#### 3850-PM-BCW0015d 3/2016 Permit



### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

PERMIT NO. 4019401	
AMENDMENT NO.	

APS ID. 999521

**AUTH. ID.** <u>1284087</u>

## WATER QUALITY MANAGEMENT PERMIT

A.	PERMITTEE (Name and Address): Bonnieville, Inc. 477 Bonnieville Road	CLIENT ID#: <b>331992</b>		B. PROJECT/FACILITY (Nam Bonham Nursing & Rehal		enter WWTP
	Stillwater, PA_17878			OUTE ID # AAA		
C.	LOCATION (Municipality, County): Huntington Township, Luzerne Co	unty		SITE ID#: <b>864</b>		
D.	This permit approves the construction/modification/operation of sewage facilities consisting of: A new 0.008 MGD WWTP will replace the existing WWTP. All components between the existing influent gravity line and the existing gravity outfall line will be replaced. Major aspects of the project include:					
	<ul> <li>6,100-gallon equalization tank with submerged bar screen with 1" slots spaced 1.5" apart. A 63 cfm blower will supply air to the tank through coarse bubble diffusers. Two influent pumps (one service, one backup) rated at 90 gpm @ 15 ft TDH will convey wastewater flows to a flow control chamber.</li> <li>From the flow control chamber, flow enters a 16,983-gallon aeration basin via V-notch weirs. An 85 cfm blower will supply air to the tank through coarse bubble diffusers. Wastewater then flows to the 1,667-gallon secondary clarifier. Sludge that settles to the bottom of the hopper will be returned continuously to the aeration tank via air lift pumps.</li> <li>A 167-gallon baffled chlorine contact tank with tablet chlorination and an 83-gallon dechlorination tank with tablet dechlorination follows secondary clarifier.</li> <li>An aerobic digester will be divided into a 4,140-gallon sludge holding tank and a 8,280-gallon seed tank. A 63 cfm blower will supply air to the tank through coarse bubble diffusers. The 3-inch airlift sludge pumps are capable of returning sludge to either the holding tank or seed tank. 2-inch airlift skimmer pumps will return floating material to the aeration basin.</li> <li>An ultrasonic level sensing flow meter will measure the total flow of the final effluent in the effluent stilling well chamber.</li> <li>Cathodic protection is provided by twelve 17-pound magnesium anodes connected to the structure by heavy copper wire.</li> <li>During power outages, the use of a 2-inch portable pump capable of passing ¾" solids at up to 158 gpm is proposed to transfer wastewater from the equalization tank to the upper treatment train. An overflow pipe from the equalization tank leading to the chlorine contact tank is also proposed in the event the backup portable pump fails.</li> </ul>					
Pump Stations: <u>N/A</u> Manure Storage: <u>N/A</u>			Sewage Treatment Facility:			
Des	ign Capacity: GPM	Volume: MG		Annual Average Flow:	0.008	MGD
		Freeboard:inches		Design Hydraulic Capacity:	0.008	MGD
				Design Organic Capacity:	<u>33.36</u>	lbs/day
E.	APPROVAL GRANTED BY THIS PE	RMIT IS SUBJECT TO THE FOLLO	WING:			
1.						
2.	Permit Conditions Relating to Sewerage are attached and made part of this permit.					
3.	Special Conditions A and B are attached and made part of this permit.					
F.	THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS:					
1.	shall apply.					
2.	by the issuance of this permit.					
3.	3. This permit is issued pursuant to the Clean Streams Law Act of June 22, 1937, P.L. 1987, as amended 35 P.S. §691.1 <i>et seq.</i> Issuance of this permit shall not relieve the permittee of any responsibility under any other law.				Issuance of this permit	
	PERMIT ISSUED:	ı	BY:	/s/		
	December 17, 2019		TITLE:	Bharat Patel, P.E. Environmental Program M Northeast Regional Office	anager	

3850-PM-BCW0015a 7/2016 Conditions Sewerage



### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

#### PERMIT CONDITIONS RELATING TO SEWERAGE

For use in Water Quality Management Permits

The Department of Environmental Protection (DEP) considers the licensed Professional Engineer whose seal

is affixed to the design documents to be fully responsible for the adequacy of all aspects of the facility design.

