaced: **Line replacements occurred on 11th and West 11th Streets.**

Inflow and Infiltration: Facility reports influences of: Inflow Infiltration
Detail I&I Detection work performed since last inspection:

Detail I&I Removal work performed since last inspection:

Comments: **Contributing municipalities oversee I&I work within their own collection systems. Beaver Falls Street Dept. handles I&I work within the City of Beaver Falls.**

Pump Stations: Total number: 8 Inspection frequency: **Eastvale--Daily ; Contributing Municipalities--N/O**
Operator Name: **Joseph Durish Sr.** Client ID: **235217** Class-Subclasses: **E** License Exp. Date: **9/30/2019**
Flow measurement: Metered Estimated Other:

Pump stations monitored with alarm systems: Yes No N/A N/O

Pump stations capable of operation with backup auxiliary power: Yes No N/A N/O

Comments: **Big Beaver Borough oversees the operation and maintenance for 7 of the 8 pump stations that contribute flow to Beaver Falls STP. Beaver Falls maintains Eastvale pump station only.**



SEWAGE COMPLIANCE INSPECTION REPORT

Effluent / Receiving Water Evaluation

Outfall Number(s): 101 **Stream Name: Beaver River**

DEP Collector #:	Field Measurements:	Upstream	Outfall	Downstream	Units
Sample Date/Time:	Flow				MGD
Sample Location:	pH				S.U.
	Conductivity				µmhos/cm
	Dissolved Oxygen				mg/L
	Total/Free Chlorine Residual				mg/L
	Temperature				°

Upstream Observations: **OK**

Not Observed

Outfall Observations: **IMP 101 OK**

Not Observed

Downstream Observations: **OK**

Not Observed

Outfall Number(s): **Stream Name:**

DEP Collector #:	Field Measurements:	Upstream	Outfall	Downstream	Units
Sample Date/Time:	Flow		1.54		MGD
Sample Location:	pH				S.U.
	Conductivity				µmhos/cm
	Dissolved Oxygen				mg/L
	Total/Free Chlorine Residual				mg/L
	Temperature				°

Upstream Observations:

Not Observed

Outfall Observations:

Not Observed

Downstream Observations:

Not Observed

Outfall Number(s): **Stream Name:**

DEP Collector #:	Field Measurements:	Upstream	Outfall	Downstream	Units
Sample Date/Time:	Flow				MGD
Sample Location:	pH				S.U.
	Conductivity				µmhos/cm
	Dissolved Oxygen				mg/L
	Total/Free Chlorine Residual				mg/L
	Temperature				°

Upstream Observations:

Not Observed

Outfall Observations:

Not Observed

Downstream Observations:

Not Observed



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Beaver Falls District Office
715 15th Street
Beaver Falls PA 15010

8/3/2017

NOTICE OF VIOLATION

City of Beaver Falls
715 15th Street
Beaver Falls PA 15010

Re: Sewage
Beaver Falls STP
NPDES Permit No. PA0026883
City of Beaver Falls, Beaver County

Dear Mr. Breznai,

The Department of Environmental Protection (Department) finds, as a result of a review of your Discharge Monitoring Report(s) for the month(s) of July 2016-June 2017 that your effluent has exceeded the effluent limitations established in your NPDES Permit, No. PA0026883. Please be advised that failure to comply with the terms and conditions of your permit constitutes a violation of Sections 201 and 202 of The Clean Streams Law.

The violations are listed in the attached inspection report. We request that you submit a report to this office within 15 days of the date of this letter, describing the steps being taken to prevent recurrence of the violation, along with a correction schedule.

This Notice of Violation is neither an order nor any other final action of the Department. It neither imposes nor waives any enforcement action available to the Department under any of its statutes. If the Department determines that an enforcement action is appropriate, you will be notified of the action.

If you have any questions, please call me at 724-847-5279.

Sincerely,

A handwritten signature in black ink that reads "Amanda Schmidt".

