

Pennsylvania American Water Company

City of York, York County, PA Act 537 Plan Special Study

Submitted to:

Pennsylvania Department of Environmental Protection

November 30, 2021



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Part I General Information Form





PART 1 GENERAL INFORMATION

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

ACT 537 PLAN CONTENT AND ENVIRONMENTAL ASSESSMENT CHECKLIST

A. Project Information						
1. Project Name City of York Wastewater	System					
2. Brief Project Description Update to the York Wastewater Treatment System by the F			ding asset a	cquisitio	n of the C	ity of
B. Client (Municipality) Information						
Municipality Name	County	City	В	oro	Tv	vp
York	York	\boxtimes	[\boxtimes		
Municipality Contact Individual - Last Name	First Name	MI	Suffix	Title		
Additional Individual Last Name	First Name	MI	Suffix	Title		
Municipality Mailing Address Line 1		Mailing Address Line 2				
101 S George Street						
Address Last Line City		State	ZIP+4			
York		PA	17401			
Phone + Ext.	FAX (optional)	Email	(optional)			
(717) 849-2221						
C. Site Information						
Site (or Project) Name		(NAinin n	I NI \	507 DI-	_	
City of York Wastewater System		· · · · · · · · · · · · · · · · · · ·	Name) Act	537 Pla	n	
Site Location Line 1 1701 Black Ridge Rd, York, PA		Site Location Line 2				
D. Project Consultant Information						
Last Name	First Na	me		MI	Suffix	
Shirk	David					
Title		ing Firm Name				
Project Manager	Buchart					
Mailing Address Line 1	N	Mailing Address Line 2				
445 W Philadelphia Street						
Address Last Line – City	State	ZIP+4		ıntry		
York Fmail Phone + Ext	PA	17401 FAX	US	4		
Email Phone + Ext		FAX				

(717) 852-1412

dshirk@bucharthorn.com

PART 2	ADMINISTRAT	IVE COMPLETENESS CHECKLIST
DEP Use Only	Indicate Page #(s) in Plan	In addition to the main body of the plan, the plan must include items one through eight listed below to be accepted for formal review by DEP. Incomplete plans may be denied unless the municipality is clearly requesting an advisory review.
	TOC	 Table of Contents Plan Summary
	<u>Part 2</u>	A. Identify the proposed service areas and major problems evaluated in the plan (Reference - 25 <i>Pa. Code</i> §71.21(a)(7)(i)).
	<u>Part 2</u>	B. Identify the alternative(s) chosen to solve the problems and serve the areas need identified in the plan. Also, include any institutional arrangements necessar to implement the chosen alternative(s). (Reference - 25 Pa. Code §71.21(a)(7)(ii))
	<u>Part 2</u>	C. Present the estimated cost of implementing the proposed alternative (including the user fees) and the proposed funding method to be used. (Reference - 25 Pa. Coo §71.21(a)(7)(ii)).
	<u>Part 2</u>	 D. Identify the municipal commitments necessary to implement the Plan. (Reference - 25 Pa. Code §71.21(a)(7)(iii)).
	Part 2	E. Provide a schedule of implementation for the project that identifies the major milestones with dates necessary to accomplish the project to the point operational status. (Reference - 25 Pa. Code §71.21(a)(7)(iv)).
	<u>Part 2</u>	3. Municipal Adoption: <i>Original</i> , signed and sealed Resolution of Adoption by the municipality which contains, at a minimum, alternatives chosen and a commitment implement the Plan in accordance with the implementation schedule. (Reference - 25 <i>Pa. Code</i> §71.31(f)) Section V.F. of the Planning Guide.
	<u>Part 2</u>	4. Planning Commission / County Health Department Comments: Evidence that the municipality has requested, reviewed and considered comments by appropriate official planning agencies of the municipality, planning agencies of the county, planning agencies with area wide jurisdiction (where applicable), and any existing county or joint county departments of health. (Reference - 25 Pa. Code §71.31(b)) Section V.E.1 the Planning Guide.
	<u>Part 2</u>	5. Publication: Proof of Public Notice which documents the proposed plan adoption plan summary, and the establishment and conduct of a 30-day comment period (Reference - 25 <i>Pa. Code</i> §71.31(c)) Section V.E.2 of the Planning Guide.
	Part 2	6. Comments and Responses: Copies of all written comments received and municip response to each comment in relation to the proposed plan. (Reference - 25 Pa. Coc §71.31(c)) Section V.E.2 of the Planning Guide.
	<u>Part 2</u>	7. Implementation Schedule: A complete project implementation schedule with milestone dates specific for each existing and future area of need. Other activities the project implementation schedule should be indicated as occurring a finite number days from a major milestone. (Reference - 25 <i>Pa. Code</i> §71.31(d)) Section V.F. of the Planning Guide. Include dates for the future initiation of feasibility evaluations in the project's implementation schedule for areas proposing completion of sewage facilities for planning periods in excess of five years. (Reference - 25 <i>Pa. Code</i> §71.21(c)).
	<u>N/A</u>	8. Consistency Documentation: Documentation indicating that the appropriate agencies have received, reviewed and concurred with the method proposed to resolve identified inconsistencies within the proposed alternative and consistency requirement in 25 Pa. Code §71.21.(a)(5)(i-iii). (Reference - 25 Pa. Code §71.31(e)). Appendix of the Planning Guide.

PART 3	GENERAL PLA	AN CO	ONTE	NT CHECKLIST
DEP	Indicate			
Use Only	Page #(s) in Plan			Item Required
	Part 3	I.	Prev	ious Wastewater Planning
				dentify, describe and briefly analyze all past wastewater planning for its impact on the current planning effort:
	Part 3		1	. Previously undertaken under the Pennsylvania Sewage Facilities Act (Act). (Reference - Act 537, 35 P.S. §750.5(d)(1)).
	Part 3		2	P. Has not been carried out according to an approved implementation schedule contained in the plans. (Reference - 25 <i>Pa. Code</i> §71.21(a)(5)(i)(A-D)). Section V.F of the Planning Guide.
	Part 3		3	8. Is anticipated or planned by applicable sewer authorities or approved under a Chapter 94 Corrective Action Plan. (Reference - 25 <i>Pa. Code</i> §71.21(a)(5)(i)(A&B)). Section V.D. of the Planning Guide.
	Part 3		2	Through planning modules for new land development, planning "exemptions" and addenda. (Reference - 25 <i>Pa. Code</i> §71.21(a)(5)(i)(A)).
	Part 3	II.	(All i	sical and Demographic Analysis utilizing written description and mapping tems listed below require maps, and all maps should show all current lots and tures and be of appropriate scale to clearly show significant information).
	Part 3		A	dentification of planning area(s), municipal boundaries, Sewer Authority/Management Agency service area boundaries. (Reference – 25 <i>Pa. Code</i> §71.21(a)(1)(i)).
	Part 3		(dentification of physical characteristics (streams, lakes, impoundments, natural conveyance, channels, drainage basins in the planning area). (Reference 25 <i>Pa. Code</i> §71.21(a)(1)(ii)).
	<u>N/A</u>		; ; ;	Soils - Analysis with description by soil type and soils mapping for areas not presently served by sanitary sewer service. Show areas suitable for in-ground anlot systems, elevated sand mounds, individual residential spray irrigation systems (IRSIS), and areas unsuitable for soil dependent systems. (Reference 25 <i>Pa. Code</i> §71.21(a)(1)(iii)). Show Prime Agricultural Soils and any locally protected agricultural soils. (Reference - 25 <i>Pa. Code</i> §71.21(a)(1)(iii)).
	<u>N/A</u>		r	Geologic Features - (1) Identification through analysis, (2) mapping and (3) their elation to existing or potential nitrate-nitrogen pollution and drinking water cources. Include areas where existing nitrate-nitrogen levels are in excess of 5 mg/L. (Reference - 25 <i>Pa. Code</i> §71.21(a)(1)(iii)).
	<u>N/A</u>		5	opography - Depict areas with slopes that are suitable for conventional systems; lopes that are suitable for elevated sand mounds and slopes that are unsuitable or onlot systems. (Reference - 25 <i>Pa. Code</i> §71.21(a)(1)(ii)).
	<u>N/A</u>		8	Potable Water Supplies - Identification through mapping, description and analysis. Include public water supply service areas and available public water supply capacity and aquifer yield for groundwater supplies. (Reference - 25 Pa. Code §71.21(a)(1)(vi)). Section V.C. of the Planning Guide.
	<u>N/A</u>		6 (F I	Vetlands-Identify wetlands as defined in 25 <i>Pa. Code</i> Chapter 105 by lescription, analysis and mapping. Include National Wetland Inventory mapping and potential wetland areas per the United States Department of Agricultural USDA) Natural Resources Conservation Service (NRCS) mapped hydric soils. Proposed collection, conveyance and treatment facilities and lines must be ocated and labeled, along with the identified wetlands, on the map. (Reference 25 <i>Pa. Code</i> §71.21(a)(1)(v)). Appendix B, Section II.I of the Planning Guide.

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	Part 3	III. E	Existi	ng Sewage Facilities in the Planning Area - Identifying the Existing Needs
		,		entify, map and describe municipal and non-municipal, individual and ommunity sewerage systems in the planning area including:
	Part 3		1.	Location, size and ownership of treatment facilities, main intercepting lines, pumping stations and force mains including their size, capacity, point of discharge. Also include the name of the receiving stream, drainage basin, and the facility's effluent discharge requirements. (Reference - 25 <i>Pa. Code</i> §71.21(a)(2)(i)(A)).
	Part 3		2.	A narrative and schematic diagram of the facility's basic treatment processes including the facility's National Pollutant Discharge Elimination System (NPDES) permitted capacity, and the Clean Streams Law permit number. (Reference - 25 <i>Pa. Code</i> §71.21(a)(2)(i)(A)).
	Part 3		3.	A description of problems with existing facilities (collection, conveyance and/or treatment), including existing or projected overload under 25 <i>Pa. Code</i> Chapter 94 (relating to municipal wasteload management) or violations of the NPDES permit, Clean Streams Law permit, or other permit, rule or regulation of DEP. (Reference - 25 <i>Pa. Code</i> §71.21(a)(2)(i)(B)).
	Part 3		4.	Details of scheduled or in-progress upgrading or expansion of treatment facilities and the anticipated completion date of the improvements. Discuss any remaining reserve capacity and the policy concerning the allocation of reserve capacity. Also discuss the compatibility of the rate of growth to existing and proposed wastewater treatment facilities. (Reference - 25 <i>Pa. Code</i> §71.21(a)(4)(i & ii)).
	<u>N/A</u>		5.	A detailed description of the municipality's operation and maintenance (O & M) requirements for small flow treatment facility systems, including the status of past and present compliance with these requirements and any other requirements relating to sewage management programs (SMPs). (Reference – 25 <i>Pa. Code</i> §71.21(a)(2)(i)(C)).
	<u>N/A</u>		6.	Disposal areas, if other than stream discharge, and any applicable groundwater limitations. (Reference - 25 <i>Pa. Code</i> §71.21(a)(4)(i & ii)).
	<u>N/A</u>	E	(3 co s)	sing DEP's publication titled <i>Act 537 Sewage Disposal Needs Identification</i> 800-BK-DEP1949), identify, map and describe areas that utilize individual and ammunity onlot sewage disposal and, unpermitted collection and disposal astems ("wildcat" sewers, borehole disposal, etc.) and retaining tank systems in e planning area including:
	<u>N/A</u>		1.	The types of onlot systems in use. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(A)).
	<u>N/A</u>		2.	A sanitary survey complete with description, map and tabulation of documented and potential public health, pollution, and operational problems (including malfunctioning systems) with the systems, including violations of local ordinances, the Act, the Clean Stream Law or regulations promulgated thereunder. (Reference - 25 <i>Pa. Code</i> §71.21(a)(2)(ii)(B)).
	<u>N/A</u>		3.	A comparison of the types of onlot sewage systems installed in an area with the types of systems which are appropriate for the area according to soil, geologic conditions, topographic limitations sewage flows, and 25 <i>Pa. Code</i> Chapter 73 (relating to standards for sewage disposal facilities). (Reference - 25 <i>Pa. Code</i> §71.21(a)(2)(ii)(C)).
	<u>N/A</u>		4.	An individual water supply survey to identify possible contamination by malfunctioning onlot sewage disposal systems consistent with DEP's <i>Act 537 Sewage Disposal Needs Identification</i> publication. (Reference – 25 <i>Pa. Code</i> §71.21(a)(2)(ii)(B)).

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	<u>N/A</u>		5.	Detailed description of O & M requirements of the municipality for individual and small volume community onlot systems, including the status of past and present compliance with these requirements and any other requirements relating to SMPs. (Reference - 25 <i>Pa. Code</i> §71.21(a)(2)(i)(C)).
	<u>N/A</u>	(me	entify wastewater sludge and septage generation, transport and disposal ethods. Include this information in the sewage facilities alternative analysis sluding:
	<u>N/A</u>		1.	Location of sources of wastewater sludge or septage (Septic tanks, holding tanks, wastewater treatment facilities). (Reference – 25 <i>Pa. Code</i> §71.71).
	<u>N/A</u>		2.	Quantities of the types of sludges or septage generated. (Reference - 25 <i>Pa. Code</i> §71.71).
	<u>N/A</u>		3.	Present disposal methods, locations, capacities and transportation methods. (Reference - 25 <i>Pa. Code</i> §71.71).
	Part 3	IV. F	uture	Growth and Land Development
			A. Ide ad	entify and briefly summarize all municipal and county planning documents opted pursuant to the Pennsylvania Municipalities Planning Code (Act 247) cluding:
	Part 3		1.	All land use plans and zoning maps that identify residential, commercial, industrial, agricultural, recreational and open space areas. (Reference - 25 <i>Pa. Code</i> §71.21(a)(3)(iv)).
	<u>N/A</u>		2.	Zoning or subdivision regulations that establish lot sizes predicated on sewage disposal methods. (Reference – 25 <i>Pa. Code</i> §71.21(a)(3)(iv)).
<u>!</u>	PlanN/A		3.	All limitations and plans related to floodplain and stormwater management and special protection (25 <i>Pa. Code</i> Chapter 93) areas. (Reference - 25 <i>Pa. Code</i> §71.21(a)(3)(iv)) Appendix B, Section II.F of the Planning Guide.
	Part 3	E	B. De	lineate and describe the following through map, text and analysis.
	Part 3		1.	Areas with existing development or plotted subdivisions. Include the name, location, description, total number of equivalent dwelling units (EDUs) in development, total number of EDUs currently developed and total number of EDUs remaining to be developed (include time schedule for EDUs remaining to be developed). (Reference - 25 <i>Pa. Code</i> §71.21(a)(3)(i)).
	Part 3		2.	Land use designations established under the Pennsylvania Municipalities Planning Code (35 P.S. 10101-11202), including residential, commercial and industrial areas. (Reference - 25 <i>Pa. Code</i> §71.21(a)(3)(ii)). Include a comparison of proposed land use as allowed by zoning and existing sewage facility planning. (Reference - 25 <i>Pa. Code</i> §71.21(a)(3)(iv)).
	Part 3		3.	Future growth areas with population and EDU projections for these areas using historical, current and future population figures and projections of the municipality. Discuss and evaluate discrepancies between local, county, state and federal projections as they relate to sewage facilities. (Reference - 25 <i>Pa. Code</i> §71.21(a)(1)(iv) and (a)(3)(iii)).
	Part 3		4.	Zoning, and/or subdivision regulations; local, county or regional comprehensive plans; and existing plans of any other agency relating to the development, use and protection of land and water resources with special attention to: (Reference - 25 <i>Pa. Code</i> §71.21(a)(3)(iv)).
				public ground/surface water suppliesrecreational water use areasgroundwater recharge areasindustrial water usewetlands

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	Part 3	 Sewage planning necessary to provide adequate wastewater treatment for 5 and 10-year future planning periods based on projected growth of existing and proposed wastewater collection and treatment facilities. (Reference - 25 Pa. Code §71.21(a)(3)(v)).
	Part 3	V. Identify Alternatives to Provide New or Improved Wastewater Disposal Facilities
		 A. Conventional collection, conveyance, treatment and discharge alternatives including:
	<u>N/A</u>	 The potential for regional wastewater treatment. (Reference - 25 Pa. Code §71.21(a)(4)).
	<u>N/A</u>	 The potential for extension of existing municipal or non-municipal sewage facilities to areas in need of new or improved sewage facilities. (Reference - 25 Pa. Code §71.21(a)(4)(i)).
	Part 3	 The potential for the continued use of existing municipal or non-municipal sewage facilities through one or more of the following: (Reference - 25 Pa. Code §71.21(a)(4)(ii)).
	Part 3	a. Repair. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(A)).
	Part 3	b. Upgrading. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(B)).
	Part 3	 c. Reduction of hydraulic or organic loading to existing facilities. (Reference - 25 Pa. Code §71.71).
	Part 3	d. Improved O & M. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(C)).
	Part 3	 e. Other applicable actions that will resolve or abate the identified problems. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(D)).
	Part 3	 Repair or replacement of existing collection and conveyance system components. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(A)).
	<u>N/A</u>	 The need for construction of new community sewage systems including sewer systems and/or treatment facilities. (Reference - 25 Pa. Code §71.21(a)(4)(iii)).
	<u>N/A</u>	 Use of innovative/alternative methods of collection/conveyance to serve needs areas using existing wastewater treatment facilities. (Reference - 25 Pa. Code §71.21(a)(4)(ii)(B)).
	<u>N/A</u>	 B. The use of individual sewage disposal systems including IRSIS systems based on:
	N/A	1. Soil and slope suitability. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).
	<u>N/A</u>	 Preliminary hydrogeologic evaluation. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).
	<u>N/A</u>	 The establishment of a SMP. (Reference - 25 Pa. Code §71.21(a)(4)(iv)). See also Part "F" below.
	<u>N/A</u>	 The repair, replacement or upgrading of existing malfunctioning systems in areas suitable for onlot disposal considering: (Reference - 25 Pa. Code §71.21(a)(4)).
	<u>N/A</u>	 Existing technology and sizing requirements of 25 Pa. Code Chapter 73. (Reference - 25 Pa. Code §73.31-§73.72).
	N/A	 b. Use of expanded absorption areas or alternating absorption areas. (Reference - 25 Pa. Code §73.16).
	<u>N/A</u>	c. Use of water conservation devices. (Reference - 25 Pa. Code §71.73(b)(2)(iii)).

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	<u>N/A</u>	C.	The use of small flow sewage treatment facilities or package treatment facilities to serve individual homes or clusters of homes with consideration of: (Reference - 25 <i>Pa. Code</i> §71.64(d)).
	<u>N/A</u>		1. Treatment and discharge requirements. (Reference - 25 Pa. Code §71.64(d)).
	N/A		2. Soil suitability. (Reference - 25 Pa. Code §71.64(c)(1)).
	<u>N/A</u>		3. Preliminary hydrogeologic evaluation. (Reference - 25 <i>Pa. Code</i> §71.64(c)(2)).
	<u>N/A</u>		4. Municipal, Local Agency or other controls over O & M requirements through a SMP. (Reference - 25 <i>Pa. Code</i> §71.64(d)). See Part "F" below.
	N/A	D.	The use of community land disposal alternatives including:
	N/A		1. Soil and site suitability. (Reference - 25 Pa. Code §71.21(a)(2)(ii)(C)).
	N/A		2. Preliminary hydrogeologic evaluation. (Reference - 25 <i>Pa. Code</i> §71.21(a)(2)(ii)(C)).
	<u>N/A</u>		3. Municipality, Local Agency or other controls over O & M requirements through a SMP. (Reference - 25 <i>Pa. Code</i> §71.21(a)(2)(ii)(C)). See Part "F" below.
	N/A		4. The rehabilitation or replacement of existing malfunctioning community land disposal systems. (See Part "V", B, 4, a, b, c above). See also Part "F" below.
	N/A	E.	The use of retaining tank alternatives on a temporary or permanent basis including: (Reference - 25 <i>Pa. Code</i> §71.21(a)(4)).
	<u>N/A</u>		1. Commercial, residential and industrial use. (Reference - 25 Pa. Code §71.63(e)).
	<u>N/A</u>		2 Designated conveyance facilities (pumper trucks). (Reference - 25 Pa. Code §71.63(b)(2)).
	<u>N/A</u>		3. Designated treatment facilities or disposal site. (Reference - 25 <i>Pa. Code</i> §71.63(b)(2)).
	<u>N/A</u>		4. Implementation of a retaining tank ordinance by the municipality. (Reference - 25 <i>Pa. Code</i> §71.63(c)(3)). See Part "F" below.
	<u>N/A</u>		5. Financial guarantees when retaining tanks are used as an interim sewage disposal measure. (Reference - 25 <i>Pa. Code</i> §71.63(c)(2)).
	<u>N/A</u>	F.	SMPs to assure the future O $\&$ M of existing and proposed sewage facilities through:
	<u>N/A</u>		1. Municipal ownership or control over the O & M of individual onlot sewage disposal systems, small flow treatment facilities, or other traditionally non-municipal treatment facilities. (Reference - 25 <i>Pa. Code</i> §71.21(a)(4)(iv)).
	<u>N/A</u>		2. Required inspection of sewage disposal systems on a schedule established by the municipality. (Reference - 25 <i>Pa. Code</i> §71.73(b)(1)).
	<u>N/A</u>		3. Required maintenance of sewage disposal systems including septic and aerobic treatment tanks and other system components on a schedule established by the municipality. (Reference - 25 <i>Pa. Code</i> §71.73(b)(2)).
	<u>N/A</u>		4. Repair, replacement or upgrading of malfunctioning onlot sewage systems. (Reference - 25 <i>Pa. Code</i> §71.21(a)(4)(iv) and §71.73(b)(5)) through:
	<u>N/A</u>		 Aggressive pro-active enforcement of ordinances that require O & M and prohibit malfunctioning systems. (Reference - 25 Pa. Code §71.73(b)(5)).
	<u>N/A</u>		 Public education programs to encourage proper O & M and repair of sewage disposal systems.
	N/A		5. Establishment of joint municipal SMPs. (Reference - 25 Pa. Code

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Checklist				§71.73(b)(8)).
	<u>N/A</u>		6.	Requirements for bonding, escrow accounts, management agencies or associations to assure O & M for non-municipal facilities. (Reference - 25 <i>Pa. Code</i> §71.71).
	<u>N/A</u>	G.	ass (Re	n-structural comprehensive planning alternatives that can be undertaken to sist in meeting existing and future sewage disposal needs including: eference - 25 <i>Pa. Code</i> §71.21(a)(4)). Modification of existing comprehensive plans involving:
	N/A			a. Land use designations. (Reference - 25 Pa. Code §71.21(a)(4)).
	N/A			b. Densities. (Reference - 25 <i>Pa. Code</i> §71.21(a)(4)).
	<u>N/A</u>			c. Municipal ordinances and regulations. (Reference - 25 Pa. Code §71.21(a)(4)).
	N/A			d. Improved enforcement. (Reference - 25 Pa. Code §71.21(a)(4)).
	<u>N/A</u>			e. Protection of drinking water sources. (Reference - 25 Pa. Code §71.21(a)(4)).
	<u>N/A</u>		2.	Consideration of a local comprehensive plan to assist in producing sound economic and consistent land development. (Reference - 25 <i>Pa. Code</i> §71.21(a)(4)).
	<u>N/A</u>		3.	Alternatives for creating or changing municipal subdivision regulations to assure long-term use of on-site sewage disposal that consider lot sizes and protection of replacement areas. (Reference - 25 <i>Pa. Code</i> §71.21(a)(4)).
	<u>N/A</u>		4.	Evaluation of existing local agency programs and the need for technical or administrative training. (Reference - 25 <i>Pa. Code</i> §71.21(a)(4)).
	Part 3	H.		no-action alternative which includes discussion of both short-term and g-term impacts on: (Reference - 25 <i>Pa. Code</i> §71.21(a)(4)).
	Part 3		1.	Water quality/public health. (Reference - 25 Pa. Code §71.21(a)(4)).
	Part 3		2.	Growth potential (residential, commercial, industrial). (Reference - 25 <i>Pa. Code</i> §71.21(a)(4)).
	Part 3		3.	Community economic conditions. (Reference - 25 Pa. Code §71.21(a)(4)).
	Part 3		4.	Recreational opportunities. (Reference - 25 Pa. Code §71.21(a)(4)).
	Part 3		5.	Drinking water sources. (Reference - 25 Pa. Code §71.21(a)(4)).
	Part 3		6.	Other environmental concerns. (Reference - 25 Pa. Code §71.21(a)(4)).
	Part 3		Te eva	ation of Alternatives chnically feasible alternatives identified in Section V of this checklist must be aluated for consistency with respect to the following: (Reference - 25 Pa. Code
	Part 3			1.21(a)(5)(i)). Applicable plans developed and approved under Sections 4 and 5 of the
				Clean Streams Law or Section 208 of the Clean Water Act (33 U.S.C.A. 1288). (Reference - 25 <i>Pa. Code</i> §71.21(a)(5)(i)(A)). Appendix B, Section II.A of the Planning Guide.
	Part 3		2.	Municipal wasteload management Corrective Action Plans or Annual Reports developed under 25 <i>Pa. Code</i> Chapter 94. (Reference - 25 <i>Pa. Code</i> §71.21(a)(5)(i)(B)). The municipality's recent Wasteload Management (25 <i>Pa. Code</i> Chapter 94) Reports should be examined to determine if the proposed alternative is consistent with the recommendations and findings of the report. Appendix B, Section II.B of the Planning Guide.
	Part 3		3.	Plans developed under Title II of the Clean Water Act (33 U.S.C.A.

the Planning Guide.

any avoidance and mitigation measures required. Appendix B, Section II.K of

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	Part 3		B.	Section stating of ide	e for the resolution of any inconsistencies in any of the points identified in NI.A. of this checklist by submitting a letter from the appropriate agency that the agency has received, reviewed and concurred with the resolution entified inconsistencies. (Reference - 25 <i>Pa. Code</i> §71.21(a)(5)(ii)). dix B of the Planning Guide.
	Part 3		C.	applica	tte alternatives identified in Section V of this checklist with respect to able water quality standards, effluent limitations or other technical, tive or legal requirements. (Reference - 25 <i>Pa. Code</i> §71.21(a)(5)(iii)).
	Part 3		D.	ongoin V of the needing	e cost estimates using present worth analysis for construction, financing, g administration, O & M and user fees for alternatives identified in Section his checklist. Estimates shall be limited to areas identified in the plan as g improved sewage facilities within 5 years from the date of plan ssion. (Reference - 25 <i>Pa. Code</i> §71.21(a)(5)(iv)).
	<u>N/A</u>		E.	alterna to dem cost-ef of fina areas	e an analysis of the funding methods available to finance the proposed tives evaluated in Section V of this checklist. Also provide documentation constrate which alternative and financing scheme combination is the most fective; and a contingency financial plan to be used if the preferred method noting cannot be implemented. The funding analysis shall be limited to identified in the plan as needing improved sewage facilities within 5 years are date of the plan submission. (Reference - 25 <i>Pa. Code</i> §71.21(a)(5)(v)).
	<u>N/A</u>		F.	propos	e the need for immediate or phased implementation of each alternative ed in Section V of this checklist including: (Reference - 25 <i>Pa. Code</i> (a)(5)(vi)).
	<u>N/A</u>			ha	description of any activities necessary to abate critical public health zards pending completion of sewage facilities or implementation of SMPs. eference - 25 <i>Pa. Code</i> §71.21(a)(5)(vi)(A)).
	<u>N/A</u>			fac	description of the advantages, if any, in phasing construction of the cilities or implementation of a SMP justifying time schedules for each ase. (Reference - 25 <i>Pa. Code</i> §71.21(a)(5)(vi)(B)).
	<u>N/A</u>		G.		te administrative organizations and legal authority necessary for plan nentation. (Reference - 25 <i>Pa. Code</i> §71.21(a)(5)(vi)(D)).
	<u>N/A</u>	VII.		Provid	e an analysis of all existing wastewater treatment authorities, their past and present performance including:
	<u>N/A</u>			1. Fir	nancial and debt status. (Reference - 25 Pa. Code §71.61(d)(2)).
	<u>N/A</u>				ailable staff and administrative resources. (Reference - 25 Pa. Code 1.61(d)(2))
	<u>N/A</u>			3. Ex	isting legal authority to:
	<u>N/A</u>			a.	Implement wastewater planning recommendations. (Reference - 25 Pa. Code §71.61(d)(2)).
	<u>N/A</u>			b.	Implement system-wide O & M activities. (Reference - 25 Pa. Code §71.61(d)(2)).
	<u>N/A</u>			C.	Set user fees and take purchasing actions. (Reference - 25 $Pa.\ Code$ §71.61(d)(2)).
	<u>N/A</u>			d.	Take enforcement actions against ordinance violators. (Reference - 25 <i>Pa. Code</i> §71.61(d)(2)).
	<u>N/A</u>			e.	Negotiate agreements with other parties. (Reference - 25 Pa. Code §71.61(d)(2)).

3850-FM-BCW0003 Checklist	6/2016		
	<u>N/A</u>	 Raise capital for construction and O & M of facilities. (Reference - 25 Code §71.61(d)(2)). 	Pa.
	<u>N/A</u>	B. Provide an analysis and description of the various institutional alternat necessary to implement the proposed technical alternatives including:	tives
	<u>N/A</u>	 Need for new municipal departments or municipal authorities. (Refere - 25 Pa. Code §71.61(d)(2)). 	ence
	<u>N/A</u>	 Functions of existing and proposed organizations (sewer authorities, of maintenance agencies, etc.). (Reference - 25 Pa. Code §71.61(d)(2)). 	onlot
	<u>N/A</u>	 Cost of administration, implementability, and the capability of authority/agency to react to future needs. (Reference - 25 Pa. C §71.61(d)(2)). 	
	<u>N/A</u>	C. Describe all necessary administrative and legal activities to be completed adopted to ensure the implementation of the recommended alternative including	
	<u>N/A</u>	 Incorporation of authorities or agencies. (Reference - 25 Pa. C §71.61(d)(2)). 	Code
	<u>N/A</u>	 Development of all required ordinances, regulations, standards and ir municipal agreements. (Reference - 25 Pa. Code §71.61(d)(2)). 	nter-
	Part 3	 Description of activities to provide rights-of-way, easements and transfers. (Reference - 25 Pa. Code §71.61(d)(2)). 	land
	<u>N/A</u>	 Adoption of other municipal sewage facilities plans. (Reference - 25 Code §71.61(d)(2)). 	Pa.
	<u>N/A</u>	5. Any other legal documents. (Reference - 25 Pa. Code §71.61(d)(2)).	
	Part 3	Dates or timeframes for items 1-5 above on the project's implementa schedule.	ation
	Part 3	D. Identify the proposed institutional alternative for implementing the chotechnical wastewater disposal alternative. Provide justification for choosing specific institutional alternative considering administrative issues, organization needs and enabling legal authority. (Reference - 25 Pa. Code §71.61(d)(2)).	the
	Part 3	II. Implementation Schedule and Justification for Selected Technical Institutional Alternatives	&
		A. Identify the technical wastewater disposal alternative which best meets wastewater treatment needs of each study area of the municipality. Justify choice by providing documentation which shows that it is the best alternation based on:	the
	Part 3	 Existing wastewater disposal needs. (Reference - 25 Pa. C §71.21(a)(6)). 	Code
	Part 3	 Future wastewater disposal needs. (5 and 10 year growth are (Reference - 25 Pa. Code §71.21(a)(6)). 	eas).
	Part 3	3. O & M considerations. (Reference - 25 Pa. Code §71.21(a)(6)).	
	Part 3	4. Cost-effectiveness. (Reference - 25 Pa. Code §71.21(a)(6)).	
	Part 3	 Available management and administrative systems. (Reference - 25 Code §71.21(a)(6)). 	Pa.
	Part 3	6. Available financing methods. (Reference - 25 Pa. Code §71.21(a)(6)).	
	Part 3	7. Environmental soundness and compliance with natural resource planning preservation programs. (Reference - 25 <i>Pa. Code</i> §71.21(a)(6)).	and

3850-FM-BCW0003 Checklist	6/2016		
	Part 3	se	esignate and describe the capital financing plan chosen to implement the elected alternative(s). Designate and describe the chosen back-up financing an. (Reference - 25 <i>Pa. Code</i> §71.21(a)(6))
	Part 3	al	esignate and describe the implementation schedule for the recommended ternative, including justification for any proposed phasing of construction or aplementation of a SMP. (Reference – 25 <i>Pa. Code</i> §71.31(d))
	<u>N/A</u>	IX. Enviro	nmental Report (ER) generated from the UER Process
	<u>N/A</u>	T th V	complete an ER as required by the UER process and as described in the DEP rechnical Guidance (381-5511-111). Include this document as "Appendix A" to the Act 537 Plan Update Revision. Note: An ER is required only for Wastewater projects proposing funding through any of the funding cources identified in the UER.

PENNVEST I.D. No.		

ADDITIONAL REQUIREMENTS FOR PENNVEST PROJECTS

Municipalities that propose to implement their official sewage facilities plan updates with PENNVEST funds must meet 6 additional requirements to be eligible for such funds. See *A Guide for Preparing Act 537 Update Revisions* (362-0300-003), Appendix N for greater detail or contact the DEP regional office serving your county listed in Appendix J of the same publication.

DED	lu dia at-		
DEP Use	Indicate Page #(s)		
Only	in Plan		Item Required
		1.	Environmental Impact Assessment. (Planning Phase)
			The UER replaces the Environmental Impact Assessment that was a previous requirement for PENNVEST projects.
		2.	Cost Effectiveness (Planning Phase)
			The cost-effectiveness analysis should be a present-worth (or equivalent uniform annual) cost evaluation of the principle alternatives using the interest rate that is published annually by the Water Resources Council. Normally, for PENNVEST projects the applicant should select the most cost-effective alternative based upon the above analysis. Once the alternative has been selected the user fee estimates should be developed based upon interest rates and loan terms of the selected funding method.
		3.	Second Opinion Project Review. (Design Phase)
		4.	Minority Business Enterprise/Women's Business Enterprise (Construction Phase)
		5.	Civil Rights. (Construction Phase)
		6.	Initiation of Operation/Performance Certification. (Post-construction Phase)

I/A TECHNOLOGIES

PARTIAL LISTING OF INNOVATIVE AND ALTERNATIVE TECHNOLOGIES

TREATMENT TECHNOLOGIES

Aquaculture
Aquifer Recharge
Biological Aerated Filters
Constructed Wetlands
Direct Reuse (NON-POTABLE)
Horticulture
Overland Flow
Rapid Infiltration
Silviculture
Microscreens
Controlled Release Lagoons
Swirl Concentrator

SLUDGE TREATMENT TECHNOLOGIES

Aerated Static Pile Composting Enclosed Mechanical Composting (In vessel) Revegetation of Disturbed Land Aerated Windrow Composting

ENERGY RECOVERY TECHNOLOGIES

Anaerobic Digestion with more than 90 percent Methane Recovery Cogeneration of Electricity Self-Sustaining Incineration

INDIVIDUAL & SYSTEM-WIDE COLLECTION TECHNOLOGIES

Cluster Systems
Septage Treatment
Small Diameter Gravity Sewers
Step Pressure Sewers
Vacuum Sewers
Variable Grade Sewers
Septic Tank Effluent Pump with
Pressure Sewers

Part 2 Plan Summary

Plan Summary

The primary purpose of this Act 537 Special Study is to obtain approval from the Pennsylvania Department of Environmental Protection (DEP) for the acquisition of the City of York's sewage facilities by PAWC. PAWC is a regulated public utility under the jurisdiction of the Pennsylvania Public Utility Commission (PUC).

Currently, the York City Sewer Authority (YCSA) is a lease back authority, which owns all the public sanitary sewage collection and conveyance facilities within the City of York municipal boundary, and the treatment facility located in Manchester Township. These facilities are leased to the City of York to operate and maintain. The Pennsylvania American Water Company (PAWC) is under agreement to purchase the City of York wastewater treatment plant and the City of York collection and conveyance systems. This Act 537 Special Study is being prepared for the Pennsylvania American Water Company (PAWC).

- The City of York service area includes the sanitary sewers, one pump station located within the City of York, and the wastewater treatment plant located within Manchester Township. The City of York Service area map is Drawing 1 of Appendix 1. Municipalities adjacent to the City convey and treat sanitary sewer at the City of York WWTP.
- This Act 537 Special Study has been developed for the sale of the City of York sanitary sewer system to PAWC. There are maintenance projects which are identified as Alternatives. These include the Prospect Street Interceptor Replacement Project and a series of operational improvement projects identified by a recent USEPA Administrative Order for Compliance on Consent (AOCC).

Municipal Adoption

The York Act 537 Special Study has been reviewed and adopted by the City of York and the connected municipalities. The executed resolution of adoption for each municipality can be found in Appendix
City of York adopted the Act 537 Plan Special Study on
North York Borough adopted the Act 537 Plan Special Study on
Manchester Township adopted the Act 537 Plan Special Study on
Spring Garden Township adopted the Act 537 Plan Special Study on
Springettsbury Township adopted the Act 537 Plan Special Study on
West Manchester Township adopted the Act 537 Plan Special Study on
West York Borough adopted the Act 537 Plan Special Study on
York Township adopted the Act 537 Plan Special Study on
The York County Planning Commission also reviewed and approved the Act 537 Plan Special Study on The letter of adoption can also be found in Appendix
Public Review
The Proof of Public Notice for a 30-day comment period was posted in the York newspaper on The Act 537 Plan Special Study was placed at for public review from to The proof of notice is located in Appendix 7.
Comments and Responses
During the review of the Act 537 Plan Special Study, reviewers forwarded comments for response. The

THIS ACT 537 PLAN SPECIAL STUDY IS CURRENTLY BEING REVIEWED BY EACH OF THE CONNECTED

MUNICIPALITIES AND BY THE PUBLIC. THE DOCUMENT WILL BE MODIFIED BASED ON THE

comments and their corresponding responses can be found in Appendix 7.

COMMNETS RECEIVED. AS THE PLAN IS ADOPTED THE SECTION ABOVE WILL BE COMPLETED.



Implementation Schedule

The following is the anticipated implementation schedule that identifies each current and future area of need.

Major Milestone	Date
Complete Plan for Agency Review and Public Notice	12/20/2021
60-Day Public Agency Review	2/28/2022
30-Day Public Comment Period (Comments Must be in Writing)	
York City Council adopts Resolution Approving Plan	3/23/2022
Submit Adopted Plan to DEP	3/25/2022
DEP Approves Plan (Assume 60 Days)	
PUC Approval of Acquisition	4/29/2022
Closing and Transfer of City of York Sewage Facilities to PAWC	4/29/2022
Bid Prospect Street Sewer Project	5/31/2022
Prospect Street Construction Notice to Proceed	



Part 3 General Plan Content

Executive Summary

Currently, the York City Sewer Authority (YCSA) is a lease back authority, which owns all of the sanitary sewage collection and conveyance facilities within the City of York municipal boundary, and the treatment facility located in Manchester Township. These facilities are leased to the City of York to operate and maintain. The Pennsylvania American Water Company (PAWC) is under agreement to purchase the City of York wastewater treatment plant and the City of York collection and conveyance systems. This special Study Act 537 is being prepared for the Pennsylvania American Water Company (PAWC).

The regional sanitary service area currently includes all or portions of the following eight municipalities:

- City of York
- Manchester Township
- North York Borough
- Spring Garden Township
- Springettsbury Township
- West Manchester Township
- West York Borough (Note, York Water Company owns the West York Borough collection system)
- York Township

Each municipality owns and operates its own sanitary sewer collection system which is connected to the YCSA system. The City of York maintains a contract with CSL Inc. to read and maintain flow meters which measure and record wastewater entering the YCSA system from the connected municipalities. The connected municipalities share the cost for flow metering service.

Act 537 Planning

The Pennsylvania Sewage Facilities Act (Act 537) was enacted in 1966 by Pennsylvania Legislature and requires that every municipality in the State develop and maintain an up-to-date sewage facilities plan. The plan should establish and predict current and future sewage disposal needs of the community, identify and evaluate alternatives available to meet those needs, and set forth a program to implement the recommended solutions.

The purposes of the Act 537 Sewage Facilities Plan as set forth by the Pennsylvania Department of Environmental Protection (PADEP) are:

- 1. Protect the health, safety, and welfare of the citizens living in the municipality by correcting malfunctioning on-lot septic systems, overloaded treatment plants or sewer lines, and wild cat sewers.
- 2. Prevent future sewage disposal problems.
- 3. Provide for the protection of both the groundwater and surface waters of the Commonwealth.

The Special Study Act 537 Plan contains eight sections. Each of the eight sections correspond with the individual sections of this report. The first four categories establish and predict the current and future disposal needs of the communities and are together called a Needs Analysis. The second four categories identify and evaluate alternatives for satisfying the needs of the municipality and, as a group, are called the Alternatives Analysis. A ninth section in the checklist for an Environmental Report (ER) generated for the Uniform Environmental Review (UER) Process is not needed since this project will be privately funded.

Wastewater Treatment Plant Assessment

The capacity of the wastewater treatment facility is permitted for 26 MGD. The plant currently can treat 18 MGD of sewage with biological nutrient removal (BNR) treatment processes. The 2020 average daily flow was 9.16 MGD, while the 10-year average daily flow is 10.78 MGD. The potential flow increase over the next 10 years is 1.81 MGD. The potential increase in flow at the WWTP is well within the WWTP plant's 18 MGD Biological Nutrient Removal (BNR) capacity. No capacity upgrades are expected within the next 10 years.



There are maintenance and operational improvements that are required to more efficiently treat both average day and peak wet weather flows.

Conveyance System Assessment

Regular conveyance system assessments have occurred since the 1999 Act 537 Plan. These Interceptor System Assessment studies were developed as a means to regularly assess the data from the 17 system wide flow meters and two rain gauges. The assessments used flow meter data in conjunction with hydraulic modeling and regional proposed growth information to evaluate the conveyance system capacity, prioritize inflow and infiltration (I/I) reduction efforts and develop recommendations for system improvements.

The Interceptor System Assessments have identified that the regional collection and conveyance system struggles with peak wet weather events. I/I reduction efforts through continued flow metering, CCTV inspections and facilities improvement projects have been continuing recommendations for the City of York and the connected municipalities.

The latest assessment, the 2016 Interceptor System Evaluation developed several additional recommendations for the collection and conveyance system. This included improvements to the Prospect Street Interceptor.

The Prospect Street Interceptor has limited capacity during wet weather events. The 10-year storm event flows cause pipe surcharging. Sewers along Prospect Street from manhole C27·1 to C27·10 have a low slope which is reducing the interceptor's capacity. Spring Garden expects some additional growth in this basin, and the Interceptor System Assessment recommended the 12-inch pipe be upsized to an 18-inch pipe to handle the 10-year design storm. This project is currently in design for a 2022 construction project.



Section 1 – Previous Wastewater Planning

The previous wastewater planning section identifies the wastewater planning studies and activities that have been undertaken since 1997 to evaluate the York City wastewater treatment, collection, and conveyance facilities. While the 1999 York City Sewer Authority Regional Act 537 Plan has been the key planning document, there have been a number of planning and system assessment documents for both the wastewater treatment plant facilities and the collection and conveyance facilities.

1999 York City Sewer Authority Regional Act 537 Plan

The 1999 Act 537 Plan was developed for a 20-year planning window and assessed treatment, collection and conveyance in a detailed manor. The plan outlined recommendations for the facilities to meet current and future capacity needs. The recommendations included:

- The treatment plant evaluation identified that sufficient capacity exists to meet the projected ultimate average daily needs of the service area under current effluent discharge limits.
- Upgrades to various treatment facilities including the raw sewage pumps and force main; disinfection for the Train 2 Clarifier Effluent peak flow diversion; upgrades to the sand filters and increased UV disinfections were recommended.
- Continued monitoring of the collection and conveyance system for I/I through the use of surcharge indicators and flow meters.
- I/I evaluation survey for service area
- Limited flow contributions from York Township to reduce future impacts to the Tyler Interceptor.

The plan was approved by the County and each of the connected municipalities. The York City Sewer Authority and the City of York have worked to implement each of the recommendations through plant and collection system improvements.

Wastewater Treatment Plant Planning

There have been several key plant upgrade projects. Each of these projects has been based on items identified in prior planning. The following studies were used to identify and provide guidance for a series of capital improvement projects from 1999 to 2021. These include the improvements to the raw sewage pumps, BNR Treatment for Trains 2 and 3, UV disinfection capacity improvements and upgrades to the final effluent filters.

The following assessments were used to assess and develop construction projects in 2010 to provide biological nutrient removal (BNR) for Treatment Train 2 and Train 3.

- 2005 Biological Nutrient Removal Desktop Study: The study identified process technologies that would efficiently remove nitrogen and phosphorus. The plan studied 8 different treatment technologies. The desktop models identified the Kruger Modified A²O system as the most efficient for the existing tankage and expected wastewater nutrient loadings.
- 2007 Improvements Evaluation: Reviewed the process changes that would be required at the York WWTP to implement the Kruger Modified A²O system in Trains 2 and 3. The 2010 WWTP improvement project was based on this evaluation.

Since the 2010 BNR upgrade project, the wastewater treatment planning has been limited to small reports needed for the replacement of equipment that was at the end of its design life. The most comprehensive planning document for this period was the capital improvements plan in 2020.

March 2020 Capital Improvements Planning, Funding, and Financing Report: This report prepared by Herbert, Rowland, & Grubic, Inc. (HRG) identified operations and maintenance projects at the WWTP. These projects were recommended to update aging equipment and make improvements to efficiently operate the treatment facility.

