



WATER QUALITY MANAGEMENT PERMIT

<p>A. PERMITTEE (Name and Address): CLIENT ID#: 87712</p> <p>Pennsylvania American Water 852 Wesley Drive Mechanicsburg, PA 17055</p>	<p>B. PROJECT/FACILITY (Name):</p> <p>Exeter Township WWTP -Birdsboro</p>	
<p>C. LOCATION (Municipality, County): SITE ID#: 454828</p> <p>Exeter Township, Berks County</p>		
<p>D. This permit/transfer approves the operation/transfer of sewage facilities consisting of:</p> <p>Sewer system and pump stations conveying to the Exeter Township WWTP including the previously issued WQM permits listed on the attachment.</p>		
<p>Pump Stations: _____</p> <p>Design Capacity: _____ GPM</p>	<p>Manure Storage:</p> <p>Volume: _____ MG</p> <p>Freeboard: _____ inches</p>	<p>Sewage Treatment Facility:</p> <p>Annual Average Flow: _____ MGD</p> <p>Design Hydraulic Capacity: _____ MGD</p> <p>Design Organic Capacity: _____ lb/day</p>
<p>E. APPROVAL GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING:</p> <ol style="list-style-type: none"> Transfers: Water Quality Management Permit No.'s <u>[see attached list]</u> dated <u>[see attached list]</u> and conditions, supporting documentation and addendums are also made part of this transfer. Permit Conditions Relating to Sewerage are attached and made part of this permit. Special Conditions <u>N/A</u> are attached and made part of this permit. 		
<p>F. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS:</p> <ol style="list-style-type: none"> If there is a conflict between the application or its supporting documents and amendments and the attached conditions, the attached conditions shall apply. Failure to comply with the rules and regulations of DEP or with the terms or conditions of this permit shall void the authority given to the permittee by the issuance of this permit. 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. 		
<p>PERMIT ISSUED:</p> <p><u>10/30/19</u></p>	<p>BY: <u>/s/</u></p> <p>Maria D. Bebenek, P.E. Clean Water Program Manager Southcentral Regional Office</p> <p>TITLE:</p>	

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

(Check boxes that apply)

General

- 1. 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.
- 2. The permittee shall adopt and enforce an ordinance requiring the abandonment of privies, cesspools or similar receptacles for human waste and onlot sewage disposal systems on the premises of occupied structures 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.
- 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 2 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 second 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.
- 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.
- 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 PA0026972 and all subsequent amendments and renewals. No discharge is authorized from these facilities unless approved by an NPDES Permit.

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.

- 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, photographs (if available) and a description of all deviations from the application and design plans must be submitted to DEP within 30 days of certification.
- 15. 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.
- 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

- 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.