Amanda Schmidt
Water Quality Specialist

cc: DEP Southwest Regional Office



SEWAGE COMPLIANCE INSPECTION REPORT

NPDES / WQM Permit No. PA0026883	Mo/Day/Year 8/1/2017	Entry Time 09:00	Exit Time 10:50	Inspection Type CEI	eFACTS Inspection ID 2621009
Facility Name: Beaver Falls STP			Permittee Name: City of Beaver Falls		
Physical Location/Directions: 100 6th Avenue, Beaver Falls PA 15010					Permit Expiration Date: 2/28/2018
Municipality: City of Beaver Falls		County: Beaver		Permit Renewal Application Due: 8/31/2017	
Facility Type: <input checked="" type="checkbox"/> Municipal <input checked="" type="checkbox"/> Major <input type="checkbox"/> Non-Municipal <input type="checkbox"/> Minor		Treatment Process: <input type="checkbox"/> Ext Aeration <input type="checkbox"/> Contact Stabilization <input type="checkbox"/> SBR <input type="checkbox"/> RBC <input type="checkbox"/> MBR <input type="checkbox"/> MBBR/IFAS <input checked="" type="checkbox"/> Trickling Filter <input type="checkbox"/> Lagoon			
Design Flow: 4.8 MGD		<input type="checkbox"/> Other:			
Responsible Official: Jim Breznai		Does the facility have an Operator in Responsible Charge: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Title: Manager		Operator Name: Joseph Durish Jr.			
Permittee Address: 715 15th Street Beaver Falls PA 15010		Circuit Rider: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
		Client ID: 296046 License Expiration Date: 12/31/2019			
		Class-Subclass(es): A,E-2,4			
		Operator properly certified for treatment process type: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Business Phone: 724-843-7184		Business Phone: 724-843-7184			
Cell Phone:		Cell Phone:			
Email: bfwpcp@hotmail.com		Email: joedurish88@gmail.com			
24-Hour Emergency Contact Person / Phone / Email: David Bosworth / 724-624-1825					
VIOLATIONS:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> None Identified During Inspection <input type="checkbox"/> Pending Sample Results			
--Violations of effluent limits in Part A of the NPDES Permit [25 Pa. Code 92a.44]					
Recommendations:					
--Evaluate options to adjust treatment process during high flows to reduce the occurrence of TSS exceedances.					
--Submit a request for WQM Part II Amendment regarding the installation of skimmers, to manage accumulation of floatable sludge solids in the chlorine contact tanks.					
--Ensure that the effluent composite sampler temperature is kept between 0 and 6° C.					
Person Interviewed: Joseph Durish Jr & Others		Date: 8/1/17	Inspector: Amanda Schmidt		Date: 8/3/17
Signature: [Report Sent by Email]		Phone No.: 724-843-7184	Inspector Signature: <i>Amanda Schmidt</i>		Phone No.: 724-847-5279
Title: Operator			Title: Water Quality Specialist		
Email: joedurish88@gmail.com			Email: amschmidt@pa.gov		
This document is official notification that a representative of the Department of Environmental Protection inspected the above facility. The findings of this inspection are shown above and on any attached pages. * Any violations which were noted during the inspection are indicated. Violations may also be discovered upon examination of the results of laboratory analyses of the discharge and/or review of Department records.					



SEWAGE COMPLIANCE INSPECTION REPORT

Comments

An announced Compliance Evaluation Inspection was conducted on short notice for routine monitoring. Joseph Durish Jr., David Bosworth, and Joe Durish Sr. were Present on behalf the City of Beaver Falls.

Administrative Review

- The facility has a valid NPDES Permit.
- The following exceedances were indicated on eDMRs submitted for the July 2016 through June 2017 monitoring periods.

Parameter	Monitoring Period Exceeded	Reported Value	Permit Limit
TSS <i>Maximum Weekly Average Load</i>	December 2016	2346.6 lbs/day	1802.5 lbs/day
TSS <i>Instantaneous Max Concentration</i>	January 2017 May 2017	48 mg/L 50 mg/L	45 mg/L 45 mg/L

Exceedances were attributed to high flows and heavy rainfall.

Site Inspection

- Weather conditions were sunny with temperatures in the high 70s.
- Treatment units appeared to be in working order with some repairs and improvements made since the last inspection. Chlorine contact tanks are now drained and cleaned twice monthly; accumulated floatable sludge solids are returned to the primary settling tanks.
- A NIST Traceable thermometer has been installed in the effluent composite sampler. The reading on the thermometer indicated that its position may need to be adjusted based on observed conditions in the refrigeration unit.
- Additional observations and details are included on attached pages.