Collection and Conveyance System Planning

Prior to the 1999 Act 537 Plan, a variety of collection system planning studies were used to assess the collection and conveyance capacity and develop recommendations for improving conveyance capacity and reduction of inflow and infiltration. These studies are responsible for the following improvement projects:



- ✓ 1982 Interceptor Capacity Management Study led to the following projects:
 - 1987 Lower Tyler Run Interceptor Replacement
 - 1988 Lower Codorus Creek Interceptor Replacement Project
 - 1994 Upper Codorus Creek Interceptor Replacement
 - 1994 West York Interceptor Replacement
- 1995 Update of Interceptor Facilities Study of Pennsylvania Avenue Interceptor led to the 1997 upgrades to the Pennsylvania Avenue Interceptor.
- ✓ 1996 Roosevelt Avenue Sewer Study led to the 1997 Phase 1 replacement in the Route 30 area, and the 2001 Phase 2 replacement from Route 30 to Roosevelt Avenue.

The 1999 Act 537 Plan utilized computerized hydraulic flow modeling and area/velocity flow metering for assessing conveyance system capacities and inflow and infiltration impacts on the collection system. The combined metering and modeling initiative has led to several assessment and planning documents. The most influential documents have been the *Interceptor System Evaluation* reports.

The Interceptor System Evaluation started as an annual evaluation of flow metering data, municipal planning data, capacity assessments, I/I assessment, and I/I reduction efforts. The evaluations prepared by Buchart Horn provided the City of York and the connected municipalities with prioritized basins for I/I removal projects and updated flow information.

The following is a list of the *Interceptor System Evaluations* and the key projects that were implemented based on the recommendations from the evaluations.

- 1999 Interceptor System Evaluation. The evaluation report identified issues with the hydraulics at the confluence of the Codorus Creek and Poorhouse Run Interceptors.
 - 2012 Lower Poorhouse Run Interceptor and Siphon Replacement Project. The 2012 construction project eliminated these issues.
- 2000 Interceptor System Evaluation. The evaluation and site inspections identified pipe surcharging and recommended continued monitoring.
 - 2000 to 2014 Prospect Street Interceptor Monitoring Project.
- 2001 Interceptor System Evaluation. The evaluation report identified hydraulic capacity concerns in the Lower Poorhouse Run interceptor, the Poorhouse Run Siphon and at the confluence with the Arch Street Interceptor. The evaluation also identified capacity concerns during peak rainfall events in the Arch Street Interceptor.
 - 2008 Lower Arch Street Interceptor Replacement Project. A portion of the Lower Arch Street interceptor was replaced in a 2008 PennDOT project.
 - 2012 Lower Poorhouse Run Interceptor and Siphon Replacement Project Replaced the Lower Poorhouse Run Interceptor, the Poorhouse Run Siphon and the remaining portion of the Lower Arch Street Interceptor.
- 2002 Interceptor System Evaluation. The evaluation expanded the I/I assessment and capacity concerns during peak rainfall events to the upper and middle Arch Street Interceptors.
 - 2012 Upper Arch Street Interceptor Replacement Project.
 - 2014 Middle Arch Street Interceptor Replacement Project
- 2006 Interceptor System Evaluation. The evaluation carried forward and continued monitoring concerns regarding the capacity of the Codorus Creek and Poorhouse Run Interceptors. This evaluation led to the following tasks completed in 2018 and 2019.



- 2018 Codorus Creek and Poorhouse Run Inspection Project. A robotic inspection of the interceptors was completed using equipment that performed CCTV inspection, sonar and laser pipe profiling.
- 2019 Codorus Creek Interceptor Cleaning Project. The results of the 2018 inspections showed areas of sediment along the interceptor which were cleaned using high pressure cleaning system.
- 2014 Interceptor System Evaluation. The evaluation carried forward and continued monitoring concerns regarding the capacity of the Codorus Creek and Poorhouse Run Interceptors. CCTV and Robotic inspection was recommended for these large diameter interceptors. The replacement of the Prospect Street Interceptor was recommended.
 - 2018 Codorus Creek and Poorhouse Run Inspection Project
 - 2019 Codorus Creek Interceptor Cleaning Project
 - 2020 Prospect Street Interceptor Replacement Project
- 2016 Interceptor System Evaluation This evaluation was an update to the 2014 evaluation in relation to PADEP concerns regarding the capacities of the Codorus Creek and Tyler Run Interceptors.
 - Additional long term flow meters were installed on both interceptors for continued monitoring of capacity concerns.

For all recommendations identified and in previous planning documents, the City of York and the York City Sewer Authority have made the effort to continue monitoring and develop designs for upgrading or replacing capacity deficiencies or failing facilities. These projects were designed to address not only current issues but also to meet future capacity requirements.

Planning Module Revisions

Department of Environmental Protection sewer planning modules and module exemptions for the York City Wastewater Treatment Plant are submitted to the City of York Bureau of Planning and Engineering for review. The City reviews the modules and module exemptions for wastewater treatment capacity and conveyance capacity for a five-year planning horizon to comply with the Pennsylvania Sewage Facilities Act. Collection capacity is reviewed by the municipality within which the proposed subdivision or land development is proposed. Over the past three years the York City service area has averaged twenty-six sewer modules or sewer module exemptions per year.



Section 2 - Physical and Demographic Analysis

Municipal Boundaries and Management Area

The City of York Base Map, Drawing 1, shows the municipal boundaries for the City of York and the surrounding municipalities. The City of York, which occupies an area of approximately 5.4 square miles, is located in the central portion of York County. Surrounding the City of York, clockwise from the north, are the following municipalities: North York Borough, Spring Garden Township, Springettsbury Township, York Township, West Manchester Township, West York Borough, and Manchester Township.

The York City Sewer Authority owns the 26 MGD York City WWTP, and the Authority leases the WWTP to the City of York to operate. This wastewater treatment plant serves the City of York and all or portions of the following surrounding municipalities: North York Borough, Spring Garden Township, Springettsbury Township, York Township, West Manchester Township, West York Borough and Manchester Township.

Topography and Physiography

The City of York is located within the Conestoga Valley Section and Piedmont Uplands Section of the Appalachian Mountain Piedmont Physiographic Province (Lloyd and Growitz, 1972). Topography within York City is typically highest at the southeast end of the city boundary (near Spring Garden Memorial Park) and the northwest portion of the city (near York City Business and Industrial Park area). A localized topographic high is situated around Farquar Park. The topography slopes off towards the middle of the City towards Codorus Creek, with its lowest point at approximately 355 feet above mean sea level. The Codorus Creek bisects York City, flowing from south to north.

Soils

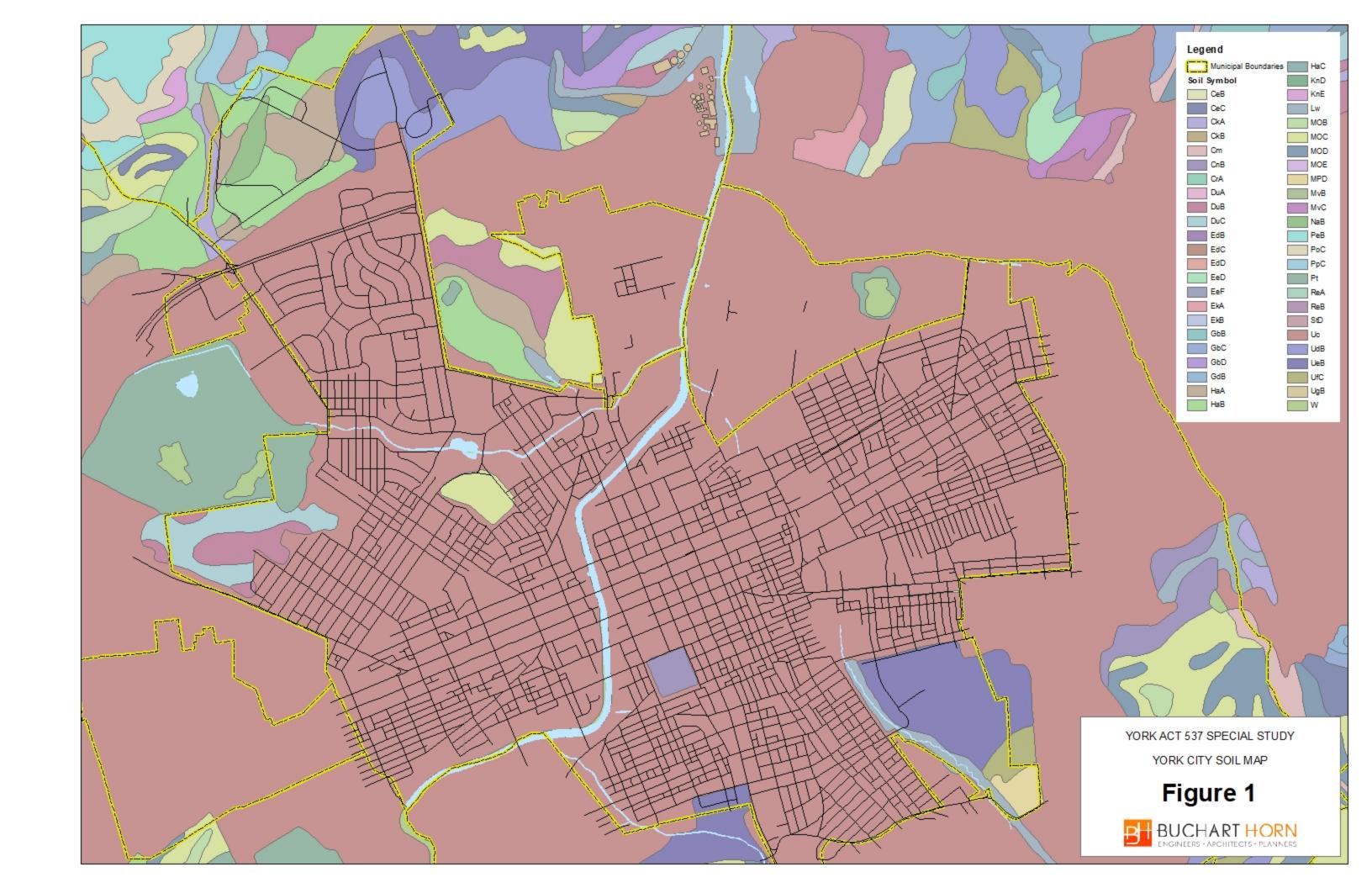
Soils are of importance in the sewage facility planning area, with zoning and ordinances that allow on lot sewage disposal. As previously mentioned, the City of York's ordinances do not allow on lot systems. However, soil descriptions were included for future use.

The majority of York City is underlain by urban soils (map symbol Uc) or mixtures of native soils with urban soils. Other soil types have been mapped in and around the study area. Figure 1 shows the soils mapped by the York County Soil Conservation District. The remaining soil types include the following:

Table 2-1, Soil Formations

Map Symbol	Soil Name	Location
СеВ	Chester silt loam	North of Wastewater Treatment Plant
CkA	Clarksburg silt loam	North of Route 30; East of Codorus Creek at Wastewater Treatment Plant
CnB	Conestoga silt loam	Penn Park
DuB, DuC	Duffield silt loam	West of Texas Avenue and north of Carlisle Avenue; North of Willis Road and east of Pennsylvania Avenue
НаА, НаВ	Hagerstown silt loam	North of Route 30; North of Willis Road and east of Pennsylvania Avenue
KnE	Klinesville channery silt loam	North of Route 30
Lw	Lindside silt loam	Along unnamed tributary in Southeastern York City; Along Codorus Creek; North of Willis Road and west of Beaver Street
MOC, MOD	Mt. Airy and Manor Soils	Farquhar Park; North of Willis Road and east of Pennsylvania Avenue North of Route 30





Map Symbol	Soil Name	Location
MPD	Mt. Airy and Manor Soils, very stony	Southeastern York City
NaB	Neshaminy channery silt loam	North of Route 30
PeB	Penn silt loam	North of Route 30
Pt	Pits and Quarries	West of Texas Avenue and north of Carlisle Avenue; North of Willis Road and east of Pennsylvania Avenue; West of Sherman Street
StD	Steinsburg channery sand loam	North of Route 30-
UdB	Urban Land – Chester Complex	North of Route 30
UeB	Urban Land – Conestoga Complex	Southeastern York City; South of Springettsbury Avenue; North of Route 30
UfC	Urban Land- Mt. Airy Complex	Southeastern York City

Table based on United States Department of Agriculture, 1995, Soil Survey of York County

Soil descriptions have also been obtained from the York County Soil Conservation District. The soil series are described below.

Table 2-2, Soil Descriptions and Location

Soil Series	Location
Chester	Chester soils are very deep and very well-drained. The subsoil ranges from a silt loam to a silty clay loam. Beneath the subsoil is a silty clay loam and loam.
Clarksburg	Clarksburg soils are very deep and moderately well-drained. They are commonly found on uplands. The subsoil is a silt loam to silty clay loam. Mottling can be found as shallow as 28 inches below grade. The substratum is typically a gravelly silty clay loam, also mottled
Conestoga	Conestoga soils are deep and well-drained and found on uplands. The subsoil is a silt loam to silty clay loan, underlain by a loam to channery loam. Bedrock is commonly found at 5 feet below grade.
Duffield	Soils classified as Duffield soils are very deep to deep. They are well-drained and found on uplands. The subsoil is a silty clay loam, underlain by a shaly silt loam.
Hagerstown	These soils are deep and well-drained. They are usually located on uplands. A clay to silty clay extends from the plow layer to bedrock. The bedrock is typically a limestone so sinkholes can be present.
Klinesville	Klinesville soils are shallow. They can usually be found on uplands. The subsoil is a very shaly silt loam. The average depth to bedrock is 19 inches.
Lindside	Lindside soils are deep and moderately well-drained. These soils are found on flood plains. Mottling is present. The surface layer is a silt loam and the -subsoil is a silt loam to silty clay loam.
Manor	These soils are very deep and well-drained to somewhat excessively-drained soils. They are located on uplands. Both the subsoil and substratum are a loam.



Soil Series	Location
Mt.Airy	Mt. Airy soils are moderately deep and somewhat excessively drained. They can be located on uplands. The subsoil is a very channery silt loam. The substratum consists mainly of schist fragments.
Neshaminy	The soils classified as Neshaminy soils are deep and very deep, well-drained soils They are also located on uplands. The subsoil ranges from a clay loam to a sand clay loam. Bedrock is typically 4 Y2 feet below grade.
Penn	Penn series are moderately deep and well drained soils, commonly found on uplands. The soil is a shaly silt loam in both the subsoil and the substratum.
Pits and Quarries	Pits and quarries are areas in which the soil cover has been removed.
Steinsburg	These soils are moderately deep and well-drained soil. They are typically present on uplands. The subsoil is a sandy loam, becoming a gravelly sandy loam in the substratum. Bedrock can be found at 30 inches below ground surface.
Urban Land	Soils classified as urban land are those soils in which the soil has been reworked so that its original characteristics can no longer be determined. It also includes those areas covered by man-made structures (i.e. streets, buildings, parking lots).

Table based on United States Department of Agriculture, 1995, Soil Survey of York County

Geology

The geology of the planning region is of importance to sewage facilities planning in that it provides an idea of geological formations to be encountered when designing and constructing sewage facilities. Drawing 6 in Appendix 1 is a geological map of the City of York.

The bedrock underlying York City is comprised mostly of carbonate materials deposited during the Cambrian and Ordovician periods. The bedrock has since been folded and faulted through various tectonic processes. The City is bordered to the south by the Stoner Overthrust. The Gnatstown Overthrust bisects York from northeast to southwest.

Carbonate rocks (i.e., limestones and dolomites) can be dissolved through the groundwater interacting with the calcium carbonate. Where the bedrock has been dissolved, features such as bedrock pinnacles, sinkholes, and solution channels may form.

The bedrock has been classified into the following formations. The descriptions have been obtained directly from Plate 1, Environmental Geology of the Greater York Area, York County, Pennsylvania.

Table 2-3, Geological Formations and Descriptions

Formation (youngest to oldest)	Description
Conestoga Formation	Gray, thin- to medium-bedded, impure limestone, sandy and granular; thin shale partings; limestone conglomerate at base.
Ledger Dolomite	Light-gray to pink, coarsely crystalline, thick-bedded, pure dolomite with a chert horizon, near the top; where it is well exposed, the Ledger is brittle and highly fractures. The thickness is estimated to be about 1000 feet.
Kinzers Formation (divided into the Earth Buf	f Limestone Member, Pure Limestone Member, and Shale Member)
Earth Buff Limestone Member	Gray-brown to tan, sandy, porous, leached limestone containing dark, argillaceous and shaly interbeds.
Pure Limestone Member-	Dark-gray to blue-gray crystalline limestone of variable composition, some of which is pure high-calcium rock. Altered to white marble in places and can be dolomitic elsewhere. Weathers light gray.



Formation (youngest to oldest)	Description	
Shale Member	Dark-gray, buff-weathering, iron-stained, fissile shale. The thickness of the formation averages about 200 feet.	
Vintage Formation	Blue-gray knotty dolomite, dark-gray fine-grained interbedded dolomite and limestone, massive gray dolomite, and some light-gray laminated marble. Its [thickness] averages about 500 feet thick.	

Wilshusen, J.P., 1979, Environmental Geology of the Greater York Area, York County

Groundwater

As mentioned above, York City is mostly underlain by carbonate rocks. In general, groundwater flow direction mimics topography and will flow downhill. However, fractures in the carbonate bedrock may have been widened through groundwater migrating through it. The groundwater interacts with the carbonate material and dissolves the carbonates. Where fractures have been widened, the groundwater may flow preferentially through these solution channels because the openings present a path of lesser resistance. The solution channels will not necessarily be aligned "downhill," but may direct the groundwater flow in unexpected directions.

Groundwater flow is typically very slow and diffuses. Solution channels in carbonate rocks may be wide enough or large enough so that groundwater may flow quickly. The rapid rates may allow contaminants within the subsurface to migrate quickly (thereby reducing dilution) and for relatively large distances.

Lloyd and Growitz summarized the general groundwater parameters in the area. They are summarized below.

Table 2-4, Geological Impact on Ground Water

Formation	Median pH	Median hardness (mg/1)	Water type	Median Specific Conductivity (micro-ohms)	Median Nitrate (mg/1)
Conestoga	7.0	220	Calcium bicarbonate	550	33
Ledger	7.2	270	Calcium bicarbonate	625	5.4
Kinzers- limestone	7.2	200	Calcium bicarbonate	525	17
Kinzers- shales	6.6	120	Calcium bicarbonate	330	16 (1 sample)
Vintage Formation	7.2	190	Calcium bicarbonate	410	17

Uoyd, O.B., Jr., and D.J. Growitz, 1977, Ground-Water Resources of Central and Southern York County, Pennsylvania, Pennsylvania

Geologic Survey Water Resource Report 42. 93 p.

In the York City area, groundwater pH values typically average 7.0. The groundwater commonly has a hardness ranging from 120 mg/l to 220 mg/l, and are calcium bicarbonate water types. The median specific conductivity values in the area ranges from 330 mg/l: in shales to 625 mg/l in the Ledgers, with an average of 490 mg/l. The nitrates are relatively high and may show skewing due to agricultural activities adjacent to York City.

Potable Water Supplies

The entire sanitary sewer service area for the City of York is served with public water by The York Water Company. The York Water Company is an investor-owned, public utility.

Wetlands

The National Wetland Inventory Mapping of the York and West York Quadrangles indicates that the wetlands within the City of York and near existing sewage facilities are limited to existing water bodies such as the Codorus Creek, Willis Run, Tyler Run, and a portion of Poor House Run. These wetlands are classified as riverine, permanent open water, for the first three listed above, and palustrine emergent, temporary for the last listed above. Neither the wastewater treatment plant, nor any of the collection or conveyance system, pose an existing or future threat to these wetlands. However, any future sewage facility design would include delineation of potential wetlands in



those areas impacted by the sewage facility. Figure 2 identifies the regional wetlands from the national wetland inventory (NWI) mapping.

Section 3 – Existing Sewage Facilities

York City Wastewater Treatment Plant

The York City WWTP is permitted to discharge 26 million gallons per day (MGD) of effluent into the Codorus Creek by NPDES Permit PA 0026263. This permit was most recently renewed on September 1, 2017 and is valid until August 31, 2022. The permit limits require advanced treatment of wastewater, which is achieved through physical and biological processes.

The plant is located on approximately 31 acres of land adjacent to Toronita Street in Manchester Township, York County. From 1978 to 1981, the plant was expanded to provide the current capacity of 26 MGD and upgraded to provide chemical removal of phosphorus. This expansion project included construction of an 8 MGD pure oxygen treatment system now designated as Train 1. A new effluent discharge, outfall 002, with an aerating cascade was also installed during this expansion project. Outfall 002 is now the primary point of discharge.

In 1987 to 1991, the plant was upgraded to provide nitrification, biological removal of phosphorus, and a higher level of removal of BOD. The upgrade consisted of two projects. The first project included construction of a new treatment system, Train 3. The second project included the conversion of an existing contact-stabilization treatment system, Train 2, to an anaerobic/oxic activated sludge system. The second project also included the construction of a sand filtration system and replacement of chlorine disinfection with an ultraviolet disinfection system.

Plant upgrades and improvements from 1999 to 2021 included updates to Trains 2 & 3 for Biological Nutrient Reduction (BNR). The plant BNR capacity was set at 18 MGD. Centrifuges were added to provide improved sludge dewatering. Train 1 was removed from service. Updates were made to the primary clarifications, raw sewage pumping, effluent filtration, and UV disinfection.

Table 3·1, NPDES Permit Effluent Limits, provides a summary of the current monthly effluent average concentration limits from the NPDES permit. The NPDES Permit can be found in Appendix 2. The 2020 Chapter 94 can be found in Appendix 3.

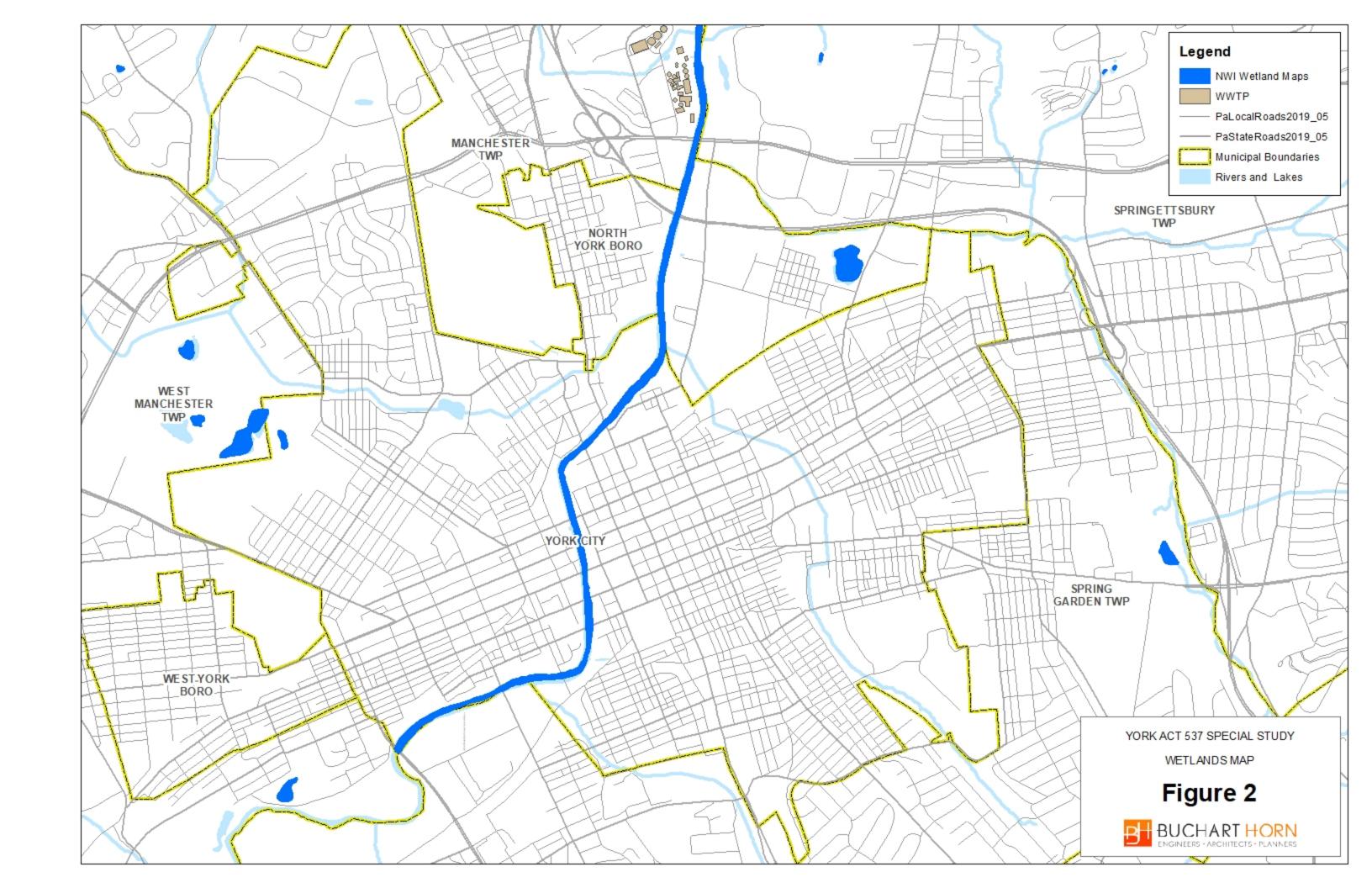
Table 3-1, 2017 NPDES Permit Effluent Limits

Parameter	Discharge Limitations
pH	6 to 9 standard units at all times
Dissolved Oxygen	5 mg/l minimum at all times
Total Suspended Solids	30 mg/l maximum monthly average
5-day CBOD (May-October)	13 mg/l maximum monthly average
5-day CBOD (November-April)	20 mg/l maximum monthly average
NH3-N (May-October)	1.7 mg/l maximum monthly average
NH3-N (November- April)	2.1 mg/l maximum monthly average
Phosphorus	2.0 mg/l maximum monthly average
Fecal Coliform (May-September)	200/100 ml maximum monthly average
Fecal Coliform (October- April)	2000/100 ml maximum monthly average

Preliminary Treatment Units

The headworks structure receives the flow of wastewater from the 72-inch diameter Codorus Creek Interceptor. The headworks was updated under the Phase II BNR upgrade project and placed into operation in 2012. The structure includes two mechanical bar screens, two pista grit removal systems and a parshall flume with a flow meter.





The automatic bar screens have 1/4 inch openings which effectively remove debris from the influent. The screenings collected are raked and conveyed to a compactor which dewaters and transfers them to a dumpster. The grit removal system consists of two vortex type grit chambers. Collected grit is pumped from the chamber, dewatered across a screen, and deposited into a dumpster. The screenings and grit are trucked to a landfill for disposal. The preliminary treated flow is metered through a parshall flume.

An influent channel conveys flow from the headworks to the primary effluent pump station.

Primary Treatment Units

The Primary Treatment Units consist of eight rectangular clarifiers, only five of which are in service. All of the internal equipment, scrapers, sludge removal and scum removal were replaced in 2020. Access to the sludge piping is available through a pipe gallery tunnel constructed between the clarifiers. The scum from the clarifiers is collected in two scum boxes from which it is pumped to gravity thickeners or digesters. Effluent from the primary clarifiers flows by gravity to Train 2 or is pumped to Train 3 via the Primary Effluent Pump Station. Primary sludge can be pumped to thickeners or directly to digesters.

Train 1 Treatment System (Not currently in use)

Train 1 is a pure oxygen activated sludge wastewater treatment system designed by Air Products Corporation for an average daily flow of 8 MGD. Train 1 includes two oxygen reactors and two clarifiers. This treatment system was designed to efficiently reduce BOD and suspended solids, but the system was not designed for nitrification nor biological phosphorus removal. Ferrous sulfate can be added to the system to provide chemical phosphorus removal and to assist with solids settlement. Nitrification can be achieved, but only at a much reduced flow rate of 18 MGD. Train 1 was originally equipped with an oxygen generation system, but this system has not been utilized for eight years and has been determined to be inoperable. In the absence of an oxygen generator, Train 1 can be operated using purchased oxygen but storage is limited.

The flow of effluent from the oxygen reactor passes into a pair of 90 foot diameter clarifiers. The clarifier effluent continues by gravity to the post treatment units. Waste sludge is pumped from the clarifiers to the floatation thickeners. Train 1 is set up to receive only pumped preliminary treated wastewater, and there is currently no means to pump primary treated wastewater to this treatment system.

Train 1 has not been used since 2010. Train 1 is held in reserve at this time and is not capable of operation without major upgrades.

Train 2 and 3 Treatment System

Trains 2 and 3 are Kruger Inc. A2O processes, capable of biological phosphorous removal and ammonia conversion to nitrates and then nitrogen gas. Primary effluent not pumped to Train 3 flows by gravity through Train 2 that has two rectangular A2O tanks and three circular clarifiers. The A2O process utilized in Train 2 provides secondary treatment along with biological phosphorous removal and ammonia conversion to nitrates and then nitrogen gas for up to 6.0 MGD of primary clarifier effluent. This treated wastewater is mixed with return activated sludge withdrawn from the final secondary clarifiers in Train 2. The mixture then flows first through the anaerobic zone and then to the anoxic zone before entering the oxic zone of the process. After the oxic zone, the mixed liquor flows to the secondary clarifiers and then to the effluent filters.

Train 3 receives its flow from the raw sewage lift pumps or primary effluent pumps. It consists of three rectangular A2O tanks and three circular secondary clarifiers. The A2O process utilized in Train 3 provides secondary treatment along with biological phosphorous and ammonia nitrogen conversion to nitrates and eventually to nitrogen gas for up to 12 MGD of primary treatment or raw sewage. After leaving the A2O tanks, the mixture of treated wastewater and activated sludge flows to the clarifier distribution box where it is distributed to the three final clarifiers for solid/liquid separation. The solids are either returned, the same as Train 2, or wasted to T-20 storage tank to be thickened prior to the primary digesters.

Filtration System

The effluents from Trains 2 and 3 combine and pass through the Aqua Diamond cloth filter system manufactured by Aqua Aerobics (which replaced the original sand filtration system in 2021). The filters were designed to insure compliance with CBOD limit of 10 mg/l and a total suspended solids limit of 10 mg/l. The filters have generally



provided effluent with pollutant concentrations of less than 5 mg/l. A filter building houses four automatic backwash Aqua Diamond cloth filters. The filters were designed for an average daily flow of 26 MGD and a peak flow of 54 MGD.

Disinfection and Finished Water Aeration Systems

The York plant is equipped with disinfection and aeration systems designed to condition the biologically treated and filtered effluent. A greenhouse style building encloses an ultraviolet light (UV) disinfection system. The UV system includes controls, lamp ballasts, and three channels each containing two banks of horizontally mounted ultraviolet lights (total of 1,728 UV lights). The system was designed for a peak flow of 55.5 MGD, and has been very effective in meeting the fecal coliform limits. A multi-step cascade aerates the disinfected effluent prior to discharge into the Codorus Creek raising the dissolved oxygen concentration of the effluent above the minimum requirement of 5.0 mg/L.

Solids Processing and Disposal

The York plant is provided with processing equipment to thicken, stabilize, and dewater sewage sludges to generate a cake-like material meeting land application criteria (biosolids). All materials removed from the five primary clarifiers and any waste activated sludge is pumped to T-20 storage tank. From there, the waste activated sludge is thickened with Gravity Belt Thickeners (two total). The thickened sludge is then pumped to the anaerobic digesters for stabilization. The digestion process uses biological decomposition to stabilize organic materials. The digester gas produced as a byproduct of digestion contains approximately 60% methane and is utilized as a fuel source for three 200kW microturbines. These units drive electrical generators that provide a portion of the power for the treatment processes. Heat recovered from the exhaust gases is used to heat the anaerobic sludge digesters and several buildings. Biosolids are removed from the plant by a contractor and utilized as a soil conditioner and fertilizer.

Anaerobic digestion provides the stabilization needed to meet land application standards for the biosolids produced at the plant.

Sludge Thickeners

The plant is equipped with two gravity thickeners and a gravity belt thickener system. The gravity thickeners are 45 feet in diameter and have a 12 foot side wall water depth. The units are seldom used because of odors associated with their operation. If necessary, these units can be used to condense primary treatment sludge.

Digesters

The plant is equipped with three anaerobic digesters. The digesters are 90 feet in diameter and are provided with complete mix systems. The City currently operates two digesters in primary mode and one as storage. Based on PADEP standards, sludge characteristics, and historical generation rates, the digesters have capacity to match an average plant flow of 21 MGD. Conversion of the third digester to primary mode would increase capacity to match a plant flow of 31 MGD. Such a conversion would require modification of the heating system. Use of the existing lime addition system also provides an alternative or a supplement to digestion to increase processing capacity.

Dewatering Units

The plant is equipped with two centrifuges capable of dewatering biosolids prior to disposal. A polymer mixing and feed system is used to condition the digested sludge to improve the removal of water from the solids. The biosolids cake produced generally has a solids concentration of 16 to 19%. The biosolids are disposed of by a subcontractor who hauls for land application or taken to a landfill.

Hydraulic Considerations

The existing plant design allows for a peak flow of 54 MGD. The process capacity evaluation, Appendix 2, includes an assessment of the hydraulic and treatment capacity of the biological treatment units, pumps, effluent filters, and ultraviolet disinfection channels to process a peak flow of 54 MGD. Due to high levels of I/I in the collection and conveyance system, flows at the WWTP can exceed 54 MGD during peak wet weather events.

When influent flows reach 53 MGD, the plant uses the Train 2 effluent diversion to Outfall 001. Outfall 001 is a stormwater outfall which is also permitted for the discharge of disinfected effluent from the Train 2 Final Clarifiers.



Several discharges from Outfall 001 of diverted effluent that occurred prior to influent flows reaching 53 MGD has led to corrective action from the USEPA.

USEPA Corrective Action

The USEPA, the City of York, the York City Sewer Authority and PAWC have entered into an Administrative Order for Compliance on Consent (AOCC). The AOCC has outlined 10 projects for improving the WWTP's operations in order to reduce the potential for peak flow effluent diversion discharges. These projects are intended to improve maintenance tracking, supervisory control and data acquisition (SCADA) hardware and software, operation and monitoring of Outfall 001, improved chlorination/dechlorination of Outfall 001, and the operations and treatment of Train 2 to reduce the volume of flow and pollutants being discharged during future peak flow diversion events. The USEPA AOCC can be found in Appendix 4.

The YCSA and the City of York have over the past 10 years performed a variety of system upgrades as identified above. However, the YCSA WWTP has treatment facilities that are aging and have led to operational constraints. The AOCC is designed to address the most pressing of these operations and maintenance needs.

Pump Stations

There is only one pump station within the City of York municipal boundary. This pump station serves the northeastern portion of the York City Industrial Park.

This duplex pump station was installed in 1979. The pump station consists of two 7.5 horsepower centrifugal pumps designed to operate as a single pump and standby pump. The pump station is capable of pumping 310 GPM at a Total Dynamic Head of 40 feet.

There is a backup power generator and a telemetry system. The generator and telemetry are maintained and tested on a weekly basis.

Conveyance Facilities

The York sewer system consists of approximately 548,193 linear feet of sewer piping within the City of York boundary. This is equivalent to approximately 104 miles of pipe. Table $3\cdot2$ lists the approximate lengths of each pipe diameter in the City of York sewer system.

Table 3-2, City of York Sewer System Approximate Lengths by Diameter

Sewer Pipe Diameter (in.)	Total Length (ft)
6	2,010.45
8	409,340.01
10	34,046.45
12	22,443.75
14	207.00
15	14,770.66
16	1,451.10
18	9,591.03
20	908.37
21	3,156.44
22	914.22
24	10,542.36
27	4,953.21
30	8,776.00
36	7,577.35
42	4,264.66
48	6,143.85



Sewer Pipe Diameter (in.)	Total Length (ft)	
54	1,877.90	
60	44.00	
72	5,174.19	
Total	548,183.00	

The conveyance system is subdivided into major basins. The major basins provide manageable sub sets for continued assessment, to manage O&M tasks and for I/I reduction tasks. The major basins are named and defined by the interceptor that serves the basin. The locations of each of the system interceptors are shown on Drawing 3, Appendix 1. Table 3-3 identifies the total length of collector and conveyance sewers in each basin.

Table 3-3, City of York Sewer System Approximate Lengths by Major Basin

Sewer Pipe Major Basin	Total Length (ft)	
Arch Street	70,397	
Codorus	47,032	
Gas Ave	48,308	
Pennsylvania Ave	22,718	
Poorhouse	154,200	
Tyler Run	68,415	
Upper	38,806	
Willis Run	93,855	
Other Sewers	1,834	
Total	545,565	

The collection system pipes are manufactured from a variety of materials. Pipe replacement projects over the past 25 years have utilized PVC and Polyethylene (Sanitite) pipe. However, the vast majority of the pipe within the City of York's collection system is vitrified clay pipe (VCP). Table 3-4 identifies the total lengths by material type. Some of the older large diameter interceptors are constructed of brick. The manholes are constructed of either brick, or precast concrete with cast, or ductile iron frames and covers.

Table 3-4, City of York Sewer System Approximate Lengths by Pipe Material

Sewer Pipe Material	Total Length (ft)
Unknown	11,069
ABS Truss	4,804
Ductile Iron Pipe	2,651
PVC	31,514
Reinforced Concrete Pipe	31,885
Sant (Sanitite)	626
SCH 40 PVC	1,666
VCP (Vitrified Clay Pipe)	459,428
Total	543,643

The majority of the City of York's collection system was constructed between 1920 and 1960. Table 3-5 identifies the length of pipe by year installed. This reflects the ages of the pipes in use in the current collection and conveyance system. Sewers in the downtown area to the east of the Codorus Creek were installed from 1900 to



1930. Much of the early system was combined storm and sanitary sewers. Sewer separation projects have removed the storm sewers from the sanitary sewers. The pipes shown with installation dates after 1980 include the replacements of the conveyance pipes. All of the interceptors for each of the major basins have been improved or replaced except for the Poorhouse Run Interceptor.

Table 3-5, City of York Sewer System Approximate Lengths by Construction Date

Sewer Pipe Construction Date	Total Length (ft)
1900 – 1909	807
1910 – 1919	3,933
1920 – 1929	64,749
1930 – 1939	83,033
1940 – 1949	238,643
1950 – 1959	70,035
1960 – 1969	7,064
1970 – 1979	1,043
1980 – 1989	49,887
1990 – 1999	11,838
2000 – 2009	8,488
2010 – 2019	3,988
2020 – 2021	2,057
Total	545,342

Operations and Maintenance

The City of York is currently staffed for maintaining the sanitary sewers within the city. The maintenance staff addresses flow blockages on an as needed basis, and performs regular maintenance tasks such as hydro cleaning sewers, tree root removal, video inspections of sewers, and raising manholes.

The sewer maintenance staff has been using a drainage basin approach to manage maintenance tasks. The staff has been cleaning and videotaping various drainage basins throughout the city. By targeting drainage basins with suspected or historical problems first, the staff is attempting to provide a higher degree of preventive maintenance to the collection and conveyance system than in past years.

Infiltration and Inflow

A series of 17 flow area velocity flow meters and 2 rain gauges are used to monitor the collection and conveyance system. These meters provide data for municipal billing and infiltration and inflow (I/I) assessment for the City of York sanitary sewer system.

Peaking factors are often used as a quick identification of impact of inflow during a storm event. Table 3-6 provides the average flow prior to the August 7, 2020 storm event, the peak flow during the event, and the peaking factor (peak flow divided by the average flow). The August 7, 2020 storm had a precipitation frequency of 100 years.

Table 3-6, Summary of Flow Metering Results from Major Rain Event on August 7, 2020

Flow Meter	Municipality	Average Flow (MGD)	Max Flow (MGD)	Peaking Factor
LTM01	City of York, West Manchester Township, Manchester Township, North York Borough	3.58	10.52	2.94



Flow Meter	Municipality	Average Flow (MGD)	Max Flow (MGD)	Peaking Factor
LTM02	City of York, West York Borough, West Manchester Township, York Township, & Spring Garden Township	5.23	26.30	5.03
LTM03	City of York	0.50	7.16	14.32
LTM04	City of York & Spring Garden Township	2.80	14.76	5.27
LTM05	City of York, West York Borough, West Manchester Township, York Township, & Spring Garden Township	4.98	18.33	3.68
LTM06	City of York, Spring Garden Township & York Township	2.21	7.38	3.34
MN01	Manchester Township	1.88	5.02	2.67
MN02	Manchester Township	0.16	1.17	7.31
MN03	Manchester Township	0.24	0.51	2.13
NY01	North York Borough	0.16	2.12	13.25
SG01	Spring Garden Township	0.39	1.20	3.08
SG02A	Spring Garden Township	0.20	1.06	5.30
SG03	Spring Garden Township	0.27	1.29	4.78
SG04	Spring Garden Township	0.15	0.55	3.67
WM01	West Manchester Township	2.05	5.09	2.48
WM02	West Manchester Township	0.14	0.60	4.29
WWTP	Treatment Plant	15.98	72.51	4.54
WY01	West York Borough	1.90	6.95	3.66
YC01	York City	0.35	1.30	3.71
YT01	York Township	1.18	3.56	3.02
TOTALS				

(Flows Based on Meter Records from August 4, 2020 to August 11, 2020)

In general, I/I is excessive throughout the entire service area. I/I reduces capacity both in the sewerage system and at the wastewater treatment plant. It also increases the costs of treatment; not just annual operating costs, but also costs associated with repair or replacement of facilities lost during the high flow events. Excessive inflow continues to exist as seen during storm events analyzed in this report. I/I comes from each contributing municipality. The existing I/I may impact growth throughout the service area.

All of the contributing municipalities are impacted by I/I. Each municipality has contributed I/I directly into the York City conveyance system or indirectly through the Springettsbury conveyance system and Springettsbury's wet weather bypass pumping station at Loucks Mill Road.

The following items are recommended by the City of York and the connected municipality to help curb system wide I/I:

- Continue to use flow metering to monitor sub-basins within the Municipality service areas.
- Continue to update EDU counts and known large flow contributors for each sub basin and point of connection.
- Develop a table for annual tracking service area wide of EDU's and flow contributions for use by all municipalities in better managing I/I.
- Continue routine inspection work including CCTV inspection, dye testing, and smoke testing.



- Prepare Municipal Ordinances to address property owner issues including the removal and replumbing of sump pumps, downspouts and area drains connected to the collection system.
- Each Municipality should provide annual reports of their inflow reduction efforts for each basin

The Arch Street Basin (LTM03) has continued potential for overload during severe wet weather events. There should be continued emphasis on CCTV inspection, flow metering, removal of roof leaders and stormwater interconnections.

Prospect Street Interceptor has limited capacity. The 10 year storm shows the Prospect Interceptor pipe surcharging in the interceptor model. The interceptor sewers along Prospect Street from manhole C27·1 to C27·10 appear to be capacity deficient. Spring Garden expects some limited growth in the future into this basin. The interceptor should be upsized from 12 to 18 inches.

On-lot Septic Systems

Individual on-lot Sewage Disposal Facilities are not permitted by law in the City of York. There are no known existing on-lot disposal systems in the City of York. City Codes will not allow any future on-lot disposal facilities.



Section 4 - Future Growth and Land Development

The status of the municipal planning activities of the City of York are discussed in the following sections. Other municipalities that are tributary to the York City Sewer Authority facilities have entered into inter-municipal agreements with the City of York that provide limits to their contributions. These contributing municipalities are responsible for developing their planning activities in accordance with federal, state, and local requirements.

The City of York's core planning documents are the 2011 Zoning Ordinance and the 2009 City of York Strategic Comprehensive Plan. These documents govern growth and city planning for the City of York. The City of York's Zoning Map is Drawing 6 in Appendix 2. The City of York's future Land Use Map is Drawing 7 in Appendix 2.

City of York Zoning Ordinance

The following zoning information is taken from the City of York Zoning Ordinance of 2011. The 2011 Zoning Ordinance identifies eleven districts which include residential, mixed residential-commercial, business, employment, residential-institutional, open space, and floodplain/greenway districts. The location and purpose of each district is described in the table below, followed by a description of each district. Refer to Drawing 6. Table 4·1

Table 4 1, Zoning District Location and Purpose

Purpose of District
Preserve, protect, enhance, and perpetuate the value of these low density neighborhoods through neighborhood conservation principles
Preserve, protect, enhance, and perpetuate the value of these medium to high density neighborhoods through neighborhood conservation principles
Allow for the revitalization of diverse compact, pedestrian-oriented neighborhoods which exhibit characteristics reminiscent of traditional neighborhoods including medium to high density residential uses, combined with workplaces, public facilities, open space, and limited compatible appropriately-scaled neighborhood commercial uses with direct access to major transportation corridors and transit.
Allow for the revitalization of diverse compact, pedestrian-oriented neighborhoods including medium to high density residential uses, combined with workplaces, public facilities, open space, and extremely limited compatible appropriately-scaled neighborhood commercial uses with direct access to major transportation corridors and transit.
Serve as the focal point for social, cultural, entertainment, government, commercial, and tourism activities of the City
Promote and protect the City of York's economic and employment base by providing a flexible area outside of the Central Business District for businesses to locate, expand, and prosper.
Areas where a major institution, such as a college or hospital, has a significant influence on land use in surrounding areas. Provide defined areas for the location of the parent institution as well as appropriate accessory and ancillary uses.
Areas where a major institution, such as a college or hospital, has a significant influence on land use in surrounding areas. Provide defined areas for the location of the parent institution as well as appropriate accessory and ancillary uses.



Zoning District	Purpose of District
OS – Open Space District	To provide public protection against potential flooding, fire, or erosion and to provide recreational facilities and outdoor entertainment, and to prevent intensive development.
FP/GW – Floodplain/Greenways District	Use and Occupancy of properties and structures within areas designated by the United States as being within a floodplain shall be regulated by the City of York Floodplain Ordinance in addition to the provisions of this zoning ordinance.