The permittee shall adopt and enforce an ordinance requiring the abandonment of privies, cesspools or similar

(Check boxes that apply)

General

1.

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		accessible to public sewers. All such structures must be connected to the public sewers.
	3.	The outfall sewer or drain shall be extended to the low water mark of the receiving body of water. Where necessary to ensure proper mixing and waste assimilation, an outfall sewer or drain may be extended with appurtenances below the low water mark and into the bed of a navigable stream provided that the permittee has secured an easement, right-of-way, license or lease from DEP in accordance with Section 15 of the Dam Safety and Encroachments Act, the Act of November 26, 1978, P.L. 1375, as amended.
	4.	The approval is specifically made contingent on the permittee acquiring all necessary property rights, by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures in, along or across private property with full rights of ingress, egress and regress.
$\boxtimes$	5.	When construction of the approved sewerage facilities is completed and before they are placed in operation, the permittee shall notify DEP in writing so that a DEP representative may inspect the facilities.
	6.	The approval of the plans, and the authority granted in this permit, if not specifically extended, shall cease and be null and void 5 years from the issuance date of this permit unless construction or modification of the facilities covered by this permit has begun on or before the fifth anniversary of the permit date.
	7.	If, at any time, the sewerage facilities covered by this permit create a public nuisance, including but not limited to, causing malodors or causing environmental harm to waters of the Commonwealth, DEP may require the permittee to adopt appropriate remedial measures to abate the nuisance or harm.
	8.	If, after the issuance of this permit, DEP approves a municipal sewage facilities official plan or an amendment to an official plan under Act 537 (Pennsylvania Sewage Facilities Act, the Act of January 24, 1966, P.L. 1535 as amended) in which sewage from the herein approved facilities will be treated and disposed of at other planned facilities, the permittee shall, upon notification from the municipality or DEP, provide for the conveyance of its sewage to the planned facilities, abandon use and decommission the herein approved facilities including the proper disposal of solids, and notify DEP accordingly. The permittee shall adhere to schedules in the approved official plan, amendments to the plan, or other agreements between the permittee and municipality. This permit shall then, upon notice from DEP, terminate and become null and void and shall be relinquished to DEP.
$\boxtimes$	9.	This permit does not relieve the permittee of its obligations to comply with all federal, interstate, state or local laws, ordinances and regulations applicable to the sewerage facilities.
	10.	This permit does not give any real or personal property rights or grant any exclusive privileges, nor shall it be construed to grant or confirm any right, easement or interest in, on, to or over any lands which belong to the Commonwealth.

### Construction

12. This permit is issued under the authorization of The Clean Streams Law and 25 Pa. Code Chapter 91. The permittee shall obtain all necessary permits, approvals and/or registrations under 25 Pa. Code Chapters 102, 105 and 106 prior to commencing construction of the facilities authorized by this permit, as applicable. The permittee should contact the DEP office that issued this permit if there are any questions concerning the applicability of additional permits.

11. The authority granted by this permit is subject to all effluent requirements, monitoring requirements and other conditions as set forth in the NPDES Permit and all subsequent amendments and renewals. No discharge is

authorized from these facilities unless approved by an NPDES Permit.

- 13. The facilities shall be constructed under the supervision of a Pennsylvania licensed Professional Engineer in accordance with the approved reports, plans and specifications.
   14. A Pennsylvania licensed Professional Engineer shall certify that construction of the permitted facilities was completed in accordance with the application and design plans submitted to DEP, using the "Post Construction Certification" form (3800-PM-WSFR0179a). It is the permittee's responsibility to ensure that a Professional Engineer is on-site to provide the necessary oversight and/or inspections to certify the facilities. The certification must be submitted to DEP before the facility is placed in operation. As-built drawings,
- Manhole inverts shall be formed to facilitate the flow of the sewage and to prevent the stranding of sewage solids. The manhole structure shall be built to prevent undue infiltration, entrance of street wash or grit and provide safe access to facilitate manhole maintenance activities.

photographs (if available) and a description of all deviations from the application and design plans must be

16. The local Waterways Conservation Officer of the Pennsylvania Fish and Boat Commission (PFBC) shall be notified when the construction of any stream crossing and/or outfall is started and completed. A written permit must be secured from the PFBC if the use of explosives in any waterways is required and the permittee shall notify the local Waterways Conservation Officer when explosives are to be used.