The attached Notice of Violation has been issued for the above listed exceedances.



SEWAGE COMPLIANCE INSPECTION REPORT

Monitoring, Reporting and Recordkeeping (NPDES Permit Part A / WQM Permit)

On-site laboratory: Registered Accredited Accreditation By Rule Not Registered/Accredited N/A
 On-site analyses: pH DO TRC All NPDES parameters None
 Other(s): Alkalinity, Settleable Solids

DEP Lab Registration/Accreditation #: 04-01709

Lab Supervisor: Joe Durish Jr.

Lab Supervisor Client ID: 296046

License Expiration Date: 12/31/2019

Comments:

Contract Laboratory Name: CMA Environmental Laboratory

DEP Lab Accreditation #: 33-00411

Address & Phone: 265 College Avenue, Beaver PA 15009

724-728-5539

Parameters Analyzed: Influent: TSS & BOD, Effluent: CBOD, Fecals, TSS, Ammonia Nitrogen, Total N, Total P

Comments:

Sample Collection: Influent sampling prior to any treatment: Yes No Location: Influent ChannelInfluent sampled prior to all process return piping: Yes No N/AInfluent sampled prior to flow from septage receiving station: Yes No N/AEffluent sampling after all treatment: Yes No Location: Discharge from Chlorine Contact TankLocation(s) adequate for representative samples: Yes No N/OParameters analyzed, sample frequencies and sample types meet permit requirements: Yes No N/OSamples properly preserved during collection, storage and shipping: Yes No N/OSampler or sample temperature is recorded using NIST traceable thermometer: Yes No N/O

Comments: Dalton Service Company discharges sludge press wastewater to Manhole 129. Analysis of this discharge is included in plant's influent composite sampling.

Influent Samples: Being collected: Yes No N/O Samples are: Grab 8-hour comp 24-hour comp OtherSamples are: Flow Proportional Time Proportional Not flow proportional N/ASampler controlled by: Flow meter Timed Collection N/A Other:Minimum aliquot volume at least 100 ml: Yes No N/A Composite sampler temperature during inspection: N/A

Comments: Automated composite sampler has been installed however composite grabs are still taken due to occasional foaming of the sample when decanting.

Effluent Samples: Being collected: Yes No N/O Samples are: Grab 8-hour comp 24-hour comp OtherSamples are: Flow Proportional Time Proportional Not flow proportional N/ASampler controlled by: Flow meter Timed Collection N/A Other:Minimum aliquot volume at least 100 ml: Yes No N/A Composite sampler temperature during inspection: 32°F

Comments: Operator confirmed that Fecal Coliforms are collected by grab sampling.

Sample records: Available for inspection: Yes No Retained for at least three years: Yes NoIncludes: Collector name: Yes No Collection date/time: Yes No Collection location: Yes NoAnalyst name: Yes No Analysis date/time: Yes No Analysis Results: Yes NoAnalytical methods & quantitation limits: Yes No Chain-of-Custody forms: Yes No

Comments:

Bench sheets: Data is consistent with data on the DMR: Yes No N/A Month(s)/year checked: June 2017

Comments:



SEWAGE COMPLIANCE INSPECTION REPORT

Monitoring, Reporting and Recordkeeping (NPDES Permit Part A / WQM Permit)

Field Testing: Completed within required hold time: Yes No N/O
 Equipment is calibrated as required: pH: Yes No N/O DO: Yes No N/O N/A
 pH Buffers current: Yes No TRC Meter checked against standards: Yes No N/O N/A
 Calibration records maintained: Yes No N/O Calibration records up to date: Yes No N/O
 Comments:

DMR Submittal: DMRs are submitted as required: Yes No N/O eDMR User: Yes No
 All Supplemental Reports are submitted as required: Yes No N/O
 DMRs include all sample results collected and analyzed using approved methods: Yes No N/O
 Comments:

Flow Measurement (NPDES Permit Part A / WQM Permit)