City of York Ordinances Regulating Sewer Provision

The City of York is an older urban community. Most of its lands are currently developed. The City of York does not establish lot sizes related to sewer disposal or service; all users are required to tap into the City of York public sewer system. §932.09 of the City of York Codified Ordinances specifically prohibits draining or depositing sewage into cesspools, wells, septic tanks, drain fields or other sewage or drainage receptacles, and prescribes that such facilities must be cleaned, filled and sealed. No on-lot sewer systems are permitted in the City, nor are any in operation to the knowledge of City staff. §932.10 prohibits the construction of such facilities.

Further, Part Nine, Streets, Utilities and Public Services Code, Title Three, Public Sewers, details how connections may be made to the public sewer system to ensure compliance with federal and state regulations and provide for public health. §1336.07 of the City of York subdivision and land development ordinances requires developers to provide a complete sanitary sewer system to connected to the City sanitary sewer system. §1306.06 of the Zoning Ordinance addresses sanitary sewer connections as well. New subdivisions must have sanitary sewer lateral connection (unless waived by the City Engineer, as may occur for parking lots) and requires that private and public lines meet the construction standards of the York City Sewer Authority.

Land Use Planning and Zoning and Its Consistency with Protecting Environmentally Sensitive Areas (With special attention to: public ground-surface water supply sources; recreational water use areas; groundwater recharge areas; industrial water use; and wetlands.)

The City of York, due to its historically dense population and development patterns, does not have large tracts of undisturbed environmentally sensitive lands. Most of the City is developed with the exception of approximately fifty-four acres in the York City Business and Industry Park.

As previously discussed, on lot sewage disposal is not permitted in the City. §1308, Environmental Standards, of the Zoning Ordinance references the stormwater and erosion and sediment control ordinances, the state Clean Stream Law, and wetlands among other non-water related topics. The City has adopted the Commonwealth Solid Waste Management Act as its own, including any legislation that may be promulgated from that Act. In addition, the City code references the handling of hazardous waste under 40 CFR 261. Design standards of the subdivision and land development ordinance require natural drainage ways or watercourses to be preserved *via* drainage easements. As previously mentioned, the Codorus Creek is channelized as are portions of Willis Run and Poor House Run. Sections of the smaller water courses in the City are located in public parks, such as Willis Run and Poor House Run, and are accessible to the public. Title Three, Public Sewers, regulates the use of the sewer system by residential and non-residential users, and assists the York City Wastewater Treatment Plant meet its effluent requirements.

§1302.122 of the zoning ordinance defines wetlands as "an area that is inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adopted for life in saturated soil condition, including swamps, marshes, bogs, swales and similar areas. §1308.12 of the zoning ordinance further defines the functions and purpose of wetlands, and references state and federal regulations governing wetlands and their use. Wetland areas are required to be identified on any land development plan whether or not any impact is proposed. There are no federally recognized wetlands in the City, although some very small wetlands areas have been identified during the subdivision and land development process.



Floodplain

The City of York Zoning Ordinance regulates the 100-year floodplain, as defined by the federal government, as an overlay district. The regulated 100-year floodplain affects areas adjacent to Codorus Creek, Tyler Run, Willis Run and Mill Creek. The majority of the regulated 100-year floodplain is confined within the Army Corps of Engineers retaining structure along Codorus Creek. The majority of the remaining portion that is not structurally contained is zoned as an Open Space district with the remaining portions located within RS2 and IH districts. Of the City's approximately 19,673 principal and accessory structures, approximately 93 residential structures and 33 non-residential structures are located within the regulated floodplain (0.6%).

The overlay district distinguishes between the floodway area, the general floodplain area, and floodway fringe area with prohibitions, restrictions or requirements defined for each. Numerous restrictions regulate land uses, development, construction, principal or accessory structures, or activities that may be permitted in the 100-year floodplain. Plans must show a variety of hydrologic, design and construction information to determine if the proposed activity is permissible. The subdivision and land development ordinance also references requirements for floodplain use and further requires that any low lying areas or areas subject to inundation shall be preserved and retained in their natural state as drainage ways.

The underlying zoning district governs which land uses are permitted, provided that the requirements of the floodplain overlay district can be met. In accordance with Commonwealth regulation, special permits, plan review and technical requirements are required for hospitals, jails or prisons, manufactured homes and nursing homes. In addition, the variance criteria and special exception general provisions of the City of York Zoning Ordinance, which determines the review procedure for the Zoning Hearing Board, specifically cross-reference the floodplain overlay district for regulatory compliance.

Stormwater

Stormwater management is regulated by the subdivision and land development ordinance and the zoning ordinance. §1336.05 of the City's subdivision and land development ordinance requires storm drainage improvements. Design standards must accommodate potential runoff from its entire upstream drainage area whether such area is inside or outside the proposed development.

The City of York Strategic Comprehensive Plan

The City of York updated the origin Strategic Comprehensive Plan from 1999 the contained a planning horizon of 2015. The updated Strategic Comprehensive Plan was created in 2009 with a planning horizon of 2030. The following are statements from the plan.

The goal of the plan is to build a strong, attractive, and economically thriving community. The plan is a blueprint for development and redevelopment with a planning horizon of 2030. A goal of the plan is to provide quality, cost-effective facilities and services through special funding sources, general funds, and route maintenance and schedule improvements to maintain acceptable quality of life for City residents. The wastewater collection and conveyance system is considered a community facility in this plan.

This plan includes an interrelationship with the Future Land Use. Some key elements are the Housing Policy and the Community Facilities and Services Policy. The plans discuss current and future land use plans that affect the density of development.

The City of York draft strategic comprehensive plan includes a vision for cross-town greenway linkages between neighborhoods, community parks and facilities through:

- Revitalization of the Codorus waterway area,
- Enhanced water and greenway opportunities as amenities, and
- Use of the Codorus Creek Greenway as the spine through the City and using other streams as greenway fingers which reach into neighborhoods.

The draft comprehensive plan also establishes a vision for the community's public lands that states that streams, recreation facilities and parks and open spaces shall be clean and aesthetically pleasing.



Existing and Proposed Development Areas

The City of York has no plotted subdivision areas. There are limited options for future potential growth potential within the City of York. Any growth that is occurring at the present time is being done through zoning changes. Currently, some industrial properties are being rezoned to and converted to high density residential units. Drawing 7 in Appendix 1 provides the location for the current redevelopment parcels.

Population Assessment

In 2020, the City of York's population was recorded per the Census done by the United States Census Bureau as 44,800 people. York County's population was recorded as 456,438 in 2020 per the census performed by the United States Census Bureau. The following are population statistics from the US Census Bureau.

Table 4-2, Population Statistics

Population Entity	2010	2020	% Change
York City	43,718	44,800	2.5
York County	434,972	456,438	4.9
Commonwealth of Pennsylvania	12,702,379	13,002,700	2.4
United States	308,745,538	331,449,281	7.4

Source: US Census Bureau.

Population Trends

According to Bureau of the Census data, the City of York's population has declined from 1960 through 1990. An overall loss of 11,111 persons (20.39%) from the 1960 population of 54,504, resulted in an average loss of 0.68% per year (Table 4-3, Historic Population). During the same thirty year period, York County has demonstrated an overall population growth of 42.5%, averaging increases of 1.42% per year.

From 1990 to 2020, according to the Bureau of Census Data, the City of York's population has increased by 1,407 people or approximately 3.2%. The population of York County, during this same time period, has increased by 116,864 or approximately 34.4%. (See Table below)

Table 4-3, Historic Population

Population Entity	1960	1970	1980	1990	2000	2010	2020	% Change
York City	54,504	50,335	44,619	43,393	40,862	43,718	44,800	-17.8
York County	238,336	272,603	312,963	339,574	382,746	434,972	456,438	91.5

Source: US Census Bureau.

Meanwhile, the number of households in the City of York has increased by 1% between 2000 and 2019 and the number of households in York County have increased by 16.3% in this same time period.

Table 4-4, Historic Number of Households

Population Entity	2000	2019	% Change
York City	16,137	16,303	1.0
York County	148,219	172,421	16.3

Source: US Census Bureau.

The population analysis and data related to the number of households indicates that the City of York is not in a growth period, but is maintaining its population. The connected municipalities are growing as idenitified in the County's projections.

County & Local Population Projections

The City of York does not prepare population projections; rather it has relied on York County Planning Commission projections and Bureau of the Census projections or population estimates. In order to determine the most



accurate representation of recent population trends in the City of York, population estimates and projections were obtained from the YCPC.

The York County Planning Commission (YCPC) develops population projections for York County, the City of York (Population Projections Table), and its other municipalities. The latest Planning Commission population projections, updated in 2011, show that York City will gain approximately 293 people, or 0.65% of its population, over the next thirty year period. YCPC projects York County will gain approximately 125,300 people over the thirty year period starting in 2020, for a total population increase of 27.5%.

Table 4-5, Population Projections

Municipality	2020*	2030	2040	2050	Average Annual Change
York City	44,800	44,398	44,746	45,093	0.02%
York County	456,438	504,958	542,340	581,738	0.92%

^{*}Actual Numbers from US Census Bureau

Source: York County Planning Commission, 2011.

Sewage Planning

The WWTP permitted sewage capacity is 26 MGD. This capacity has been divided into capacity allocations for each of the connected municipalities. The allocation capacity for each municipality is shown Table 4-6. Table 4-6 also includes by municipality the 2020 average daily flow, proposed 2025 and 2030 flows. The 2025 proposed flows are the flows identified by each of the municipalities in their respective 2020 Chapter 94 reports. The 2030 flows were obtained from the Chapter 94 report as "other additional flows beyond 2025" or assessed using the county wide growth projections above.

Table 4-6, Allocation Capacity

Municipality	Reserved Capacity (GPD)	% of Total Plant Capacity	2020	2025	2030
City of York	7,280,100	28.00	1,535,357	1,659,642	1,676,238
York Township	3,363,000	12.93	1,384,200	1,461,650	1,695,514
Manchester Township	2,434,900	9.37	1,194,774	1,373,029	1,656,549
Spring Garden Township	3,011,500	11.58	1,441,101	1,804,901	2,264,351
West Manchester Township	3,378,800	13.00	2,505,691	2,587,941	2,674,591
North York Borough	531,200	2.04	209,405	240,905	276,938
West York Borough	1,200,500	4.62	682,523	710,873	725,573
Springettsbury Township	4,800,000	18.46	201,760	4,800,000	4,800,000
Totals	26,000,000	100.00	9,154,811	9,838,941	10,969,754

The average daily flow as reported on the 2025 and 2030 flow projections are moderate increases and well within the WWTP treatment capacity.



Section 5 – Alternatives

Ownership Alternative

The City's sewage facilities will require investment to continue to provide safe, reliable, and adequate wastewater conveyance for its customers. Upgrading both the sewage treatment facility and the sewage collection system will require significant capital investment that would negatively impact customer rates. Thus, the City's Council members have determined that the sale of its sewage facilities to PAWC is in the best long-term interest of its residents.

The York City WWTP, collection and conveyance systems are meeting existing demands, and additional capacity is not required for the WWTP. However, the City of York sanitary sewer facilities are aging and will require investment. The City of York has determined that selling the sanitary sewer facilities is beneficial to updating the WWTP, collection and conveyance facilities and to meet the health and safety of the City population.

The City of York has reached an agreement with PAWC to purchase the City's sanitary sewer facilities. The purchase agreement is currently being reviewed by the PUC.

The transfer to PAWC would have no effect on water quality standards or effluent limitations. The City's Council has determined that the sale of its sewage facilities to PAWC is in the best long-term interest of its residents.

The transfer of ownership of all assets will be immediate upon closing according to the Asset Purchase Agreement.

Treatment Plant Alternatives

The WWTP has the capacity to continue to provide wastewater treatment as defined by the current NPDES Permit. Repairs, upgrades and improved operations and maintenance (O&M) are needed.

The EPA AOCC has identified upgrades and improved O&M projects for improving the plant's SCADA system, and improved treatment for stormwater and diverted effluent to the WWTP's Outfall 001. The Outfall 001 improvements are related to partial effluent diversions from the Train 2 final clarifiers during severe wet weather flows. There are currently no treatment plant alternatives for increasing the capacity or making changes to the WWTP's core treatment process.

The above-mentioned projects are currently under evaluation and are expected to have a single discrete solution which is operational in nature. The SCADA system is to be replaced by the PAWC's standard SCADA system. The Outfall 001 improvements will include additional flow meters, additional samplers, and updated standard operational procedures. Furthermore, the projects will include improvements to the Outfall 001 disinfection and dechlorination process and may include other treatment improvements depending on the results of studies prescribed in the AOCC. Each of the Outfall 001 improvements will be monitored and assessed to determine if additional treatment process changes are required.

Conveyance System Alternatives

The conveyance system, the interceptors which carry flow from the connected municipalities and the City of York to the WWTP, have adequate capacity to meet existing average and maximum day demands. The capacity of the conveyance system becomes strained under peak wet weather events.

A system of permanent interceptor flow meters and connected municipality flow meters are used to monitor flow conditions within the conveyance system. These monitors are used in conjunction with rainfall data to monitor and react to interceptor capacity concerns. Data assessment from these meters provide guidance for collector and interceptor improvement projects.

Prospect Street Interceptor Replacement

The Prospect Street Interceptor project is currently under design. This project was identified from flow metering, surge indicator monitoring and hydraulic modeling. The interceptor has been monitored for several years and is being designed to improve flow from Spring Garden Township and the City of York into the Poorhouse Run Interceptor. The interceptor has capacity concerns during peak wet weather events. While the manholes along



the interceptor have never overflowed, the interceptor pipe has surcharged into the manholes as determined by local flow metering and with surcharge indicators.

The existing 12 inch interceptor pipe will be replaced with 18 inch pipe. The pipe will maintain the existing horizontal alignment within the public street rights-of-way due to expected utility conflicts. The vertical alignment will be adjusted slightly to improve overall pipe capacity.

Parallel interceptor replacement is not considered as an alternative due to conflicts with stormwater, gas, electric, communications, and water utilities within the City's streets and sidewalks. The no-action alternative is not being considered due to pipe surcharging during peak wet weather events.



Section 6 - Evaluation of Alternatives

The alternative evaluation of the improvement/replacement projects identified in Section 5 are limited in scope and options. Many of the wastewater treatment plant alternatives have been identified as projects in the USEPA AOCC. The majority of these project are limited to operational improvements. These operational improvements will not require Water Quality Management permitting to complete. There are two AOCC projects that are currently under evaluation that may require substantial capital improvements, as the project evaluations are completed a determination will be made as to whether or not Water Quality Management permits are required.

The Prospect Street Interceptor replacement project will require Water Quality Management permitting. The alternatives assessment will focus on the project.

Clean Streams Law

Sections 4 and 5 of the Clean Streams Law require pollution control be developed for the entire watershed. Section 208 of the Clean Water Act requires the development of wastewater management plans for facilities to meet future wastewater treatment needs. The Prospect Street Interceptor Project is limited to conveying flow the WWTP. It is consistent with both the Clean Streams Law and the Clean Water Act.

Municipal Wasteload Management Corrective Action Plans

There are currently no PADEP Wasteload Management CAP's on the collection, conveyance, or treatment facilities for the City of York. The Prospect Street Interceptor Project is consistent with the City of York Chapter 94 Reporting.

Title II, Clean Water Act

Title II of the Clean Water Act provides for the possibility of federal grants particularly for projects with innovative or alternative technologies. The WWTP Prospect Street interceptor replacement would not be applicable for federal grants.

Comprehensive Plans for the City of York, and York County

The improvements to the WWTP and the Prospect Street Interceptor are consistent with the City of York and York County comprehensive plans.

State Water Plan

The interceptor replacement plan and improvements at the WWTP are consistent with the State Water Plan.

County Stormwater Management Plan

The improvements at the WWTP and for the Prospect Street Interceptor are consistent with the York County stormwater management plan.

Wetland Protection

Based on NWI wetlands data, and on-site inspections, there are no wetlands that will be impacted at the WWTP site or within the Prospect Street Interceptor limits of disturbance.

The Prospect Street Interceptor replacement is limited to paved City of York streets and paved parking areas. The construction will not impact any wetlands.

Protection of Rare and Endangered Species

A PNDI is required for the Prospect Street Interceptor project. The currently planned operations improvements at the WWTP due not require PADEP permitting.

A PNDI search was performed on-line with the Pennsylvania Department of Conservation of Natural Resources (DCNR). The DCNR returned the response of "No Known Impact" for each of the Agencies. The DCNR response is located in Appendix 5



Historical and Archaeological Resource Protection

A cultural resource notice was submitted to the Pennsylvania Historical and Museum Commission (PHMC) for the Prospect Street Interceptor Improvements Project. The submission was made online, and the PHMC provided a response letter which is in Appendix 6. The PHMC indicated that there are no "Above Ground Concerns" or Archaeological Concerns.

Project Costs

The project costs for the improvements projects identified under the AOCC have not yet been identified. The project cost estimate for the Prospect Street Interceptor Project is \$845,000 for the replacement of the interceptor in its current horizontal alignment.

Justification for Ownership Alterative

PAWC is the Commonwealth's largest investor-owned provider of water and wastewater services. As a leading wastewater provider in Pennsylvania, PAWC brings industry leading expertise and has extensive technical experience in upgrading, operating and maintaining sewer facilities.

PAWC is a subsidiary of American Water Company which is the largest investor owned utility in the United States. As such, PAWS has the financial ability to provide the City of York and the connected municipalities with reliable and efficient sanitary sewer services. PAWC has the financial ability to operate, maintain and upgrade the City of York sanitary sewer system.



Section 7 - Institutional Evaluation

Currently, the York City Sewer Authority (YCSA) is a lease back authority, which owns all of the public sanitary sewage collection and conveyance facilities within the City of York municipal boundary, and the treatment facility located in Manchester Township. These facilities are leased to the City of York to operate and maintain. The City of York has determined that it is in the City's best interests to sell its sanitary sewer collection, conveyance and treatment facilities.

The Pennsylvania American Water Company (PAWC) is under agreement to purchase the City of York wastewater treatment plant and the City of York collection and conveyance systems. PAWC has the financial ability to operate, maintain and perform needed capital improvements to the collection, conveyance and treatment facilities.

Following the acquisition, the City's sewage facilities will be owned and operated by PAWC. The operation of the sewage facilities will become part of the existing PAWC organizational structure and no new departments or authorities will be created as part of this acquisition. Users who are now direct customers of the Township will become direct customers of PAWC.

Once the acquisition by PAWC is complete, existing City of York sewer customers will become direct customers of PAWC. As directed customers of PAWC, the wastewater tariff as approved by the PUC will define the rates, rules, and regulations governing the furnishing of wastewater collection and disposal service.

After the acquisition is completed, PAWC will own and maintain the wastewater treatment plant, pump station, and collection system.

PAWC would respond to and investigate any reports of sewer overflows. If the overflow is discovered within the PAWC owned and maintained collection system, PAWC will stabilize the situation and make corrective actions as necessary to eliminate the overflow.

As a result of the acquisition, PAWC will be responsible for the costs of administering and implementing any upgrades to address future needs in accordance with applicable PUC rules and regulations. The City of York retains the authority to govern the sewage facility planning in accordance with Title 25, Section 71 of the Pennsylvania Code.

Required Administrative Activities

The existing City of York/York City Sewer Authority deeds and rights-of-way easements are being transferred to PAWC with the sale of sanitary sewer facilities. After closing of the sewer facilities acquisition by PAWC, existing City ordinances, regulations, standards, and inter-municipal agreements will also need to be modified. It will be necessary for the City of York to identify PAWC as the responsible party for City wide sanitary sewerage facilities management.



Section 8 – Selected Alternative and Implementation Schedule

The selected alternative involves a sale of the City of York sanitary sewer system to PAWC. Responsibilities for implementation of elements of the Act 537 Plan and the EPA AOCC would be assigned to PAWC. PAWC has the financial and technical ability to provide long term operations and maintenance of the City of York sanitary sewer system. PAWC will complete the identified upgrade alternatives identified in the AOCC over the next 5 years and will complete the Prospect Street Interceptor Replacement Project as part of this work outside of the USEPA AOCC requirments.

Existing Sanitary Sewer Needs

PAWC will be able to provide the financial and technical leadership to complete all of the AOCC required projects as well as the Prospect Street Interceptor Replacement project. The Prospect Street Interceptor replacement project is currently under design and is expected to be permitted and ready for bid and construction in 2022.

Future Sanitary Sewer System Needs

The York City sanitary sewer system is aging. There are collector and conveyance sewers within the City's sewer system that are over 100 years in age. There are structural components and buildings at the WWTP that are over 70 years old. These facilities will continue to need maintenance and replacement. PAWC is financially and technically better able to provide these services.

Long Term Operations and Maintenance

PAWC has a record of accomplishment of wastewater system sustainable management. Under the selected alternative, PAWC brings state-of-the-art predictive/preventive maintenance programs, system automation and monitoring systems, a well-experienced engineering and operations management team, and well-developed programs for capital investment and system improvement.

Implementation Schedule

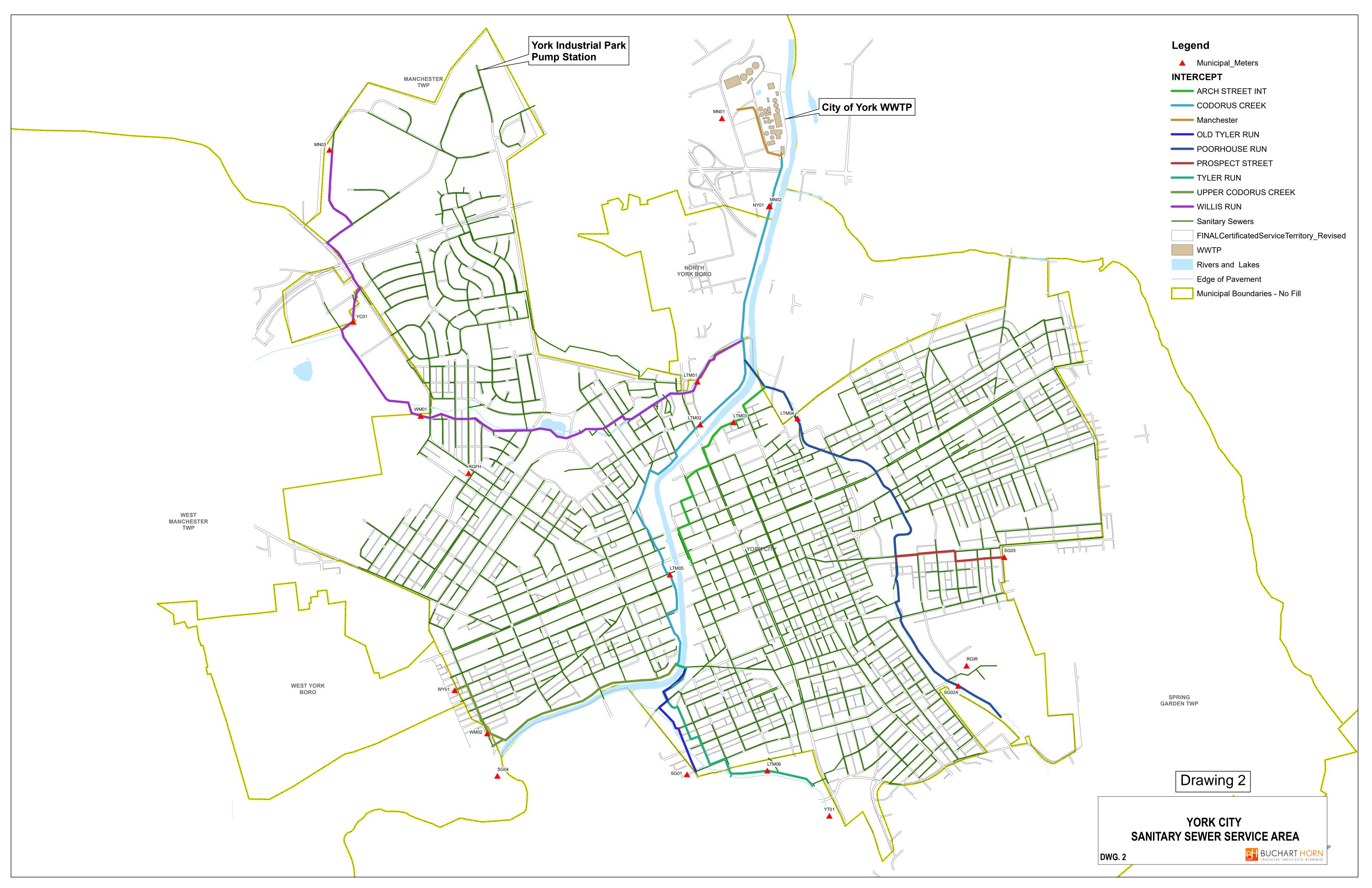
The following is the anticipated implementation schedule that identifies each current and future area of need.

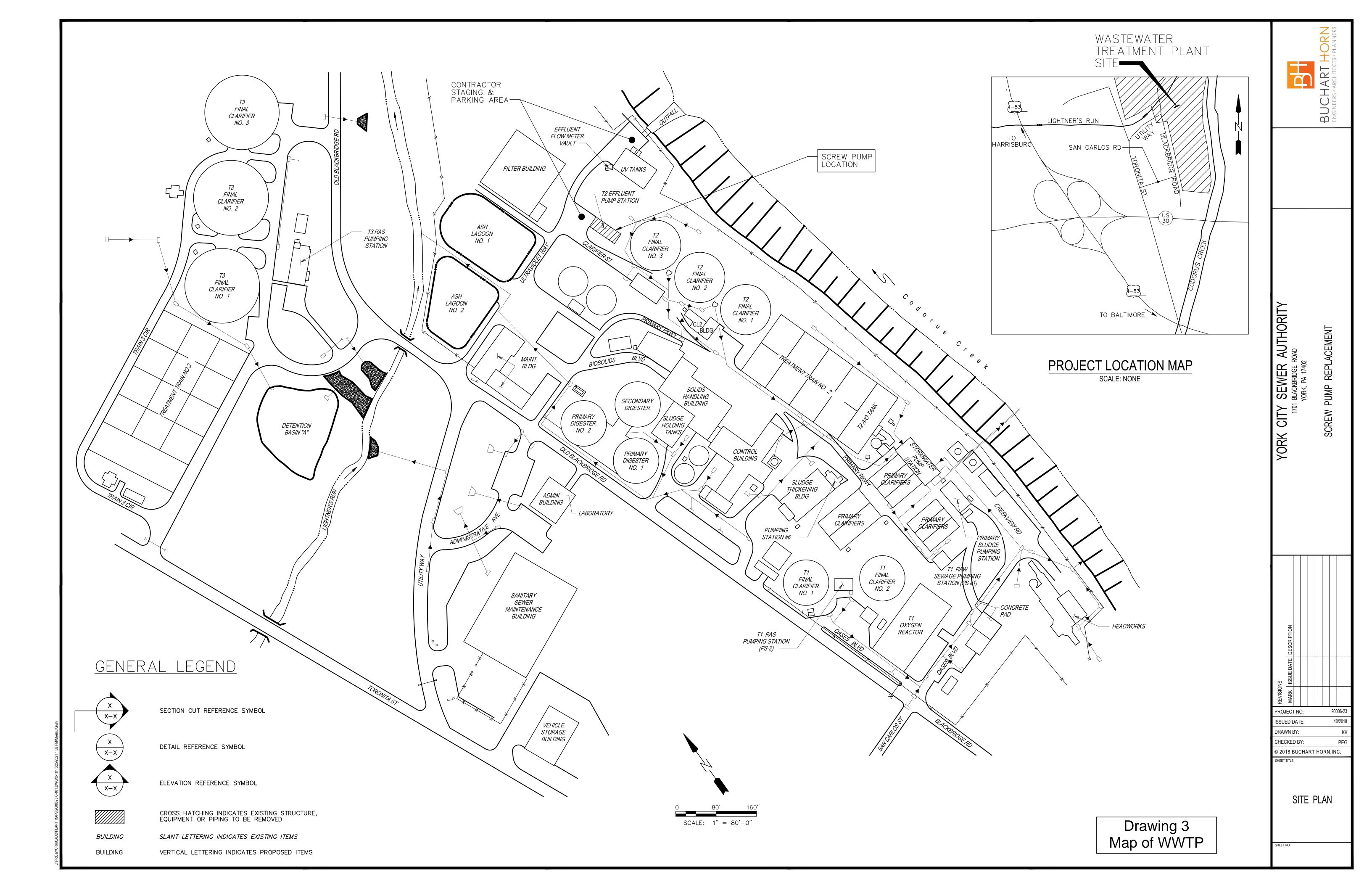
Major Milestone	Date
Complete Plan for Agency Review and Public Notice	12/20/2021
60-Day Public Agency Review	2/28/2022
30-Day Public Comment Period (Comments Must be in Writing)	1/28/2022
York City Council adopts Resolution Approving Plan	3/23/2022
Submit Adopted Plan to DEP	3/25/2022
DEP Approves Plan (Assume 60 Days)	4/29/2022
PUC Approval of Acquisition	4/29/2022
Closing and Transfer of City of York Sewage Facilities to PAWC	4/29/2022
Bid Prospect Street Sewer Project	5/31/2022
Bidding and Construction of the Prospect Street Sewer Project	Prior to 2027

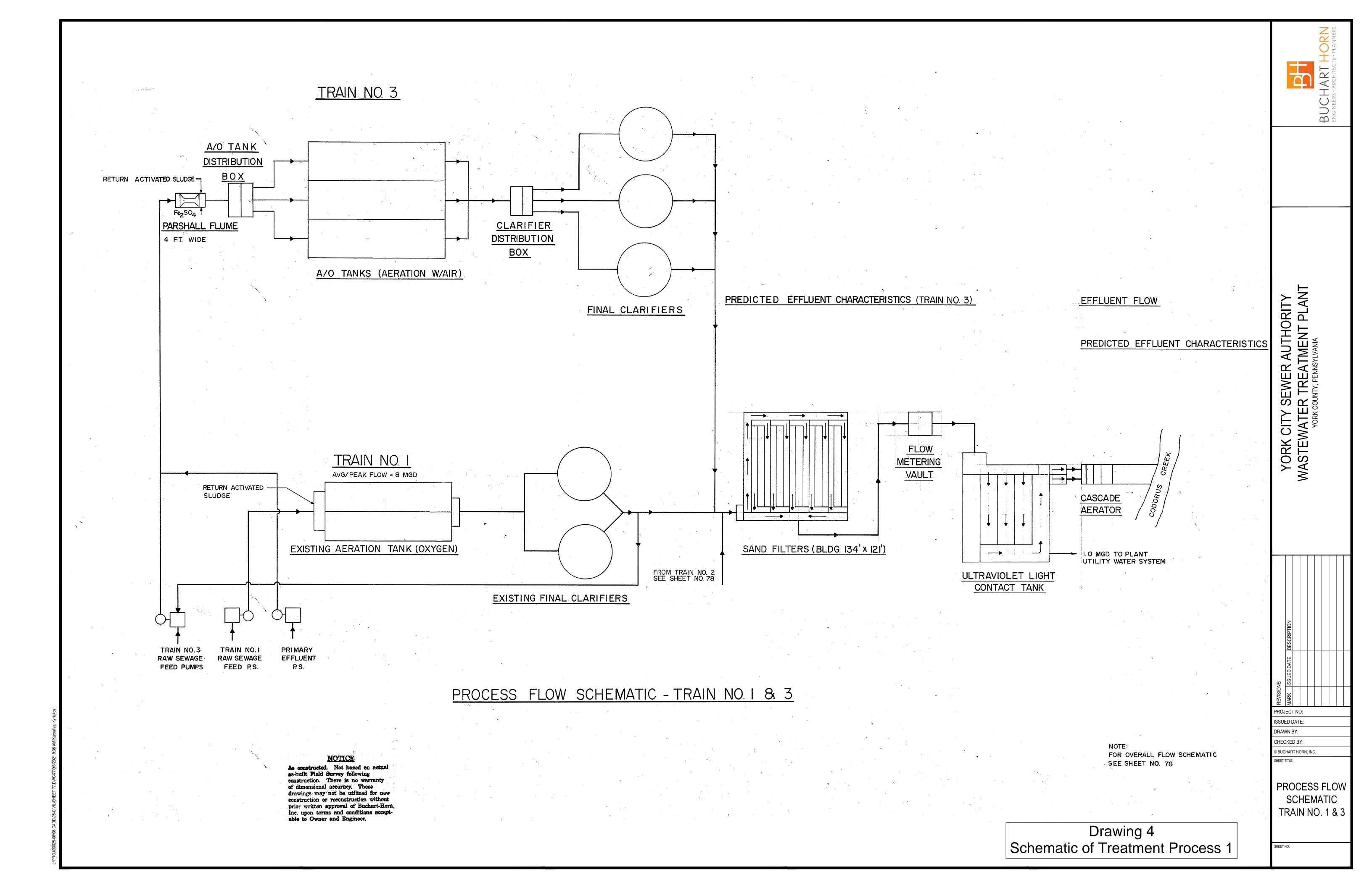


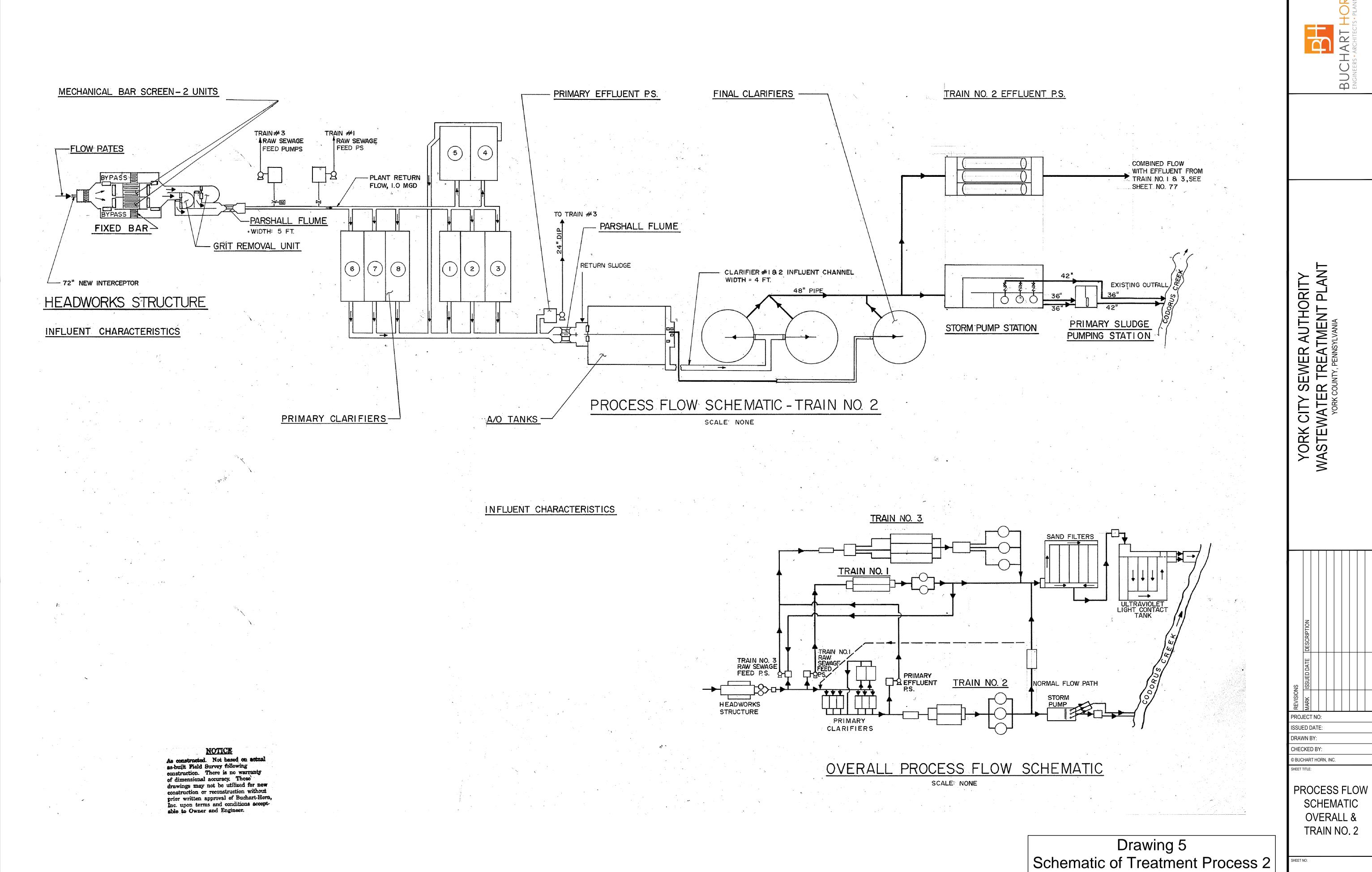
Appendix 1



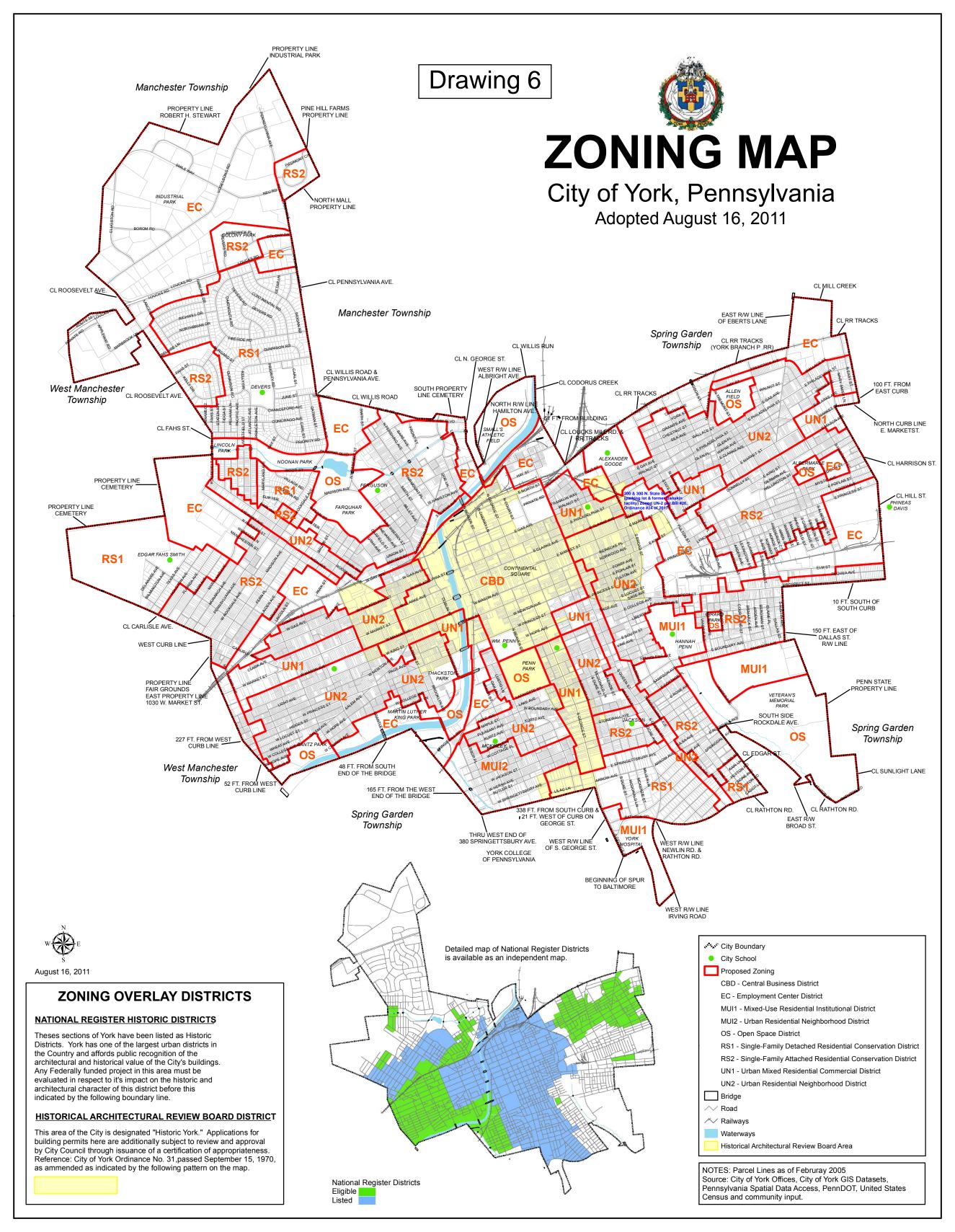


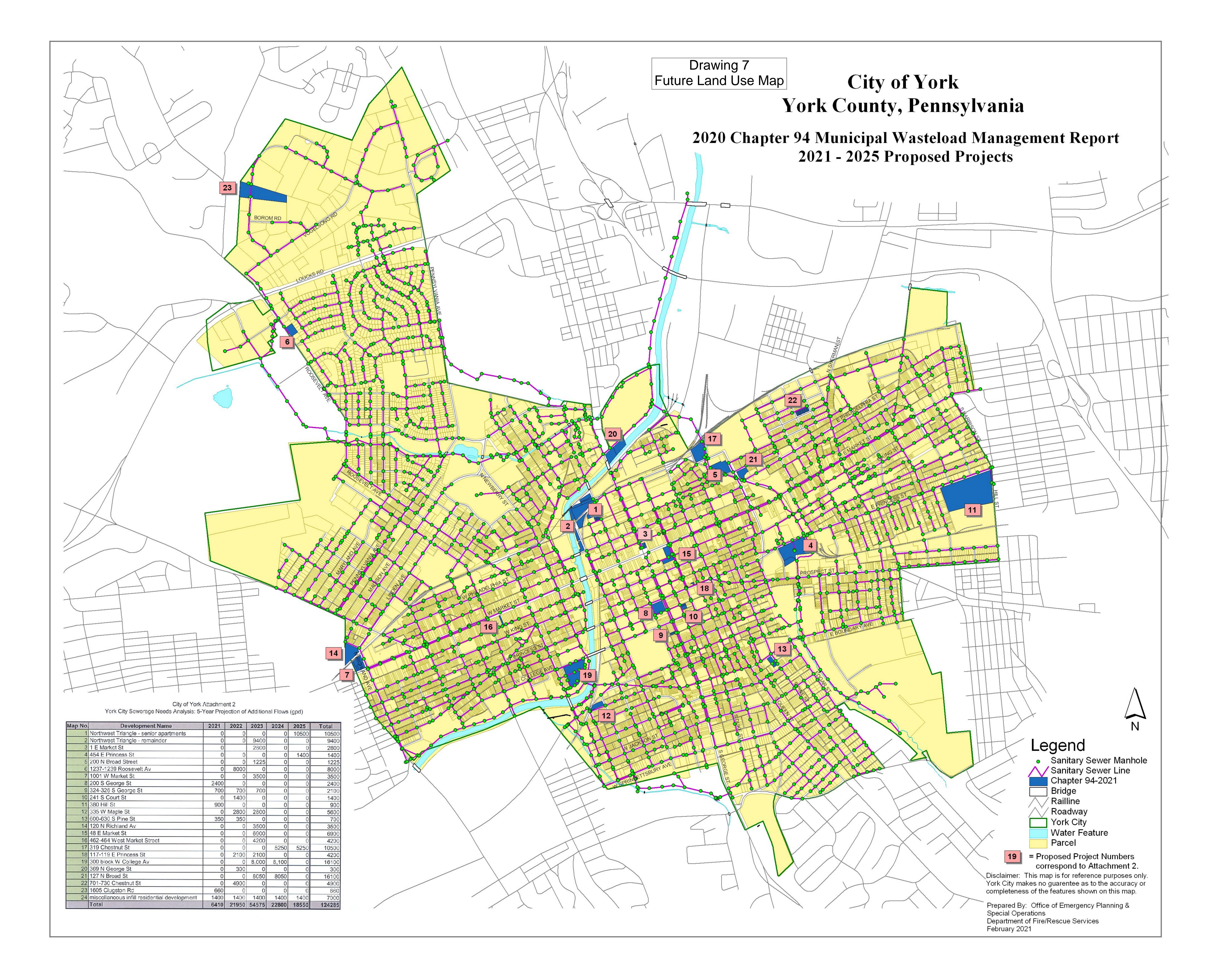






SCHEMATIC





Appendix 2





AUG 0 3 2017

CERTIFIED MAIL NO. 9171 9690 0935 0123 5420 64

James Gross York City Sewer Authority 345 E Market Street York, PA 17403-5614

Re: Final NPDES Permit- Sewage

York City WWTP

NPDES Permit No. PA0026263 Authorization ID No. 937237

Manchester Township, York County

Dear Mr. Gross:

Your NPDES permit is enclosed. Please read the permit carefully. The permit expires on the date identified on page 1 of the permit. A renewal application must be submitted to this office 180 days prior to the permit expiration date, if a discharge is expected to continue past the expiration date of the permit. Enclosed is also a Fact Sheet Addendum which documents DEP's responses to your comments submitted by Mr. Randall Hurst of Mette, Evans & Woodside on your behalf on May 19, 2017.

Enclosed are Discharge Monitoring Report (DMR) templates and DMR instructions. It is recommended that you retain the DMR templates in the event you are unable to submit DMRs electronically through DEP's eDMR system. Routine use of the eDMR system is a requirement of the permit unless the conditions in Part A III.B of the permit are met to withdraw from the eDMR system.

Also enclosed is a Supplemental Form Inventory, which identifies the forms that are attached to the permit and must be submitted as attachments to eDMR reports, as applicable (see individual form instructions). The submission of other supplemental forms may be required in accordance with the permit. We encourage you to use the spreadsheet versions of supplemental forms that contain appropriate validation and DEP-approved calculations.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717.787.3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800.654.5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal

form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717.787.3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717.787.3483) FOR MORE INFORMATION.

If you have any questions, please contact Jinsu Kim at 717.705.4825 or jikim@pa.gov.

Sincerely,

Maria D. Bebenek, P.E.