WQM Permit	Issued Date	Location/Description
0602410	11/18/2002	Glen Oley Farms Pump Station on Beecham Rd.; 200 gpm hydraulic capacity; submersible pumps; 6" FM; serving 30 homes
0604413	12/9/2004	Replacement of gravity sewer, 5100' approx., from clay pipe to 10" and 15" PVC & DI pipe; Shelborne/Shoffers/Boyertown Rd areas
0611403	2/8/2012	replacemt of approx. 3850' of Antietam Creek interceptor w/ 18" interceptor betwn MH's 204 and 219; new MHs; 3 stream crossings
0669405	6/20/1969	sewer extension on Pennsylvania Avenue, design population of 53
0669407	8/28/1969	sewer extension in Sunset Manor Section #2, serving population of 60
0670407	7/17/1970	sewer ext's on Old Friedensburg Rd, Stonetown Rd, Dauphin Place; serving pop.'s of 100,30,&20, respectively
0670408	8/11/1970	sewer ext. to serve Sunset Manor Development Section #2, future population of 106
0670413	12/9/1970	sewer ext. for Sunset Manor Development Section #2, population of 89 by 1985
0671401	2/2/1971	sewer ext. for Marywood Section 2 serving pop. 130 by 1985; & approval of as-built receiving sewer on St. Lawrence Ave.
0671402	2/3/1971	sewer ext. for Farming Ridge Development Section 1, design population of 4016 by 1980
0671406	5/25/1971	Sewers at Mountain Park Development I, stated design flow of 0.0364 MGD (as average daily flow)
0671409	7/15/1971	sewer ext. (location not evident from old records)
0671410	7/27/1971	sewer ext. for Executive Circle development, serving design population of 30
0671411	7/30/1971	sewer ext. for Hanover East Development, design population of 85 based on year 2020
0671413	7/22/1971	sewer ext. for Woodgate Development, design population of 1500 based on year 1980
0671414	7/23/1971	sewer ext. for Maple Springs Development, design population of 225 based on year 2020
0671421	11/11/1971	sewer ext. on Lehigh Avenue in Sunset Manor Development
0672420	12/21/1972	sewer ext. on Hearthstone Dr, Crestwood Development, design pop. of 90, design avg. daily flow of 0.009 MGD
0673413	8/1/1973	sewer ext. for Fairways south of U.S. Rt. 422 and Lorane Rd, Duran Develop., serving 320 persons
0673414	8/3/1973	sewer ext. for Lorane Orchards NE of Painted Sky Rd and Lorane Rd, serving 1000 persons
0673421	10/17/1973	sewer ext. for Mountain Park Development, Section 2, pop. of 354 by 2020
0673422	11/14/1973	sewer ext. on Jefferson Drive, Linstead Development, design population of 32
0673424	11/21/1973	sewer ext. for Hearthstone Dr., Ironstone Dr., Lori ct, W. Neversink Rd in Crestwood Dev. Section #4, serving 279 persons
0673425	11/21/1973	sewer ext. along David St. and Phillip Ave., for conveyance via Heisters Creek trunk sewer
0674412	6/27/1974	sewer ext. for Valley View Acres Development
0674413	6/25/1974	sewer ext. on Deborah Dr., design population of 50 by 2020
0674414	8/15/1974	sewer ext. for Section 2 of Woodgate Development, design pop. of 525 by 1980 & existing 217' sewer on Woodland Rd.
0674420	11/18/1974	sewer ext. for Laurel Springs Development, design pop. of 1,175 by 2020
0674421	4/8/1975	sewer ext. for Farming Ridge Development, Section 2, serving 543 persons, conveyance via Antietam Creek Interceptor
0674422	12/18/1974	sewer ext. for Section 2 of Fairways Development, to serve pop. of 56
0675406	4/8/1975	sewer ext. for Bernet property on Spruce Avenue, serving 14 persons

0675407	4/10/1975	sewer ext. for Exeter Industrial Park
0676408	9/3/1976	sewer ext. for Sylvan Villa Section 2, design pop. of 50 persons by 2020. 591 ft. of 8" sewers.
0677407	7/18/1977	sewer ext. for Exeter Court Dev. at Church Lane Rd. & Oley Trnprk, design pop.of 158, conveys via Antietam Crk Interceptor
0677408	8/4/1977	sewer ext. for Killian and Williams Avenues, Rodney Plaza, and N. end of Butter Lane. Approx. 3000' of sewers.
0677409	8/8/1977	sewer ext. for Mountain Park Dev. Section 3, Butter Lane, to serve design pop. of 210. (to Antietam Crk Interceptor)
0677419	12/16/1977	sewer ext. for Green Tree Acres subdivision along 49th St.
0677420	1/4/1978	sewer ext. for Crestwood subdivision Section 5, design pop. of 175 by 2020. Approx. 1561' of 8" sewers.
0678407	6/9/1978	sewer ext. for Country Club Estates, design pop. of 329
0678409	7/24/1978	sewer ext. for Pheasant Run subdivision, serving design pop. of 574
0678411	7/18/1978	sewer ext. along Old Boyertown Rd (Rt T504). Conveys via Antietam Creek Interceptor
0678412	7/21/1978	sewer ext. for Farming Ridge Development, Section 3, to serve 179 persons. Conveys via Antietam Creek Interceptor
0678414	8/10/1978	sewer ext. for Pathfinder Valley Section 1, design population of 182
0678418	11/20/1978	2 sewer ext.'s for Abrens Rd. and for Stonetown Rd, design population of 200
0679401	1/24/1979	sewer ext. for Ogden Drive, to serve 18 persons in subdivision. Conveys via Heisters Creek trunk sewer.
0679403	1/26/1979	sewer ext. for S.L. Gordon tract, design population of 14.
0683403	8/26/1983	sewer ext. to serve Boundtree Acres at E. side of Pheasant Run & Gibraltar Rd intersection, serving 91 people ultimately
0683409	1/27/1984	sewer ext. to serve Wingspread Subdivision, 42 residential dwellings, approximately 115 persons
0685411	11/26/1985	sewer ext. for Gaughan Subdivision, 3 residential lots
0685412	12/18/1985	sewer ext. serve Farming Ridge Sections 3, 4, and 5
0686412	9/5/1986	sewer ext. serving Pheasant Run Section 3
0686415	10/15/1986	sewer ext. serving Farming Ridge Section 6, S. of Farming Ridge Blvd., serving 195 people initially and ultimately
0686419	12/18/1986	sewer ext. serving Wingspread Phase II
0686423	4/7/1987	sewer ext. for Crestwood East development, serving 225 people initially and ultimately
0687410	7/1/1987	sewer ext. for Exeter Golf Club Estates on E. side of Shelbourne Rd., serving 171 people initially and ultimately
0687411	8/7/1987	sewer ext. for Forest Court single homes, on S. side of Hartman Rd., serving 20 people initially and ultimately
0687414	10/5/1987	sewer ext. for Grist Mill Farms, single family units, serving 266 people initially and ultimately; w/ stream crossing
0687419	9/9/1988	sewer ext. for Morissette property, Washington Dr. and Hartline Drive
0687420	10/21/1987	sewer ext. for Wilson subdivision
0687423	12/9/1987	sewer ext. for Exter Village Phase I, E. side of Shellbourne Rd. at intersection with Fairlane Rd., serving 307 people
0688412	6/10/1988	sewer ext. for Homestead, 35 residential units at Kenneth Place and Owen Place; expected to generate 10,500 gpd
0688416	6/27/1988	sewer ext. for Pathfinder Valley Section 2
0688423	8/17/1988	sewer ext. for Reiffon Addition #5
0688424	8/4/1988	sewer ext. for 57 single family units in P.C. Yerger Corp. Devon Green project, serving 200 people initially and ultimately
0688429	11/4/1988	sewer ext. for Sandy Run East