Primary flow meter and recorder: Operable: Yes No Properly maintained: Yes No
 Measuring device type: Flume Weir Full Pipe Open Channel Other:
 Meter type: Ultrasonic Magnetic Meter Bubbler Other:
 Flow measurement location(s): Influent Effluent
 Meter location: **Ultrasonic Meter is located at Internal Outfall 101; Mag Meter Located in Primary treatment works building**
 Recorder type: Totalizer Daily Chart 7-Day Chart SCADA/Electronic Other: **Web based**
 Flow meter capable of recording hydraulic design capacity: Yes No Calibration Range: **0-15.92 MGD [effluent]**
 Inspection frequency: Daily Weekly Other:
 Calibration frequency: **Annually** Date of last calibration: **1/10/17**
 Issues noted with measurement and/or recording of flow: Yes No N/A
 Influent flow is measured before all return lines: Yes No Influent flow is measured after hauled-in wastes: Yes No
 Effluent flow is measured after all withdraws: Yes No N/A
 Comments: **Mag Meter is used for recirculation pump/sludge to digester. The primary & secondary bypass meters are both ultrasonic and located at the influent channel & secondary wet well. Mechanical valve shuts down secondary wet well at 7.5 MGD.**

Flumes: Flow is uniform across the channel: Yes No N/A Flume is free of debris and deposits: Yes No N/A
 Maximum flow capable of measurement with flume: MGD
 Comments:

Weirs: Clean with a visible air space below the nappe: Yes No N/A
 Maximum flow capable of measurement with weir: **15.415 MGD**
 Comments: **(Effluent)**

Treatment Plant (NPDES Permit Part B / WQM Permit)

Treatment plant bypass: Since last inspection: Yes No N/O Reported to DEP: Yes No
 Location/cause:

Major equipment repair/replacement: Since last inspection: Yes No N/O
 Repair List: **Replacement of one manual bar screen, Repairs to belt filter press.**

Stand-by power: Emergency generator Dual power feed None Other:
 System operable: Yes No Exercise frequency: **Weekly (Automated)** Maintenance frequency: **Weekly**
 Unit exercised under load: Yes No N/A
 Comments:



SEWAGE COMPLIANCE INSPECTION REPORT

Treatment Plant (NPDES Permit Part B / WQM Permit)

Alarms: Type: None SCADA Auto Dialer PLC Other: Reliance Security dispatches to cell phones
 System operable: Yes No N/A N/O Test frequency: Twice Yearly
 Alarm triggers: **Primary/Secondary wet well high level, Chlorine leak, Power failure, Pump faults, Bypass of Primary & Secondary treatment. Chlorine cylinder safety valve is tested each time gas cylinder is changed.**

Staffing schedule: 24/7 Weekday hours: 7 to 3 Weekend/Holiday hours: 7 to 3
 Comments: **Maintenance 6:30-2:30**

On site Logs: Facility maintains a daily operations log: Yes No N/O Daily log up-to-date: Yes No N/O
 Daily Log contains: Visual observations Process adjustments Problems and concerns
 Repair log maintained: Yes No Routine maintenance log maintained: Yes No N/O
 Comments:

Spare parts inventory maintained: Yes No N/O Standby units available: Yes No
 Comments: **Inventory includes spare pump for primary wet well, several motors for pumps, grit collector motor and booster pump for press.**

Facility Process Control Plan required: Yes No N/A N/O Is the plan implemented: Yes No N/A N/O
 System specific management plan available: Yes No N/A N/O
 Comments:

Process Control (NPDES Permit Part B / WQM Permit)

Parameter	Frequency of Testing	Current Testing Results
<input checked="" type="checkbox"/> Settleability	Daily	Settleable solids read from Imhoff Cone Raw Influent 11 mL/L; Effluent 0.1 mL/L
<input checked="" type="checkbox"/> Dissolved Oxygen	Daily	Influent 2.46 mg/L; Effluent 7.39 mg/L
<input checked="" type="checkbox"/> Alkalinity	Daily	Influent 152 mg/L; Effluent 65 mg/L
<input checked="" type="checkbox"/> Sludge Blanket		Visual observation only. 3000 gallons/day wasted to digester from each primary settling tank.
<input type="checkbox"/> Mixed Liquor Suspended Solids (MLSS)		
<input type="checkbox"/> Mixed Liquor Volatile Suspended Solids (MLVSS)		
<input type="checkbox"/> Microscopic exam of mixed liquor		
<input type="checkbox"/> Color <input type="checkbox"/> Odor		