Environmental Program Manager

Marie & Black

Clean Water Program

Enclosures

cc:

U.S. Environmental Protection Agency (transmitted electronically)

Central Office, Division of Operations, Monitoring and Data Systems, PADEP

Operations Section, PADEP

Tim Yohe, PE, Buchart Horn, Inc.

Supplemental Form Inventory

The following supplemental forms (indicated in the check box column) are attached to this permit and must be completed and submitted to DEP in accordance with the permit and the supplemental form instructions. If the eDMR system is used to submit DMR reports, the spreadsheet versions of these supplemental forms, where applicable, should be used and attached to the eDMR submissions. A link to DEP's supplemental form website is available when logging into the eDMR system.

Check Box	Supplemental Form Name and No.
\boxtimes	Daily Effluent Monitoring (3800-FM-BPNPSM0435)
	Influent & Process Control (3800-FM-BPNPSM0436)
	Hauled in Municipal Wastes (3800-FM-BPNPSM0437)
\boxtimes	Sewage Sludge/Biosolids Production and Disposal (3800-FM-BPNPSM0438)
	Chemical Additives Usage (3800-FM-BPNPSM0439)
	Non-Compliance Reporting Form (3800-FM-BPNPSM0440)
	CSO Monthly Summary Report (3800-FM-BPNPSM0441)
	CSO Detailed Report (3800-FM-BPNPSM0442)
	Groundwater Monitoring Data Report (3800-FM-BPNPSM0443)
	TMDL Annual Load Summary (3800-FM-BPNPSM0448)
	Land Application Systems (3800-FM-BPNPSM0449)
\boxtimes	Hauled in Residual Wastes (3800-FM-BPNPSM0450)
	Surface Water Monitoring Data Report (3800-FM-BPNPSM0461)
	Lab Accreditation Form (3800-FM-BPNPSM0189)
\boxtimes	Whole Effluent Toxicity Test Summary Report (3800-FM-BPNPSM0485)
	Storm Water Annual Inspection Form (3800-PM-WSFR0083v)
	Storm Water Additional Information (3800-PM-WSFR0083t)
	Other:

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER



AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM DISCHARGE REQUIREMENTS FOR PUBLICLY OWNED TREATMENT WORKS (POTWs)

NPDES PERMIT NO: PA0026263

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 et seq. ("the Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 et seq.,

York City Sewer Authority 345 E Market Street York, PA 17403-5614

is authorized to discharge from a facility known as **York City WWTP**, located in **Manchester Township**, **York County**, to **Codorus Creek** in Watershed(s) **7-H** in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B and C hereof.

THIS PERMIT SHALL BECOME EFFECTIVE ON	September 1, 2017
THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON	August 31, 2022

The authority granted by this permit is subject to the following further qualifications:

- 1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.
- 2. Failure to comply with the terms, conditions or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (40 CFR 122.41(a))
- 3. A complete application for renewal of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form. (40 CFR 122.41(b), 122.21(d))

In the event that a timely and complete application for renewal has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Discharge Monitoring Reports (DMRs), will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application. (25 Pa. Code §§ 92a.7(b), (c))

 This NPDES permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

DATE PERMIT ISSUED	AUG 0 3 2017	ISSUED BY	Man & Black
			Maria D. Bebenek, P.E.

Clean Water Program Manager Southcentral Regional Office

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. A.	For Outfall 001	, Latitude 39° 59' 18.81" , Longitude 76° 43' 24.89" , River Mile Index 9.45 , Stream Code 08032
	Receiving Waters:	Codorus Creek
	Type of Effluent:	Stormwater, Groundwater, and Treated Sewage (emergency overflow)

- 1. The permittee is authorized to discharge during the period from September 1, 2017 through August 31, 2022.
- 2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

			Effluent L	imitations			Monitoring Re	quirements
Parameter -	Mass Units	(lbs/day) ⁽¹⁾		Concentrat		Minimum (2)	Required	
rarameter	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.13	XXX	0.44	1/day	Grab
CBOD5 May 1 - Oct 31	Report	Report Wkly Avg	XXX	13.0	19.0 Wkly Avg	26	5/week	24-Hr Composite
CBOD5 Nov 1 - Apr 30	Report	Report Wkly Avg	XXX	20.0	30.0 Wkly Avg	40	5/week	24-Hr Composite
Total Suspended Solids	Report	Report .Wkly Avg	XXX	30.0	45.0 Wkly Avg	60	5/week	24-Hr Composite
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	5/week	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	5/week	Grab
Ammonia-Nitrogen May 1 - Oct 31	Report	XXX	XXX	1.7	XXX	3.4	5/week	24-Hr Composite
Ammonia-Nitrogen Nov 1 - Apr 30	Report	XXX	XXX	2.1	xxx	4.2	5/week	24-Hr Composite
Total Phosphorus	Report	xxx	XXX	2.0	XXX	4.0	5/week	24-Hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at discharge from facility (i.e., location in the outfall line after the last treatment unit)

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I.B.	For Outfall 002	_, Latitude _ 39° 59' 17.00", Longitude _ 76° 43' 27.00", River Mile Index _ 9.43, Stream Code _ 08032
	Receiving Waters:	Codorus Creek
	Type of Effluent:	Treated Sewage

- 1. The permittee is authorized to discharge during the period from **September 1, 2017** through **August 31, 2022**.
- 2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

			Effluent L	imitations			Monitoring Red	quirements
Parameter	Mass Units	(lbs/day) ⁽¹⁾		Concentrat	Minimum (2)	Required		
r drameter	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
Ultraviolet light transmittance (%)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Recorded
CBOD5 May 1 - Oct 31	2819	4120 Wkly Avg	XXX	13.0	19.0 Wkly Avg	26	5/week	24-Hr Composite
CBOD5 Nov 1 - Apr 30	4337	6505 Wkly Avg	XXX	20.0	30.0 Wkly Avg	40	5/week	24-Hr Composite
BOD5 Raw Sewage Influent	Report	Report	xxx	Report	XXX	XXX	5/week	24-Hr Composite
Total Suspended Solids	6505	9758 Wkly Avg	XXX	30.0	45.0 Wkly Avg	60	5/week	24-Hr Composite
Total Suspended Solids Raw Sewage Influent	Report	Report	xxx	Report	XXX	xxx	5/week	24-Hr Composite
Fecal Coliform (No./100 ml) May 1 - Sep 30	xxx	xxx	xxx	200 Geo Mean	XXX	1000	5/week	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	xxx	XXX	xxx	2000 Geo Mean	XXX	10000	5/week	Grab

Outfall 002, Continued (from September 1, 2017 through August 31, 2022)

		Effluent Limitations							
Parameter	Mass Units	(lbs/day) ⁽¹⁾	·	Concentrat	Minimum (2)	Required			
raidinetei	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type	
Ammonia-Nitrogen								24-Hr	
May 1 - Oct 31	369	XXX	XXX	1.7	XXX	3.4	5/week	Composite	
Ammonia-Nitrogen								24-Hr	
Nov 1 - Apr 30	455	XXX	XXX	2.1	XXX	4.2	5/week	Composite	
								24-Hr	
Total Phosphorus	434	XXX	XXX	2.0	XXX	4	5/week	Composite	

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at discharge from facility (i.e., location in the outfall line after the last treatment unit)

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS (Continued)

Additional Requirements

- 1. The permittee may not discharge:
 - a. Floating solids, scum, sheen or substances that result in observed deposits in the receiving water. (25 Pa Code § 92a.41(c))
 - b. Oil and grease in amounts that cause a film or sheen upon or discoloration of the waters of this Commonwealth or adjoining shoreline, or that exceed 15 mg/l as a daily average or 30 mg/l at any time (or lesser amounts if specified in this permit). (25 Pa. Code § 92a.47(a)(7), § 95.2(2))
 - c. Substances in concentration or amounts sufficient to be inimical or harmful to the water uses to be protected or to human, animal, plant or aquatic life. (25 Pa Code § 93.6(a))
 - d. Foam or substances that produce an observed change in the color, taste, odor or turbidity of the receiving water, unless those conditions are otherwise controlled through effluent limitations or other requirements in this permit. For the purpose of determining compliance with this condition, DEP will compare conditions in the receiving water upstream of the discharge to conditions in the receiving water approximately 100 feet downstream of the discharge to determine if there is an observable change in the receiving water. (25 Pa Code § 92a.41(c))
- 2. The monthly average percent removal of BOD₅ or CBOD₅ and TSS must be at least 85% for POTW facilities on a concentration basis except where 25 Pa. Code 92a.47(g) and (h) are applicable to facilities with combined sewer overflows (CSOs) or as otherwise specified in this permit. (25 Pa. Code § 92a.47(a)(3))
- 3. If the permit requires the reporting of average weekly statistical results, the maximum weekly average concentration and maximum weekly average mass loading shall be reported, regardless of whether the results are obtained for the same or different weeks.
- 4. The permittee shall monitor the sewage effluent discharge(s) for the effluent parameters identified in the Part A limitations table(s) during all bypass events at the facility, using the sample types that are specified in the limitations table(s). Where the required sample type is "composite", the permittee must commence sample collection within one hour of the start of the bypass, wherever possible. The results shall be reported on the Daily Effluent Monitoring supplemental form (3800-FM-BPNPSM0435) and be incorporated into the calculations used to report self-monitoring data on Discharge Monitoring Reports (DMRs).

Footnotes

- (1) When sampling to determine compliance with mass effluent limitations, the discharge flow at the time of sampling must be measured and recorded.
- (2) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

Supplemental Information

- (1) The hydraulic design capacity of 26 million gallons per day for the treatment facility is used to prepare the annual Municipal Wasteload Management Report to help determine whether a "hydraulic overload" situation exists, as defined in Title 25 Pa. Code Chapter 94.
- (2) The effluent limitations for Outfall 002 were determined using an effluent discharge rate of 26 MGD.
- (3) The organic design capacity of 62,884 lbs BOD₅ per day for the treatment facility is used to prepare the annual Municipal Wasteload Management Report to determine whether an "organic overload" condition exists, as defined in 25 Pa. Code Chapter 94.

Permit

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I.C.	For Outfall	001	, Latitude	39° 59' 18.81" ,	Longitude	76° 43' 24.89"	_,	River Mile Index	9.45	Stream Code	08032
	Receiving Wa	ters:	Codorus Cre	ek							

Type of Effluent: Stormwater, Groundwater and Treated Sewage (emergency overflow)

1. The permittee is authorized to discharge during the period from <u>September 1, 2017</u> through <u>August 31, 2022</u>.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

			Effluent L	imitations			Monitoring Re	quirements
Parameter	Mass Units	(lbs/day) (1)		Concentrat	Minimum (2)	Required		
raiametei	Monthly	Annual	Monthly	Monthly Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
AmmoniaN	Report	Report	XXX	Report	XXX	XXX	5/week	24-Hr Composite
KjeldahlN	Report	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Total Nitrogen	Report	Report	XXX	Report	XXX	xxx	1/month	Calculation
Total Phosphorus	Report	Report	xxx	Report	xxx	xxx	5/week	24-Hr Composite
Net Total Nitrogen	Report	Report	XXX	XXX	XXX	xxx	1/month	Calculation
Net Total Phosphorus	Report	Report	XXX	XXX	XXX	XXX	1/month	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at discharge from facility (i.e., location in the outfall line after the last treatment unit)

Footnotes:

(1) See Part C for Chesapeake Bay Requirements.

(2) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events required.

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Permit

Type of Effluent:

PART A - EFFLUENT LIMITATIONS	, MONITORING, RECORDKEEPING AN	D REPORTING REQUIREMENTS

I. D.	For Outfall	002	_, Latitude	39° 59' 17.00",	Longitude	76° 43' 27.00"	,	River Mile Index	9.43	Stream Code	08032
	Receiving Wat	ters:	Codorus Cree	ek							

1. The permittee is authorized to discharge during the period from <u>September 1, 2017</u> through <u>August 31, 2022</u>.

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

			Effluent L	imitations			Monitoring Re	quirements
Parameter	Mass Units	(lbs/day) ⁽¹⁾		Concentrat	Minimum (2)	Required		
rarameter	Monthly	Annual	Monthly	Monthly Average	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
AmmoniaN	Report	Report	xxx	Report	xxx	XXX	5/week	24-Hr Composite
KjeldahlN	Report	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Total Nitrogen	Report	Report	XXX	Report	XXX	XXX	1/month	Calculation
Total Phosphorus	Report	Report	XXX	Report	XXX	XXX	5/week	24-Hr Composite
Net Total Nitrogen	Report	474880	XXX	XXX	XXX	XXX	1/month	Calculation
Net Total Phosphorus	Report	63317	XXX	XXX	XXX	XXX	1/month	Calculation

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at discharge from facility (i.e., location in the outfall line after the last treatment unit)

Treated Sewage

Footnotes:

(1) See Part C for Chesapeake Bay Requirements.

(2) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events required.

II. DEFINITIONS

At Outfall (XXX) means a sampling location in outfall line XXX below the last point at which wastes are added to outfall line (XXX), or where otherwise specified.

Average refers to the use of an arithmetic mean, unless otherwise specified in this permit. (40 CFR 122.41(I)(4)(iii))

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the pollutant loading to surface waters of the Commonwealth. The term also includes treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. The term includes activities, facilities, measures, planning or procedures used to minimize accelerated erosion and sedimentation and manage stormwater to protect, maintain, reclaim, and restore the quality of waters and the existing and designated uses of waters within this Commonwealth before, during and after earth disturbance activities. (25 Pa. Code § 92a.2)

Bypass means the intentional diversion of waste streams from any portion of a treatment facility. (40 CFR 122.41(m)(1)(i))

Calendar Week is defined as the seven consecutive days from Sunday through Saturday, unless the permittee has been given permission by DEP to provide weekly data as Monday through Friday based on showing excellent performance of the facility and a history of compliance. In cases when the week falls in two separate months, the month with the most days in that week shall be the month for reporting.

Clean Water Act means the Federal Water Pollution Control Act, as amended (33 U.S.C.A. §§ 1251 to 1387).

Composite Sample (for all except GC/MS volatile organic analysis) means a combination of individual samples (at least eight for a 24-hour period or four for an 8-hour period) of at least 100 milliliters (mL) each obtained at spaced time intervals during the compositing period. The composite must be flow-proportional; either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval is proportional to the flow rates over the time period used to produce the composite. (EPA Form 2C)

Composite Sample (for GC/MS volatile organic analysis) consists of at least four aliquots or grab samples collected during the sampling event (not necessarily flow proportioned). The samples must be combined in the laboratory immediately before analysis and then one analysis is performed. (EPA Form 2C)

Daily Average Temperature means the average of all temperature measurements made, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar day or during the operating day if flows are of a shorter duration.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day. (25 Pa. Code § 92a.2, 40 CFR 122.2)

Daily Maximum Discharge Limitation means the highest allowable "daily discharge."

Discharge Monitoring Report (DMR) means the DEP or EPA supplied form(s) for the reporting of self-monitoring results by the permittee. (25 Pa. Code § 92a.2, 40 CFR 122.2)

Estimated Flow means any method of liquid volume measurement based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters and batch discharge volumes.

Geometric Mean means the average of a set of n sample results given by the nth root of their product.

Grab Sample means an individual sample of at least 100 mL collected at a randomly selected time over a period not to exceed 15 minutes. (EPA Form 2C)

Hauled-In Wastes means any waste that is introduced into a treatment facility through any method other than a direct connection to the sewage collection system. The term includes wastes transported to and disposed of within the treatment facility or other entry points within the collection system.

Hazardous Substance means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act. (40 CFR 122.2)

Immersion Stabilization (i-s) means a calibrated device is immersed in the wastewater until the reading is stabilized.

Indirect Discharger means a non-domestic discharger introducing pollutants to a Publicly Owned Treatment Works (POTW) or other treatment works. (25 Pa. Code § 92a.2, 40 CFR 122.2)

Industrial User means a source of Indirect Discharge. (40 CFR 403.3)

Instantaneous Maximum Effluent Limitation means the highest allowable discharge of a concentration or mass of a substance at any one time as measured by a grab sample. (25 Pa. Code § 92a.2)

Measured Flow means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which a relationship to absolute volume has been obtained.

Monthly Average Discharge Limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month. (25 Pa. Code § 92a.2)

Municipality means a city, town, borough, county, township, school district, institution, authority or other public body created by or pursuant to State law and having jurisdiction over disposal of sewage, industrial wastes, or other wastes. (25 Pa. Code § 92a.2)

Municipal Waste means garbage, refuse, industrial lunchroom or office waste and other material, including solid, liquid, semisolid or contained gaseous material resulting from operation of residential, municipal, commercial or institutional establishments and from community activities; and sludge not meeting the definition of residual or hazardous waste under this section from a municipal, commercial or institutional water supply treatment plant, waste water treatment plant or air pollution control facility. (25 Pa. Code § 271.1)

Publicly Owned Treatment Works (POTW) means a treatment works as defined by §212 of the Clean Water Act, owned by a state or municipality. The term includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. The term also includes sewers, pipes or other conveyances if they convey wastewater to a POTW providing treatment. The term also means the municipality as defined in section 502(4) of the Clean Water Act, which has jurisdiction over the indirect discharges to and the discharges from such a treatment works. (25 Pa Code § 92a.2, 40 CFR 122.2)

Residual Waste means garbage, refuse, other discarded material or other waste, including solid, liquid, semisolid or contained gaseous materials resulting from industrial, mining and agricultural operations and sludge from an industrial, mining or agricultural water supply treatment facility, wastewater treatment facility or air pollution control facility, if it is not hazardous. The term does not include coal refuse as defined in the Coal Refuse Disposal Control Act. The term does not include treatment sludges from coal mine drainage treatment plants, disposal of which is being carried on under and in compliance with a valid permit issued under the Clean Streams Law. (25 Pa Code § 287.1)

Severe Property Damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. (40 CFR 122.41(m)(1)(ii))

Stormwater means the runoff from precipitation, snow melt runoff, and surface runoff and drainage. (25 Pa. Code § 92a.2)

Stormwater Associated With Industrial Activity means the discharge from any conveyance that is used for collecting and conveying stormwater and that is directly related to manufacturing, processing or raw materials storage areas at an industrial plant, and as defined at 40 CFR §122.26(b)(14)(i) – (ix) and (xi) and 25 Pa. Code § 92a.2.

Toxic Pollutant means those pollutants, or combinations of pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains may, on the basis of information available to DEP cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in these organisms or their offspring. (25 Pa. Code § 92a.2)

Weekly Average Discharge Limitation means the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week.

III. SELF-MONITORING, REPORTING AND RECORDKEEPING

A. Representative Sampling

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity (40 CFR 122.41(j)(1)). Representative sampling includes the collection of samples, where possible, during periods of adverse weather, changes in treatment plant performance and changes in treatment plant loading. If possible, effluent samples must be collected where the effluent is well mixed near the center of the discharge conveyance and at the approximate mid-depth point, where the turbulence is at a maximum and the settlement of solids is minimized. (40 CFR 122.48, 25 Pa. Code § 92a.61)

2. Records Retention (40 CFR 122.41(j)(2))

Except for records of monitoring information required by this permit related to the permittee's sludge use and disposal activities which shall be retained for a period of at least 5 years, all records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for 3 years from the date of the sample measurement, report or application, unless a longer retention period is required by the permit. The 3-year period shall be extended as requested by DEP or the EPA Regional Administrator.

3. Recording of Results (40 CFR 122.41(j)(3))

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date and time of sampling or measurements.
- b. The person(s) who performed the sampling or measurements.
- c. The date(s) the analyses were performed.
- d. The person(s) who performed the analyses.
- e. The analytical techniques or methods used; and the associated detection level.
- f. The results of such analyses.

4. Test Procedures

- a. Facilities that test or analyze environmental samples used to demonstrate compliance with this permit shall be in compliance with laboratory accreditation requirements of Act 90 of 2002 (27 Pa. C.S. §§ 4101-4113) and 25 Pa. Code Chapter 252, relating to environmental laboratory accreditation.
- b. Test procedures (methods) for the analysis of pollutants or pollutant parameters shall be those approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, unless the method is specified in this permit or has been otherwise approved in writing by DEP. (40 CFR 122.41(j)(4), 122.44(i)(1)(iv))
- c. Test procedures (methods) for the analysis of pollutants or pollutant parameters shall be sufficiently sensitive. A method is sufficiently sensitive when 1) the method minimum level is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or 2) the method has the lowest minimum level of the analytical methods approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, for the measured pollutant or pollutant parameter; or 3) the method is specified in this permit or has been otherwise approved in writing by DEP for the measured pollutant or pollutant parameter. Permittees have the option of providing matrix or sample-specific minimum levels rather than the published levels. (40 CFR 122.44(i)(1)(iv))

5. Quality/Assurance/Control

In an effort to assure accurate self-monitoring analyses results:

- a. The permittee, or its designated laboratory, shall participate in the periodic scheduled quality assurance inspections conducted by DEP and EPA. (40 CFR 122.41(e), 122.41(i)(3))
- b. The permittee, or its designated laboratory, shall develop and implement a program to assure the quality and accurateness of the analyses performed to satisfy the requirements of this permit, in accordance with 40 CFR Part 136. (40 CFR 122.41(j)(4))

B. Reporting of Monitoring Results

- 1. The permittee shall effectively monitor the operation and efficiency of all wastewater treatment and control facilities, and the quantity and quality of the discharge(s) as specified in this permit. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.44, 92a.61(i) and 40 CFR §§ 122.41(e), 122.44(i)(1))
- 2. The permittee shall use DEP's electronic Discharge Monitoring Report (eDMR) system to report the results of compliance monitoring under this permit (see www.dep.pa.gov/edmr). Permittees that are not using the eDMR system as of the effective date of this permit shall submit the necessary registration and trading partner agreement forms to DEP's Bureau of Clean Water (BCW) within 30 days of the effective date of this permit and begin using the eDMR system when notified by DEP BCW to do so. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(g) and 40 CFR § 122.41(l)(4))
- 3. Submission of a physical (paper) copy of a Discharge Monitoring Report (DMR) is acceptable under the following circumstances:
 - a. For a permittee that is not yet using the eDMR system, the permittee shall submit a physical copy of a DMR to the DEP regional office that issued the permit during the interim period between the submission of registration and trading partner agreement forms to DEP and DEP's notification to begin using the eDMR system.
 - b. For any permittee, as a contingency a physical DMR may be mailed to the DEP regional office that issued the permit if there are technological malfunction(s) that prevent the successful submission of a DMR through the eDMR system. In such situations, the permittee shall submit the DMR through the eDMR system within 5 days following remedy of the malfunction(s).
- 4. DMRs must be completed in accordance with DEP's published DMR instructions (3800-FM-BPNPSM0463). DMRs must be received by DEP no later than 28 days following the end of the monitoring period. DMRs are based on calendar reporting periods and must be received by DEP in accordance with the following schedule:
 - Monthly DMRs must be received within 28 days following the end of each calendar month.
 - Quarterly DMRs must be received within 28 days following the end of each calendar quarter, i.e.,
 January 28, April 28, July 28, and October 28.
 - Semiannual DMRs must be received within 28 days following the end of each calendar semiannual period, i.e., January 28 and July 28.
 - Annual DMRs must be received by January 28, unless Part C of this permit requires otherwise.
- 5. The permittee shall complete all Supplemental Reporting forms (Supplemental DMRs) attached to this permit, or an approved equivalent, and submit the signed, completed forms as attachments to the DMR, through DEP's eDMR system. DEP's Supplemental Laboratory Accreditation Form (3800-FM-BPNPSM0189) must be completed and submitted to DEP with the first DMR following issuance of this permit, and anytime thereafter when changes to laboratories or methods occur. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(g) and 40 CFR § 122.41(I)(4))
- 6. The completed DMR Form shall be signed and certified by either of the following applicable persons, as defined in 25 Pa. Code § 92a.22:

- For a corporation by a principal executive officer of at least the level of vice president, or an authorized representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.
- For a partnership or sole proprietorship by a general partner or the proprietor, respectively.
- For a municipality, state, federal or other public agency by a principal executive officer or ranking elected official.

If signed by a person other than the above and for co-permittees, written notification of delegation of DMR signatory authority must be submitted to DEP in advance of or along with the relevant DMR form. (40 CFR § 122.22(b))

 If the permittee monitors any pollutant at monitoring points as designated by this permit, using analytical methods described in Part A III.A.4. herein, more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report selfmonitoring data on the DMR. (40 CFR 122.41(I)(4)(ii))

C. Reporting and Notification Requirements

 Planned Changes to Physical Facilities – The permittee shall give notice to DEP as soon as possible but no later than 30 days prior to planned physical alterations or additions to the permitted facility. A permit under 25 Pa. Code Chapter 91 may be required for these situations prior to implementing the planned changes. A permit application, or other written submission to DEP, can be used to satisfy the notification requirements of this section.

Notice is required when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b). (40 CFR 122.41(l)(1)(i))
- b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are not subject to effluent limitations in this permit. (40 CFR 122.41(I)(1)(ii))
- c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. (40 CFR 122.41(I)(1)(iii))
- d. The planned change may result in noncompliance with permit requirements. (40 CFR 122.41(I)(2))
- 2. Planned Changes to Waste Stream Under the authority of 25 Pa. Code § 92a.24(a) and 40 CFR 122.42(b), the permittee shall provide notice to DEP and EPA as soon as possible but no later than 45 days prior to any planned changes in the volume or pollutant concentration of its influent waste stream as a result of indirect discharges or hauled-in wastes, as specified in paragraphs 2.a. and 2.b., below. Notice shall be provided on the "Planned Changes to Waste Stream" Supplemental Report (3800-FM-BPNPSM0482), available on DEP's website. The permittee shall provide information on the quality and quantity of waste introduced into the POTW, and any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW (40 CFR 122.42(b)(3)). The Report shall be sent via Certified Mail or other means to confirm DEP's receipt of the notification. DEP will determine if the submission of a new application and receipt of a new or amended permit is required.
 - a. Introduction of New Pollutants (25 Pa. Code § 92a.24(a), 40 CFR 122.42(b)(1))

New pollutants are defined as parameters that meet one or more of the following criteria:

- (i) Any pollutants that were not detected in the facilities' influent waste stream as reported in the permit application; and have not been approved to be included in the permittee's influent waste stream by DEP in writing.
- (ii) Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants (40 CFR 122.42(b)(1)).

The permittee shall provide notification of the introduction of new pollutants in accordance with paragraph 2 above. The permittee may not authorize the introduction of new pollutants until the permittee receives DEP's written approval.

b. Increased Loading of Approved Pollutants (25 Pa. Code § 92a.24(a), 40 CFR 122.42(b)(2))

Approved pollutants are defined as parameters that meet one or more of the following criteria:

- (i) Were detected in the facilities' influent waste stream as reported in the permittee's permit application; or have been previously approved to be included in the permittee's influent waste stream by DEP in writing.
- (ii) Have an effluent limitation or monitoring requirement in this permit.

The permittee shall provide notification of the introduction of increased influent loading (lbs/day) of approved pollutants in accordance with paragraph 2 above when (1) the cumulative increase in influent loading (lbs/day) exceeds 20% of the maximum loading reported in the permit application, or a loading previously approved by DEP and/or EPA, or (2) may cause an exceedance in the effluent of Effluent Limitation Guidelines (ELGs) or limitations in Part A of this permit, or (3) may cause interference or pass through at the POTW, or (4) may cause exceedances of the applicable water quality standards in the receiving stream. Unless specified otherwise in this permit, if DEP does not respond to the notification within 30 days of its receipt, the permittee may proceed with the increase in loading. The acceptance of increased loading of approved pollutants may not result in an exceedance of ELGs or effluent limitations, may not result in a hydraulic or organic overload condition as defined in 25 Pa. Code § 94.1, and may not cause exceedances of the applicable water quality standards in the receiving stream.

3. Reporting Requirements for Hauled-In Wastes

- a. Receipt of Residual Waste
 - (i) The permittee shall document the receipt of all hauled-in residual wastes (including but not limited to wastewater from oil and gas wells, food processing waste, and landfill leachate), as defined at 25 Pa. Code § 287.1, that are received for processing at the treatment facility. The permittee shall report hauled-in residual wastes on a monthly basis to DEP on the "Hauled In Residual Wastes" Supplemental Report (3800-FM-BPNPSM0450) as an attachment to the DMR. If no residual wastes were received during a month, submission of the Supplemental Report is not required.

The following information is required by the Supplemental Report. The information used to develop the Report shall be retained by the permittee for five years from the date of receipt and must be made available to DEP or EPA upon request.

- (1) The dates that residual wastes were received.
- (2) The volume (gallons) of wastes received.
- (3) The license plate number of the vehicle transporting the waste to the treatment facility.
- (4) The permit number(s) of the well(s) where residual wastes were generated, if applicable.

- (5) The name and address of the generator of the residual wastes.
- (6) The type of wastewater.

The transporter of residual waste must maintain these and other records as part of the daily operational record (25 Pa. Code § 299.219). If the transporter is unable to provide this information or the permittee has not otherwise received the information from the generator, the residual wastes shall not be accepted by the permittee until such time as the permittee receives such information from the transporter or generator.

- (ii) The following conditions apply to the characterization of residual wastes received by the permittee:
 - (1) If the generator is required to complete a chemical analysis of residual wastes in accordance with 25 Pa. Code § 287.51, the permittee must receive and maintain on file a chemical analysis of the residual wastes it receives. The chemical analysis must conform to the Bureau of Waste Management's Form 26R except as noted in paragraph (2), below. Each load of residual waste received must be covered by a chemical analysis if the generator is required to complete it.
 - (2) For wastewater generated from hydraulic fracturing operations ("frac wastewater") within the first 30 production days of a well site, the chemical analysis may be a general frac wastewater characterization approved by DEP. Thereafter, the chemical analysis must be waste-specific and be reported on the Form 26R.

b. Receipt of Municipal Waste

(i) The permittee shall document the receipt of all hauled-in municipal wastes (including but not limited to septage and liquid sewage sludge), as defined at 25 Pa. Code § 271.1, that are received for processing at the treatment facility. The permittee shall report hauled-in municipal wastes on a monthly basis to DEP on the "Hauled In Municipal Wastes" Supplemental Report (3800-FM-BPNPSM0437) as an attachment to the DMR. If no municipal wastes were received during a month, submission of the Supplemental Report is not required.

The following information is required by the Supplemental Report:

- The dates that municipal wastes were received.
- (2) The volume (gallons) of wastes received.
- (3) The BOD₅ concentration (mg/l) and load (lbs) for the wastes received.
- (4) The location(s) where wastes were disposed of within the treatment facility.
- (ii) Sampling and analysis of hauled-in municipal wastes must be completed to characterize the organic strength of the wastes, unless composite sampling of influent wastewater is performed at a location downstream of the point of entry for the wastes. The influent BOD₅ characterization for the treatment facility, as reported in the annual Municipal Wasteload Management Report per 25 Pa. Code Chapter 94, must be representative of the hauled-in municipal wastes received.

- 4. Unanticipated Noncompliance or Potential Pollution Reporting
 - a. Immediate Reporting The permittee shall immediately report any incident causing or threatening pollution in accordance with the requirements of 25 Pa. Code §§ 91.33 and 92a.41(b).
 - (i) If, because of an accident, other activity or incident a toxic substance or another substance which would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property, the permittee shall immediately notify DEP by telephone of the location and nature of the danger. Oral notification to the Department is required as soon as possible, but no later than 4 hours after the permittee becomes aware of the incident causing or threatening pollution.
 - (ii) If reasonably possible to do so, the permittee shall immediately notify downstream users of the waters of the Commonwealth to which the substance was discharged. Such notice shall include the location and nature of the danger.
 - (iii) The permittee shall immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove the residual substances contained thereon or therein from the ground and from the affected waters of this Commonwealth to the extent required by applicable law.
 - b. The permittee shall report any noncompliance which may endanger health or the environment in accordance with the requirements of 40 CFR 122.41(I)(6). These requirements include the following obligations:
 - (i) 24 Hour Reporting The permittee shall orally report any noncompliance with this permit which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which must be reported within 24 hours under this paragraph (40 CFR 122.41(I)(6)(ii)):
 - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
 - (2) Any upset which exceeds any effluent limitation in the permit; and
 - (3) Violation of the maximum daily discharge limitation for any of the pollutants listed in the permit as being subject to the 24-hour reporting requirement.
 - (ii) Written Report A written submission shall also be provided within 5 days of the time the permittee becomes aware of any noncompliance which may endanger health or the environment. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
 - (iii) Waiver of Written Report DEP may waive the written report on a case-by-case basis if the associated oral report has been received within 24 hours from the time the permittee becomes aware of the circumstances which may endanger health or the environment. Unless such a waiver is expressly granted by DEP, the permittee shall submit a written report in accordance with this paragraph. (40 CFR 122.41(I)(6)(iii))

5. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under paragraph C.4 of this section or specific requirements of compliance schedules, at the time DMRs are submitted, on the Non-Compliance Reporting Form (3800-FM-BPNPSM0440). The reports shall contain the information listed in paragraph C.4.b.(ii) of this section. (40 CFR 122.41(I)(7))

PART B

MANAGEMENT REQUIREMENTS

A. Compliance

- 1. The permittee shall comply with all conditions of this permit. If a compliance schedule has been established in this permit, the permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in this permit. (40 CFR 122.41(a)(1))
- 2. The permittee shall submit reports of compliance or noncompliance, or progress reports as applicable, for any interim and final requirements contained in this permit. Such reports shall be submitted no later than 14 days following the applicable schedule date or compliance deadline. (25 Pa. Code § 92a.51(c), 40 CFR 122.47(a)(4))
- B. Permit Modification, Termination, or Revocation and Reissuance
 - 1. This permit may be modified, terminated, or revoked and reissued during its term in accordance with 25 Pa. Code § 92a.72 and 40 CFR 122.41(f).
 - 2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. (40 CFR 122.41(f))
 - 3. In the absence of DEP action to modify or revoke and reissue this permit, the permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time specified in the regulations that establish those standards or prohibitions. (40 CFR 122.41(a)(1))

C. Duty to Provide Information

- 1. The permittee shall furnish to DEP, within a reasonable time, any information which DEP may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. (40 CFR 122.41(h))
- 2. The permittee shall furnish to DEP, upon request, copies of records required to be kept by this permit. (40 CFR 122.41(h))
- 3. Other Information Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to DEP, it shall promptly submit the correct and complete facts or information. (40 CFR 122.41(I)(8))
- 4. The permittee shall provide the following information in the annual Municipal Wasteload Management Report, required under the provisions of Title 25 Pa. Code Chapter 94:
 - a. The requirements identified in 25 Pa. Code § 94.12.
 - b. The identity of any indirect discharger(s) served by the POTW which are subject to pretreatment standards adopted under Section 307(b) of the Clean Water Act; the POTW shall also specify the total volume of discharge and estimated concentration of each pollutant discharged into the POTW by the indirect discharger.
 - c. A "Solids Management Inventory" if specified in Part C of this permit.
 - d. The total volume of hauled-in residual and municipal wastes received during the year, by source.
 - e. The Annual Report requirements for permittees required to implement an industrial pretreatment program listed in Part C, as applicable.

D. General Pretreatment Requirements

- 1. Any POTW (or combination of POTWs operated by the same authority) with a total design flow greater than 5 million gallons per day (MGD) and receiving from industrial users pollutants which pass through or interfere with the operation of the POTW or are otherwise subject to Pretreatment Standards will be required to establish a POTW Pretreatment Program unless specifically exempted by the Approval Authority. A POTW with a design flow of 5 MGD or less may be required to develop a POTW Pretreatment Program if the Approval Authority finds that the nature or volume of the industrial influent, treatment process upsets, violations of effluent limitations, contamination of sludge, or other circumstances warrant in order to prevent interference or pass through. (40 CFR 403.8)
- 2. Each POTW with an approved Pretreatment Program pursuant to 40 CFR 403.8 shall develop and enforce specific limits to implement the prohibitions listed in 40 CFR 403.5(a)(1) and (b), and shall continue to develop these limits as necessary and effectively enforce such limits. This condition applies, for example, when there are planned changes to the waste stream as identified in Part A III.C.2. If the permittee is required to develop or continue implementation of a Pretreatment Program, detailed requirements will be contained in Part C of this permit.
- 3. For all POTWs, where pollutants contributed by indirect dischargers result in interference or pass through, and a violation is likely to recur, the permittee shall develop and enforce specific limits for indirect dischargers and other users, as appropriate, that together with appropriate facility or operational changes, are necessary to ensure renewed or continued compliance with this permit or sludge use or disposal practices. Where POTWs do not have an approved Pretreatment Program, the permittee shall submit a copy of such limits to DEP when developed. (25 Pa. Code § 92a.47(d))

E. Proper Operation and Maintenance

- 1. The permittee shall employ operators certified in compliance with the Water and Wastewater Systems Operators Certification Act (63 P.S. §§ 1001-1015.1).
- 2. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes, but is not limited to, adequate laboratory controls including appropriate quality assurance procedures. This provision also includes the operation of backup or auxiliary facilities or similar systems that are installed by the permittee, only when necessary to achieve compliance with the terms and conditions of this permit. (40 CFR 122.41(e))

F. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge, sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment. (40 CFR 122.41(d))

G. Bypassing

- Bypassing Not Exceeding Permit Limitations The permittee may allow a bypass to occur which does
 not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure
 efficient operation. These bypasses are not subject to the provisions in paragraphs two, three and four
 of this section. (40 CFR 122.41(m)(2))
- 2. Other Bypassing In all other situations, bypassing is prohibited and DEP may take enforcement action against the permittee for bypass unless:
 - a. A bypass is unavoidable to prevent loss of life, personal injury or "severe property damage."
 (40 CFR 122.41(m)(4)(i)(A))

Permit

- b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance. (40 CFR 122.41(m)(4)(i)(B))
- c. The permittee submitted the necessary notice required in paragraph G.4 below. ($\underline{40}$ CFR $\underline{122.41(m)(4)(i)(C)}$)
- 3. DEP may approve an anticipated bypass, after considering its adverse effects, if DEP determines that it will meet the conditions listed in paragraph G.2 above. (40 CFR 122.41(m)(4)(ii))

4. Notice

- a. Anticipated Bypass If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least 10 days before the bypass. (40 CFR 122.41(m)(3)(i))
- b. Unanticipated Bypass The permittee shall submit oral notice of any other unanticipated bypass within 24 hours, regardless of whether the bypass may endanger health or the environment or whether the bypass exceeds effluent limitations. The notice shall be in accordance with Part A III.C.4.b.

H. Sanitary Sewer Overflows (SSOs)

An SSO is an overflow of wastewater, or other untreated discharge from a separate sanitary sewer system (which is not a combined sewer system), which results from a flow in excess of the carrying capacity of the system or from some other cause prior to reaching the headworks of the sewage treatment facility. SSOs are not authorized under this permit. The permittee shall immediately report any SSO to DEP in accordance with Part A III.C.4 of this permit.

II. PENALTIES AND LIABILITY

A. Violations of Permit Conditions

Any person violating Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act or any permit condition or limitation implementing such sections in a permit issued under Section 402 of the Act is subject to civil, administrative and/or criminal penalties as set forth in 40 CFR 122.41(a)(2).

Any person or municipality, who violates any provision of this permit; any rule, regulation or order of DEP; or any condition or limitation of any permit issued pursuant to the Clean Streams Law, is subject to criminal and/or civil penalties as set forth in Sections 602, 603 and 605 of the Clean Streams Law.

B. Falsifying Information

Any person who does any of the following:

- Falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, or
- Knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit (including monitoring reports or reports of compliance or noncompliance)

Shall, upon conviction, be punished by a fine and/or imprisonment as set forth in 18 Pa.C.S.A § 4904 and 40 CFR 122.41(j)(5) and (k)(2).

C. Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance pursuant to Section 309 of the Clean Water Act or Sections 602, 603 or 605 of the Clean Streams Law.

Nothing in this permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject to under the Clean Water Act and the Clean Streams Law.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (40 CFR 122.41(c))

III. OTHER RESPONSIBILITIES

A. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law, and Title 25 Pa. Code Chapter 92a and 40 CFR 122.41(i), the permittee shall allow authorized representatives of DEP and EPA, upon the presentation of credentials and other documents as may be required by law:

- 1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; (40 CFR 122.41(i)(1))
- 2. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit; (40 CFR 122.41(i)(2))
- 3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and (40 CFR 122.41(i)(3))
- 4. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or the Clean Streams Law, any substances or parameters at any location. (40 CFR 122.41(i)(4))

B. Transfer of Permits

- 1. Transfers by modification. Except as provided in paragraph 2 of this section, a permit may be transferred by the permittee to a new owner or operator only if this permit has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act. (40 CFR 122.61(a))
- 2. Automatic transfers. As an alternative to transfers under paragraph 1 of this section, any NPDES permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies DEP at least 30 days in advance of the proposed transfer date in paragraph 2.b. of this section; (40 CFR 122.61(b)(1))
 - b. The notice includes the appropriate DEP transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between them; and (40 CFR 122.61(b)(2))
 - c. DEP does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue this permit, the transfer is effective on the date specified in the agreement mentioned in paragraph 2.b. of this section. (40 CFR 122.61(b)(3))

- d. The new permittee is in compliance with existing DEP issued permits, regulations, orders and schedules of compliance, or has demonstrated that any noncompliance with the existing permits has been resolved by an appropriate compliance action or by the terms and conditions of the permit (including compliance schedules set forth in the permit), consistent with 25 Pa. Code § 92a.51 (relating to schedules of compliance) and other appropriate Department regulations. (25 Pa. Code § 92a.71)
- 3. In the event DEP does not approve transfer of this permit, the new owner or operator must submit a new permit application.

C. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege. (40 CFR 122.41(g))

D. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit. (40 CFR 122.41(b))

E. Other Laws

The issuance of this permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations.

IV. ANNUAL FEE

Permittees shall pay an annual fee in accordance with 25 Pa. Code § 92a.62. Annual fee amounts are specified in the following schedule and are due on each anniversary of the effective date of the most recent new or reissued permit. All flows identified in the schedule are annual average design flows. (25 Pa. Code § 92a.62)

Small Flow Treatment Facility (SRSTP and SFTF)	\$0
Minor Sewage Facility < 0.05 MGD (million gallons per day)	\$250
Minor Sewage Facility ≥ 0.05 and < 1 MGD	\$500
Minor Sewage Facility with CSO (Combined Sewer Overflow)	\$750
Major Sewage Facility ≥ 1 and < 5 MGD	\$1,250
Major Sewage Facility ≥ 5 MGD	\$2,500
Major Sewage Facility with CSO	\$5,000

As of the effective date of this permit, the facility covered by the permit is classified in the following fee category: Major Sewage Facility >=5 MGD.

Invoices for annual fees will be mailed to permittees approximately three months prior to the due date. In the event that an invoice is not received, the permittee is nonetheless responsible for payment. Throughout a five year permit term, permittees will pay four annual fees followed by a permit renewal application fee in the last year of permit coverage. Permittees may contact the DEP at 717-787-6744 with questions related to annual fees. The fees identified above are subject to change in accordance with 25 Pa. Code § 92a.62(e).

Payment for annual fees shall be remitted to DEP at the address below by the anniversary date. Checks should be made payable to the Commonwealth of Pennsylvania.

PA Department of Environmental Protection Bureau of Clean Water Re: Chapter 92a Annual Fee P.O. Box 8466 Harrisburg, PA 17105-8466

PART C

I. CHESAPEAKE BAY NUTRIENT REQUIREMENTS

A. The Annual Net Total Nitrogen (TN) and Annual Net Total Phosphorus (TP) Mass Load effluent limitations ("Cap Loads") in Part A of this permit are required in order to meet the downstream water quality standards of the State of Maryland, as required by 25 Pa. Code Chapter 92a, the federal Clean Water Act, and implementing regulations.

B. Definitions

Annual Net Mass Load (lbs): The sum of Monthly Total Mass Loads for one year beginning October 1st and ending September 30th, adjusted for credits sold and applied and offsets applied. Annual Net Mass Loads are compared to Cap Loads to determine compliance.

Cap Load (lbs): The mass load of a pollutant authorized by an NPDES permit. Cap Loads for TN and TP are implemented in NPDES permits by the establishment of Annual Net Mass Load limits. The term "Net" is used to recognize that Credits and Offsets may be used to comply with the limits. The Annual Net Mass Load must be less than or equal to the Cap Load to achieve compliance.

Certification: Written approval by DEP of a proposed pollutant reduction activity to generate credits before the credits are verified and registered to be used to comply with NPDES permit effluent limitations.

Compliance Year: The year-long period starting October 1st and ending September 30th. The Compliance Year will be named for the year in which it ends. For example, the period of October 1, 2015 through September 30, 2016 is compliance year 2016.

Credit: The tradable unit of compliance that corresponds with a unit of reduction of a pollutant as recognized by DEP which, when certified, verified and registered, may be used to comply with NPDES permit effluent limitations.

Delivery Ratio: A ratio that compensates for the natural attenuation of a pollutant as it travels in water before it reaches a defined compliance point.

Offset: The pollutant load reduction measured in pounds (lbs) that is created by an action, activity or technology which when approved by DEP may be used to comply with NPDES permit effluent limitations, conditions and stipulations under 25 Pa. Code Chapter 92a (relating to NPDES permitting, monitoring and compliance.) The offset may only be used by the NPDES permittee that DEP determines is associated with the load reduction achieved by the action, activity or technology.

Registration: An accounting mechanism used by DEP to track certified and verified credits before they may be used to comply with NPDES permit effluent limitations.

Total Mass Load (lbs):

Monthly Total Mass Load = The sum of the actual daily discharge loads for TN and TP (lbs/day) divided by the number of samples per month, multiplied by the number of days in the month in which there was a discharge. The daily discharge load for TN and TP (lbs/day) equals the average daily flow (MGD) on the day of sampling, multiplied by that day's sample concentration for TN and TP (mg/l), multiplied by 8.34.

<u>Annual</u> Total Mass Load = The sum of the Monthly Total Mass Loads for one year beginning October 1st and ending September 30th.