#### **Operation and Maintenance**

submitted to DEP within 30 days of certification.

- □ 17. The permittee shall maintain records of "as-built" plans showing all the treatment facilities as actually constructed together with facility operation and maintenance (O&M) manuals and any other relevant information that may be required. Upon request, the "as-built" plans and O&M manuals shall be filed with DEP.
- 18. The sewers shall have adequate foundation support as soil conditions require. Trenches shall be back-filled to ensure that sewers will have proper structural stability, with minimum settling and adequate protection against breakage. Concrete used in connection with these sewers shall be protected from damage by water, freezing, drying or other harmful conditions until cured.
- 19. Stormwater from roofs, foundation drains, basement drains or other sources shall not be admitted directly to the sanitary sewers.
- 20. The approved sewers shall be maintained in good condition, kept free of deposits by flushing or other cleaning methods and repaired when necessary.
- 21. The sewerage facilities shall be properly operated and maintained to perform as designed.
- 22. The attention of the permittee is called to the highly explosive nature of certain gases generated by the digestion of sewage solids when these gases are mixed in proper proportions with air and to the highly toxic character of certain gases arising from such digestion or from sewage in poorly ventilated compartments or sewers. Therefore, at all places throughout the sewerage facilities where hazard of fire, explosion or danger from toxic gases may occur, the permittee shall post conspicuous permanent and legible warnings. The permittee shall instruct all employees concerning the aforesaid hazards, first aid and emergency methods of meeting such hazards and shall make all necessary equipment and material accessible.
- 23. An operator certified in accordance with the Water and Wastewater Systems Operator Certification Act of February 21, 2002, 63 P.S. §§1001, et seq. shall operate the sewage treatment plant.
- 24. The permittee shall properly control any industrial waste discharged into its sewerage system by regulating the rate and quality of such discharge, requiring necessary pretreatment and excluding industrial waste, if necessary, to protect the integrity or operation of the permittee's sewerage system.
- 25. There shall be no physical connection between a public water supply system and a sewer or appurtenance to it which would permit the passage of any sewage or polluted water into the potable water supply. No water pipe shall pass through or come in contact with any part of a sewer manhole.
- 26. All connections to the approved sanitary sewers must be in accordance with the official Act 537 Plan and, if applicable, a corrective action plan as contained in the approved Title 25 Pa. Code Chapter 94 Municipal Wasteload Management Annual Report.
- 27. Collected screenings, slurries, sludge and other solids shall be handled and disposed of in compliance with Title 25 Pa. Code Chapters 271, 273, 275, 283 and 285 (related to permits and requirements for land filling, land application, incineration and storage of sewage sludge), Federal Regulations 40 CFR 257 and the Federal Clean Water Act and its amendments.



### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

# WATER QUALITY MANAGEMENT POST CONSTRUCTION CERTIFICATION

**PERMITTEE IDENTIFIER** 

Permittee	Bonnieville, Inc.				
Municipality	Huntington Township				
County	Luzerne				
WQM Permit No.	4019401				
Facility Type	Sewage				
	CEF	RTIFICATION			
This certification must be completed and returned to the permits section of the DEP's regional office issuing the WQM permit within 30 days of completion of the project and received by DEP prior to operation, and if requested, as-built drawings, photographs (if available) and a discussion of any DEP-approved deviations from the design plans during construction.					
I, being a Registered Professional Engineer in Pennsylvania, do hereby certify to the best of my knowledge and belief, based upon personal observation and interviews, that the above facility approved under the Water Quality Management Permit has been constructed in accordance with the plans, specifications and modifications approved by DEP.					
Construction Completion Date (MM/DD/YYYY):					
		Professional Engineer			
		Name			
		(Please Print or Type)			
		Signature			
		Date			
		License Expiration Date			
		Firm or Agency			
		Telephone			
		Permittee or Authorized Representative			
		Name(Please Print or Type)			
Engineer's		Signature			
	Seal	Title			
		Telephone			