Other: **Digester Sludge analysis: pH, TRC, alkalinity, Temperature, Settleable solids, CO2, & Volatile Acids. Yearly composite sample of belt press sludge: Metals, Oil & Grease, Ammonia Nitrogen etc.**

Operators

Total Number of Available Operators at this facility: **4**
 Does a non-certified operator make process control decisions at this facility: Yes No N/O
 Does facility have a written SOP to direct non-certified operator activities: Yes No N/A N/O
 Available Operator interviewed has reviewed a copy of facility NPDES permit: Yes No N/O
 Comments:

SEWAGE COMPLIANCE INSPECTION REPORT

Treatment Process Units (NPDES Permit Part B / WQM Permit)				
Treatment Units	Total	On-Line	Inoperable	Date Inoperable / Expected Date Return to Service / Comments
Mechanical Bar Screen	1	1		
Grit System	1	1		Includes Teacup Separator, which collects grit before second manual bar screen and primary settling tanks.
Manual Bar Screen	3	3		One used for back up only(During grit system maintenance)
Primary Wet Well	1	1		
Primary Settling Tanks	3	3		Served by 4 primary sludge pumps; 5 th maintained for backup. Drained/cleaned annually
Aeration Tank	1	1		Backup only
Sludge Decant Tank	1	1		
Secondary Wet Well	1	1		Flow shut off at 7.5 MGD
Trickling Filters	2	2		
Secondary Settling Tanks	5	5		Drained/Cleaned annually
Sludge Return	1	1		
Recirculation Chamber	1	1		
Gas Chlorination	1	1		Automated disinfection is flow proportional w/ effluent meter.
Chlorine Contact Tanks	2	2		Removable redwood baffolds were installed to manage accumulation of solids on water surface.
Anaerobic Digesters	2	2		Digester #1-newly returned sludge to be dewatered; Digester #2-staging for sludge to be pressed
Belt Filter Press	1	1		Run twice weekly while seasonal sloughing occurs from trickling filters
Skimmer/Holding Tank	1	1		
Grease Separator	1	1		Grease decanted from primary settling tanks, water then recycled to head works
Sludge Bed				Maintained for backup only
O&M Manuals available for major pieces of equipment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/O				
Comments:				
Chemical Additions: Polymer added to sludge—Currently using NS4375				



SEWAGE COMPLIANCE INSPECTION REPORT

Other Requirements (NPDES Permit Part C / WQM Permit)

Special Conditions: Next submission/action: N/A

Due Date:

- None
 WETT: Annual testing required, last performed Sept 13-20 2016
 TRE/TIE: (No endpoint failures)
 EPA Pretreatment Program
 Stormwater requirements: Latest Annual Inspection performed 11/29/16
 Permit Schedule:
 TMDL
 Other:
 Comments:

PPC Plan: Available on-site: Yes No N/A N/O

Last updated: 2016

Comments:

Compliance History

Effluent Violation in the last 12 months: Yes No N/O

Recent Compliance Actions: Yes No

Comments:

Legal Agreement: Consent Order and Agreement, Consent Decree or Order: Yes No N/O Date executed:

In compliance with legal agreement: Yes No Could not confirm during field inspection

Obligations due next:

Comments:

Sewage Treatment Plant

Treatment Plant Design Capacity: Hydraulic (MGD): 4.8 Organic (PPD): 9207

High Flow Management / Maintenance Plan Available: Yes No N/A Plan implemented at: 7.5 MGD

Hauled in wastes: Facility accepts hauled in wastes: Yes No Reported to DEP on proper forms: Yes No N/A N/O

Flow at which facility stops accepting hauled in waste (MGD): N/A N/O

Comments: **There is currently no set flow at which the facility stops accepting hauled in wastes; Wastes are only accepted from Dalton Service Co.**

Solids Management: Disposal records available: Yes No N/O Retained for at least five years: Yes No