Total Nitrogen: For concentration and load, Total Nitrogen is the sum of Total Kjeldahl-N (TKN) plus Nitrite-Nitrate as N (NO₂+NO₃-N), where TKN and NO₂+NO₃-N are measured in the same sample.

Truing Period: The time provided following each Compliance Year for a permittee to comply with Cap Loads through the application of Credits and Offsets. The Truing Period will start on October 1st and end on November 28th of the same calendar year, unless DEP extends this period. During this period, compliance for the specified year may be achieved by using registered Credits that were generated during that Compliance Year. For example, Credits that are used to achieve compliance in Compliance Year 2016 must have been generated during Compliance Year 2016. Approved Offsets that have been generated may also be applied during the Truing Period.

Verification: Assurance that the verification plan contained in a certification, permit or other approval issued by DEP has been implemented. Verification is required prior to registration of the credits for use in an NPDES permit to comply with NPDES permit effluent limitations.

C. Nutrient Credits

- Credits may be used for compliance with the Cap Loads when authorized under 25 Pa. Code § 96.8 (Use of offsets and tradable credits from pollution reduction activities in the Chesapeake Bay Watershed), including amendments, updates and revisions thereto; in accordance with DEP's Phase 2 WIP Wastewater Supplement (see www.dep.pa.gov/npdes-bay); and in accordance with DEP's Phase 2 WIP Nutrient Trading Supplement (see www.dep.pa.gov/nutrient_trading).
- 2. Where effluent limitations for TN and/or TP are established in Part A of the permit for reasons other than the Cap Load assigned for protection of the Chesapeake Bay ("local nutrient limits"), the permittee may purchase and apply credits for compliance with the Cap Load(s) only when the permittee has demonstrated that local nutrient limits have been achieved.
- 3. Where local nutrient limits are established in Part A of the permit, the permittee may sell any credits generated only after the permittee has demonstrated that local nutrient limits have been achieved and those credits have been verified in accordance with the procedures established in the Phase 2 WIP Nutrient Trading Supplement.

D. Use of Offsets for Compliance

- Offsets can only be used by the permittee to comply with its Cap Loads. Offsets are not eligible for use as Credits.
- 2. Offsets must be approved by DEP in writing before they may be applied for compliance with Cap Loads.
- Offsets that are approved under this permit are listed in Part A, Footnotes. These Offsets may be applied each Compliance Year toward compliance with the Cap Loads. The application of these Offsets must be reported on an annual basis. Additional Offsets may be approved throughout the permit term.
- 4. Offsets may be approved for the connection of on-lot sewage disposal systems that existed prior to January 1, 2003 to public sewers. Twenty five pounds (25 lbs) of TN Offsets per year may be approved for each on-lot system retirement. These approved Offsets are cumulative. For example, if 10 on-lot systems are retired in year 1 (250 lbs TN approved Offsets) and 10 on-lot systems are retired in year 2, 500 lbs TN Offsets may be used toward compliance with the TN Cap Load in year 2 and thereafter.
- 5. For DEP to approve on-lot system retirement Offsets, the permittee must submit documentation indicating the on-lot systems existed prior to January 1, 2003 and were eliminated by connection to public sewers after January 1, 2003. This documentation must be retained by the permittee for as long as the Offsets are used to achieve compliance with Cap Loads.
- 6. Offsets may be approved for the transfer of load between facilities owned by the same entity if (1) the facility receiving Offsets does not discharge to waters classified as impaired for nutrients and (2) the Delivery Ratios approved by DEP for TN or TP, as applicable, are the same. Delivery ratios for the

facility authorized to discharge under this permit are listed in DEP's Phase 2 Watershed Implementation Plan (WIP) Wastewater Supplement, available at the following website:

www.dep.pa.gov/npdes-bay

Such Offsets may only be applied in the Compliance Year in which the transfer occurred, and are not cumulative.

7. Offsets may be approved for the acceptance of hauled-in septage at the permittee's facility from residential sources within the municipal Act 537 planning area. Three pounds (3 lbs) of TN Offsets per year may be approved per 1,000 gallons of septage accepted and processed at the facility. Offsets may be approved for the acceptance of residential septage only. For the purpose of these Offsets, septage is defined as material removed from a septic tank by pumping. No other hauled-in wastes, including but not limited to holding tank wastes, solids and sludges generated at other facilities, may be approved. Such approved Offsets may only be applied in the Compliance Year in which the septage was accepted, and are not cumulative.

E. Reporting Requirements

- 1. eDMR System The permittee shall utilize DEP's electronic Discharge Monitoring Report (eDMR) system to submit DMR data and Supplemental DMR forms.
- 2. Supplemental Reports The permittee shall utilize DEP's Annual Chesapeake Bay Spreadsheet ("Spreadsheet"), available at www.dep.pa.gov/npdes-bay, to record all nutrient concentrations and loads throughout the Compliance Year. The permittee shall also use the Spreadsheet to document all Credits sold and purchased and Offsets applied in order to calculate the facility's Annual Net Mass Loads for TN and TP. The permittee shall submit the Spreadsheet through the eDMR system at the time the Annual DMR is submitted.

II. POTW PRETREATMENT PROGRAM IMPLEMENTATION

- A. General Requirement The permittee shall operate and implement a POTW pretreatment program in accordance with the federal Clean Water Act, the Pennsylvania Clean Streams Law, and the federal General Pretreatment Regulations at 40 CFR Part 403. The program shall also be implemented in accordance with the permittee's approved pretreatment program and any modifications thereto submitted by the permittee and approved by the Approval Authority.
- B. Annual Report and Other Requirements The permittee shall submit a Pretreatment Annual Report by March 31 of each year to EPA that describes the permittee's pretreatment activities for the previous calendar year. The Pretreatment Annual Report shall include a description of pretreatment activities in all municipalities from which wastewater is received at the permittee's POTW. The Pretreatment Annual Report shall include the following information, at minimum:
 - 1. Industrial Listing The Annual Report shall contain an updated industrial listing providing the names and addresses of all current Significant Industrial Users (SIUs) and Non-Significant Categorical Industrial Users (NSCIUs), as defined in 40 CFR 403.3, and the categorical standard, if any, applicable to each. The listing must: (1) identify any users that are subject to reduced reporting requirements under 40 CFR 403.12(e)(3); (2) identify which users are NSCIUs; (3) identify any users that have been granted a monitoring waiver in accordance with 40 CFR 403.12(e)(2) as well as the pollutants for which the waiver was granted and the date of the last POTW sampling event for each pollutant; and (4) identify any categorical industrial users that have been given mass-based limits in place of concentration-based categorical limits in accordance with 40 CFR 403.6(c)(5) or concentration-based limits in place of mass-based categorical limits in accordance with 40 CFR 403.6(c)(6).

In addition, the Annual Report shall contain a summary of any hauled-in wastes accepted at the POTW including the source of the wastes (domestic, commercial or industrial) and the receiving location for acceptance of the wastes. For each industrial source (whether or not classified as an SIU), the report shall indicate (1) the name and address of the industrial source; (2) the average daily amount of

wastewater received; (3) a brief description of the type of process operations conducted at the industrial facility; (4) whether the source facility is a categorical industrial user (including NSCIU), significant industrial users, or non-significant industrial user; and (5) any controls imposed on the user.

- Control Mechanism Issuance The Annual Report shall contain a summary of SIU control mechanism issuance, including a list of issuance, effective, and expiration dates for each SIU control mechanism. For each general control mechanism issued, provide the names of all SIUs covered by the general control mechanism and an explanation of how the users meet the criteria of 40 CFR 403.8(f)(1)(iii)(A) for issuance of a general control mechanism.
- 3. Sampling and Inspection The Annual Report shall contain a summary of the number and types of inspections and sampling events of SIUs by the permittee, including a list of all SIUs either not sampled or not inspected, and the reason that the sampling and/or inspection was not conducted. For any user subject to reduced reporting under 40 CFR 403.12(e)(3), the list shall include the date of the last POTW sampling event and the date of the last POTW inspection of the user. In addition, the report shall include a summary of the number of self-monitoring events conducted by each SIU and the number required to be conducted, including a list of all SIUs that did not submit the required number of reports and the reason why the reports were not submitted. For NSCIUs, the report shall provide the date of the compliance certification required under 40 CFR 403.12(q).
- 4. Industrial User Compliance and POTW Enforcement The Annual Report shall contain a summary of the number and type of violations of pretreatment standards and requirements, including local limits, and the actions taken by the permittee to obtain compliance, including compliance schedules, penalty assessments and actions for injunctive relief. The report shall state whether each SIU was in significant noncompliance, as that term is defined in 40 CFR Section 403.8(f)(2)(viii), and include the parameter(s) in violation, the period of violation, the actions taken by the POTW in response to the violations, and the compliance status at the end of the reporting period. A copy of the publication of users meeting the significant noncompliance criteria shall be included. In addition, the report shall provide a list of users previously designated as NSCIUs that have violated (to any extent) any pretreatment standard or requirement during the year and the date and description of the violation(s).
- 5. Summary of POTW Operations The Annual Report shall contain a summary of any interference, pass-through, or permit violations by the POTW and indicate the following: (1) which, if any, permit violations may be attributed to industrial users; (2) which IU(s) are responsible for such violations; and (3) the actions taken to address these events. The report shall also include all sampling and analysis of POTW treatment plant influent, effluent, and sludge conducted during the year for local limit and priority pollutants identified pursuant to Section 303(d) of the Clean Water Act, 33 U.S.C. 1313(d).
- 6. Pretreatment Program Changes The Annual Report shall contain a summary of any changes made or proposed to the approved program during the period covered by the report and the date of submission to the Approval Authority.

A summary of pretreatment activities shall be incorporated into the permittee's Annual Municipal Wasteload Management Report required by 25 Pa. Code Chapter 94 and referenced in Part B I.C.4 of this permit.

- C. Routine Monitoring The permittee shall conduct monitoring at its treatment plant that, at a minimum, includes quarterly influent, effluent, and sludge analysis for all pollutants for which local limits have been established, and an annual priority pollutant scan for influent and sludge.
- D. Notification of Pass Through or Interference The permittee shall notify EPA and DEP, in writing, of any instance of pass through or interference, as defined at 40 CFR 403.3(p) and (k), respectively, known or suspected to be related to a discharge from an IU into the POTW. The notification shall be attached to the DMR submitted to EPA and DEP and shall describe the incident, including the date, time, length, cause (including responsible user if known), and the steps taken by the permittee and IU (if identified) to address the incident. A copy of the notification shall also be sent to the EPA at the address provided below.

- E. Headworks Analysis The permittee shall submit to EPA a reevaluation of its local limits based on a headworks analysis of its treatment plant within one (1) year of permit issuance, and provide a revised submission within three (3) months of receipt of comments from EPA or DEP unless a longer period of time is granted in writing by EPA or DEP. In order to ensure that the permittee's discharge complies with water quality standards, the reevaluation of local limits shall consider, at a minimum, all water quality standards under 25 Pa. Code Chapter 93 applicable to the pollutants included in the reevaluation, unless the POTW is subject to an effluent limitation for the pollutant in Part A of this permit. The list of pollutants to be evaluated, as well as a sampling plan for collection of necessary data, shall be submitted to EPA within three (3) months of permit issuance. Unless otherwise approved in writing, the list of pollutants shall include arsenic, cadmium, chromium, copper, cyanide, lead, mercury, molybdenum, nickel, selenium, silver, zinc, BOD₅, TSS, ammonia, any pollutants for which a local limit currently exists, any pollutant limited in this permit, as well as any other pollutants that have been identified in the POTW through monitoring or the receipt of indirect discharges and hauled-in wastes in quantities that have the potential to cause pass through and/or interference. For example, facilities receiving residual waste from oil and gas operations should include pollutants such as Total Dissolved Solids (TDS), specific ions such as chlorides and sulfates, specific radionuclides, metals such as barium and strontium, and other pollutants that could reasonably be expected to be present. Within four (4) months of acceptance of the headworks analysis by the Approval Authority, the permittee shall adopt the revised local limits and, if necessary to ensure that the limits are enforceable throughout the service area, notify all contributing municipalities of the need to adopt the revised local limits.
- F. Changes to Pretreatment Program EPA and DEP may require the permittee to submit for approval changes to its pretreatment program if any one or more of the following conditions is present:
 - 1. The program is not implemented in accordance with 40 CFR Part 403;
 - 2. Problems such as interference, pass through or sludge contamination develop or continue;
 - 3. The POTW proposes to introduce new pollutants or an increased loading of approved pollutants as described in Part A III.C.2 of this permit;
 - 4. Federal, State, or local requirements change;
 - 5. Changes are needed to assure protection of waters of the Commonwealth.

Program modification is necessary whenever there is a significant change in the operation of the pretreatment program that differs from the information contained in the permittee's submission, as approved under 40 CFR 403.11.

- G. Procedure for Pretreatment Program Changes Upon submittal by the permittee, and written notice of approval by the Approval Authority to the permittee of any changes to the permittee's approved pretreatment program, such changes are effective and binding upon the permittee unless the permittee objects within 30 days of receipt of the written notice of approval. Any objection must be submitted in writing to EPA and DEP.
- H. Correspondence The Approval Authority shall be EPA at the following address:

Pretreatment Coordinator (3WP41) U.S. Environmental Protection Agency 1650 Arch Street Philadelphia, PA 19103-2029

III. SOLIDS MANAGEMENT

A. The permittee shall manage and properly dispose of sewage sludge and/or biosolids by performing sludge wasting that maintains an appropriate mass balance of solids within the treatment system. The wasting rate must be developed and implemented considering the specific treatment process type, system

loadings, and seasonal variation while maintaining compliance with effluent limitations. Holding excess sludge within clarifiers or in the disinfection process is not permissible.

- B. The permittee shall submit the Supplemental Reports entitled, "Supplemental Report Sewage Sludge/Biosolids Production and Disposal" (Form No. 3800-FM-BPNPSM0438) and "Supplemental Report Influent & Process Control" (Form No. 3800-FM-BPNPSM0436), as attachments to the DMR on a monthly basis. When applicable, the permittee shall submit the Supplemental Reports entitled, "Supplemental Report Hauled In Municipal Wastes" (Form No. 3800-FM-BPNPSM0437) and "Supplemental Report Hauled In Residual Wastes" (Form No. 3800-FM-BPNPSM0450), as attachments to the DMR.
- C. By March 31 of each year, the permittee shall submit a "Sewage Sludge Management Inventory" that summarizes the amount of sewage sludge and/or biosolids produced and wasted during the calendar year from the system. The "Sewage Sludge Management Inventory" may be submitted with the Municipal Wasteload Management Report required by Chapter 94. This summary shall include the expected sewage sludge production (estimated using the methodology described in the U.S. EPA handbook, "Improving POTW Performance Using the Composite Correction Approach" (EPA-625/6-84-008)), compared with the actual amount disposed during the year. Sludge quantities shall be expressed as dry weight in addition to gallons or other appropriate units.

IV. WHOLE EFFLUENT TOXICITY (WET)

A. General Requirements

- 1. The permittee shall conduct Chronic WET tests as specified in this section. The permittee shall collect discharge samples and perform WET tests to generate chronic survival and reproduction data for the cladoceran, *Ceriodaphnia dubia* and chronic survival and growth data for the fathead minnow, *Pimephales promelas*.
- 2. Samples shall be collected at Outfall 002 in accordance with paragraph E.
- 3. The permittee shall perform testing using the following dilution series: **14**%, **27**%, **54**%, **77**%, and **100**% effluent, with a control, where **54**% is the facility-specific Target In-Stream Waste Concentration (TIWC).
- 4. The determination of whether a test endpoint passes or fails shall be made using DEP's WET Analysis Spreadsheet (available at www.depweb.state.pa.us/wett) by comparing replicate data for the control with replicate data for the TIWC dilution or any dilution greater than the TIWC.
- 5. The permittee shall submit only valid WET test results to DEP.

B. Test Frequency and Reporting

- 1. WET testing shall be conducted annually, at a minimum, during the period January 1 December 31. Annual WET tests must be completed at least 6 months apart, and shall start in the year the permit becomes effective if the permit effective date is prior to October 1.
- A complete WET test report shall be submitted to the DEP regional office that issued the permit within 45 days of test completion. A complete WET test report submission shall include the information contained in paragraph H, below. The permittee shall continue annual WET monitoring, at a minimum, during the permit renewal review period and during any period of administrative extension of this permit.
- 3. If a test failure is determined for any endpoint during annual monitoring, the permittee shall initiate a re-test for the species with the failure within 45 days of test completion. All endpoints for the species shall be evaluated in the re-test. The results of the re-test shall be submitted to the DEP regional office that issued the permit.

- 4. If a passing result is determined for all endpoints in a re-test, the permittee may resume annual monitoring.
- 5. If there is a failure for one or more endpoints in a re-test, the permittee shall initiate or continue quarterly WET testing for both species until there are four consecutive passing results for all endpoints. The results of all tests shall be submitted to the DEP regional office that issued the permit. In addition, the permittee shall initiate a Phase I Toxicity Reduction Evaluation (TRE) as specified in paragraph C, below.
- 6. The permittee shall attach the WET Analysis Spreadsheet for the latest four consecutive WET tests to the NPDES permit renewal application that is submitted to DEP at least 180 days prior to the permit expiration date.

C. Phase I Toxicity Reduction Evaluation (TRE)

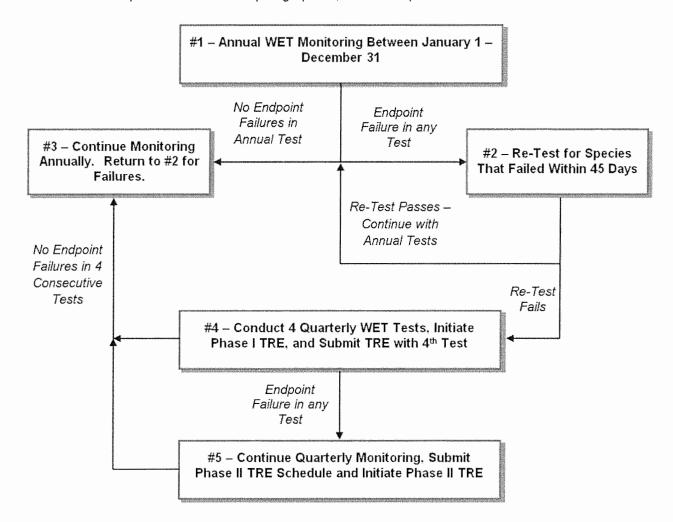
- 1. The Phase I TRE trigger is one WET endpoint failure followed by a re-test that confirms the failure for the same species. When the TRE process is triggered, quarterly WET testing shall be initiated for both species until there are four consecutive passing results for all endpoints. The Phase I TRE may include a Toxicity Identification Evaluation (TIE) if the permittee cannot immediately identify the possible causes of the effluent toxicity and the possible sources of the causative agents.
- 2. The permittee shall, within one year following the Phase I TRE trigger, submit a Phase I TRE report to the DEP regional office that issued the permit. The Phase I TRE shall be conducted in accordance with EPA's guidance, "Toxicity Reduction Evaluation for Municipal Wastewater Treatment Plants" (EPA/833B-99/002), "Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations" (EPA/600/2-88/070), and other relevant EPA guidance, as applicable. If a TIE is conducted as part of the Phase I TRE, it shall conform to EPA's guidance, "Methods for Aquatic Toxicity Identification Evaluations Phase I" (EPA/600/6-91/003), "Phase II" (EPA/600/R-92/080), "Phase III" (EPA/600/R-92/081) and other relevant EPA guidance. The Phase I TRE report shall be submitted with the fourth quarterly WET test report that is completed following the Phase I TRE trigger. The TRE shall include all activities undertaken to identify the cause(s) and source(s) of toxicity and any control efforts.
- 3. If all four quarterly WET tests produce passing results for all endpoints during the Phase I TRE process, performance of a Phase II TRE is not required, and annual WET testing in accordance with paragraph B.1 may resume.
- 4. If the four WET tests produce at least one failing result during the Phase I TRE process, the permittee shall continue quarterly WETT monitoring for both species and initiate a Phase II TRE in accordance with paragraph D. In this case, the Phase I TRE must include a schedule for completion of the Phase II TRE. The schedule must include interim milestones and a final completion date not to exceed two years from the initiation of the Phase II TRE. The permittee shall implement the Phase II TRE in accordance with the schedule unless DEP issues written approval to modify the schedule or cease performance of the Phase II TRE.
- 5. Re-tests during the TRE process are required for invalid tests but are optional and at the discretion of the permittee for valid tests. The results of all re-tests must be submitted to the DEP regional office that issued the permit along with the required elements in paragraph H.

D. Phase II Toxicity Reduction Evaluation (TRE)

1. The Phase II TRE trigger is one WET endpoint failure during performance of the Phase I TRE. A Phase II TRE, if required, shall conform to EPA's guidance, "Toxicity Reduction Evaluation for Municipal Wastewater Treatment Plants" (EPA/833B-99/002), "Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations" (EPA/600/2-88/070), and other relevant EPA guidance, as applicable. A Phase II TRE evaluates the possible control options to reduce or eliminate the effluent toxicity and the implementation of controls.

- Once initiated, the Phase II TRE must continue until the source(s) of toxicity are controlled as
 evidenced by four consecutive WET test passing results for all endpoints, and a final TRE report must
 be submitted on or before the date specified in the schedule, unless otherwise approved by DEP in
 writing.
- 3. If four consecutive quarterly WET tests produce passing results for all endpoints during the Phase II TRE process, annual WET testing in accordance with paragraph B.1 may be initiated or resume.

An overview of the process described in paragraphs B, C and D is presented below:



E. Sample Collection

For each acute testing event, a 24-hour flow-proportioned composite sample shall be collected. For each chronic testing event, three 24-hour flow-proportioned, composite samples shall be collected over a seven day exposure period. The samples must be collected at a frequency of not greater than every two hours and must be flow-proportioned. The samples must be collected at the permit compliance sampling location. Samples must be analyzed within 36 hours from the end of the compositing period and must be placed on ice and held at \leq 6°C. Refer to the sample handling and preservation regulations set forth in 40 CFR 136, 25 Pa. Code Chapter 252, The NELAC Institute (TNI) Standard, and the appropriate EPA methods.

F. Test Conditions and Methods

Laboratories must be accredited by the DEP Laboratory Accreditation Program in order to perform and report WET tests for NPDES permit compliance. Laboratories must be either State or NELAP accredited.

- 1. Acute tests shall be completed in accordance with EPA's "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms" (EPA-821-R-02-012, latest edition). Forty eight (48) hour static non-renewal tests shall be used.
- 2. Chronic tests shall be completed in accordance with EPA's "Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms" (EPA-821-R-02-013, latest edition). Seven (7) day tests shall be used with renewal every 24 hours.
- 3. The quality assurance and control (QA/QC) requirements and test acceptability standards specified in EPA's test methods and the requirements set forth in 25 Pa Code Chapter 252 or the TNI Standard must be followed.
- 4. If the permittee or its accredited laboratory determines that QA/QC requirements and/or test acceptability standards have not been met, a re-test shall be initiated within 45 days. Original test data must be maintained by the laboratory and be submitted to DEP upon request. The justification for a re-test must be clearly documented and kept on file with the sample results.

G. Chemical Analyses

Chemical analyses must follow the requirements of the EPA methods and applicable State and/or Federal regulations.

- 1. Chemical analysis on effluent samples shall include pH, Conductivity, Total Alkalinity, Total Hardness, Total Residual Chlorine, Total Ammonia (Unionized Ammonia), Dissolved Oxygen and temperature. Chemical analyses as described in the EPA Methods (above) shall be performed for each sampling event, including each new batch of dilution water and each testing event.
- 2. In addition to the chemical analyses required above, those parameters listed in Part A of the NPDES permit for the outfall(s) tested shall be analyzed concurrently with the WET test by using the method(s) specified in the permit.

H. WET Report Elements

WET test reports that are submitted to DEP must include the requirements identified in 25 Pa. Code § 252.401(j)(1) – (15) or in the TNI Standard, or equivalent, as well as the following information:

- 1. A general test description, including the origin and age of test organisms, dates and results of reference toxicant tests, light and temperature regimes, and other documentation that QA and test acceptability criteria as specified in EPA's methods and DEP's QA Summaries have been met.
- 2. A description of sample collection procedures and sampling location.
- 3. Name(s) of individual(s) collecting and transporting samples, including sample renewals, and the date(s) and time(s) of sample collection.
- 4. All chemical and physical data including laboratory quantitation limits and observations made on the species. The hardness shall be reported for each test condition.
- 5. Copies of raw data sheets and/or bench sheets with data entries and signatures.
- 6. When effluents are dechlorinated, dechlorination procedures must be described and if applicable a thiosulfate control used in addition to the normal dilution water control. If the thiosulfate control results are significantly different from the normal control, as determined using DEP's WET Analysis Spreadsheet, the thiosulfate control shall be used in the spreadsheet for comparison with the TIWC condition. The WET report must specify which control was used to determine whether the test result is pass or fail.

- 7. A description of all observations or test conditions that may have affected the test outcome.
- 8. Control charts for the species tested regarding age, temperature test range, mortality data and all reference toxicant tests.
- 9. A completed WET test summary report (3800-FM-BPNPSM0485).
- 10. A DEP WET Analysis Spreadsheet printout that provides control and TIWC replicate data and displays the outcome of the test (pass or fail) for each endpoint tested.

WETT reports shall be submitted to the DEP regional office that issued the permit and, for discharges to the Delaware River basin, the Delaware River Basin Commission (DRBC).

V. REQUIREMENTS APPLICABLE TO STORMWATER OUTFALLS

A. The permittee is authorized to discharge non-polluting stormwater from its site, alone or in combination with other wastewaters, through the following outfalls:

Outfall No.	Latitude	Longitude	Receiving Water(s)
001	39° 59' 08"	76° 43' 25"	Codorus Creek
003	39° 59' 17"	76° 43′ 37"	UNT to Codorus Creek
004	39° 59' 19"	76° 43′ 38"	UNT to Codorus Creek
005	39° 59' 20"	76° 43' 36"	UNT to Codorus Creek
006	39° 59' 20"	76° 43' 32"	UNT to Codorus Creek
007	39° 59' 23"	76° 43' 32"	UNT to Codorus Creek
008	39° 59' 06"	76° 43' 24"	Codorus Creek

Monitoring requirements and effluent limitations for these outfalls are specified in Part A of this permit, if applicable.

- B. Preparedness, Prevention and Contingency (PPC) Plan
 - 1. The permittee shall develop and implement a PPC Plan in accordance with 25 Pa. Code § 91.34 following the guidance contained in DEP's "Guidelines for the Development and Implementation of Environmental Emergency Response Plans" (DEP ID 400-2200-001), its NPDES-specific addendum and the minimum requirements below.
 - a. The PPC Plan must identify all potential sources of pollutants that may reasonably be expected to affect the quality of stormwater discharges from the facility.
 - b. The PPC Plan must describe preventative measures and BMPs that will be implemented to reduce or eliminate pollutants from coming into contact with stormwater resulting from routine site activities and spills.
 - c. The PPC Plan must address actions that will be taken in response to on-site spills or other pollution incidents.
 - d. The PPC Plan must identify areas which, due to topography or other factors, have a high potential for soil erosion, and identify measures to limit erosion. Where necessary, erosion and sediment control measures must be developed and implemented in accordance with 25 Pa. Code Chapter 102 and DEP's "Erosion and Sediment Pollution Control Manual" (DEP ID 363-2134-008).
 - e. The PPC Plan must address security measures to prevent accidental or intentional entry which could result in an unintentional discharge of pollutants.
 - f. The PPC Plan must include a plan for training employees and contractors on pollution prevention, BMPs, and emergency response measures.

- g. If the facility is subject to SARA Title III, Section 313, the PPC Plan must identify releases of "Water Priority Chemicals" within the previous three years. Water Priority Chemicals are those identified in EPA's "Guidance for the Determination of Appropriate Methods for the Detection of Section 313 Water Priority Chemicals" (EPA 833-B-94-001, April 1994). The Plan must include an evaluation of all activities that may result in the stormwater discharge of Water Priority Chemicals.
- h. Spill Prevention Control and Countermeasure (SPCC) plans may be used to meet the requirements of this section if the minimum requirements are addressed.
- 2. The permittee shall review and if necessary update the PPC Plan on an annual basis, at a minimum, and when one or more of the following occur:
 - a. Applicable DEP or federal regulations are revised, or this permit is revised.
 - b. The PPC Plan fails in an emergency.
 - c. The facility's design, industrial process, operation, maintenance, or other circumstances change in a manner that materially increases the potential for fires, explosions or releases of toxic or hazardous constituents; or which changes the response necessary in an emergency.
 - d. The list of emergency coordinators or equipment changes.
 - e. When notified in writing by DEP.

The permittee shall maintain all PPC Plan updates on-site, make the updates available to DEP upon request.

C. Minimum Required BMPs

In addition to BMPs identified in the PPC Plan, the permittee shall implement the following minimum BMPs relating to stormwater pollution prevention:

- 1. If applicable, post-construction stormwater BMPs that are required under 25 Pa. Code Chapter 102 must be maintained.
- 2. Manage sludge in accordance with all applicable permit requirements.
- 3. Store chemicals in secure and covered areas on impervious surfaces away from storm drains.
- 4. For new facilities and upgrades, design wastewater treatment facilities to avoid, to the maximum extent practicable, stormwater commingling with sanitary wastewater, sewage sludge, and biosolids.
- 5. Efficiently use herbicides for weed control. Where practicable, use the least toxic herbicide that will achieve pest management objectives. Do not apply during windy conditions.
- 6. Do not wash parts or equipment over impervious surfaces that wash into storm drains.
- 7. Implement infiltration techniques, including infiltration basins, trenches, dry wells, porous pavement, etc., wherever practicabl

D. Routine Inspections.

Areas contributing to a stormwater discharge associated with industrial activity shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. BMPs in the PPC Plan and required by this permit shall be inspected on a semiannual basis, at a minimum, to determine whether they are adequate and properly implemented in accordance with the terms of this permit or whether additional control measures are needed. Documentation of inspections shall be maintained on-site and be made

available to DEP upon request.

E. Stormwater Sampling Requirements

If stormwater sampling is required in Part A of this permit, the following requirements apply:

- 1. All samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The 72-hour storm interval is waived when the preceding storm did not yield a measurable discharge, or if the permittee is able to document that a less than 72-hour interval is representative for local storm events during the sample period.
- 2. Grab samples shall be taken during the first 30 minutes of the discharge. If the collection of a grab sample during the first 30 minutes is not possible, a grab sample can be taken during the first hour of the discharge, in which case the discharger shall provide an explanation of why a grab sample during the first 30 minutes was not possible.

VI. OTHER REQUIREMENTS

- A. No storm water from pavements, area ways, roofs, foundation drains or other sources shall be directly admitted to the sanitary sewers associated with the herein approved discharge.
- B. The approval herein given is specifically made contingent upon the permittee acquiring all necessary property rights by easement or otherwise, providing for the satisfactory construction, operation, maintenance or replacement of all sewers or sewerage structures associated with the herein approved discharge in, along, or across private property, with full rights of ingress, egress and regress.
- C. Collected screenings, slurries, sludges, and other solids shall be handled and disposed of in compliance with 25 Pa. Code, Chapters 271, 273, 275, 283, and 285 (related to permits and requirements for landfilling, land application, incineration, and storage of sewage sludge), Federal Regulation 40 CFR 257, Pennsylvania Clean Streams Law, Pennsylvania Solid Waste Management Act of 1980, and the Federal Clean Water Act and its amendments. The permittee is responsible to obtain or assure that contracted agents have all necessary permits and approvals for the handling, storage, transport, and disposal of solid waste materials generated as a result of wastewater treatment.
- D. The permittee shall optimize chlorine dosages used for disinfection or other purposes to minimize the concentration of Total Residual Chlorine (TRC) in the effluent, meet applicable effluent limitations, and reduce the possibility of adversely affecting the receiving waters. Optimization efforts may include an evaluation of wastewater characteristics, mixing characteristics, and contact times, adjustments to process controls, and maintenance of the disinfection facilities. If DEP determines that effluent TRC is causing adverse water quality impacts, DEP may reopen this permit to apply new or more stringent effluent limitations and/or require implementation of control measures or operational practices to eliminate such impacts.

Where the permittee does not use chlorine for primary or backup disinfection, but proposes the use of chlorine for cleaning or other purposes, the permittee shall notify DEP prior to initiating use of chlorine and monitor TRC concentrations in the effluent on each day in which chlorine is used. The results shall be submitted as an attachment to the DMR. When chlorine is used for Outfall 002, the permittee shall achieve compliance with TRC effluent limitations specified in Part A.I.A of this permit.

E. At an influent flow rate of 53 MGD or higher, the Train #2 Secondary Clarifier effluent, bypassing existing sand filters and UV disinfection system, may be discharged to Codorus Creek via Outfall 001, contingent upon compliance with effluent limitations and monitoring requirements identified in Part A of this permit. Except for the Train #2 Secondary Clarifier effluent and stormwater, discharge of other wastewaters via Outfall 001 is prohibited.

3800-FM-BPNPSM0462 3/2012 pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME	York City Sewer Authority										
ADDRESS	345 E Market Street		P.A	00262	63			001		Reporting Frequency:	Monthly
	York, PA 17403-5614		PERM	IIT NUN	//BER		OUTFA	ALL NU	MBER	DMR Effective From:	September 1, 2017
FACILITY	York City WWTP									DMR Effective To:	August 31, 2022
LOCATION	Manchester Township				MONITO	RING P	ERIOD			Permit Expíres:	August 31, 2022
	York County		YEAR	МО	DAY		YEAR	МО	DAY	Permit Application Due:	March 4, 2022
WATERSHED	7-H					то				Check Here if No Disc	harge
										NOTE: Read Instructions be	efore completing this form

PARAMETER		QUAN	TITY OR LOADIN	IG	QI	JALITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
	SAMPLE MEASUREMENT				XXX	xxx	xxx				
Flow	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	MGD	xxx	XXX	xxx	XXX		Continuous	Measured
	SAMPLE MEASUREMENT	XXX	XXX			XXX					
рН	PERMIT REQUIREMENT	XXX	XXX	XXX	6.0 Min	XXX	9.0 IMAX	S.U.		1/day	Grab
	SAMPLE MEASUREMENT	XXX	XXX			XXX	xxx				
DO	PERMIT REQUIREMENT	XXX	XXX	XXX	5.0 M in	XXX	xxx	mg/L		1/day	Grab
	SAMPLE MEASUREMENT	XXX	xxx		XXX						
TRC	PERMIT REQUIREMENT	XXX	XXX	xxx	xxx	0.13 Avg Mo	0.44 IMAX	mg/L		1/day	Grab
	SAMPLE MEASUREMENT				XXX						
CBOD5 May 1 - Oct 31	PERMIT REQUIREMENT	Report Avg Mo	Report Wkly Avg	lbs/day	xxx	13.0 Avg Mo	19.0 Wkly Avg	mg/L		5/week	24-Hr Composite
	SAMPLE MEASUREMENT				XXX						
CBOD5 Nov 1 - Apr 30	PERMIT REQUIREMENT	Report Avg Mo	Report Wkly Avg	lbs/day	xxx	20.0 Avg Mo	30.0 Wkly Avg	mg/L		5/week	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted.		TEI	LEPHONE		DATE	
	Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the						
TYPED OR PRINTED	information submitted is, to the best of my knowledge and belief, frue, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn faisification).	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY
COMMENTS (Papert all violations on the "Non Co	mulianas Danatina Form"				1. 0-1		

COMMENTS (Report all violations on the "Non-Compliance Reporting Form")

3800-FM-BPNPSM0462 3/2012 pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME	York City Sewer Authority					_					
ADDRESS	345 E Market Street		P.A	00262	63			001		Reporting Frequency:	Monthly
	York, PA 17403-5614		PERM	IUN TIN	MBER		OUTF	ALL NU	MBER	DMR Effective From:	September 1, 2017
FACILITY	York City WWTP						~~			DMR Effective To:	August 31, 2022
LOCATION	Manchester Township				MONITO	RING F	ERIOD			Permit Expires:	August 31, 2022
	York County		YEAR	МО	DAY		YEAR	МО	DAY	Permit Application Due:	March 4, 2022
WATERSHED	7-H	*****				то				Check Here if No Disc	harge
										NOTE: Read Instructions be	efore completing this form

PARAMETER		QUAN	TITY OR LOADIN	٧G	QI	UALITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
	SAMPLE MEASUREMENT				xxx						
TSS	PERMIT REQUIREMENT	Report Avg Mo	Report Wkly Avg	lbs/day	xxx	30.0 Avg Mo	45.0 Wkly Avg	mg/L		5/week	24-Hr Composite
	SAMPLE MEASUREMENT	XXX	XXX		XXX						
Fecal Coliform May 1 - Sep 30	PERMIT REQUIREMENT	XXX	XXX	xxx	xxx	200 Geo Mean	1000 IMAX	No./100 ml		5/week	Grab
	SAMPLE MEASUREMENT	XXX	XXX		XXX						
Fecal Coliform Oct 1 - Apr 30	PERMIT REQUIREMENT	XXX	XXX	XXX	xxx	2000 Geo Mean	10000 IMAX	No./100 ml		5/week	Grab
	SAMPLE MEASUREMENT		XXX		XXX		xxx				
Ammonia May 1 - Oct 31	PERMIT REQUIREMENT	Report Avg Mo	xxx	lbs/day	xxx	1.7 Avg Mo	xxx	mg/L		5/week	24-Hr Composite
	SAMPLE MEASUREMENT		XXX		xxx		xxx				
Ammonia Nov 1 - Apr 30	PERMIT REQUIREMENT	Report Avg Mo	xxx	lbs/day	XXX	2.1 Avg Mo	xxx	mg/L		5/week	24-Hr Composite
	SAMPLE MEASUREMENT		XXX		XXX		XXX				
Total Phosphorus	PERMIT REQUIREMENT	Report Avg Mo	XXX	lbs/day	XXX	2.0 Avg Mo	XXX	mg/L		5/week	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penally of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted.		TEI	EPHONE		DATE	
	Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true,						
TYPED OR PRINTED	accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY
COMMENTS (Report all violations on the "Non-Co	mpliance Reporting Form")					354	

3800-FM-BPNPSM0462 3/2012 pennsylvania

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD

TO

YEAR

DAY

PERMITTEE NAME/ADDRESS

NAME York City Sewer Authority **ADDRESS** 345 E Market Street

York, PA 17403-5614

FACILITY

York City WWTP

LOCATION

Manchester Township

York County

7-H

WATERSHED

PA00	26263
PERMIT	NUMBER

MO

YEAR

002 **OUTFALL NUMBER**

MO

DAY

Reporting Frequency:

Monthly

DMR Effective From: DMR Effective To:

September 1, 2017 August 31, 2022

Permit Expires:

August 31, 2022

Permit Application Due:

March 4, 2022

Check Here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER		QUAN	TITY OR LOADII	NG	QI	JALITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
	SAMPLE MEASUREMENT				xxx	XXX	xxx				
Flow	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	MGD	xxx	XXX	xxx	XXX		Continuous	Measured
	SAMPLE MEASUREMENT	XXX	XXX			XXX					
рН	PERMIT REQUIREMENT	XXX	XXX	xxx	6.0 Min	XXX	9.0 IMAX	S.U.		1/day	Grab
	SAMPLE MEASUREMENT	XXX	XXX			XXX	xxx				
DO	PERMIT REQUIREMENT	XXX	xxx	xxx	5.0 Min	xxx	xxx	mg/L		1/day	Grab
	SAMPLE MEASUREMENT				XXX						
CBOD5 May 1 - Oct 31	PERMIT REQUIREMENT	2819 Avg Mo	4120 Wkly Avg	lbs/day	XXX	13.0 Avg Mo	19.0 Wkly Avg	mg/L		5/week	24-Hr Composite
	SAMPLE MEASUREMENT				XXX						
CBOD5 May 1 - Oct 31	PERMIT REQUIREMENT	2819 Avg Mo	4120 Wkly Avg	lbs/day	XXX	13.0 Avg Mo	19.0 Wkly Avg	mg/L		5/week	24-Hr Composite
	SAMPLE MEASUREMENT				XXX						
CBOD5 Nov 1 - Apr 30	PERMIT REQUIREMENT	4337 Avg Mo	6505 Wkly Avg	lbs/day	xxx	20.0 Avg Mo	30.0 Wkly Avg	mg/L		5/week	24-Hr Composite

N	AME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted.		TEI	LEPHONE		DATE	
		Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true,						
	TYPED OR PRINTED	accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	МО	DAY
C	DMMENTS (Report all violations on the "Non-Co	empliance Reporting Form")						

3800-FM-BPNPSM0462 3/2012 pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRES	PF	ERN	TTIN	EE	NAN	/IE/A	DD!	RESS
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7-H

WATERSHED

NAME	York City Sewer Authority	··					
ADDRESS	345 E Market Street						
	York, PA 17403-5614						
FACILITY	York City WWTP						
LOCATION	Manchester Township						
	York County						

PA0026263	002
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency:	Monthly
DMR Effective From:	September 1, 2017
DMR Effective To:	August 31, 2022
Permit Expires:	August 31, 2022

March 4, 2022

YEAR MO DAY YEAR MO DAY
TO TO DAY

___ Check Here if No Discharge
NOTE: Read Instructions before completing this form

Permit Application Due:

PARAMETER		QUAN	TITY OR LOADIN	QUALITY OR CONCENTRATION					FREQUENCY	SAMPLE	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
	SAMPLE MEASUREMENT				XXX						
TSS	PERMIT REQUIREMENT	6505 Avg Mo	9758 Wkly Avg	lbs/day	XXX	30.0 Avg Mo	45.0 Wkly Avg	mg/L		5/week	24-Hr Composite
	SAMPLE MEASUREMENT				XXX		XXX				
TSS Raw Sewage Influent	PERMIT REQUIREMENT	Report Avg Mo	Report Daily Max	lbs/day	XXX	Report Avg Mo	xxx	mg/L		5/week	24-Hr Composite
	SAMPLE MEASUREMENT	XXX	XXX		XXX						
Fecal Coliform May 1 - Sep 30	PERMIT REQUIREMENT	xxx	xxx	xxx	xxx	200 Geo Mean	1000 IMAX	No./100 ml		5/week	Grab
	SAMPLE MEASUREMENT	XXX	XXX		XXX						
Fecal Coliform Oct 1 - Apr 30	PERMIT REQUIREMENT	XXX	XXX	xxx	XXX	2000 Geo Mean	10000 IMAX	No./100 ml		5/week	Grab
	SAMPLE MEASUREMENT		XXX		XXX		XXX				
Ammonia May 1 - Oct 31	PERMIT REQUIREMENT	369 Avg Mo	xxx	lbs/day	xxx	1.7 Avg Mo	xxx	mg/L		5/week	24-Hr Composite
	SAMPLE MEASUREMENT		xxx		XXX		XXX				
Ammonia Nov 1 - Apr 30	PERMIT REQUIREMENT	455 Avg Mo	XXX	lbs/day	xxx	2.1 Avg Mo	xxx	mg/L		5/week	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted.		TEI	EPHONE		DATE	
	Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true,						
TYPED OR PRINTED	accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	МО	DAY
COMMENTS (Report all violations on the "Non-Con	npliance Reporting Form")			3			

3800-FM-BPNPSM0462 3/2012 pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMIT	TFF	NAME	/ADDR	ESS

NAME	York City	Sewer Authority									
ADDRESS	345 E Mar	rket Street	PA0026263				002			Reporting Frequency:	Monthly
	York, PA	17403-5614	PERM	AIT NUI	MBER		OUTFALL NUMBER			DMR Effective From:	September 1, 2017
FACILITY	York City	WWTP								DMR Effective To:	August 31, 2022
LOCATION	Manchest	er Township			MONITO	RING P	ERIOD			Permit Expires:	August 31, 2022
	York Cour	nty	YEAR	МО	DAY		YEAR	МО	DAY	Permit Application Due:	March 4, 2022
WATERSHED	7-H					то				Check Here if No Disc	harge
<u></u>	W. C.		NITITY OF I			·			CONCEN	NOTE: Read Instructions be	efore completing this form

PARAMETER	- 1	QUANTITY OR LOADING			Q	UALITY OR CON	NO.	FREQUENCY	SAMPLE		
PARAIVIETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
	SAMPLE MEASUREMENT		XXX		XXX		XXX				
Total Phosphorus	PERMIT REQUIREMENT	434 Avg Mo	xxx	lbs/day	XXX	2.0 Avg Mo	xxx	mg/L		5/week	24-Hr Composite
	SAMPLE MEASUREMENT	XXX	XXX			XXX	XXX				, , , , , , , , , , , , , , , , , , , ,
UV Transmittance	PERMIT REQUIREMENT	XXX	xxx	XXX	Report Min	xxx	xxx	%		1/day	Recorded
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT							1			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT							1			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted.		TEI	LEPHONE		DATE	
	Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the						
	information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties						
TYPED OR PRINTED	for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY
COMMENTS (Report all violations on the "Non-Con	mpliance Reporting Form")						



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

	DEPARTMENT	OF ENVIRONMENTAL PROTECTION	
PERMI	TTEE	NAME/ADDRES	

York City Sewer Authority NAME PA0026263 001 Reporting Frequency: Monthly **ADDRESS** 345 E Market Street PERMIT NUMBER **OUTFALL NUMBER** York, PA 17403-5614 DMR Effective From: September 1, 2017 **FACILITY** York City WWTP DMR Effective To: August 31, 2022 MONITORING PERIOD Permit Expires: August 31, 2022 LOCATION Manchester Township YEAR MO DAY YEAR MO DAY Permit Application Due: March 4, 2022 York County TO WATERSHED 7-H ___ Check Here if No Discharge NOTE: Read Instructions before completing this form

PARAMETER			TITY OR LOADIN			UALITY OR CON			NO.	FREQUENCY		MPLE
FARMIVIETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	T	YPE
	SAMPLE MEASUREMENT		XXX		XXX		xxx					
Ammonia-Nitrogen	PERMIT REQUIREMENT	Report Total Mo	XXX	lbs	XXX	Report Avg Mo	xxx	mg/L		5/week	_	4-Hr nposite
	SAMPLE MEASUREMENT		XXX		XXX		xxx					
Total Kjeldahl Nitrogen	PERMIT REQUIREMENT	Report Total Mo	XXX	lbs	XXX	Report Avg Mo	xxx	mg/L		2/week		4-Hr nposite
	SAMPLE MEASUREMENT		XXX		XXX		xxx					
Nitrate-Nitrite as N	PERMIT REQUIREMENT	Report Total Mo	XXX	lbs	XXX	Report Avg Mo	xxx	mg/L		2/week		4-Hr nposite
	SAMPLE MEASUREMENT		XXX		XXX		XXX					
Total Nitrogen	PERMIT REQUIREMENT	Report Total Mo	XXX	lbs	XXX	Report Avg Mo	xxx	mg/L		1/month	Calc	culation
	SAMPLE MEASUREMENT		XXX		XXX		XXX					
Total Phosphorus	PERMIT REQUIREMENT	Report Total Mo	XXX	lbs	XXX	Report Avg Mo	xxx	mg/L		5/week		4-Hr nposite
Total Nitrogen (Total	SAMPLE MEASUREMENT		xxx		XXX	XXX	XXX					
Load, lbs) Effluent Net	PERMIT REQUIREMENT	Report Total Mo	XXX	lbs	XXX	XXX	xxx	XXX		1/month	Cald	culation
Total Phosphorus (Total	SAMPLE MEASUREMENT		XXX		XXX	XXX	XXX					
Load, lbs) Effluent Net	PERMIT REQUIREMENT	Report Total Mo	XXX	lbs	XXX	XXX	xxx	XXX		1/month	Cald	culation
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I certify under penalty of la direction or supervision in that qualified personnel gi Based on my inquiry of th or those persons directly	accordance with a system ather and evaluate the inf e person or persons who responsible for gathering	designed to assure formation submitted, manage the system the information, the				TEL	EPHONE		DATE	
TYPED OR PRINTED		information submitted is, accurate and complete. I for submitting false infor imprisonment for knowing to unsworn falsification).	am aware that there are mation, including the po-	significant penalties ssibility of fine and		E OF PRINCIPAL R OR AUTHORIZE		AREA CODE	NUME	BER YEAR	МО	DAY



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Check Here if No Discharge

AREA

CODE

NUMBER

YEAR

MO

DAY

NOTE: Read Instructions before completing this form

PERMITTEE NAME/ADDRESS

7-H

TYPED OR PRINTED

COMMENTS (Report all violations on the "Non-Compliance Reporting Form")

WATERSHED

NAME York City Sewer Authority PA0026263 002 **ADDRESS** 345 E Market Street Reporting Frequency: Monthly PERMIT NUMBER **OUTFALL NUMBER** York, PA 17403-5614 DMR Effective From: September 1, 2017 **FACILITY** York City WWTP DMR Effective To: August 31, 2022 MONITORING PERIOD LOCATION Manchester Township Permit Expires: August 31, 2022 York County YEAR MO DAY YEAR MO DAY Permit Application Due: March 4, 2022 TO

QUANTITY OR LOADING QUALITY OR CONCENTRATION NO. FREQUENCY SAMPLE **PARAMETER** VALUE **VALUE** UNITS **VALUE** VALUE VALUE UNITS EX OF ANALYSIS TYPE SAMPLE **MEASUREMENT** XXX XXX XXX PERMIT Report Report 24-Hr Ammonia-Nitrogen REQUIREMENT Total Mo XXX lbs XXX Avg Mo XXX mg/L 5/week Composite SAMPLE **MEASUREMENT** XXX XXX XXX PERMIT Report Report 24-Hr Total Kieldahl Nitrogen REQUIREMENT Total Mo XXXlbs XXX Avg Mo XXX mg/L 2/week Composite SAMPLE **MEASUREMENT** XXX XXX XXXPERMIT Report Report 24-Hr Nitrate-Nitrite as N REQUIREMENT Total Mo XXX lbs XXXAvg Mo XXX mg/L 2/week Composite SAMPLE **MEASUREMENT** XXXXXX XXX **PERMIT** Report Report Total Nitrogen REQUIREMENT Total Mo XXX lbs XXX Ava Mo XXX mg/L 1/month Calculation SAMPLE MEASUREMENT XXX XXX XXX PERMIT Report Report 24-Hr Total Phosphorus REQUIREMENT Total Mo XXXlbs XXX Avg Mo XXX mg/L 5/week Composite SAMPLE Total Nitrogen (Total XXX XXX MEASUREMENT XXXXXX Load, lbs) PERMIT Report Effluent Net REQUIREMENT Total Mo XXX XXX XXX lbs XXX XXX 1/month Calculation SAMPLE Total Phosphorus (Total **MEASUREMENT** XXX XXX XXX XXX Load, lbs) **PERMIT** Report Effluent Net REQUIREMENT Total Mo XXX XXX XXX lbs XXX XXX 1/month Calculation I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure NAME/TITLE PRINCIPAL EXECUTIVE OFFICER **TELEPHONE** DATE that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true,

SIGNATURE OF PRINCIPAL EXECUTIVE

OFFICER OR AUTHORIZED AGENT

accurate and complete. I am aware that there are significant penalties

for submitting false information, including the possibility of fine and

imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating

to unsworn falsification).