0688430	10/4/1988	sewer ext. for 2 residential units on NE corner of Stonetown Rd. and Rugby Rd.
0688436	11/30/1988	sewer ext. for Tripodi Minor subdivision, 5 miles S. of Rt. 422, serving 3 people initially and ultimately
0688437	11/8/1988	sewer ext. for Heister's Creek Phase I, N. of Rt 422 and W. of Stonetown Rd, 57 units@mobile home park, to serve 200 people
0688442	1/4/1989	sewer ext. for High Meadow Estates W. of Wegman Rd., serving 120 people initially and ultimately
0688443	1/3/1989	sewer ext. to Exeter Greens office park on N. side of Rt 422, next to DeMoss & Gibraltar Rds, serving 300 people
0688445	3/6/1989	sewer ext. to Shellbourne Square shopping ctr., S. side of Rt 422, 57 EDU's
0689401	3/13/1989	sewer ext. to Lincoln Corp. Center, an industrial project expected to generate 0.070 MGD of sewage, W. of Lincoln Rd.
0689402	3/6/1989	sewer ext. to Long Pond
0689404	6/2/1989	sewer ext. to Woodgate IIIA & IIIB on E. side of Neversink Rd. & 5 miles S. of Rt 422, to serve 286 people
0689414	8/18/1989	sewer ext. to Sunrise III
0689418	8/25/1989	sewer ext. for the Fairways, serving 933 people initially and ultimately
0689419	9/6/1989	sewer ext. for Sunrise II, N. of Reading RR and W. of Gibraltar Rd., to serve 98 people initially and ultimately
0690403	12/18/1989	Antietam Creek trunk improvements
0690403 Amendmt.	7/9/1990	Amendment to Antietam Creek trunk improvements
0691411	9/10/1991	Lincoln Rd. Pump Station
0692408	10/27/1992	Baumstown, Pottstown, and Buddies Place Pump Stations Baumstown PS: 6" D.I.P. forcemain; enters MH LR9; design avg. flow of 0.1029 MGD, maximum flow of 0.25725 MGD; includes 0.0324 MGD of industrial ww; includes 3 branches of low pressure sewers Pottstown PS: 6" D.I.P. forcemain; enters MH LR24; design avg. flow of 0.113 MGD and maximum flow of 0.2825 MGD; includes 0.068 MGD of industrial ww. Buddies Place PS: 6" D.I.P. forcemain; enters manhole on Fairview Chapel Rd.; design avg. flow of 0.1059 MGD and maximum flow of 0.26475 MGD; no industrial ww
0694413	10/4/1994	sewer ext. for Pathfinder Valley Section 3, to serve 121 new residential units. 10" gravity sewer.
0695412	12/5/1995	Pineland Road Pump Station and sewer extension, to serve 9 residential properties on Pineland road