Production for calendar year: 2016--212.5 tons

Production estimated using EPA Composite Correction Approach: Yes No Disposal within 15% of estimate: Yes No

Hauler: Joseph J Brunner

Disposal location: Brunner Landfill

Comments: **84.2% of expected sludge disposal was achieved.**



SEWAGE COMPLIANCE INSPECTION REPORT

Collection System

Chapter 94 Report: Submitted: Yes No N/A N/O Hydraulic or Organic Overload: Yes No N/A N/O
Comments: **(Chapter 94 was on file at STP and briefly reviewed during the inspection.)**

Permitted facility receives flow from contributing collection systems owned/maintained by others: Yes No N/O
Comments: **Contributing flow received from Boroughs of Big Beaver, Homewood, Eastvale, Patterson Heights, West Mayfield; and Townships of Patterson, White, & North Sewickley**

Sanitary Sewer Overflows: Since last inspection: Yes No Reported to DEP: Yes No
Location/cause:

Collection system: Owned by: Permittee Other:
Maintained by: Permittee Other: **(Contributing municipalities as listed above)**
Maintenance performed: Regularly scheduled As problems occur None N/A
Type of maintenance: Televised: **3600 linear feet in 2016**

 Jetted/Root Cutting: **3600 linear feet in 2016**

 Smoke Testing:

 Other: **148 properties were dye tested in 2016 to check connections from garage drains, etc.**

 Sewer Shed metering:

 Sewers repaired/replaced: **300 feet of damaged sanitary line was replaced @ 4th Ave & 28th St; 280 feet was replaced @ Locust Street.**

Inflow and Infiltration: Facility reports influences of: Inflow Infiltration
Detail I&I Detection work performed since last inspection:

Detail I&I Removal work performed since last inspection:

Comments: **Contributing municipalities oversee I&I work within their own collection systems. Beaver Falls Street Dept. handles I&I work within the City of Beaver Falls.**

Pump Stations: Total number: 8 Inspection frequency: **Eastvale--Daily ; Contributing Municipalities--N/O**
Operator Name: **Joseph Durish Sr.** Client ID: **235217** Class-Subclasses: **E** License Exp. Date: **9/30/2019**
Flow measurement: Metered Estimated Other:
Pump stations monitored with alarm systems: Yes No N/A N/O
Pump stations capable of operation with backup auxiliary power: Yes No N/A N/O
Comments: **Big Beaver Borough oversees the operation and maintenance for 7 of the 8 pump stations that contribute flow to Beaver Falls STP. Beaver Falls maintains Eastvale pump station only.**



SEWAGE COMPLIANCE INSPECTION REPORT

Effluent / Receiving Water Evaluation					
Outfall Number(s): 101		Stream Name: Beaver River			
DEP Collector #:	Field Measurements:		Upstream	Outfall	Downstream
Sample Date/Time:	Flow				MGD
Sample Location:	pH				S.U.
	Conductivity				µmhos/cm
	Dissolved Oxygen				mg/L
	Total/Free Chlorine Residual				mg/L
	Temperature				°
Upstream Observations:	OK; Muddy from recent high flows				
<input type="checkbox"/> Not Observed					
Outfall Observations:	IMP 101 OK, slightly cloudy but conditions have improved since last inspection. Location of Outfall 001 discharge is not safely accessible.				
<input type="checkbox"/> Not Observed					
Downstream Observations:	OK; Muddy from recent high flows				
<input type="checkbox"/> Not Observed					
Outfall Number(s): 002		Stream Name: Beaver River			
DEP Collector #:	Field Measurements:		Upstream	Outfall	Downstream
Sample Date/Time:	Flow			1.54	MGD
Sample Location:	pH				S.U.
	Conductivity				µmhos/cm
	Dissolved Oxygen				mg/L
	Total/Free Chlorine Residual				mg/L
	Temperature				°
Upstream Observations:	102: No flow				
<input type="checkbox"/> Not Observed					
Outfall Observations:	Steady flow noted at downstream (combined) manhole.				
<input type="checkbox"/> Not Observed					
Downstream Observations:	OK; Muddy from recent high flows				
<input type="checkbox"/> Not Observed					
Outfall Number(s):		Stream Name:			
DEP Collector #:	Field Measurements:		Upstream	Outfall	Downstream
Sample Date/Time:	Flow				MGD
Sample Location:	pH				S.U.
	Conductivity				µmhos/cm
	Dissolved Oxygen				mg/L
	Total/Free Chlorine Residual				mg/L
	Temperature				°
Upstream Observations:	<input type="checkbox"/> Not Observed				
Outfall Observations:	<input type="checkbox"/> Not Observed				
Downstream Observations:	<input type="checkbox"/> Not Observed				