3800-FM-BPNPSM0462 3/2012 pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME	York City Sewer Authority										
ADDRESS	345 E Market Street	PA	PA0026263			001			Reporting Frequency:	Annually	
	York, PA 17403-5614	PERM	NUN TIN	MBER		OUTFALL NUMBER			DMR Effective From:	September 1, 2017	
FACILITY	York City WWTP								DMR Effective To:	August 31, 2022	
LOCATION	Manchester Township			MONITO	RING P	ERIOD			Permit Expires:	August 31, 2022	
	York County	YEAR	МО	DAY		YEAR	МО	DAY	Permit Application Due:	March 4, 2022	
WATERSHED	7-H				то				Check Here if No Discharge		
									NOTE: Read Instructions be	efore completing this form	

PARAMETER		QUAN	TITY OR LOADIN	G	Ql	JALITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
	SAMPLE MEASUREMENT										
Ammonia-Nitrogen (Total Load, lbs)	PERMIT REQUIREMENT	XXX	Report Total Annual	lbs	XXX	XXX	xxx	XXX		1/year	Calculation
	SAMPLE MEASUREMENT										
Total Nitrogen (Total Load, lbs)	PERMIT REQUIREMENT	XXX	Report Total Annual	lbs	xxx	XXX	xxx	XXX		1/year	Calculation
	SAMPLE MEASUREMENT										
Total Phosphorus (Total Load, lbs)	PERMIT REQUIREMENT	XXX	Report Total Annual	lbs	xxx	xxx	xxx	xxx		1/year	Calculation
Total Nitrogen (Total	SAMPLE MEASUREMENT										
Load, lbs) Effluent Net	PERMIT REQUIREMENT	XXX	Report Total Annual	lbs	xxx	XXX	xxx	XXX		1/year	Calculation
Total Phosphorus (Total	SAMPLE MEASUREMENT										
Load, lbs) Effluent Net	PERMIT REQUIREMENT	XXX	Report Total Annual	lbs	xxx	xxx	xxx	XXX		1/year	Calculation
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	l certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted.		TEI	LEPHONE		DATE	
	Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true,						
TYPED OR PRINTED	accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	МО	DAY
COMMENTS (Report all violations on the "Non-Cor	mpliance Reporting Form")						



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

VAME	York City S	Sewer Authority												
ADDRESS	345 E Mar	ket Street		P/	100262	63			002		Reporting Frequer	ncy:	Annually	
	York, PA 1	17403-5614		PERM	NUN TIN	MBER		OUTFA	ALL NU	MBER	DMR Effective Fro	m:	September 1,	2017
FACILITY	York City \	WWTP									DMR Effective To:		August 31, 20)22
LOCATION	Mancheste	er Township				MONITO	RING P	ERIOD			Permit Expires:		August 31, 20)22
	York Cour	nty		YEAR	MO	DAY		YEAR	МО	DAY	Permit Application	Due:	March 4, 202	2
WATERSHED	7-H						то				Check Here i	f No Dis	scharge	
											NOTE: Read Instri	uctions	before completing	this form
			QUA	NTITY OR L	OADING	3		QUAL	ITY OR	CONCENT	RATION	NO.	FREQUENCY	SAMPLE

PARAMETER		QUAN	TITY OR LOADIN	IG	QI	JALITY OR CON	ICENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
	SAMPLE MEASUREMENT										
Ammonia-Nitrogen (Total Load, lbs)	PERMIT REQUIREMENT	XXX	Report Total Annual	lbs	xxx	XXX	xxx	XXX		1/year	Calculation
	SAMPLE MEASUREMENT										
Total Nitrogen (Total Load, lbs)	PERMIT REQUIREMENT	XXX	Report Total Annual	lbs	xxx	xxx	xxx	xxx		1/year	Calculation
	SAMPLE MEASUREMENT										
Total Phosphorus (Total Load, lbs)	PERMIT REQUIREMENT	XXX	Report Total Annual	lbs	xxx	XXX	xxx	XXX		1/year	Calculation
Total Nitrogen (Total	SAMPLE MEASUREMENT										
Load, lbs) Effluent Net	PERMIT REQUIREMENT	XXX	474880 Total Annual	lbs	XXX	XXX	xxx	xxx		1/year	Calculation
Total Phosphorus (Total	SAMPLE MEASUREMENT										
Load, lbs) Effluent Net	PERMIT REQUIREMENT	XXX	63317 Total Annual	lbs	XXX	XXX	xxx	xxx		1/year	Calculation
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted.		TEI	EPHONE		DATE	
	Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true,						
TYPED OR PRINTED	accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	МО	DAY
COMMENTS (Report all violations on the "Non-Co	ompliance Reporting Form")						

INSTRUCTIONS FOR COMPLETING DISCHARGE MONITORING REPORTS (DMRs)

General

One or more Discharge Monitoring Reports (DMRs) are attached to your permit for reporting the results of self-monitoring activities as required by your permit. You should make copies of the DMRs for your ongoing use, unless you elect to participate in the Department of Environmental Protection's (DEP's) electronic DMR (eDMR) program (see www.dep.state.pa.us/edmr).

- Reporting frequencies will vary depending on the monitoring frequencies listed in your permit, and are generally monthly, quarterly semi-annually and annually.
- Your reports must be <u>received</u> by DEP on the 28th day of the month following the end of the reporting period, unless otherwise specified in Part C of your permit.
- Your permit may require submission of DMRs to other agencies, including the U.S. Environmental Protection Agency (EPA).
- If you receive DMRs in the mail from EPA, please discontinue use of DMR Form No. 3800-FM-BPNPSM0462 and begin using EPA's DMRs.
- DMRs will generally include pre-populated information for permittee name and address, facility location, permit number, outfall number, permit expiration date, parameter names, and permit requirements. If you identify any errors on a DMR issued by DEP, please contact the DEP regional office that issued your permit. If you identify any errors on a DMR issued by EPA, please contact DEP's Central Office at 717-787-6744.
 DO NOT make changes to DMRs issued to you.
- You may use computer-generated replicas of Form No. 3800-FM-BPNPSM0462 or of EPA's DMR if you
 receive prior approval from DEP and EPA. DEP reserves the right to instruct you to discontinue the
 submission of computer-generated DMRs if the permit requirements you entered on the form are
 inaccurate.

Instructions

- 1. Enter statistical results into each blank field below the "VALUE" column headers. Results must be reported in the same units shown on the DMR.
- Sum the total number of excursions or exceedances of permit limits across the row for each parameter and enter
 the value into the "NO. EX" field. For example, if the permit contains limits of 6.0 S.U. (Minimum) and 9.0 S.U.
 (Maximum) for pH, and the Minimum and Maximum results are 5.9 S.U. and 9.1 S.U., respectively, enter "2" into
 the "NO. EX" field.
- 3. Report the actual sampling frequency and sample type utilized during the reporting period in the fields corresponding to "Frequency of Analysis" and "Sample Type", respectively.
- 4. Type the name of the principal executive officer (or an authorized agent designated by a principal executive officer) who is taking responsibility for the report, sign the report (should be in ink), enter the telephone number of the responsible individual, and record the date that the report was signed. Mail only original, signed copies of DMRs.
- 5. In the Comments section at the bottom of the DMR, you may write a brief summary of violations in this section; however, DEP requests that <u>all</u> violations during the monitoring period be reported in more detail on DEP's **Non-Compliance Reporting Form** (3800-FM-BPNPSM0440) and be submitted as an attachment to the DMR. Other uses of the Comments Section include explanations of attachments to the DMR, explanations for the unavailability of data, and brief summaries of issues that have affected operations or effluent quality during the monitoring period. Always consider attaching a letter or separate document to explain your situation in more detail.

No Discharge or No Data Available

If there was <u>no discharge at all from an outfall</u> during the monitoring period, check the "No Discharge" box on the top of the DMR. Complete the information above and below the table and mail the DMR to the appropriate agencies. Be sure to sign and date the DMR.

If there was no discharge of a specific parameter (e.g., if a chlorine limit is in the permit but chlorine was not used for disinfection during the entire reporting period), or if data are not available for a specific parameter for the entire reporting period, do not leave the DMR blank. Instead, report one of the following No Data Indicator (NODI) codes that apply to your situation in the appropriate value field, and **provide an explanation as an attachment to the DMR**:

- A Use if you are exempted from monitoring the parameter because of a General Permit condition.
- E Use if <u>all samples or results</u> are not available for the reporting period due to equipment failure or because sample collection was overlooked or samples could not be collected for the parameter.
- **GG** Use if your permit requires sample collection and analysis only under certain conditions and those conditions were not met during the reporting period (e.g., report chlorine results only when chlorination system is used).
- FF Other: use if there is any reason for the absence of data that is not covered by those above.

If you have at least one result for a parameter, the value should be reported and not a NODI code.

Calculations

The following explains how to calculate statistical values that are commonly required by permits:

Monthly Average – For Loading (lbs/day), sum the total of daily loadings and divide by the number of samples during the month. To calculate the daily loading, multiply the daily concentration (mg/l) by the flow (MGD) on the date of sampling and a conversion factor of 8.34. For Concentration, sum the total of daily concentrations and divide by the number of samples.

Weekly Average – For Loading (lbs/day), sum the total of average daily loadings during each week of the reporting period (beginning on a Sunday and ending on a Saturday) and divide by the number of samples during the week. For Concentration, sum the total of daily concentrations each week and divide by the number of samples. Report the <u>maximum</u> weekly average on the DMR.

Maximum Daily ("Daily Max") – Report the maximum concentration or load measured during a 24-hour period during the reporting period; if multiple measurements are taken daily, include all data in the analysis.

Instantaneous Maximum ("IMAX") – Report the maximum result obtained by a grab sample for a specific pollutant over the entire reporting period covered by a DMR.

Instantaneous Minimum ("Minimum") – Report the minimum result obtained by a grab sample for a specific pollutant over the entire reporting period covered by a DMR.

Total Monthly Load (lbs) – Sum the total of average daily loadings, divide by the number of samples during the month, and multiply by the number of days in the month.

Geometric Mean – Report the average of a set of n sample results given by the nth root of their product. If any result is zero (0), substitute 1 for the calculation. For example, five samples were analyzed with the following results: 20, 300, 400, 500, and 0. The calculation of geometric mean is as follows (note that you will need to use the power function on a calculator):

$$\sqrt[5]{20 \cdot 300 \cdot 400 \cdot 500 \cdot 1} = \sqrt[5]{1,200,000,000} = (1,200,000,000)^{1/5} = 65$$

Non-Detect Data

Conventional and Toxic Parameters

For calculating average values of data sets in which there are some "detections" (results at or above the laboratory reporting limit) and some "non-detect" data (results reported below the laboratory reporting limit), use the reporting limit for non-detect data. In other words, ignore the less than (<) symbol for statistical calculations and include the < symbol with the statistical result if there is at least one non-detect result in the data set. For example, four samples were analyzed with the following results: < 1.0, 2.0, < 1.0, and 1.0. The average statistical result is < 1.3.

Where the permit includes an effluent limitation for a parameter that is less than the most sensitive detection limit available, and the laboratory reports a value at or below the lowest level specified by the permit, you may use zero (0) in the calculation in lieu of the reporting limit, if the parameter is identified in 25 Pa. Code Chapter 16, Appendix A, Tables 2A and 2B. In general, parameters with limitations that are less than the most sensitive detection limit will be identified in Part C of the permit, if applicable.

Bacteria Parameters

Report all "non-detect" (e.g., < 2) and "too numerous to count" (TNTC) (e.g., > 2,000) results on DMR supplemental forms as reported by the laboratory. Do not report "TNTC" on supplemental forms, but instead report a value qualified with the">" symbol. Where a data set includes one or more "non-detect" and/or TNTC results, calculate the geometric mean by ignoring qualifying symbols, but report the value with the symbol. If a data set includes both ">" and "<" qualifiers, the ">" qualifier takes precedence for reporting. For all "non-detect" values, specify in the Comments section of the DMR the maximum volume filtered at the laboratory.

Example 1 – For results are determined, < 2, 10, 20, and 30. The geometric mean should be reported as < $(2 \cdot 10 \cdot 20 \cdot 30)^{0.25} = < 10$. Specify the maximum volume filtered for the < 2 result in the DMR Comments.

Example 2 – Three results are determined, < 2, 1,000, and > 2,000. The geometric mean should be reported as > $(2 \cdot 1,000 \cdot 2,000^{0.333} = > 158.$

Rounding and Precision

Statistical values reported on the DMR should be rounded to the same number of decimal places as the limit for the parameter as set forth in the permit. If the permit does not contain a limit but requests monitoring only, statistical values for concentration results should be rounded to the maximum number of decimal places in the data set as reported by the laboratory or the instrument used for analysis. If mass loads must be reported and there is no limit, round statistical values to the nearest whole number, unless the calculated number is less than one, in which case the value should be rounded to one significant figure (e.g., 0.1, 0.05, etc.). If the number you are rounding is followed by 5, 6, 7, 8, or 9, round the number up, otherwise round down.

The documents "Discharge Monitoring Reports Overview and Summary" (3800-BK-DEP3047) and "Management of Non-Detect Results for Discharge Monitoring Reports" (3800-FS-DEP4262) contain more information and are incorporated by reference. These documents are available on DEP's website.

3800-FM-BPNPSM0435 3/2012



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

SUPPLEMENTAL REPORT DAILY EFFLUENT MONITORING

Facility Name:	York City WWTP		Month:	Year:
Municipality:	Manchester Township	County: York	NPDES Permit No.: PA0026263	Outfall No.: 001
Watershed:	7-H		Renewal application due 180 days prior to expiration	
Laboratories:			This permit will expire on AUGUST, 31 2022	

	, , , , , , , , , , , , , , , , , , ,							E	ffluer	nt Parameter	s							
Day		<u>Flow</u>		рН		<u>DO</u>		TRC		CBOD5		<u>TSS</u>	Fed	cal Coliform	Δ	mmonia	<u>P</u> h	Total osphorus
Day	Q	<u>MGD</u>	Q	<u>S.U.</u>	Q	<u>mg/L</u>	Q	<u>mg/L</u>	Q	<u>mg/L</u>	Q	mg/L	Q	<u>No./100 ml</u>	Q	mg/L	Q	mg/L
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I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By:	Signature:	
Title:	Date:	



SUPPLEMENTAL REPORT DAILY EFFLUENT MONITORING

Facility Name:	York City WWTP		Month:	Year:
Municipality:	Manchester Township	County: York	NPDES Permit No.: PA0026263	Outfall No.: 002
Watershed:	7-H		Renewal application due 180 days prior to expiration	
Laboratories:		-4	This permit will expire on AUGUST, 31 2022	

	Effluent Parameters																	
		Flow		рН		DO		CBOD5		TSS		cal Coliform	Tra	UV insmittance		Ammonia	PI	Total nosphorus
Day	Q	<u>MGD</u>	Q	<u>S.U.</u>	Q	mg/L	Q	mg/L	Q	<u>mg/L</u>	Q	No./100 ml	Q	<u>%</u>	Q	mg/L	Q	mg/L
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I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By:	Signature:	
Title:	 Date:	



SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility N Municipa Watersh	Name: <u>York</u> ality: <u>Mand</u> ed: <u>7-H</u>	City WWTP chester Towns		Co	Renewal application due <u>180 days</u> prior to expiration This permit will expire on <u>AUGUST 31, 2022</u>							
			Influent					Process Control				
Day	Flow (MGD)	BOD5 (mg/l)	BOD5 (Ibs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)				
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30												
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Avg						1						
Max												
I certify u	on submitted.	Based on my in	nguiry of the pe	rson or persons w	ho manage the s	ystem or those persons	directly responsible fo	r gathering the informat	personnel gather and evion, the information submissibility of fine and impris	itted is, to the		
knowing	violations. Se Prepared By Title:	e 18 Pa. C.S. §	4904 (relating	to unsworn falsific	cation).	Signature: Date:		mation, morading the po	osisinty of fine and implis	omnont to		

3800-FM-BPNPSM0437 3/2012

Title:



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

SUPPLEMENTAL REPORT - HAULED IN MUNICIPAL WASTES

			SEPTAGE			9	LUDGE		OTHER (spe	cify):	Waster and the second		DAILY TOTALS	
Day	Gallons	BOD₅ (mg/l)	BOD ₅ (lbs)	Disposal Location	Gallons	BOD₅ (mg/l)	BOD ₅ (lbs)	Disposal Location	Gallons	BOD₅ (mg/l)	BOD₅ (lbs)	Disposal Location	Gallons	BOD _s
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Date:

3800-FM-BPNPSM0438 3/2012



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

SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

Municipal	acility Name: York City WWTP lunicipality: Manchester Township /atershed: 7-H				County	y: <u>York</u>	Renewal application due 180 days prior to expiration This permit will expire on AUGUST 31, 2022				
prompt.							ATION (Identify	each off-site rer	moval event and incineration	event)	
Check	there if there w	ewage Sluc	lge/Bi			ewatered Se	wage Sludge/Bio	osolids	Sewage Slud	lge/Biosolids	
Date	Gallons	Hauled Off % Solid		Dry Tons	Tone D	Hai ewatered	uled Off-site % Solids	Dry Tons	Dewatered and In Tons Dewatered	icinerated On-si % Solids	
merchallowed to constru	Gallons	% Solic	s 	Dry tons	TOTIS	ewatered	% Solids	Uny tons	Tons Dewatered	% Solids	Dry Tons
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											COLUMN
		TOTA	AL: L				TOTAL:		J	TOTAL:	
		SEW							EFICIAL USE INFORMATION ed or land applied)		
	Site Name										
	Municipality County										
	EP Permit No.										
	pe of Material* is Applied/Dist			With the second second					The state of the s	WALL TO THE REAL PROPERTY OF THE PROPERTY OF T	
	of Disposal/U										
	Hauler Name										
*See Inst	ructions for exp	lanation									
informatio of my kno	n submitted. Bas	sed on my inc ef, true, accur	quiry of rate an	f the person or p id complete. I a	ersons who am aware that	manage the sys	stem or those perso	ons directly respons	em designed to assure that qualifie sible for gathering the information, the nformation, including the possibility	he information sub	mitted is, to the best
Pr	epared By: _						_	Signature:			
Tir	tle:			-73.01	- Annual II	1914	A	Date:	AH		



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

SUPPLEMENTAL REPORT HAULED IN RESIDUAL WASTES

	York City WWT				Month:	0000	Year:	
Municipality: Watershed:	Manchester Too 7-H	wnsnip		ounty: York	NPDES Permit No.: <u>PA002</u> Renewal application due <u>18</u> This permit will expire on <u>A</u>	30 days prior to e		
	Volume Received	License Plate	Well Permit	So	ource of Residual Waste			Chemical Analysis
Date	(gallons)	No.	No.	Generator	Address	State	Wastewater Type	(Yes/No)
Total:			* ·					
information sub best of my know	mitted. Based on r vledge and belief, to ons. See 18 Pa. C.	ny inquiry of the perue, accurate and o	erson or persons v	who manage the system or those p ware that there are significant pena	dance with a system designed to assurersons directly responsible for gather alties for submitting false information,	ring the information	, the information submitted	ed is, to the
	Prepared By:				Signature:			
	Title:				Date:			

3800-FM-BPNPSM0440 3/2012



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

NON-COMPLIANCE REPORTING FORM

Use this supplemental form to report all permit violations and any other non-compliance that may endanger health or the environment, in accordance with your permit. Complete all sections that apply. If you are reporting violations of permit limits, monitoring requirements or schedules that do not pose an immediate threat to health or the environment, you may attach this form to the Discharge Monitoring Report (DMR). Title 25, Pa. Code §§ 91.33 and 91.34 (regarding incidents causing or threatening pollution and activities utilizing pollutants, respectively), in part requires immediate notification by telephone to the Department of pollution incidents, remediation, and may require an additional report on the incident or plan of pollution prevention measures. If you are reporting other non-compliance events, and the reporting deadline does not coincide with your submission of the DMR, it should be submitted separately to the Department by the reporting deadline set forth in the permit. See instructions for more information.

Facility Munici	/ Name: pality:		City WWTP	р	County:	York		Month Permi		PA0026263	Year:		
	Violatio	ns of	Permit Effluent	Limitations*									
	Date		Parameter	Permit Limit	Units	Statistical Code	Result	Units		Cause of Violati	on	Corrective A	Action Taken
	Sanitary	/ Sew	er Overflows an	d Other Unau	thorized	Discharges*							
	Event D	ate	Substance Discharged	Locatio	n	Volume (gals)	Duration (hrs)	Receiving Waters	In	npact on Waters	Cause of	Discharge	Date DEP Notified
	Other Po	ermit	Violations*			<u> </u>	<u> </u>						<u> </u>
			le collection less le type not in col		•		ain						
			ion of permit sch		Jennit	⊏xþi	alli						
		Other Other				⊨xpi	ain						
* If th			/ided is not si	ufficient to r	ecord a								Market - Consideration and the Consideration of the
I certify informa my kno	under pen tion submitt wledge and	alty of ted. Bas belief	law that this docur	ment was prepare f the person or pe d complete. I am	ed under r rsons who aware th	my direction or manage the sy	supervision in a	accordance with ersons directly res	a syster	m designed to assure e for gathering the info ormation, including the	rmation, the info	ormation submitte	ed is, to the best of
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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

SUPPLEMENTAL LABORATORY ACCREDITATION FORM¹

Permittee Name:	York City S	ewer Authority	THE STATE OF THE S					
Address:	345 E Mark	et St	The state with the state of the					
	York,PA 17	403-5614						
	PERMIT	NUMBER			MONITORING Year/Month			
	PA00:	26263			то			
PARAMET	ER	ANALYS	SIS METHOD	LAB NAI	ME No Sign	LAB ID	NUMBER	₹2
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designed to assure the manage the system, or	at qualified per or those persor and complete.	sonnel properly on s directly respon I am aware tha	gather and evaluate nsible for gathering t	ere prepared under my the information submitte the information, the infor nt penalties for submittin	d. Based on my inquation submitted is,	uiry of the pers to the best of	son or pers my knowle	sons who edge and
Name/Title Princ	ipal Executi	ve Officer	Phone:	Sig	nature of Principa Authoriz	al Executive zed Agent	Officer	or
			Date:		A THE STATE OF THE			

¹ Submit this form with the first Discharge Monitoring Report (DMR) or Annual Report, where sample results are submitted to the Department for compliance purposes. You do not need to send this form to the Department again UNLESS there has been a change to the lab(s), parameter(s) or method(s) of analysis.

² For parameter(s) covered under accreditation-by-rule, submit the lab's registration number in lieu of an accreditation number.

3800-FM-BPNPSM0485 Rev. 10/2013 Cover Sheet

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



WHOLE EFFLUENT TOXICITY (WET) TEST SUMMARY REPORT COVER SHEET

NPDES Permit Number: PA0026263 Facility Name: York City WWTP	
Species Tested: Ceriodaphnia dubia Pimphales promelas Test Type: Chronic Acute	
Re-Test? Yes No (If Yes, indicate the date of original test completion:)	
SAMPLE INFORMATION	
<u>Date/Time</u> <u>Sample Source</u> <u>Temperature</u> <u>Holding Time</u> <u>Chlorine</u> <u>Dechlorin</u>	nated?
1 °C mg/L	☐ No
2 °C mg/L	□No
3 °C mg/L	□No
TEST CONDITIONS	
Date/Time of Test Initiation: Date/Time of Test Termination:	
Renewal Test Non-Renewal Test Frequency of Renewals:	
Dilution Series: , , , , Target Instream Waste Concentration (TIWC):	
Age of Organisms at Start of Tests:	
Number of Replicates: Number of Organisms per Replicate:	
Source of Organisms: Feeding Regimen:	
Light Intensity: Photoperiod:	
Temperature measurements made at least once per 24-hour period? Yes No (attach log sheet)	
DO measured daily in at least one replicate of each concentration? \(\subseteq \text{Yes} \) No (attach log sheet)	
Were the test chambers aerated? Yes No Rate:	
pH measured daily in at least one replicate of each concentration? Yes No (attach log sheet)	
Were test acceptability criteria in the EPA method met? Yes No	
Were there any modifications to or deviations from EPA methods (if Yes, explain on separate sheet)?	
DILUTION / REAGENT WATER	
Date of Last Test for Chemistry: Conductivity: µmhos/cm	
pH: Chlorine: mg/L	
CONTROL RESULTS	
Ceriodaphnia dubia Pimphales promelas Survival: Survival:	
Percent that produced 3 broods (if applicable): Young per Surviving Female (if applicable): **Mean Dry Weight of Survivors (if applicable): **In the produced 3 broods (if applicable): **In the prod	
REFERENCE TOXICITY TESTS	
Date of most recent test: Same conditions as test? Yes No	
Were test acceptability criteria in the EPA method met? Yes No	
TEST RESULTS	
Control compared to: TIWC Dilution Other:	
	Fail
I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my in the individuals personally responsible for obtaining the information, I believe the attached information is true, accurate and complete. I an there are significant penalties for submitting false information, including the possibility of fine or imprisonment as provided by 18 Pa. C.S. §4	n aware
Name of Laboratory Manager Signature of Laboratory Manager Date DEP Lab	D No.

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



WHOLE EFFLUENT TOXICITY (WET) TEST SUMMARY REPORT DATA SHEET

NPDES	Permit N	umber: P	A0026263				Facility Na	me: York	City WWT	P				
Species	s: Ceri	odaphnia	dubia [Other			Pass/Fail [Determined	Using:] TST				
l .			ms Per Re							Other	_			
Rep.			Sur	vival					Repro	duction				
No.	Control	%	%	%	%	%	Control	%	%	%	%	%		
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
				Other		F		etermined						
Original	Number c	of Organisi	ns Per Re	plicate:		[Other H	ypothesis ⁻	Test 🗌 C	Other				
·····							0 4							
Rep. No.				vival	T	0.1	Growth							
1	Control	%	%	%	%	%	Control	%	%	%	%	%		
2														
3														
4														
5														
6						-								
7														
8														
9														
10														
11														
12														
13														
14		1												
15														



DAILY EFFLUENT MONITORING REPORT

Use this form to report daily monitoring results for the parameters that must be monitored in effluent for compliance with the permit. Results for influent parameters are normally reported on Form 3800-FM-BPNPSM0436.

- 1. Enter Facility Name, Municipality, County, Watershed No., Laboratories, Month, Year, NPDES Permit No., Outfall No., and Permit Expiration Date (it is noted that this information may be pre-populated if you have received this form with your permit). For Laboratories, list the names of all laboratories where samples were analyzed during the month, including on-site analysis.
- 2. In the column headers, below "Effluent Parameters," enter the names of parameters in the permit. Since limited space is provided, abbreviation may be necessary. If there are more parameters for an outfall than columns provided on the form, attach an additional sheet.
- 3. Below parameter names, and to the right of "Q" (Qualifier) column headers, enter the units associated each parameter (it is noted that this information may be pre-populated if you have received this form with your permit).
- 4. Enter monitoring results for parameters in the rows corresponding to the day of the month in which samples were collected. Enter results exactly as reported by the laboratory, or if measured with on-site equipment, to the level of precision recommended by the equipment manufacturer. Enter data qualifiers such as "<," ">," "J," and others in the "Q" column.
- 5. Calculate and report average values at the bottom of the table in accordance with the DMR Instructions (3800-FM-BPNPSM0463) and DEP guidance (3800-BK-DEP3047). Note for bacteria, calculate and report the geometric mean value.
- 6. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

INFLUENT AND PROCESS CONTROL REPORT

- 1. Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2. For **Influent**, enter daily average <u>Influent</u> Flow (MGD) (if an influent flow meter is in use), daily influent BOD₅ or CBOD₅ concentrations (mg/l) and loads (lbs), and daily influent TSS concentrations (mg/l) and loads (lbs). If an influent flow meter is not in use, you may use results from an effluent flow meter.
- 3. For Process Control, enter daily average Mixed Liquor Suspended Solids (MLSS) (mg/l) and daily average Aeration Dissolved Oxygen (DO) for aerobic biological treatment systems, and total daily Sludge Wasted (removed from biological treatment), in gallons, for all treatment system types. If a parameter does not apply to your facility, leave the column blank. Information for other parameters such as Return Activated Sludge (RAS) Rate, Recirculation Rate (for fixed media treatment systems), Sludge Blanket Thickness, Sludge Volume Index, and others may be requested by the DEP office that issued the permit.
- 4. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

HAULED IN MUNICIPAL WASTES REPORT

This form is intended for documenting the receipt of municipal wastes including sewage sludge, septage and other municipal wastewaters hauled in from other facilities for processing and/or disposal at your facility. This form should not be used for reporting receipt of residual wastes (e.g., food processing wastes, oil and gas wastewater, landfill leachate, etc.) - please use Form 3800-FM-BPNPSM0450 for reporting this information.



- 1. Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2. For septage, biosolids and other wastewaters (specify type in the space provided), record the daily volume received in gallons, the daily BOD₅ concentration (average), the daily BOD₅ load in lbs (average), and the disposal location. For disposal location, specify the plant location or tank receiving hauled in wastes (e.g., headworks, primarily clarifier, digester, etc.).
- 3. Determine daily BOD₅ concentrations in mg/l by sampling loads in accordance with the permit or otherwise as determined by the facility. Periodic sampling of loads is encouraged to improve confidence in reported results.
- 4. Calculate the average, daily total and monthly total values and report the values in the spaces provided.
- 5. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

BIOSOLIDS PRODUCTION AND DISPOSAL FORM

1. Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.

Biosolids Production Information

2. For each off-site removal event for liquid sewage sludge or biosolids and for dewatered sewage sludge or biosolids, and for each event where dewatered sewage sludge or biosolids are incinerated on-site, list the date of the event, identify the gallons (liquid) or tons (dewatered) removed or incinerated and the percent solids (e.g., 10%, 20%, etc.) Report only sewage sludge or biosolids that have been removed from the plant digesters and other solids which have been permanently removed from the treatment process. Do not include sewage sludge or biosolids from other facilities that are processed at your facility. (If there were no off-site removal events during the month, check the box above the table).

Calculate dry tons for liquid sewage sludge or biosolids by multiplying the volume (gallons) by the percent solids and by a conversion factor of 0.0000417. For example, if 2,500 gallons of liquid biosolids is removed, and the percent solids is 3.0%, dry tons is calculated as:

2,500 gallons $\times 3.0\% \times 0.0000417 = 0.31$ dry tons

Calculate dry tons for dewatered sewage sludge or biosolids by multiplying the tons dewatered by the percent solids and by a conversion factor of 0.01. For example, if 5 tons of dewatered biosolids is removed, and the percent solids is 50%, dry tons is calculated as:

 $5 \text{ tons } \times 50\% \times 0.01 = 2.5 \text{ dry tons}$

The % **Solids** of liquid or dewatered sewage sludge or biosolids must be determined periodically through laboratory testing. Do not estimate or guess this value. An acceptable test method is method 2540B in *Standard Methods for the Examination of Water and Wastewater*, 18th edition, where samples are dried at 103-105°C. Other references such as ASTM may have equivalent tests which are also acceptable.

Biosolids and Incinerator Ash Disposal and Beneficial Use Information

3. Report sewage sludge, biosolids, and ash disposal and beneficial use information by disposal/application site. There are columns for four possible sites per month - if more sites are needed, attach additional pages. For each Site Name, listed at the top of the column, enter the Municipality and County of the site, the DEP Permit No. (i.e., Biosolids



permit number for land application, landfill waste management permit number, etc.), Type of Material (sewage sludge, biosolids, or incinerator ash), Dry Tons Applied/Disposed at the site for the month, Type of Disposal/Use (e.g., reed beds, agricultural utilization, composting, landfill, other treatment plant, etc.) and the name of the hauler (company or individual name).

4. Type the name of the person who prepared the form, the person's job title, and sign and date the form after reading the certification statement.

NON-COMPLIANCE REPORTING FORM

Use this supplemental form to report <u>all</u> permit violations and any other non-compliance that may endanger health or the environment, in accordance with your permit. Complete all sections that apply. If you are reporting violations of permit limits, monitoring requirements or schedules that do not pose an immediate threat to health or the environment, you may attach this form to the Discharge Monitoring Report (DMR). If you are reporting other non-compliance events, and the deadline for a written report (e.g., 5 days) does not coincide with your submission of the DMR, this form should be submitted separately to the Department by the reporting deadline set forth in the permit.

If you are unsure of whether an incident constitutes non-compliance that may endanger health or the environment, it is recommended that you notify the Department verbally as soon as possible after you become aware of the incident. Title 25, Pa. Code §§ 91.33 and 91.34 (regarding incidents causing or threatening pollution and activities utilizing pollutants, respectively), in part requires immediate notification by telephone to the Department of pollution incidents, remediation, and may require an additional report on the incident or plan of pollution prevention measures.

Instructions:

- 1. Enter the name of the facility, the municipality and county where it is located, the month and year when violations occurred, and the NPDES or WQM permit number for the facility.
- 2. If there were violations of permit effluent limitations during the month, check the box next to "Violations of Permit Effluent Limitations." (Note if using the electronic version of this form, check the boxes first, and then select Tools Unprotect Document to enter additional information). Enter the date of the violation (if a violation of a minimum or maximum limit, the date of sample collection, or if a violation of an average limit, the end of the monitoring period), the parameter name, the permit limit and units, the statistical code (e.g., "MIN", "MAX", "MO AVG", etc.), the measured result and units, the cause of the violation and the corrective action taken. If there are more than two violations during the monitoring period and/or if the space provided is insufficient to explain the cause or corrective action, please attach additional pages.
- 3. If there are Sanitary Sewer Overflow (SSO) discharges or other unauthorized discharges from the facility (e.g., spills, leaks, etc.) that enter or have the potential to enter waters of the Commonwealth, including groundwater, notify DEP by phone as soon as possible, and document the discharge on this form by checking the box next to "Sanitary Sewer Overflows and Other Unauthorized Discharges." Record the event (discharge) date, the substance discharged (e.g., sewage, on-site chemicals, etc.), the location where the discharge occurred (e.g., manhole number, pump station name, equipment description, etc.), the volume discharged (gallons), the approximate duration of the discharge (hours), the receiving waters (name of stream or groundwater), the impact on the receiving waters, if observed (e.g., solids deposition, foam, fish kill, etc.), the cause of the discharge, and the date on which the Department was verbally notified. If there are more than two discharge events during the monitoring period and/or if the space provided is insufficient to explain the discharge, please attach additional pages.
- 4. If there are other violations of the permit, check the box next to "Other Permit Violations," and check the appropriate box that describes the violation type. If not identified on the form, check the box next to "Other" and provide a written explanation. If the space provided is insufficient to explain the violation, please attach additional pages.
- 5. Type your name and title and sign and date the form after reading the certification statement.



If you have questions about completing this form, contact the Clean Water Program Operations Section of the Department in your region:

Southeast Region – (484) 250-5970 Northeast Region – (570) 826-2553 Southcentral Region – (717) 705-4707 Northcentral Region – (570) 327-0532 Southwest Region – (412) 442-4060 Northwest Region – (814) 332-6942

WHOLE EFFLUENT TOXICITY (WET) TEST SUMMARY REPORT

The Whole Effluent Toxicity (WET) Test Summary Report should be completed and submitted to the DEP regional office that issued the NPDES permit as part of the WET test report for each valid test. Submission of the complete WET Test Summary Report may be a requirement of the NPDES permit.

COVER SHEET

A separate cover sheet should be used for each species tested. Identify the NPDES permit number and the name of the facility for which WET tests were completed. Check the appropriate boxes for the Species Tested and the Test Type. Check the "Yes" box to indicate if the test is a "Re-Test" and enter the date of the original test; if the test is not a Re-Test, check the "No" box.

Sample Information

In general, three samples should be collected for chronic tests and one sample for acute tests. For each sample collected provide the following information:

- Date and time the sample was taken;
- Sample source (i.e., outfall number);
- Temperature of the sample in degrees Celsius;
- Holding time before the sample was used for a test, in hours;
- Chlorine concentration of the sample in mg/L; and
- Whether or not the sample was dechlorinated prior to use in the test (Yes/No).

Test Conditions

- Provide the date and time of test initiation and termination.
- Check the appropriate box to indicate whether the test was renewal or non-renewal. If a renewal test, provide the frequency of renewals.
- Provide the dilution series (5 dilutions, not including control) used for the test and the Target Instream Waste Concentration (TIWC). The TIWC concentration may be specified in the NPDES permit. The TIWC dilution is used to determine whether a test is considered "pass" or "failure."
- Indicate the age of the organisms, in hours, at the start of the test.
- List the number replicates of each dilution and the number of organisms in each replicate.
- Provide the source of the organisms and the feeding regimen. Feeding regimen should include type of food and frequency of feeding.
- Provide the light intensity throughout the test and the photoperiod.
- Check the appropriate box for each Yes/No each quality assurance question and attach log sheets for temperature, DO, and pH. If modifications or deviations were made to approved EPA methods, attach a sheet explaining the changes and the agency that approved such changes.

Dilution/Reagent Water

In accordance with 25 Pa. Code § 252.403(h), at least once every 30 days a laboratory must verify and document that the reagent grade water meets specific criteria for conductivity, pH and Total Residual Chlorine (TRC). Provide the following information about the dilution water used for the test:



- The date of the most recent test for chemistry;
- Conductivity in µmhos/cm;
- pH in SU; and
- TRC in mg/L.

Control Results

Provide the following information about the results in the control condition:

For chronic tests:

- The mean percent survival of the organisms in each dilution.
- For Ceriodaphnia, the percent of organisms that produced 3 broods and the mean young per surviving female. For Pimephales, the mean dry weight of the survivors.

For acute tests: the mean percent survival of the organisms in each dilution.

Reference Toxicity Tests

Provide the date of the most recent reference toxicity test.

Check the appropriate box to indicate whether the same test conditions were used for the reference test as the WET test, and if the test acceptability criteria in the EPA method were met.

Tests Results

Indicate if the control was compared to the TIWC listed in the permit to determine if each test endpoint was considered a "pass" or "failure." If a dilution other than the TIWC dilution was used, check the box for "Other" and indicate the dilution (% effluent).

For the species tested, check the appropriate box(es) to indicate whether each applicable endpoint result is considered a "pass" or "failure."

NOTE – If required by the NPDES permit, DEP's WET Analysis Spreadsheet (see www.depweb.state.pa.us/wett) must be used to determine pass/failure results, and a printout of the spreadsheet results must be attached to the WET report submission to DEP.

DATA SHEET

The purpose of the Data Sheet is for laboratories accredited by DEP to conduct WET testing to provide DEP with a standardized form to report results for test replicates. If a printout of DEP's WET Analysis Spreadsheet is attached to the report, submission of the Data Sheet is optional. For each species and endpoint, six conditions (columns) are available to enter replicate data. One column should record replicate data for the control condition, and the other five columns should record replicate data for each dilution used in the test.

The tables provide up to 15 replicates per species ("Rep. No."). If the Data Sheet is completed, enter the NPDES permit number and name of the facility and complete the remainder of the form as follows:

- Check the box for the appropriate species tested; if a species other than Ceriodaphnia/Pimephales was tested, indicate the species name.
- List the number of organisms in each replicate at the start of the test.
- Indicate the method by which the pass/failure determination was made for the test by checking the box for TST (Test for Significant Toxicity), Other Hypothesis Testing (e.g., NOEC, LC50, etc.) or Other (specify the method if Other).
- In each table header, record the value of the dilution series used.
- In the survival columns of each table, list the number of organisms still alive in each replicate at the termination of the test.
- In the reproduction columns, list the number of young in each replicate at the termination of the test.



In the growth columns, list the mean weight per original organism in each replicate at the termination of the test.



SOUTHCENTRAL REGIONAL OFFICE CLEAN WATER PROGRAM

FILE COPY

Application Type	Renewal
Facility Type	Sewage
Major / Minor	Major

NPDES PERMIT FACT SHEET ADDENDUM

Application No. APS ID

PA0026263

276235 Authorization ID 937237

York City Sewer Authority	Facility Name	York City WWTP	
345 East Market Street	Facility Address	1701 Black Bridge Road	
York, PA 17403	_	York, PA 17402	
James Gross	Facility Contact		
(717) 845-9496	Facility Phone	_(717) 845-2794	
77236	Site ID	453212	
4952	Municipality	Manchester Township	
Trans. & Utilities - Sewerage Systems	County	York	
Bulletin 4/22/2017	EPA Waived?	No	
Date 5/22/2017	If No, Reason	Major Facility, Significant CD Discharge Pretreatment	
	345 East Market Street York, PA 17403 James Gross (717) 845-9496 77236 4952 Trans. & Utilities - Sewerage Systems 3ulletin 4/22/2017	345 East Market Street York, PA 17403 James Gross (717) 845-9496 77236 4952 Trans. & Utilities - Sewerage Systems Sulletin 4/22/2017 Facility Address Facility Contact Facility Phone Site ID Municipality County EPA Waived?	