City of Beaver Falls
WATER POLLUTION CONTROL PLANT
715 Fifteenth Street
BEAVER FALLS, PA 15010

Phone: 724-843-7184
Fax: 724-843-6787

8/10/2017

Pennsylvania DEP
Beaver Falls District Office
715 15th Street
Beaver Falls, PA 15010

Re: Violation of Sections 201 and 202 of The Clean Streams Law

Dear Mrs. Schmidt

The Beaver Falls STP exceeded the effluent limitations of Total Suspended Solids (TSS) on three separate occasions. All three exceedances occurred during higher than normal flows.

The first exceedance occurred during the week of December 18, 2016 after a rain event that produced 1.74 inches of rain within 48 hours. On December 18, 2016 our 8 hour composite sample of TSS was 55 mg/l and was based off of 8.85 MGD, which put us over the Max Weekly Average Loading.

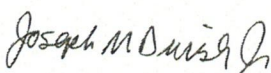
The second exceedance occurred during the week of January 15, 2017. The plant received 2.07 inches of rain a few days prior to the exceedance. On January 15, 2017 our 8 hour composite sample of TSS was 77 mg/l and on January 18, 2017 our 8 hour composite sample of TSS was 19 mg/l which put us over the Max Weekly Average Concentration.

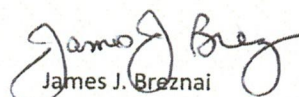
The third exceedance occurred during the week of May 5, 2017. The plant received 1.44 inches of rain 48 hours prior to our 8 hour composite sample on May 5, 2017. Also, during our sampling, we had one primary settling tank offline for an annual inspection. The TSS results were 58 mg/l. During our 8 hour composite sample on May 10, 2017, we had two secondary settling tanks offline for an annual inspection and a contact tank was offline for cleaning. The TSS results were 42 mg/l, which put us over the Max Weekly Average Concentration.

After reviewing our data, and back logs during all three exceedances, we came up with a plan to prevent recurrences of the violation. During higher than normal flows the operators will keep flights running in all settling tanks, remove sludge from secondary settling tanks at a higher rate, skim off secondary scum and any floatable solids at a continuous rate. Also, we will not plan settling tank inspections and general maintenance of any other operation during high flows.

If you have any questions, please feel free to call me at 724-843-7184 ext. 305, or email me at joedurish88@gmail.com.

Thanks,


Joseph M. Durish Jr.
Beaver Falls STP
Chief Operator


James J. Breznai
Plant Manager

From: Schmidt, Amanda amschmidt@pa.gov
Subject: RE: Secondary Bypass
Date: Sep 17, 2018 at 11:17:35 AM
To: Joe Durish joedurish88@gmail.com

Received, thank you.

Please let me know if you have any more problems with these next expected heavy rains.

Also, did you ever hear anything back from White Township on their overdue Chapter 94 questionnaire?

-----Original Message-----

From: Joe Durish [<mailto:joedurish88@gmail.com>]
Sent: Tuesday, September 11, 2018 3:26 PM
To: Schmidt, Amanda <amschmidt@pa.gov>
Subject: Secondary Bypass

Amanda,

The Beaver Falls STP experienced a secondary bypass of 1,035,000 gallons on 9/9/18 and into 9/10/18. During the secondary bypass, the wastewater bypassed secondary treatment, but it was still chlorinated before discharge. This bypass was caused by the large amount of rain that fell on those days. Our rain gauge calculated 6.05 inches of rain altogether. The samples that were collected during the bypass are being analyzed by CMA Lab. Let me know if there's anything else you need from me.

Thanks,

Joe Durish Jr.
Beaver Falls STP

P.S. I finally got the Chapter 94 questionnaire from White TWP!