Internal Review and Recommendations

A draft permit was prepared on April 11, 2017 and a notice of the draft permit was published in the Pennsylvania Bulletin on April 22, 2017 for public comments for 30 days. During the public commenting period, US EPA has indicated via email dated May 11, 2017 that US EPA has no comments on the draft permit requirements pertaining to WETT, pretreatment and Chesapeake Bay TMDL WLAs. On May 19, 2017, Mr. Randall Hurst of Mette, Evans & Woodside submitted a draft permit comment letter on behalf of the York City Sewer Authority. DEP has summarized and addressed these comments as follows:

1. Fecal Coliform Limits

Comment: Requesting the fecal coliform results be expressed as MPN/100mL, not CFU/100mL.

Response: Fecal Coliform will be measured as no./100mL upon issuance of the final permit.

2. Daily UV monitoring

Comment:

Requesting the UV transmittance monitoring frequency be decreased from daily to weekly as weekly transmittance testing is adequate to ensure proper operation of the disinfection system.

Response:

In general, a monitoring of UV transmittance is conducted by simply recording UV output values displayed on a monitoring device of the UV disinfection system. A site visit dated June 28, 2016 revealed that the facility is already equipped with UV monitoring device which displays UV transmittance in %. No additional cost is therefore expected. The daily monitoring of UV output has been assigned to all major and minor sewage facilities equipped with similar technology. No change is necessary.

3. Ambiguous narrative limits for color and turbidity

Requesting the following language drafted by Mr. Starosta of Central Office be included to clarify the existing Part A.1.d narrative permit requirement (see May 19, 2017 draft comment letter for more detailed explanation):

"For the purpose of determining compliance with Part A, Additional Requirement 1.d., the Department (DEP) will compare conditions in the receiving water upstream of the discharge with conditions in the receiving water

Approve	Return Deny Signatures	Date
ľχ		
/ \	Jinsu Kim Environmental Engineering Specialist	July 20 , 2017
	Maria D. Bebenek, P.E. / Program Manager	7/31/17

100 feet downstream of the discharge point to determine if there is a significant objectionable change that would be obvious to anyone".

Response: The language stated as having been drafted by Central Office was not the approved language provided for the previous permits referenced in the comment letter. This has been officially confirmed with DEP Central Office Bureau of Clean Water. A number of similar comments were received for draft permits for POTWs throughout the state requesting the existing condition stated in Part A.1.d of the permit to be elucidated. As a result, DEP Central Office Bureau of Clean Water has decided to modify this condition as follows:

"Foam or substances that produce an observed change in the color, taste, odor or turbidity of the receiving water, unless those conditions are otherwise controlled through effluent limitations or other requirements in this permit. For the purpose of determining compliance with this condition, DEP will compare conditions in the receiving water upstream of the discharge to conditions in the receiving water approximately 100 feet downstream of the discharge to determine if there is an observable change in the receiving water. (25 Pa Code § 92a.41(c))"

This DEP-approved condition has been included in all latest permit renewals as well as new permits.

If the operators observe a discharge that satisfies one or more of the prohibitions in Part A, Additional Requirements, No. 1 (subject to clarification in the Part C condition identified above), such discharges would constitute violation(s) of wastewater treatment standards and/or water quality standards. DEP would not generally classify these violations as triggering the need for immediate reporting under 25 Pa. Code §§ 91.33 and 92a.41(b), if the discharges do not result from an unusual event at the plant, e.g., spill, accident, unanticipated pass-through, etc. Therefore such violations may usually be reported to DEP in compliance with Part A.III.C.5. of the permit on the "Non-Compliance Reporting Form" as part of the DMR. If there is a spill, accident, unanticipated pass-through, or other incident that, in the operator's judgment, may endanger downstream users or causes or threatens to cause pollution, such incidents are subject to immediate oral reporting in accordance with 92a.41(b) (i.e., within 4 hours). There are no thresholds on reporting, so it is best to notify DEP any time such incidents occur. Evaluation of the observable change will be performed, if necessary, through a visual observation by DEP field staff during any routine inspection or may be following any complaint from water users to determine if the discharge causes any adverse water quality impacts on the receiving water. DEP would anticipate that discharged foam should dissipate within 100 feet downstream of the discharge, which would be authorized per the Part C condition. If foam is observed greater than 100 feet downstream, DEP field staff will use discretion in evaluating whether the condition would rise to the level of a violation of treatment or water quality standards. DEP field staff will receive practical field training on this topic in the future.

4. Improper inclusion of Chapter 94 requirements as an NPDES Permit condition

Comment: Requesting the last sentence of the condition specified in Part A.III.C.2.b(ii) of the draft permit be removed since this sentence, according to the permittee, recites the overload conditions as stated in Chapter 94 as an NPDES permit condition in which these conditions constitute possible violations of the City's Part II (WQM) permit, not the NPDES permit.

Response: The intent of the language is to point out that acceptance of additional wastes may not put a facility in hydraulic or organic overload condition as defined in 25 Pa Code § 94.1. It does not provide remedies for hydraulic or organic overload conditions. The remedies for such conditions remain in 25 Pa Code Chapter 94. Accordingly, the language will remain unchanged in the permit.

5. Sludge estimate computations

Comment: Sections B.I.C.4.c and C.II.C require annual submission of a "Sewage Sludge Management Inventory" that includes both actual data and a theoretical calculation using a very simplistic screening tool that appears in the EPA Composite Correction Program Guidance Manual mentioned in the last sentence of paragraph C.II.C. Based on the review, it is not a reliable method of assessing treatment plant performance and was never intended for that purpose. Moreover, the simplistic method described in the manual does not take into consideration influent TSS, solids added to the process by internal return flows, added treatment chemicals. the use of the tertiary sand filters, and other treatment processes at the York treatment plant, and thus cannot accurately estimate the actual sludge production of this plant. The Authority objects to a Permit requirement

to submit "estimates" of sludge production known and proved to be erroneous and inaccurate and requests that this provision be deleted from the final issued Permit.

Response: The intent of this condition is simply to ensure proper operation of the treatment facility. This is a standard condition applies to all facilities managing or disposing sewage sludge; therefore, the condition will be maintained in the permit. It is noteworthy that comparison of actual to estimated sludge production values is not the basis for a compliance action. U.S. EPA handbook referenced in Part C.II.C condition of the draft permit is developed to assist facilities to economically achieve performance improvements in the treatment process. Specifically, the worksheet available in Appendix L of this handbook can be used to evaluate the capacity of existing units including sludge handling system. In order to be reasonably consistent with EPA's approach, DEP provides its own version of the spreadsheet¹. This spreadsheet is used to estimate the solids generated in the treatment process and the calculator on this spreadsheet considers BOD loadings into and out of the treatment facility along with processing of the solids throughout the treatment process (i.e., treatment and digestion factors). The treatment and digestion factors are from the EPA handbook and were determined, by EPA, after reviewing many years of wastewater treatment performance data. Solids volumes generated in the treatment process should be similar to solids volumes removed from the treatment process and hauled off-site, stored on-site, or using another method for disposal or holding prior to disposal. Since most waste treatment facilities still use one of the treatment types included in the handbook/spreadsheet, the resulting data would be a very good estimate.

6. WET Test Reporting and Retesting

Comment: The time periods for reporting WET test results to DEP and initiating a re-test if necessary ("45 days from test completion") require interpretation to be acceptable. Since the laboratory may take weeks to finalize the test results, perform the statistical analysis, and complete QA protocols before drafting, printing, proofing and mailing the final report to the Authority, the Authority may find itself with only a day or two between receipt of a report and the time limit for meeting one or the other of these requirements.

Response: The existing condition requiring the permittee to conduct a retest within 45 days of test completion will remain unchanged in the permit. In the event that a WET test results in a failure, confirmation of toxicity and/or steps to reduce or eliminate the toxicity should be done as expeditiously as possible. The suggested language would not further that goal, as these is no timeframe for a laboratory to produce results.

7. Total Residual Chlorine

Comment: Section C.V.D is ambiguous and appears to conflict with the numerical TRC limits in Part A and the compliance provisions of Section 402 of the Clean Water Act, specifically 33 U.S.C § 1342(k). Paragraph C.V.D should either be deleted or the Department should confirm that compliance with the numerical effluent limitations for TRC in Part A constitutes compliance with this paragraph.

Response: DEP acknowledges that compliance with effluent limitations for TRC constitutes compliance with this paragraph where representative samples for TRC analysis are collected. The paragraph serves as a reopener provision in the event it is determined more stringent TRC limits should be established, which would only be accomplished through a major amendment to the permit, subject to the appropriate comment period.

8. Bypass Reporting

Comment: The bypass reporting requirements at Part B.I.G reflect the federal regulations at 40 CFR § 122.41(m). DEP has acknowledged that at certain high flows, discharge from Outfall 001 is necessary to ensure the proper operation of the treatment plant and does not present a threat to public health. Hence, the Authority believes that when a discharge from Outfall 001 occurs, it falls under the provisions of 40 CFR §122.41(m)(2) and Permit paragraph B.I.G.1: "bypassing not exceeding permit limitations." Thus, we understand that a separate report under the 24-hour reporting requirements in Part A.III.C.4.b is not required when a bypass discharging from Outfall 001 occurs during a high flow event as long as the applicable effluent limits are met. We understand that the monitoring and reporting requirements in Sections A.I.A and A.I.C apply to discharges from Outfall 001.

3

¹ See http://www.dep.pa.gov/Business/Water/CleanWater/WastewaterOps/Pages/Wastewater-Operator-Resources.aspx, then find "Operator Tools" Spreadsheet.

Response: The 24-hour notice is not required for discharges of treated sanitary wastewater via Outfall 001 occurred only during operation conditions (events) specified in Part C.VI.E. of the draft permit. The permittee however must comply with the 24-hour reporting requirement of the permit if discharges of treated sanitary wastewater or any other wastewater (except for stormwater) via Outfall 001 occurred during any other conditions (events).

It is recommended that the permit be issued. All permit requirements, except for units for fecal coliform, will remain the same as those specified in the April 11, 2017 draft permit. The change specified in item no.1 is is a minor change; therefore, DEP will finalize the permit.

Kim, Jin Su

From:

Lopez Carrasquillo, Valerie < lopezcarrasquillo.valerie@epa.gov>

Sent:

Thursday, May 11, 2017 10:16 AM

To:

Kim, Jin Su

Cc:

Bebenek, Maria; Furjanic, Sean; Trulear, Brian; Cruz, Francisco; Hales, Dana; Blanco-

Gonzalez, Joel; Lovell, John; Green, Margaret

Subject:

York City Sewer Authority WWTP Draft Permit (PA0026263)

Jinsu,

According to the Memorandum of Agreement (MOA) between the United States Environmental Protection Agency (EPA) Region III and the Pennsylvania Department of Environmental Protection (PADEP), the EPA has reviewed the draft National Pollutant Discharge Elimination System (NPDES) permit for:

Draft Permit: York City Sewer Authority WWTP

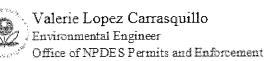
NPDES Number: PA0026263 EPA-received: April 12, 2017

This is a major permit that discharges to Codorus Creek. EPA has chosen to perform a limited review of the draft permit based on the whole effluent toxicity (WET), pretreatment and wasteload allocation (WLA) requirements of the approved Chesapeake Bay TMDL. As a result of our limited review, we will not be providing any comments.

If for any reason, the draft permit is modified from the version that was submitted to us on April 12, 2017, please forward a copy of the new draft permit to us for review before issuance.

Should you have any questions or concerns regarding this matter, please contact us.

Thanks,



Water Protection Division U.S. EPA Region 3 1650 Arch Street Philadelphia, PA 19103 215-814-5752 RANDALL G. HURST, ESQUIRE

DIRECT DIAL: (717) 231-5215 E-MAIL: rghurst@mette.com

DEP SOUTHCENTRAL REGION WATERWAYS & WETLANDS

May 19, 2017

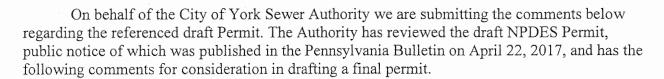
Jinsu Kim Clean Water Program Department of Environmental Protection 909 Elmerton Avenue Harrisburg, PA 17110-8200

Re: York City Sewer Authority

NPDES Permit No. PA-0026263

Comments on Draft Permit

Dear Mr. Kim:



- 1. **Fecal Coliform Limits**. Fecal Coliform limits are expressed as CFU/100 ml, which is the correct measurement standard when the membrane filtration method is used for testing. However, the Authority uses an EPA-approved test called Colilert-18, which generates results as Most Probable Number per 100 ml (MPN/100 ml). Therefore, the permit should state that the fecal coliform results are to be expressed as MPN/100 ml, not CFU/100 ml. We note that the applicable regulations (§92a.47(a)(4) and (5)) do not mandate a particular type of measurement or a particular expression of the results.
- 2. **Daily UV monitoring**. The Authority believes that the costs of daily testing for UV transmittance are not justified. If transmittance becomes impaired, the results will quickly become evident by gradual increases in fecal coliform counts. Additionally, since lower UV transmittance is usually the result of increased TSS, that test, too, will provide an indication of possible reduced transmittance. The Authority believes that weekly transmittance testing is adequate to ensure proper operation of the disinfection system.

3. Ambiguous narrative limits for color and turbidity.

The requirements at Additional Requirement #1, item d, are ambiguous and require clarification in order to be acceptable. The Authority recognizes that the text of this section is derived from the regulations. However, the fact that the regulations are unintelligibly vague does not justify vague and ill-defined discharge and reporting requirements in the Permit that the Authority and its Operators cannot understand or comply with. The Authority requires

clarification and explanation of these narrative effluent limits in order to comply with these Permit requirements.

The Authority's Certified Operators are legally required to recognize actual or potential permit violations and report to the Authority any occurrence, its cause, the process control decisions necessary to correct it, and the probable effect on human health and the environment. 25 Pa. Code, § 302.1201(c). Furthermore, violations of any permit limits are reportable by the Authority to DEP. The effluent limitations in Additional Requirement #1 state that "the permittee may not discharge . . . (d) Foam or substances that produce an observed change in the color, taste, odor or turbidity of the receiving water, unless those conditions are otherwise controlled through effluent limitations or other requirements in this permit." No effluent limitations or other requirements for these technology-based limits appear in the draft Permit. Thus, the applicable compliance criterion is "an observed change."

In order to monitor the treatment plant discharge for violations or potential violations, the Authority and its Certified operators must know how an "observed change in the color, taste, odor or turbidity of the receiving water" is to be measured. While we appreciate that the Permit provides that the observations are to be made 100 feet downstream of the discharge, we do not know what is to be considered a violation for reporting or compliance purposes.

We request that the following language, drafted by Mr. Starosta of Central Office and included in many other NPDES permits, be include in the final permit:

"For the purpose of determining compliance with this condition, DEP will compare conditions in the receiving water upstream of the discharge with conditions in the receiving water approximately 100 feet downstream of the discharge to determine if there is a significant objectionable change that would be obvious to anyone."

The City requests that it and its operators be treated the same as other permittees in the state and that the standard language quoted above be included in the final permit.

4. Improper inclusion of Chapter 94 requirements as an NPDES Permit condition.

The last sentence of the unnumbered paragraph following paragraph A.III.C.2.b(ii) (p. 14) recites the overload conditions as stated in Chapter 94 as an NPDES Permit condition. However, these conditions constitute possible violations of the City's Part II (WQM) permit, not the NPDES permit; Chapter 94 is not an NPDES regulation and provides separate specific remedies for conditions constituting a hydraulic or organic overload. It is improper and confusing to also make a hydraulic or organic overload an NPDES Permit violation and subject to enforcement as such. The Authority objects to making every DEP regulatory requirement, whether or not related to the discharge, subject to Federal and citizen suit enforcement liability. We request that the second phrase in the last sentence of the unnumbered paragraph be deleted.

5. Sludge estimate computations

Section Sections B.I.C.4.c and C.III.C require annual submission of a "Sewage Sludge Management Inventory" that report is to include both actual data and a theoretical calculation

using a very simplistic screening tool that appears in the EPA Composite Correction Program Guidance Manual ("CCP Manual") mentioned in the last sentence of paragraph C.III.C. The Authority has reviewed the *CCP Manual* and believes that the methodology in that publication is overly simplistic—and therefore inaccurate—since the method is intended only for use as a preliminary screening tool; it is not a reliable method of assessing treatment plant performance and was never intended for that purpose. For instance, the simplistic method described in the *CCP Manual* does not take into consideration influent TSS, solids added to the process by internal return flows, added treatment chemicals, the use of the tertiary filters, and other treatment processes at the York treatment plant, and thus cannot accurately estimate the actual sludge production of this plant. The Authority objects to a Permit requirement to submit "estimates" of sludge production known and proved to be erroneous and inaccurate and requests that this provision be deleted from the final issued Permit. A copy of a response to comments and final permit issued by another DEP office that they agree with this assessment and remedy is enclosed.

- 6. WET Test Reporting and Retesting. The time periods in ¶¶ C.IV.B. 2 & 3 for reporting WET test results to DEP and initiating a re-test if necessary ("45 days from test completion") require interpretation to be acceptable. Since the laboratory may take weeks to finalize the test results, perform the statistical analysis, and complete QA protocols before drafting, printing, proofing and mailing the final report to the Authority, the Authority may find itself with only a few days between receipt of a report and the time limit for meeting one or the other of these requirements: an impossible situation to be placed in. Other DEP permit writers have agreed that the Permittee should not be subject to penalties for a Permit violation for a late report from the laboratory. These other permit writers have agreed that the 45 day period stated in these paragraphs should start when the report is received from the laboratory, not on the day that the test is completed in the laboratory. No modification to the Permit is necessary as long as that interpretation appears in the administrative record. We are enclosing a copy of information regarding this reasonable interpretation by another DEP office and request that the Authority be treated in the same fair and reasonable manner as other permittees.
- 7. Total Residual Chlorine. Section C.VI.D is ambiguous and appears to conflict with the numerical TRC limits in Part A and the compliance provisions of Section 402 of the Clean Water Act, specifically 33 U.S.C. § 1342(k). Paragraph C.VI.D should either be deleted or the Department should confirm that compliance with the numerical effluent limitations for TRC in Part A constitutes compliance with this paragraph.
- 8. Bypass Reporting. The bypass reporting requirements at § B.I.G reflect the federal regulations at 40 CFR § 122.41(m). DEP has acknowledged that at certain high flows, discharge from Outfall 001 is necessary to ensure the proper operation of the treatment plant and does not present a threat to public health. Hence, the Authority believes that when a discharge from Outfall 001 occurs, it falls under the provisions of 40 CFR § 122.41(m)(2) and Permit paragraph

¹ See *CCP Manual* (EPA 625/6-84-008) ¶ 3.4.1.3, page 30: "Scoring for sludge handling capability is not as straightforward as for the aerator or clarifier ... because the capacity of existing facilities cannot be easily assessed due to the variability that exists in precalculated 'standards' for process or loading parameters."

B.I.G.1: "bypassing not exceeding permit limitations." Thus, we understand that a separate report under the 24-hour reporting requirements in § A.III.C.4.b is not required when a bypass discharging from Outfall 001 occurs during a high flow event as long as the applicable effluent limits are met. We understand that the monitoring and reporting requirements in Sections A.I.A and A.I.C apply to discharges from Outfall 001.

If there are questions or concerns about any of these issues, we request the opportunity to meet with you and discuss them prior to the issuance of a final Permit. Please contact Mr. James Gross at 717-849-2302.

Very truly yours,

Randall G. Hurst

Enclosure

cc:

J. Gross

P. Gross

V. Chavez

S. MacNeal, Esq.

3. Section 95.4 Time Extension Request

In some cases, the final WQBEL may not be technologically achievable using any combination of control options. In this event, the permittee has the option of requesting an extension under the requirements contained in 25 Pa Code, Section 95.4 of DEP's Rules and Regulations. If the permittee elects to submit the § 95.4 time extension request, the request must be submitted with Phase II of the TRE report. Form 3800-FM-BPNPSM0302 should be used for any such requests.

8. Solids Management - Part C IV.A has been modified to read as follows:

The permittee shall manage and properly dispose of sewage sludge and/or biosolids by performing sludge wasting that maintains an appropriate mass balance of solids within the treatment system. The wasting rate must be developed and implemented considering the specific treatment process type, system loadings, and seasonal variation while maintaining compliance with effluent limitations. Holding excess sludge within clarifiers or in the disinfection process is not permissible.

- 9. Calculation of solids producing using incorrect and inapplicable methods The requirement to estimate sludge production using the U.S. EPA handbook "Improving POTW Performance Using the Composite Correction Approach" (EPA-625/6-84-008)) has been removed. The Authority will still be required to estimate sludge production based on a sound and justifiable methodology.
- 10. WET Test Reporting DEP interprets "within 45 days of test completion" as meaning within 45 days of the permittee's receipt of the test report from the laboratory.
- 11. Total Residual Chlorine The condition at Part C VIII.D regarding optimizing total residual chlorine dosages has been removed from the permit.

An internal review of the permit resulted in corrections to Part A of the permit and DMR effective dates so that the compliance schedules for TRC and Total Copper are properly represented. No comments were received from EPA or the public.

Based on the above responses to the Authority's comments it is recommended that the permit be redrafted and published in the PA Bulletin for a thirty-day public commenting period.

Program modification is necessary whenever there is a significant change in the operation of the pretreatment program that differs from the information contained in the permittee's submission, as approved under 40 CFR 403.11.

- G. Procedure for Pretreatment Program Changes Upon submittal by the permittee, and written notice of approval by the Approval Authority to the permittee of any changes to the permittee's approved pretreatment program, such changes are effective and binding upon the permittee unless the permittee objects within 30 days of receipt of the written notice of approval. Any objection must be submitted in writing to EPA and DEP.
- H. Correspondence The Approval Authority shall be EPA at the following address:

Pretreatment Coordinator (3WP41) U.S. Environmental Protection Agency 1650 Arch Street Philadelphia, PA 19103-2029

IV. SOLIDS MANAGEMENT

- A. The permittee shall manage and properly dispose of sewage sludge and/or biosolids by performing sludge wasting that maintains an appropriate mass balance of solids within the treatment system. The wasting rate must be developed and implemented considering the specific treatment process type, system loadings, and seasonal variation while maintaining compliance with effluent limitations. Holding excess sludge within clariflers or in the disinfection process is not permissible.
- B. The permittee shall submit the Supplemental Reports entitled, "Supplemental Report Sewage Sludge/Biosolids Production and Disposal" (Form No. 3800-FM-BPNPSM0438) and "Supplemental Report Influent & Process Control" (Form No. 3800-FM-BPNPSM0436), as attachments to the DMR on a monthly basis. When applicable, the permittee shall submit the Supplemental Reports entitled, "Supplemental Report Hauled In Municipal Wastes" (Form No. 3800-FM-BPNPSM0437) and "Supplemental Report Hauled In Residual Wastes" (Form No. 3800-FM-BPNPSM0450), as attachments to the DMR.
- C. By March 31 of each year, the permittee shall submit a "Sewage Sludge Management Inventory" that summarizes the amount of sewage sludge and/or blosolids produced and wasted during the calendar year from the system. The "Sewage Sludge Management Inventory" may be submitted with the Municipal Wasteload Management Report required by Chapter 94. This summary shall include the expected sewage sludge production compared with the actual amount disposed during the year. Sludge quantities shall be expressed as dry weight in addition to gallons or other appropriate units.

V. TOXICS REDUCTION EVALUATION (TRE)

- A. Water Quality Based Effluent Limitations (WQBELs)
 - Based on the discharge and stream data currently available to DEP, the WQBELs for Total Copper on Page 5 are necessary to protect the receiving stream uses designated in the DEP's Rules and Regulations.
 - 2. Within 60 days following the permit effective date (PED), the permittee must submit notification to DEP verifying that one of the following options has been selected.
 - a. The permittee accepts DEP's data, assumptions and water quality modeling which was the basis for the WQBELs and <u>will not</u> proceed with the <u>optional</u> site-specific data collection activities described in Section C of this condition. The WQBELs will be considered final and enforceable three years after the PED and should be used as the basis for Phase II of the TRE.
 - b. During the period following permit issuance, and prior to the WQBELs becoming final, the permittee agrees to conduct site-specific discharge and/or stream data collection and provide DEP with data to verify or refine the WQBELs in accordance with the schedule in Section B.2, herein. If warranted, modified WQBELs will be established through a permit amendment. Any such permit amendment

York Act 537 Special Study

Appendix 3



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



CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: 2019 2020

GENERA	L INFORMATION
Permittee Name: York City Sewer Authority	Permit No.: PA 0026263
Mailing Address: 345 E Market St	Effective Date: 9/1/2017
City, State, Zip: York PA 17403	Expiration Date: 8/31/2022
Contact Person: Philip Briddell	Renewal Due Date: 3/4/2022
Title: Chair	Municipality: Manchester Township
Phone: 717-852-2471	County: York
Email: pbriddell@susre.com	Consultant Name: varies by municipality
CHAPTER 94 R	REPORT COMPONENTS
Check the appropriate boxes: Line graph for flows attached DEP Chapter 94 Spreadsheet used (Attachme Section 1 is not applicable (report is for a collection). Attach to this report a line graph depicting the mo	
month for the past 5 years and projecting the organic depicting the organic design capacity of the treatmet. Check the appropriate boxes: Line graph for organic loads attached	nic loads for the next 5 years. The graph must also include a line ent plant per the WQM permit. (25 Pa. Code § 94.12(a)(2)) ent 1 - EDUs back-calculated from flows using 350 gpd.)
organic projections. In all cases, include a desc	d to determine projections, discuss the basis for the hydraulic and cription of the time needed to expand the plant to meet the load the projections should be included in an appendix to this report. (25)

4.	Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))
	 Check the appropriate boxes: ☑ Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (Attachment 2) ☑ List summarizing each extension or project attached (Attachment 2) ☑ Schedules describing how each project will be completed over time and effects attached (Attachment 2)
	Comments: See Attachment 2 - municipal collection system reports.
5.	Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5)) See Attachment 2 - summary of activities. See Attachment 2 - municipal collection system reports. See Attachment 3 - sampling frequency, quality assurance, data analyses.
6.	Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))
	 Check the appropriate boxes: ✓ System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event. ✓ System did not experience capacity-related bypassing, SSOs or surcharging during the report year.
	Comments: See Attachment 2, individual municipal collection system reports.

7.	Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum pumping rate with present maximum flows and the projected 2-year maximum flows for each station. (25 Pa. Code § 94.12(a)(7))				
	Check the appropriate boxes:				
	The collection system does not contain pump stations				
	▼ The collection system does contain pump stations (Number – 21)				
	☑ Discussion of condition of each pump station attached (Attachment 2) (municipal collection system reports)				
8.	f the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the nformation listed below. (25 Pa. Code § 94.12(a)(8))	ie			
	A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has no previously been submitted.				
	 A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial wast discharges into the sewer system during the past year. 	:e			
	c. A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant of in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describ pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers.	or oe al			
	Check the appropriate boxes:				
	Industrial waste report as described in 8 a., b. and c. attached				
	Industrial pretreatment report as required in an NPDES permit attached (Attachment 4 - Adheres to USEPA Region 3 2020 annual report guidance.)				
9.	Existing or Projected Overload.				
	Check the appropriate boxes: NA.				
	This report demonstrates an existing hydraulic overload condition.				
	☐ This report demonstrates a projected hydraulic overload condition.				
	☐ This report demonstrates an existing organic overload condition.				
	This report demonstrates a projected organic overload condition.				
	f one or more boxes above have been checked, attach a Corrective Action Plan (CAP) to reduce or eliminate present projected overloaded conditions under §§ 94.21 and/or 94.22 (relating to existing overload and projected overload). (25 Pa. Code § 94.12(a)(9))				
	Corrective Action Plan attached (Attachment)				
10.	Where required by the NPDES permit, attach a Sewage Sludge Management Inventory that demonstrates a mas	S			
	balance of solids coming in and leaving the facility over the previous calendar year.				
	Solids Management Inventory attached (Attachment 5)				

 For facilities with CSOs and where required by the NPDES permit, attach an Annual CSO Report (including satellite combined sewer systems). 				
☐ Annual CSO Report attached (Attachment) NA				
12. For POTWs, attach a calibration report documenting that	at flow measuring, indicating and recording equipment has			
been calibrated annually. (25 Pa. Code § 94.13(b))				
文 Flow calibration report attached (Attachment 6)				
RESPONSIBLE OFFIC	IAL CERTIFICATION			
I certify under penalty of law that this document and all attac accordance with a system designed to assure that qualified submitted. Based on my inquiry of the person or persons wh for gathering the information, the information submitted is, to complete. I am aware that there are significant penalties for and imprisonment for knowledge of violations. See 18 Pa. C.S.	personnel properly gathered and evaluated the information to manage the system or those persons directly responsible to the best of my knowledge and belief, true, accurate, and submitting false information, including the possibility of fine			
Philip Briddell	Philip W. Burdell			
Name of Responsible	Signature			
Official 717-852-2471	March 24. 2021			
Telephone No.	Date			
PREPARER CE	RTIFICATION			
I certify under penalty of law that this document and all attachs or supervision in accordance with a system designed to assu the information submitted. The information submitted is, to complete. I am aware that there are significant penalties for and imprisonment for knowledge of violations. See 18 Pa. C.S.	tre that qualified personnel properly gathered and evaluated the best of my knowledge and belief, true, accurate, and submitting false information, including the possibility of fine			
Veronica Whaley	90			
Name of Preparer	Signature			
717-812-1444	3.24.2021			
Telephone No.	Date			



PADEP Chapter 94 Spread: Sewage Treatment Pl

Reporting Year:

2020

Facility Name:

YORK CITY WWTP

Permit No.:

Persons/EDU:

3.5

Existing Hydraulic Design Capacity: Upgrade Planned in Next 5 Years? Future Hydraulic Design Capacity: 26 NO MGD
Year:

Existing Organic Design Capacity: Upgrade Planned in Next 5 Years? Future Organic Design Capacity:

PA0026263

62,884 NO Ibs BOD5/day
Year:
Ibs BOD5/day

	Monthly Average Flows for Fast Five Tears (MCD)				
Month	2016	2017	2018	2019	2020
January	10.479	8.999	8.921	14.69	11.349
February	18.736	8.57	14.585	13.7	10.496
March	11.506	10.679	12.268	16.675	8.643
April	9.743	12.132	12.13	11.495	9.651
May	12.032	9.759	13.199	14.572	9.682
June	10.618	8.376	14.067	9.466	8.653
July	8.478	10.074	16.747	8.368	7.503
August	8.595	10.999	16.741	8.527	10.273
September	8.268	9.65	15.092	7.675	7.823
October	7.845	8.671	9.515	8.956	7.579
November	7.364	8.931	18.25	9.376	7.901
December	8.166	7.726	14.495	10.658	10.306
Annual Avg	10.153	9.547	13.834	11.18	9.155
Max 3-Mo Avg	13.574	10.857	16.193	15.812	10.834
Max : Avg Ratio	1.34	1.14	1.17	1.41	1.18
Existing EDUs	29,008.0	27,277.0	39,526.0	31,942.0	26,157.0
Flow/EDU (GPD)	350.0	350.0	350.0	350.0	350.0
Flow/Capita (GPD)	100.0	100.0	100.0	100.0	100.0
Exist. Overload?	NO	NO	NO	NO	NO

Monthly	Average BOD5	Loads for Pa	ast Five Years	(lbs/day)

Month	2016	2017	2018	2019	2020
January	20,960	23,625	21,515	21,097	19,682
February	23,249	21,977	20,999	20,749	21,460
March	21,045	21,341	20,660	25,450	19,238
April	22,580	19,392	22,070	22,455	18,387
May	23,824	21,230	21,584	20,056	15,381
June	24,460	21,351	20,517	18,956	15,719
July	20,470	19,104	19,875	18,564	14,427
August	20,837	19,298	17,777	21,670	18,038
September	20,862	21,051	17,565	21,941	15,578
October	20,228	20,175	17,197	21,890	17,344
November	22,165	19,737	20,154	20,639	18,108
December	22,699	20,017	20,359	19,721	19,365
Annual Avg	21,948	20,692	20,023	21,099	17,727
Max Mo Avg	24,460	23,625	22,070	25,450	21,460
Max : Avg Ratio	1.11	1.14	1.10	1.21	1.21
Existing EDUs	29,008	27,277	39,526	31,942	26,157
Load/EDU	0.757	0.759	0.507	0.661	0.678
Load/Capita	0.216	0.217	0.145	0.189	0.194
Exist. Overload?	NO	NO	NO	NO	NO

Projected Flows for Next Five Years (MGD)

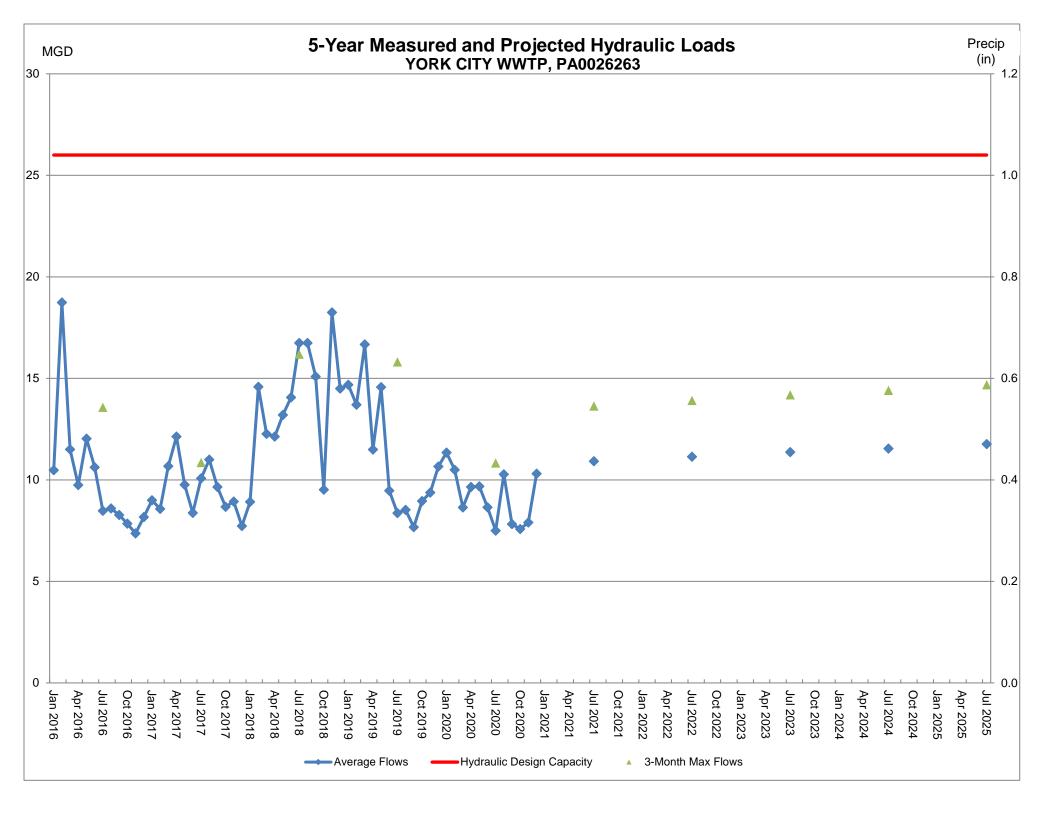
	2021	2022	2023	2024	2025
New EDUs	423.3	632.4	633.8	500.9	603.4
New EDU Flow	0.14817	0.221325	0.22183	0.1753	0.2212
Proj. Annual Avg	10.922	11.14333	11.36516	11.54046	11.76166
Proj. Max 3-Mo Avg	13.636	13.912	14.189	14.408	14.684
Proj. Overload?	NO	NO	NO	NO	NO

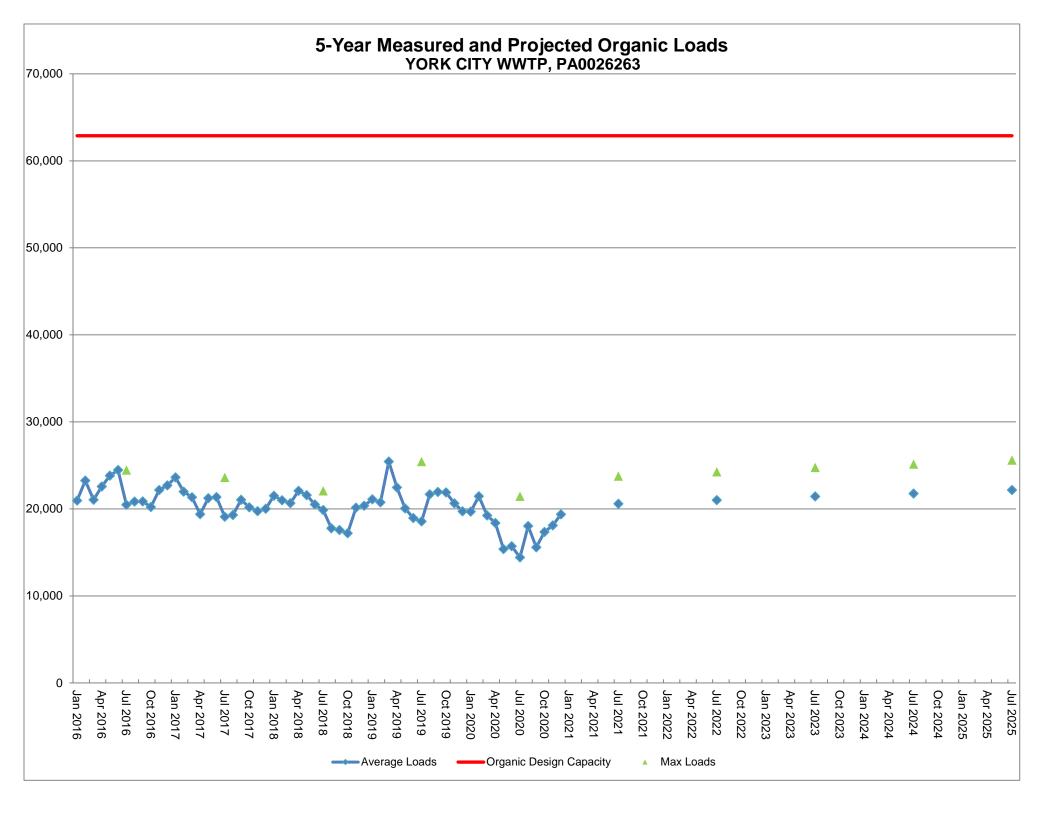
	riojected Bebe Louds for West 1110 Tears (iberday)				
	2021	2022	2023	2024	2025
New EDUs	423.3	632.4	633.8	500.9	603.4
New EDU Load	284.460	424.977	425.918	336.608	405.489
Proj. Annual Avg	20,582	21,007	21,433	21,770	22,175
Proj. Max Avg	23,773	24,264	24,756	25,145	25,613
Proj. Overload?	NO	NO	NO	NO	NO

Show Precipitation Data on Hydraulic Graph?

Total Monthly Precipitation for Past Five Years (Inches)

	Total monthly i recipitation for i act i we reare (mones)				
Month	2016	2017	2018	2019	2020
January	1.44		2.12	3.11	2.84
February	4.28		4.76	2.86	2.21
March	1.52	2.97	2.06	5.15	3.0
April	2.21	4.6	3.88	2.5	
May	4.98	3.55	4.68	6.0	2.14
June	3.08	2.08	5.25		4.17
July			11.59	3.29	2.71
August	3.25	3.83	5.74	2.73	7.1
September	4.22	2.29	7.16		1.96
October	0.81	3.74	2.0	5.93	2.66
November		2.25	7.77	1.42	2.67
December	1.96	0.81	4.12	3.7	2.65





York Act 537 Special Study

Appendix 4



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

Philadelphia, Pennsylvania 19103-2029

In the Matter of:	
)	ADMINISTRATIVE ORDER FOR
York City Sewer Authority)	COMPLIANCE ON CONSENT
100 East Market Street	PURSUANT TO 33 U.S.C. § 1319(a)
York, PA 17403	,
And)	Docket No. CWA-03-2021-0044DN
City of York)	
Mayor's Office)	
101 South George Street)	
York, PA 17401	
)	
Respondents)	
)	
And)	
)	
Pennsylvania-American Water Company)	
852 Wesley Drive	
Mechanicsburg, PA 17055	
)	
Prospective Purchaser Respondent)	
)	

I. STATUTORY AUTHORITY AND JURISDICTION

- 1. This Administrative Order for Compliance on Consent (AOCC or Order) is issued to the York City Sewer Authority (the Sewer Authority) and the City of York (the City) (jointly referred to as York Respondents), and to Pennsylvania-American Water Company (PAWC or Prospective Purchaser Respondent), under the authority vested in the United States Environmental Protection Agency (EPA) by Section 309(a) of the Clean Water Act (CWA or Act), 33 U.S.C. § 1319(a). The Administrator has delegated this authority to the Regional Administrator of EPA Region III, who in turn has delegated it to the Director of the Enforcement & Compliance Assurance Division.
- 2. Section 309(a) of the Act provides, inter alia, that: "Whenever, on the basis of any information available to [EPA, EPA] finds that any person ... is in violation of any permit condition or limitation implementing [section 1311, 1312, 1316, 1317, 1318, 1328, or 1345 of this title] in a permit issued under section 402 of this Act [33 U.S.C. § 1342, EPA] shall issue an order requiring such person to comply with such section or requirement ..." 33 U.S.C. § 1319(a)(3).

- 3. EPA has jurisdiction over the above-captioned matter, as described in Paragraphs 1 and 2, above.
- 4. EPA has consulted with the Commonwealth of Pennsylvania (Pennsylvania) Department of Environmental Protection (PADEP) regarding this action and, subsequent to the Effective Date, EPA will submit a copy of this fully executed AOCC to the appropriate PADEP representative.

II. GENERAL PROVISIONS

- 5. For the purpose of this proceeding only, each Respondent admits each jurisdictional allegation set forth in this AOCC.
- 6. Except as provided in Paragraph 5, above, each Respondent neither admits nor denies the specific factual allegations set forth in Section IV (Findings of Fact and Jurisdictional Allegations) of this AOCC, nor does any Respondent, by its consent or otherwise, admit liability or waive defenses as to any third party, or third parties, not a party to this AOCC.
- 7. Each Respondent agrees not to contest the jurisdiction of EPA with respect to the execution or enforcement of this AOCC.
- 8. For purposes of this proceeding only, including, but not limited to, any determination of compliance with or administrative or judicial proceeding relating to the enforcement of this AOCC, each Respondent agrees to the terms and issuance of this AOCC and hereby expressly waives any rights such Respondent may have, jointly or severally, to contest the allegations set forth in this AOCC.
- 9. PAWC is a Pennsylvania corporation and has a mailing address of 852 Wesley Drive, Mechanicsburg, Pennsylvania 17055. PAWC is a public utility company regulated by the Pennsylvania Public Utility Commission that provides water and wastewater services within Pennsylvania.
- 10. The Sewer Authority (as Seller), together with the City, and PAWC (as Buyer) have entered into an Asset Purchase Agreement dated as of April 6, 2021 (the Purchase Agreement). In accordance with the terms of the Purchase Agreement, subsequent to the satisfaction of certain conditions, PAWC anticipates acquiring the Facility on the Closing Date of the Transaction and thereafter, solely owning, managing, and operating the Facility. For purposes of this AOCC, the phrase "Closing Date of the Transaction" means the date on which title to the Facility is conveyed to PAWC and the first date on which PAWC is the sole owner and operator of the Facility.
- 11. As set forth in Section XII, (Facility Transfer to Prospective Purchaser Respondent and Subsequent Change of Ownership or Operation of the Facility), prior to the Closing Date of the Transaction, the Authority and City are solely responsible for compliance with the terms of this AOCC. As the Prospective Purchaser Respondent, PAWC's obligations as a Respondent under the AOCC shall commence on the Closing Date of the Transaction.
- 12. The provisions of this AOCC shall apply to and be binding upon each Respondent and its officers, directors, employees, contractors, agents, trustees, successors, and assigns of that Respondent. As of the Closing Date of the Transaction, the provisions of this AOCC shall

- apply to and be binding upon PAWC (Prospective Purchaser Respondent) and its officers, directors, employees, contractors, agents, trustees, successors, and assigns.
- 13. Each Respondent shall bear its own costs and attorney's fees in connection with this proceeding and associated with the implementation or enforcement of this AOCC, including any costs related to resolution of any dispute arising regarding this AOCC.
- 14. Issuance of this AOCC is intended to address operations of the Facility related to the violations described herein. EPA reserves the right to commence action against any person, including each Respondent, in response to any condition which EPA determines may present an imminent and substantial endangerment to the public health, public welfare, or the environment. EPA also reserves any existing rights and remedies available to it under the CWA, 33 U.S.C. §§ 1311, et seq., the regulations promulgated thereunder, and any other federal laws or regulations for which EPA has jurisdiction. Further, EPA reserves any rights and remedies available to it under the CWA, the regulations promulgated thereunder, and any other federal laws or regulations for which EPA has jurisdiction, to enforce the provisions of this AOCC, following the Effective Date, as defined below.
- 15. Except as otherwise provided by the terms of this AOCC, unless or until this AOCC is modified or terminated, in accordance with the terms of this AOCC, any complete shutdown, change of ownership or change in operation of the WWTP shall not relieve any Respondent of any obligations under this AOCC.
- 16. To the extent that performance of any obligation under this AOCC requires any Respondent to obtain a federal, state, or local permit or approval, such Respondent is responsible for submitting timely and complete applications and taking all other actions necessary to obtain all such permits or approvals.
- 17. This AOCC is not a permit, a modification of any existing permit or a substitution for any permit or permit condition, under any federal, state, or local laws or regulations. Each Respondent is responsible for obtaining any permits relating to ownership or operation of the Facility required pursuant to any federal, state, and local laws or regulations. Each Respondent is responsible for achieving and maintaining complete compliance with all applicable federal, state, and local laws, regulations and permits. Any Respondent's compliance with this AOCC shall be no defense to any action commenced pursuant to any such laws, regulations, or permits, except as set forth herein or otherwise provided by law. EPA does not warrant or aver in any manner that compliance with any aspect of this AOCC will result in compliance with provisions of the CWA, 33 U.S.C. §§ 1251, et seq. or with any other provisions of federal, state, or local laws, regulations, or permits.
- 18. This AOCC does not constitute a waiver or modification of the terms or conditions of any permit issued to any Respondent. Nothing in this Order shall relieve any Respondent of its obligation to comply with all applicable provisions of federal, state, or local laws and regulations, nor shall it restrict EPA's authority to seek compliance with any applicable laws or regulations, nor shall it be construed to be a ruling on the validity of any federal, state, or local permit. This Order does not constitute a waiver, suspension, or modification of the requirements of the Act, 33 U.S.C. §§ 1251 et seq., or any regulations promulgated thereunder.

- 19. With respect to this AOCC, including any investigation or proceeding relating to EPA's determination of compliance with or administrative or judicial enforcement of this AOCC, each Respondent waives any and all remedies, claims for relief and otherwise available rights to judicial or administrative review that such Respondent may have with respect to any issue of fact or law set forth in this AOCC, including any right of judicial review pursuant to Chapter 7 of the Administrative Procedure Act, 5 U.S.C. §§ 701-706.
- 20. EPA reserves all existing inspection and permitting authority otherwise available to EPA pursuant to Sections 308 and 402 of the CWA, 33 U.S.C. §§ 1318 and 1342, or pursuant to any other statute or law.
- 21. The undersigned representative of each Respondent certifies that he or she is fully authorized by the party represented to enter into the terms and conditions of this AOCC and to execute and legally bind the party.
- 22. By signing this AOCC, each Respondent acknowledges that this AOCC may be available to the public and represents that, to the best of Respondent's knowledge and belief, this AOCC does not contain any confidential business information or personally identifiable information from Respondent.
- 23. Each Respondent certifies that: a) any information or representation it has supplied or made to EPA concerning this matter was, at the time of submission, true, accurate, and complete and b) there has been no material change regarding the truthfulness, accuracy or completeness of such information or representation. EPA shall have the right to institute further actions to recover appropriate relief if EPA obtains evidence that any information provided and/or representations made by any Respondent to the EPA regarding matters relevant to this AOCC are false or, in any material respect, inaccurate. This right shall be in addition to all other rights and causes of action that EPA may have, civil or criminal, under law or equity in such event. Each Respondent and its officers, directors and agents are aware that the submission of false or misleading information to the United States government may subject a person to separate civil and/or criminal liability.

III. STATUTORY AND REGULATORY BACKGROUND

- 24. Section 301(a) of the Act, 33 U.S.C. § 1311(a), prohibits the discharge of any pollutant by any person except in compliance with sections 301, 302, 306, 307, 318, 402, and 404 of the Act.
- 25. Section 402(a) of the Act, 33 U.S.C. § 1342(a), provides that the Administrator of EPA may issue permits under the National Pollutant Discharge Elimination System (NPDES) program for the discharge of pollutants from point sources to waters of the United States. The discharges are subject to specific terms and conditions as prescribed in the permit. Section 402(b) of the Act, 33 U.S.C. § 1342(b), provides for the authorization of state programs to issue NPDES permits.
- 26. "Discharge of a pollutant" means "[a]ny addition of any 'pollutant' or combination of pollutants to 'waters of the United States' from any 'point source'." 40 C.F.R. § 122.2. See also 33 U.S.C. § 1362(12).

27. Pursuant to Section 402(b) of the Act, 33 U.S.C. § 1342(b), during 1978, EPA first authorized Pennsylvania to issue NPDES permits and such authority was re-authorized during 1991.

IV. FINDINGS OF FACT AND JURISDICTIONAL ALLEGATIONS

- 28. At all times relevant to this AOCC, the Authority owned and the City operated the York Wastewater Treatment Plant (the WWTP or Facility), a publicly owned wastewater treatment plant located in Manchester Township, York County, PA. Treated domestic, commercial, and industrial wastewater is discharged from the WWTP to Codorus Creek.
- 29. At all times relevant to this AOCC, the operation of the WWTP has been subject to the Pennsylvania Department of Environmental Protection (PADEP) issued NPDES Discharge Permit No. PA0026263 (the Permit), which became effective on September 1, 2017.
- 30. At all times relevant to this AOCC, including the Effective Date, York Respondents are authorized to discharge pollutants and wastewater from the WWTP to waters of the United States only in accordance with the terms and conditions of the Permit.
- 31. Each Respondent is a "person" within the meaning of Section 502(5) of the Act, 33 U.S.C. § 1362(5).
- 32. Codorus Creek is a tributary of the Susquehanna River in York County, Pennsylvania, and both Codorus Creek and the Susquehanna River are "waters of the United States" within the meaning of Section 502(7) of the Act, 33 U.S.C. § 1362(7).
- 33. At all times relevant to this AOCC, wastewater was discharged from the WWTP into Codorus Creek through a "point source" as that term is defined at Section 502(14) of the Act, 33 U.S.C. § 1362(14).
- 34. On May 29, 2019, representatives of EPA inspected the WWTP for purposes of determining compliance with the Permit (the Inspection).
- 35. Part A.I.A. of the Permit defines effluent limitations, monitoring, recordkeeping, and reporting requirements for discharges from Outfall 001 of the WWTP. During January 1, 2017 through August 31, 2020, the WWTP experienced fifty (50) effluent limit exceedances from Outfall 001 during bypass events. A summary of the fifty (50) Outfall 001 exceedances at issue is set forth in Table 1, below.

Table 1. O	Table 1. Outfall 001 Effluent Exceedances (January 1, 2017 through August 31, 2020)					
Monitoring Period Start Date	Monitoring Period End Date	Parameter Name	DMR Value	Permit Limit	Units	Statistical Base Code
8/1/2020	8/31/2020	Dissolved Oxygen	3.8	5.0	mg/L	Minimum
8/1/2020	8/31/2020	Total Residual Chlorine (TRC)	0.56	0.13	mg/L	Average Monthly
8/1/2020	8/31/2020	Total Residual Chlorine (TRC)	1.12	0.44	mg/L	Instantaneous Maximum
8/1/2020	8/31/2020	Carbonaceous Biochemical Oxygen Demand (CBOD5)	15.0	13.0	mg/L	Average Monthly

Table 1. Outfall 001 Effluent Exceedances (January 1, 2017 through August 31, 2020)						
Monitoring Period Start Date	Monitoring Period End Date	Parameter Name	DMR Value	Permit Limit	Units	Statistical Base Code
8/1/2020	8/31/2020	Total Suspended Solids (TSS)	62.0	30.0	mg/L	Average Monthly
8/1/2020	8/31/2020	Total Suspended Solids (TSS)	62.0	45.0	mg/L	Weekly Average
8/1/2020	8/31/2020	Ammonia-Nitrogen	5.3	1.7	mg/L	Average Monthly
8/1/2020	8/31/2020	Total Phosphorus	6.0	2.0	mg/L	Average Monthly
3/1/2019	3/31/2019	Ammonia-Nitrogen	3.9	2.1	mg/L	Average Monthly
3/1/2019	3/31/2019	Carbonaceous Biochemical Oxygen Demand (CBOD5)	33.0	30.0	mg/L	Weekly Average
3/1/2019	3/31/2019	Carbonaceous Biochemical Oxygen Demand (CBOD5)	33.0	20.0	mg/L	Average Monthly
3/1/2019	3/31/2019	Dissolved Oxygen	3.6	5.0	mg/L	Minimum
3/1/2019	3/31/2019	Total Phosphorus	3.5	2.0	mg/L	Average Monthly
3/1/2019	3/31/2019	Total Residual Chlorine (TRC)	1.00	0.44	mg/L	Instantaneous Maximum
3/1/2019	3/31/2019	Total Residual Chlorine (TRC)	0.56	0.13	mg/L	Average Monthly
3/1/2019	3/31/2019	Total Suspended Solids	65.0	45.0	mg/L	Weekly Average
3/1/2019	3/31/2019	Total Suspended Solids	65.0	30.0	mg/L	Average Monthly
11/1/2018	11/30/2018	Ammonia-Nitrogen	3.3	2.1	mg/L	Average Monthly
11/1/2018	11/30/2018	Dissolved Oxygen	3.3	5.0	mg/L	Minimum
11/1/2018	11/30/2018	Total Phosphorus	2.5	2.0	mg/L	Average Monthly
11/1/2018	11/30/2018	Total Residual Chlorine (TRC)	0.97	0.13	mg/L	Average Monthly
11/1/2018	11/30/2018	Total Residual Chlorine (TRC)	2.52	0.44	mg/L	Instantaneous Maximum
9/1/2018	9/30/2018	Ammonia-Nitrogen	7.2	1.7	mg/L	Average Monthly
9/1/2018	9/30/2018	Carbonaceous Biochemical Oxygen Demand (CBOD5)	28.5	13.0	mg/L	Average Monthly
9/1/2018	9/30/2018	Carbonaceous Biochemical Oxygen Demand (CBOD5)	28.5	19.0	mg/L	Weekly Average
9/1/2018	9/30/2018	Dissolved Oxygen	2.4	5.0	mg/L	Minimum
9/1/2018	9/30/2018	Total Phosphorus	5.5	2.0	mg/L	Average Monthly
9/1/2018	9/30/2018	Total Residual Chlorine (TRC)	1.22	0.13	mg/L	Average Monthly
9/1/2018	9/30/2018	Total Residual Chlorine (TRC)	2.58	0.44	mg/L	Instantaneous Maximum

Table 1. Outfall 001 Effluent Exceedances (January 1, 2017 through August 31, 2020)						
Monitoring Period Start Date	Monitoring Period End Date	Parameter Name	DMR Value	Permit Limit	Units	Statistical Base Code
9/1/2018	9/30/2018	Total Suspended Solids	32.5	30.0	mg/L	Average Monthly
8/1/2018	8/31/2018	Ammonia-Nitrogen	2.8	1.7	mg/L	Average Monthly
8/1/2018	8/31/2018	Carbonaceous Biochemical Oxygen Demand (CBOD5)	27.0	19.0	mg/L	Weekly Average
8/1/2018	8/31/2018	Carbonaceous Biochemical Oxygen Demand (CBOD5)	27.0	13.0	mg/L	Average Monthly
8/1/2018	8/31/2018	Dissolved Oxygen	2.6	5.0	mg/L	Minimum
8/1/2018	8/31/2018	Fecal Coliform	201	200	No./100 ml	Geometric Mean
8/1/2018	8/31/2018	Total Phosphorus	2.4	2.0	mg/L	Average Monthly
8/1/2018	8/31/2018	Total Residual Chlorine (TRC)	0.24	0.13	mg/L	Average Monthly
8/1/2018	8/31/2018	Total Residual Chlorine (TRC)	0.76	0.44	mg/L	Instantaneous Maximum
8/1/2018	8/31/2018	Total Suspended Solids	61.0	45.0	mg/L	Weekly Average
8/1/2018	8/31/2018	Total Suspended Solids	61.0	30.0	mg/L	Average Monthly
7/1/2018	7/31/2018	Ammonia-Nitrogen	5.3	1.7	mg/L	Average Monthly
7/1/2018	7/31/2018	Carbonaceous Biochemical Oxygen Demand (CBOD5)	34.5	13.0	mg/L	Average Monthly
7/1/2018	7/31/2018	Carbonaceous Biochemical Oxygen Demand (CBOD5)	34.5	19.0	mg/L	Weekly Average
7/1/2018	7/31/2018	Dissolved Oxygen	2.9	5.0	mg/L	Minimum
7/1/2018	7/31/2018	Fecal Coliform	48392	1000	No./100 ml	Instantaneous Maximum
7/1/2018	7/31/2018	Fecal Coliform	12869	200	No./100 ml	Geometric Mean
7/1/2018	7/31/2018	Total Phosphorus	6.3	2.0	mg/L	Average Monthly
7/1/2018	7/31/2018	Total Suspended Solids	49.3	30.0	mg/L	Average Monthly
7/1/2018	7/31/2018	Total Suspended Solids	49.3	45.0	mg/L	Weekly Average
7/1/2017	7/31/2017	Ammonia-Nitrogen	7.1	1.7	mg/L	Average Monthly

36. Part A.I.B. of the Permit defines effluent limitations, monitoring, recordkeeping, and reporting requirements for Outfall 002 discharges. During September 1, 2017 through November 1, 2020, the WWTP experienced seventeen (17) effluent limit exceedances from

Outfall 002. A summary of the seventeen (17) Outfall 002 exceedances at issue is set forth in Table 2, below.

Table 2. Outfall 002 Effluent Exceedances (January 1, 2017 through November 1, 2020)						
Monitoring Period Start Date	Monitoring Period End Date	Parameter Name	DMR Value	Permit Limit	Units	Statistical Base Code
11/1/2020	11/30/2020	Total Phosphorus	2.2	2.0	mg/L	Average Monthly
8/1/2020	8/31/2020	Fecal Coliform	4640	1000	No./100 ml	Instantaneous Maximum
7/1/2020	7/31/2020	Fecal Coliform	1307	1000	No./100 ml	Instantaneous Maximum
7/1/2020	7/31/2020	Total Phosphorus	2.6	2.0	mg/L	Average Monthly
7/1/2020	7/31/2020	Ammonia-Nitrogen	3.8	1.7	mg/L	Average Monthly
5/1/2020	5/31/2020	Fecal Coliform	2420	1000	No./100 ml	Instantaneous Maximum
8/1/2019	8/31/2019	Carbonaceous Biochemical Oxygen Demand (CBOD5)	24.5	19.0	mg/L	Weekly Average
8/1/2019	8/31/2019	Fecal Coliform	24196	1000	No./100 ml	Instantaneous Maximum
5/1/2019	5/31/2019	Fecal Coliform	2420	1000	No./100 ml	Instantaneous Maximum
9/1/2018	9/30/2018	Fecal Coliform	12100	1000	No./100 ml	Instantaneous Maximum
8/1/2018	8/31/2018	Fecal Coliform	12098	1000	No./100 ml	Instantaneous Maximum
7/1/2018	7/31/2018	Carbonaceous Biochemical Oxygen Demand (CBOD5)	24.6	19.0	mg/L	Weekly Average
7/1/2018	7/31/2018	Fecal Coliform	48392	1000	No./100 ml	Instantaneous Maximum
5/1/2018	5/31/2018	Ammonia-Nitrogen	4.9	1.7	mg/L	Average Monthly
4/1/2018	4/30/2018	Ammonia-Nitrogen	3.4	2.1	mg/L	Average Monthly
1/1/2018	1/31/2018	Ammonia-Nitrogen	2.8	2.1	mg/L	Average Monthly
9/1/2017	9/30/2017	Fecal Coliform	3873	1000	No./100 ml	Instantaneous Maximum

37. Part B.I.E.2. states: "The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the terms of and conditions of this permit." As described more fully in the Inspection Report, during the Inspection, EPA Inspectors observed the following incidents of operational malfunction of the Facility, which affected York Respondents' compliance with the terms of and conditions of the Permit.

- a. Several pieces of equipment that contribute to the full treatment capacity of the WWTP were either out of service or partially functioning, including: i) an influent channel, ii) Primary Clarifiers No. 1, 3 and 5, iii) one of three screw pumps that convey effluent from the Train #2 secondary clarifiers to the sand filters, iv) the sand filters, v) the automatic chlorine injection system and vi) the Facility supervisory control and data acquisition (SCADA) system.
- b. The systems of treatment and control, or related appurtenances were not operated or maintained in a manner that achieved compliance with the permit terms and conditions, based upon the allegations herein and presence of: a) scum and floatable solids accumulated in the secondary clarifiers of Train #2, b) foam in the anoxic basins at the effluent of the BNR systems for Trains #2 and #3 and c) algae and vegetation on and around the step aerator at Outfall 002.
- c. Deficiencies in the tracking of maintenance activities, through the computerized maintenance management system, including failure to complete work orders generated during the past year.
- 38. Part C.VI.E. of the Permit states, "At an influent flow rate of 53 MGD or higher, the Train #2 Secondary Clarifier effluent, bypassing existing sand filters and UV disinfection system, may be discharged to Codorus Creek via Outfall 001, contingent upon compliance with effluent limitations and monitoring requirements identified in Part A of this permit. Except for the Train #2 Secondary Clarifier effluent and stormwater, discharge of other wastewaters via Outfall 001 is prohibited." At least four times from July 2018 through June 2021, during periods of time when the influent flow rate was less than 53 MGD, Train #2 Secondary Clarifier effluent: a) was diverted to piping leading to Outfall 001 and thereby bypassed existing sand filters and UV disinfection system and b) mixed with stormwater prior to being discharged through Outfall 001 to Codorus Creek. During the Inspection, EPA Inspectors were informed that to protect the biota in the biological nutrient removal systems, these systems were typically taken offline (i.e. there was no treatment of the influent, only flow through of the influent occurred) during wet weather events as influent flows increased near to 25 to 26 million gallons per day (MGD).

V. <u>CONCLUSIONS OF LAW AND FINDINGS OF VIOLATION</u>

- 39. The allegations set forth in Paragraphs 1-38, above, are incorporated herein.
- 40. Based on the above assertions and allegations, EPA concludes that the City and Sewer Authority violated Part A.I.A. of the Permit on the dates set forth in Table 1, above.
- 41. Based on the above assertions and allegations, EPA concludes that the City and Sewer Authority violated Part A.I.B. of the Permit on the dates set forth in Table 2, above.
- 42. Based on the above assertions and allegations, EPA concludes that the City and Sewer Authority violated Part B.I.E.2.of the Permit prior and subsequent to May 29, 2019.
- 43. Based on the above assertions and allegations, EPA concludes that the City and Sewer Authority violated Part C.VI.E. of the Permit prior and subsequent to May 29, 2019.

44. Based on the above assertions and allegations in Paragraphs 1-38, above, the City and Sewer Authority have failed to comply with the terms and conditions of the Permit and, therefore, have violated Section 301 of the CWA, 33 U.S.C. § 1311.

VI. <u>COMPLIANCE ORDER</u>

Therefore, York Respondents are hereby ORDERED, pursuant to Section 309(a) of the CWA, 33 U.S.C. § 1319(a), and York Respondents and Prospective Purchaser Respondent consent to conduct the following activities:

- 45. WWTP Operator Certification: Within 60 calendar days of the Effective Date and on an annual basis thereafter, York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, shall submit a Certification of Certified WWTP Operator(s) at the Facility (WWTP Operator Certification) to EPA. Such WWTP Operator Certification shall certify that: a) the owner or operator has retained the services of at least one certified operator, who has been granted the authority to make process control decisions at the Facility, b) such certified operator is Board-certified with a valid certificate with the appropriate class and subclassifications for the Facility and is designated by the Respondent WWTP owner as an available operator, in accordance with 25 Pa. Code § 302.104 (Certification Requirements) and c) the owner or operator has made arrangements to ensure oversight of the Facility by such certified operator(s) at all times. The owner or operator shall include a copy of each certified sewage treatment plant operator's certificate as an attachment to each Certification of Certified WWTP Operator(s) at the Facility.
- 46. York AOCC Compliance Projects: On or prior to the dates set forth below, York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, shall: a) submit a Compliance Project Implementation Plan, if required, and b) complete each of the following WWTP improvement projects (York AOCC Compliance Projects) in accordance with this AOCC, including the EPA approved York AOCC General Implementation Plan and any relevant York AOCC Compliance Project Implementation Plan and c) submit a York AOCC Compliance Project Completion Notification to EPA in accordance with this AOCC:
 - a. York AOCC Compliance Projects #1 and 2: Work Order System Training Projects

Summary of York AOCC Compliance Project #1: The City utilizes a work order system called Hach JOB Cal® Plus. The City shall ensure that all management and staff employees, whose job responsibilities include using such system, complete training to ensure proper use and operation of such system.

Deadline for submission of York AOCC Compliance Project #1 Completion Notification: On or prior to 90 calendar days after the Effective Date.

Summary of York AOCC Compliance Project #2: Subsequent to the Closing Date of the Transaction, PAWC shall install a work order management system referred to as "MapCall" and shall ensure that all management and staff employees, whose job responsibilities include using such system, complete training to ensure proper use and operation of such system.

Deadline for submission of York AOCC Compliance Project #2 Completion Notification: Within 60 calendar days of installation of the work order management

system referred to as "MapCall" and no later than 12 months following the Closing Date of the Transaction.

b. York AOCC Compliance Project #3: Flow Rate Monitoring, Analysis & Reporting of Diverted Train #2 Effluent and Stormwater Flows to Outfall 001 Project

Summary: Study to determine appropriate monitoring and measuring equipment and methods and installation of monitoring, measuring and recording equipment and implementation of procedures, as appropriate, to ensure monitoring, measuring, recording and reporting of: (i) the influent flow rate into the Facility; (ii) the flow rate of Train #2 Secondary Clarifier effluent diverted to the Facility's stormwater piping leading to Outfall 001 (Diverted Train #2 Effluent) prior to such effluent mixing with any stormwater; (iii) the flow rate of stormwater within piping leading to Outfall 001 prior to mixing with any Diverted Train #2 Effluent (York Respondents or PAWC, to the extent that they are subject to this AOCC, may propose to EPA that it is appropriate to indirectly calculate such flow rate); and (iv) the flow rate of any mixture of Diverted Train #2 Effluent and stormwater to and within the lines leading to Outfall 001. Such flow rate shall be measured by million gallons per day (MGD) units, unless otherwise agreed to by the relevant Respondent(s) and EPA. This project shall include reporting of each incident whereby Train #2 Secondary Clarifier effluent was diverted towards Outfall 001 (i.e., Diverted Train #2 Effluent) during a time period when the influent flow rate to the WWTP was less than 53 MGD, in noncompliance with the Permit, or any other value set forth in any other applicable NPDES Permit governing allowance of such diversion. For each area of flow rate monitoring and measurement, subsequent to installation of the necessary equipment, in accordance with the York AOCC Compliance Project #3 Implementation Plan, required flow data shall be reported in each Quarterly Progress Report and such reporting shall continue until the below date for Deadline for submission of York AOCC Compliance Project #3 Completion Notification. Any automated monitoring or measurement system improvements or installations shall be connected to the Facility's current SCADA System and/or any upgraded SCADA System described in this Section, as appropriate given the operational status of each such SCADA System at the time that such improvements or installations are completed at each area of flow rate monitoring and measurement. Among other information, the initial proposed York AOCC Compliance Project #3 Implementation Plan, submitted in accordance with this AOCC, shall include the initial proposed deadlines for: i) installation and operation of flow rate monitoring, measuring, and recording equipment and implementation of relevant procedures for each area described above and ii) initial reporting of flow data for each area described above.

York AOCC Compliance Project #3 Implementation Plan Submission Deadline: On or prior to 90 calendar days after the Effective Date.

Deadline for submission of York AOCC Compliance Project #3 Completion Notification: The date of the final Quarterly Progress Report required pursuant to this Section.

c. York AOCC Compliance Project #4: Hydraulic Capacity and Non-Wastewater Infiltration/Inflow to Outfall 001 Evaluation and Report Project

Summary: (i) Completion of an on-going CCTV inspection of a significant portion of the lines leading to Outfall 001; (ii) completion of an analysis of the hydraulic capacity of the piping, chlorine contact tank, and pumps associated with Outfall 001, compared to appropriate design storm flows anticipated based on historical experience and reasonably anticipated future conditions (i.e., considering currently available information on rainfall frequency and intensity trends projected by credible scientific sources); and (iii) on or prior to March 31, 2022, submission to EPA of a study report summarizing the results of such evaluations and analyses, including a determination of whether or not there are any significant breaks in lines requiring correction or hydraulic capacity deficiencies that would materially inhibit operation of any chlorination or dechlorination system associated with York AOCC Compliance Project #8 (the Outfall 001 System Study Report).

York AOCC Compliance Project #4 Implementation Plan Submission Deadline: On or prior to 60 calendar days after the Effective Date.

Deadline for submission of York AOCC Compliance Project #4 Completion Notification: Fourteen (14) calendar days after Respondent's receipt of EPA's approval of the Outfall 001 System Study Report.

d. York AOCC Compliance Project #5: Outfall 001 System Corrective Action and Maintenance Plan Project

Summary: Submission to EPA of an Outfall 001 Corrective Action and Maintenance Plan (Outfall 001 CAMP) and implementation of an EPA-approved Outfall 001 CAMP. The Outfall 001 CAMP shall, at a minimum, include: (i) identification of strategic projects, including proposed design and construction schedules, to address any adverse conditions described in the EPA-approved Outfall 001 System Study Report with the objective of managing flows to assure effective performance of any chlorination or dechlorination system associated with York AOCC Compliance Project #8 (Replacements and Improvements to Disinfection Systems for Outfall 001) and (ii) a plan for monitoring, operation and maintenance of the Outfall 001 System through the date of the Certification of Compliance and Request for Termination, required to be submitted in accordance with this AOCC, to confirm that no significant breaks, hydraulic capacity deficiencies or other conditions or deficiencies exist that would materially inhibit operation of any chlorination or dechlorination system associated with York AOCC Compliance Project #8. This project shall include implementation of any corrective action(s) or maintenance project(s) and implementation of any plan(s) for monitoring, operation, and maintenance of the Outfall 001 System to confirm that no significant breaks, hydraulic capacity deficiencies or other conditions or deficiencies exist that would materially inhibit operation of any chlorination or dechlorination system associated with York AOCC Compliance Project #8, as identified in the EPA-approved Outfall 001 CAMP. Monitoring, operation, and maintenance of the Outfall 001 system pursuant to the EPA-approved Outfall 001 CAMP shall continue until the date on which the Certification of Compliance and

Request for Termination is submitted in accordance with Paragraph 73 of this AOCC.

York AOCC Compliance Project #5 Implementation Plan Deadline: 90 calendar days following EPA's Approval of the Outfall 001 System Study Report, described in York AOCC Compliance Project #4, above.

Deadline for submission of York AOCC Compliance Project #5 Completion Notification: To be submitted concurrent with submission of the Certification of Compliance and Request for Termination in accordance with this AOCC.

e. York AOCC Compliance Project #6: Screw Pump #3 Replacement Project

Summary: This project will include the replacement of the existing 7 mgd Lakeside Screw Pump No. 3 and Motor.

York AOCC Compliance Project #6 Implementation Plan Deadline: March 31, 2022.

Deadline for submission of York AOCC Compliance Project #6 Completion Notification: September 30, 2023.

f. York AOCC Compliance Project #7: New SCADA System Project

Summary: Design and installation of a partial or total replacement and/or upgrade of the existing Facility supervisory control and data acquisition (SCADA) System, including installation of new screens; development and implementation of a new database connecting such screens to new programmable logic controller units (PLCs) associated with key equipment and processes at the Facility; installation of new PLC processors; determination of alarm priorities; installation of new computer servers to provide a dual redundant server configuration and development of operation manuals and training plan. Subsequent to the installation of such SCADA System, operator training will be provided to all Facility management and employees whose job responsibilities include operation or oversight of such SCADA system.

York AOCC Compliance Project #7 Implementation Plan Submission Deadline: June 30, 2022

Deadline for submission of York AOCC Compliance Project #7 Completion Notification: September 30, 2023.

g. York AOCC Compliance Project #8: Improvements to Outfall 001 Disinfection Systems

Summary: Design, permitting, construction and operation of improvements to the chlorination system, including as appropriate installation of new equipment, that is associated with Outfall 001 to efficiently and appropriately disinfect Diverted Train #2 Effluent which has been blended with stormwater from the WWTP. Improvements shall involve installation of an automated Chlorine Disinfection System and a Dechlorination System, which at a minimum ensure compliance with any applicable or relevant NPDES Permit limitations or requirements. The system shall include new equipment to ensure control of any chlorination feed and

dechlorination system operations, and new process analyzers for chlorine residual monitoring control, that shall be connected to the Facility SCADA System in operation. Flow rate monitoring, measurement and analysis data associated with York AOCC Compliance Project #3 (Flow Rate Monitoring, Analysis & Reporting of Diverted Train #2 Effluent and Stormwater Flows to Outfall 001 Project) shall be taken into consideration as part of this project.

York AOCC Compliance Project #8 Implementation Plan Submission Deadline: June 30, 2022

Deadline for submission of York AOCC Compliance Project #8 Completion Notification: November 30, 2025.

h. York AOCC Compliance Project #9: Evaluation of Current and Future Monitoring and Treatment Systems for Diverted Train #2 Effluent

Summary: Identification and evaluation of current monitoring and treatment systems and operating procedures for Diverted Train #2 Effluent and identification and evaluation of modifications and improvements to such systems and procedures, including:

- (i) An evaluation of existing monitoring systems (if any) and new monitoring systems for measuring pollutants in Diverted Train #2 Effluent, as measured before such Diverted Train #2 Effluent mixes with stormwater;
- (ii) An evaluation of existing monitoring systems (if any) and new monitoring systems for measuring pollutants in Diverted Train #2 Effluent after such Diverted Train #2 Effluent mixes with stormwater;
- (iii) Preparation and submission to EPA of a plan addressing modifications and improvements to existing pollutant measurement and monitoring systems for Diverted Train #2 Effluent, prior to and subsequent to such effluent mixing with stormwater (Diverted Train #2 Pollutant Monitoring Systems Improvement Plan). Such Diverted Train #2 Pollutant Monitoring Systems Improvement Plan shall include design and installation of new or improvements to current monitoring systems to provide effective monitoring of pollutants in Diverted Train #2 Effluent, as measured before and after such Diverted Train #2 Effluent mixes with stormwater;
- (iv) Implementation of the EPA-approved Diverted Train #2 Pollutant Monitoring Systems Improvement Plan;
- (v) An evaluation of the performance of the existing treatment applied to Diverted Train #2 Effluent, as measured before and after such Diverted Train #2 Effluent mixes with stormwater, including: (1) the identification and evaluation of any deficiencies in the ability of current treatment systems and operating procedures that are applied to Diverted Train #2 Effluent prior to and after such Diverted Train

- #2 Effluent mixes with stormwater, to comply with (a) relevant effluent limitations and requirements of any applicable NPDES Permit both prior to and after such Diverted Train #2 Effluent mixes with stormwater, except for requirements for disinfection and dechlorination, and (b) the requirements for disinfection and dechlorination after such effluent mixes with stormwater as addressed in AOCC Project No. 8 (Improvements to Outfall 001 Disinfection Systems) ((a) and (b) collectively referred to as the Relevant NPDES Permit Effluent Limitations and Requirements); and (2) preparation and submission of a report to EPA, for review approval, detailing such identification and evaluation (the Diverted Train #2 Effluent Treatment Effectiveness Evaluation Report);
- (vi) An identification and evaluation of appropriate modifications to treatment systems and operating procedures that are applied to Diverted Train #2 Effluents prior to and after such Diverted Train #2 Effluent mixes with stormwater, to assure adequate treatment of such Diverted Train #2 Effluent to ensure compliance with Relevant NPDES Permit Effluent Limitations and Requirements;
- (vii) Preparation and submission to EPA of a plan: a) detailing the identifications and evaluations set forth in subparagraphs 46.h.v and vi, above, and b) proposing modifications to such treatment systems and operating procedures that are applied to Diverted Train #2 Effluent prior to and after such Diverted Train #2 Effluent mixes with stormwater, to assure adequate treatment of such Diverted Train # 2 Effluent to ensure compliance with relevant NPDES Permit Effluent Limitations and Requirements (the Diverted Train #2 Effluent Treatment Corrective Action Plan). Respondents may submit the Diverted Train #2 Effluent Treatment Corrective Action Plan prior to March 31, 2024; however, EPA agrees that Respondent shall not be required to submit such plan prior to March 31, 2024.

York AOCC Compliance Project #9 Implementation Plan Submission Deadline: Ninety (90) calendar days after the Effective Date.

Deadline for submission of York AOCC Compliance Project #9 Completion Notification: Fourteen (14) calendar days subsequent to Respondents' (or Respondent's) receipt of EPA approval of the Diverted Train #2 Effluent Treatment Corrective Action Plan.

i. York AOCC Compliance Project #10: Improvement of Monitoring and Treatment Systems for Train #2 Effluent Diverted to Outfall 001

Summary: Implementation of the Diverted Train #2 Effluent Treatment Corrective Action Plan, including design, permitting, and construction of approved improvement projects and implementation of approved operating procedures identified in the EPA-approved Diverted Train #2 Effluent Treatment Corrective

Action Plan to assure that Diverted Train #2 Effluent complies with the Relevant NPDES Permit Effluent Limitations and Requirements. Any automated system improvements or installations will be connected to the SCADA System described in this Section.

York AOCC Compliance Project #10 Implementation Plan Submission Deadline: 60 calendar days following EPA approval of the Diverted Train #2 Effluent Treatment Corrective Action Plan as described in York AOCC Compliance Project #9 (Evaluation of Current and Future Monitoring and Treatment Systems for Diverted Train #2 Effluent), above.

Deadline for submission of York AOCC Compliance Project #10 Completion Notification: December 31, 2027.

- 47. York AOCC General Implementation Plan: Within ninety (90) calendar days of the Effective Date, York Respondents shall submit to EPA for review a York AOCC General Implementation Plan (York AOCC General Implementation Plan), which meets the requirements set forth in this AOCC. The York AOCC General Implementation Plan shall include, at a minimum, the following information:
 - a. A detailed summary of each York AOCC Compliance Project identified in this Section, including, to the extent that the information is available, a general description of: i) planned or necessary changes to the Facility and ii) primary work steps required to implement each project, including relevant completed studies, anticipated studies, general design information, anticipated federal, state, or local permits, procurement, construction, and training, and the general schedule for such steps. To the extent that information is not available, at the time of initial submission of such plan, to provide a reasonably detailed summary of a York AOCC Compliance Project, Respondents shall identify such information and provide a time frame for submitting a revised York AOCC General Implementation Plan, or portion thereof, which includes such information. Any request for revision to any EPA-approved York AOCC General Implementation Plan shall be subject to the procedures set forth in Section VII (Procedures for Submissions) of this AOCC, below. The York AOCC General Implementation Plan, including modifications thereto, submitted to EPA shall provide sufficient detail for each Respondent subject to this AOCC and EPA to reasonably understand and have a reasonable basis to discuss and reach agreement on the general description of: (1) planned or necessary changes to the Facility, and (2) primary work steps required to implement each project, including relevant completed studies, anticipated studies, general design information, anticipated federal, state or local permits, procurement, construction, and training, and the general schedule for such steps.
 - b. A general schedule for completion of each York AOCC Compliance Project listed in this AOCC (i.e. York AOCC Compliance Projects ## 1-10) (Implementation Plan General Schedule), including proposed initiation and completion timelines and interim milestones for each York AOCC Compliance Project. Such Implementation Plan General Schedule shall depict on a timeline the proposed initiation date, each significant interim milestone, and the proposed completion date for each York

AOCC Compliance Project. Each applicable Respondent shall review the EPA-approved Implementation Plan General Schedule, at a minimum, on a quarterly basis prior to submission of any Quarterly Progress Report, required pursuant to this AOCC. In accordance with Paragraph 53 (York AOCC Compliance Projects Quarterly Progress Reports) of this AOCC, below, York Respondents or PAWC, to the extent that such Respondent is subject to this AOCC, may submit a proposed revision(s) to the EPA-approved Implementation Plan General Schedule. Any request for revision to any EPA-approved Implementation Plan General Schedule shall be subject to the procedures set forth in Section VII (Procedures for Submissions) of this AOCC, below.

- c. A proposed format for the following submissions required pursuant to this AOCC:
 i) York AOCC Compliance Projects Quarterly Progress Reports and ii) York AOCC Compliance Project Completion Notifications.
- 48. For York AOCC Compliance Projects ## 3, 4, 5, 6, 7, 8, 9 and 10, as identified in this Section, York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, shall submit a Compliance Project Implementation Plan for such project no later than the deadline set forth in Paragraph 46 (York AOCC Compliance Projects), above.
- 49. <u>York AOCC Compliance Project Implementation Plans</u>: Each Compliance Project Implementation Plan shall, at a minimum, include the following information relating specifically to the relevant project:
 - a. A detailed description of such York AOCC Compliance Project, including a detailed description of all planned or necessary changes to the Facility and, as appropriate maps and/or diagrams depicting such changes. A detailed project management process for completing such York AOCC Compliance Project, including an identification and description of any compliance project related training, permits required by PADEP or local authorities, planned or completed studies, proposed interim reports, monitoring and sampling analysis reports.
 - b. A current project specific detailed schedule for completion of such York AOCC Compliance Project, including proposed timelines and interim milestones (York AOCC Project Detailed Schedule). Each Respondent subject to this AOCC shall review each York AOCC Project Detailed Schedule on a quarterly basis prior to submission of any Quarterly Progress Report, required pursuant to this AOCC. In accordance with Paragraph 53 (York AOCC Compliance Projects Quarterly Progress Reports) of this AOCC, below, a Respondent subject to this AOCC may submit a proposed revised York AOCC Project Detailed Schedule for EPA's review. Any request for revision to any EPA-approved York AOCC Project Detailed Schedule shall be subject to the procedures set forth in Section VII (Procedures for Submissions) of this AOCC, below.
 - c. A schedule for providing and completing training for staff and management for any new system or process related to such York AOCC Compliance Project (York AOCC Project Training Schedule). Any initial or revised York AOCC Project Training Schedule may indicate conditions precedent that York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, assert must occur prior to imitating training relating to any such new system or process related to such

- York AOCC Compliance Project. Such schedule shall be sufficiently detailed to allow EPA to reach agreement with York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, as to an enforceable time frame for implementation of such training and a deadline for concluding such training.
- 50. Each Respondent subject to this AOCC shall comply with, fully implement, and undertake all work described in any EPA-approved York AOCC General Implementation Plan and York AOCC Compliance Project Implementation Plans.
- Solution State of Salution State of Submissions, below. A written request for modification to any portion of any EPA-approved York AOCC General Implementation Plan or an EPA-approved York AOCC General Implementation Plan or an EPA-approved Schedule. Any request to modify any portion of the EPA-approved York AOCC General Implementation Plan or an EPA-approved York AOCC Compliance Project Implementation Plan shall be subject to the terms and procedures set forth in Section VII (Procedures for Submissions), below. A written request for modification to any portion of any EPA-approved York AOCC General Implementation Plan or EPA-approved York AOCC Compliance Project Implementation Plan shall not relieve any Respondent of any obligation under this AOCC and shall have no effect on EPA's statutory or regulatory authority to enforce the terms of this AOCC, in its sole and unreviewable discretion.
- 52. Progress Reports General Requirement and Timing: York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, shall submit to EPA progress reports (York AOCC Compliance Projects Quarterly Progress Reports) in accordance with this AOCC. Subsequent to the Effective Date, York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, shall submit each York AOCC Compliance Projects Quarterly Progress Report on a calendar quarterly basis no later than each subsequent January 15th, April 15th, July 15th, and October 15th, prior to termination of this AOCC.
- 53. York AOCC Compliance Projects Quarterly Progress Reports
 - a. Each York AOCC Compliance Projects Quarterly Progress Report (Quarterly Progress Report) shall include sufficient information to document compliance with this AOCC, including the EPA-approved York AOCC General Implementation Plan and each York AOCC Compliance Project Implementation Plan. For each York AOCC Compliance Project, each Quarterly Progress Report shall include, at a minimum: (i) a listing of submissions to EPA during the reporting period and (ii) a clearly stated indication of compliance or noncompliance with the EPA-approved York AOCC General Implementation Plan and the relevant York AOCC Compliance Project Implementation Plan, including, if applicable, (a) any compliance project-related training, (b) any NPDES Permit application submitted to EPA or PADEP related to ownership or operation of the Facility, (c) any permit application related specifically to such project, (d) studies undertaken or completed, interim reports undertaken or submitted to EPA, (e) project summary reports submitted to EPA, (f) photographs relevant to documenting compliance with this AOCC, including the EPA-approved York AOCC General Implementation Plan and the relevant York AOCC Compliance Project Implementation Plan, (g) a description of monitoring undertaken and (h) sampling analysis reports submitted to EPA.

- b. Subsequent to EPA's approval of the York of AOCC Compliance Project #3 Implementation Plan, each Quarterly Progress Report shall include available flow rate data as required to be monitored, measured, and recorded pursuant to this Section. Such reporting shall include identification of any incident whereby wastewater was diverted towards Outfall 001 when the influent flow rate at the Facility is less than 53 MGD or any other applicable NPDES Permit limitation.
- c. Each Quarterly Progress Report shall confirm, or provide an update for, the name and contact information (mailing and email addresses and direct dial phone number) for the person assigned as the primary point of contact, who represents and is authorized to communicate on behalf of each Respondent subject to the terms of this AOCC for all EPA communications regarding this AOCC.
- d. For each York AOCC Compliance Project for which York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, have/has not submitted a York AOCC Compliance Project Completion Notification, each Quarterly Progress Report shall include either: (i) confirmation of compliance with the EPA-approved Implementation Plan General Schedule and the respective EPA-approved York AOCC Project Detailed Schedule or (ii) relevant proposed revisions to the EPA-approved Implementation Plan General Schedule and the relevant EPA-approved York AOCC Project Detailed Schedule for EPA's review for such York AOCC Compliance Project. Any request for revision to any EPA-approved Implementation Plan General Schedule or EPA-approved York AOCC Project Detailed Schedule shall be subject to the procedures set forth in Section VII (Procedures for Submissions) of this AOCC, below.
- 54. Project Completion Notifications: For each York AOCC Compliance Project identified in this Section, York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, shall submit to EPA for review and approval a notification of completion of such project (York AOCC Compliance Project Completion Notification) in accordance with this AOCC. Each York AOCC Compliance Project Completion Notification shall include sufficient information to document compliance with this AOCC and completion of such York AOCC Compliance Project in accordance with the terms of this AOCC, including the EPA-approved York AOCC General Implementation Plan and any York AOCC Compliance Project Implementation Plan applicable to such project.

VII. PROCEDURES FOR SUBMISSIONS

55. All documents required to be submitted by this Order and any Request for Termination shall be accompanied by a certification signed by a responsible officer, as defined in 40 C.F.R. § 122.22(d), that reads as follows:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed	
Title:	
Date:	

- 56. Each Respondent, who is subject to the terms of this AOCC, may assert a business confidentiality claim covering part or all of the information which this AOCC requires it to submit to EPA, but only to the extent and only in the manner described in Part 2 Subpart B of Title 40 of the C.F.R (Confidentiality of Business Information) (40 C.F.R. Part 2, Subpart B). The EPA will disclose information submitted under a confidentiality claim only as provided in Part 2 Subpart B of Title 40 of the C.F.R. If, at the time any information is submitted to EPA, the Respondent submitting such information does not assert a confidentiality claim in accordance with the procedures set forth at 40 C.F.R. Part 2, Subpart B, EPA may make the submitted information available to the public without further notice to either Respondent.
- 57. No later than fourteen (14) calendar days following the Effective Date, the City and the Sewer Authority shall each notify EPA as to a primary point of contact for each entity, who represents and is authorized to communicate for such entity, for all EPA communications regarding this AOCC (Primary Contact Notification). Each such Primary Contact Notification shall include such person's: name, title, mailing and email addresses and direct dial phone number. York Respondents' assigned primary point of contact shall not be reviewable by EPA and shall not be subject to EPA approval or disapproval. Such Primary Contact Notification may also identify one additional point of contact and request that EPA copy such additional contacts as recipients of communications regarding this AOCC.
- 58. Unless otherwise directed, York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, shall submit any submission or written communication, including any accompanying data, relating to this AOCC to EPA via electronic mail, unless electronic mail service is not reasonably available. The subject line of all email correspondence to EPA must include the following: "York WWTP AOCC, CWA-03-2021-0044DN" and the subject or title of the relevant deliverable. Unless otherwise notified by EPA, any submission or written communication relating to this AOCC, shall be submitted to: Kaitlin McLaughlin, McLaughlin, Kaitlin@epa.gov (EPA Project Manager).
 - If any specific submission cannot be sent via electronic mail to EPA, York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, shall contact the EPA Project Manager to make arrangements for alternative delivery.
- 59. Any information submitted electronically to EPA shall be submitted in a widely recognized electronic format.
- 60. Regardless of method of submission, each mailing by EPA or any Respondent shall be deemed submitted on the date such communication is either electronically transmitted or postmarked.
- 61. Regardless of method of submission (electronic or other mailing), each Respondent shall maintain records of each notification or communication with EPA for the duration of this AOCC.

- 62. Any York AOCC Compliance Projects Progress Report, or portion thereof, that does not include or relate to a request for revision to any EPA-approved Implementation Plan General Schedule or EPA-approved York AOCC Project Detailed Schedule shall not be subject to the procedures set forth in Paragraph 64, below.
- 63. Any request for revision to any EPA-approved Implementation Plan General Schedule or EPA-approved York AOCC Project Detailed Schedule shall be subject to the procedures set forth in Paragraph 64, below.

64. Review of Submissions:

- a. For each submission required or permitted pursuant to this AOCC, including any submission required pursuant to any EPA-approved York AOCC Implementation Plan, EPA, in its sole and unreviewable discretion, may in writing: (i) approve such submission in whole or in part; (ii) approve such submission upon specified conditions; (iii) modify such submission to cure any deficiencies; (iv) disapprove such submission, in whole or in part, or (iv) any combination of the above.
- b. If such submission is approved in its entirety with no conditions or revisions, York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, shall take all actions required by the EPA-approved submission, in accordance with the schedules and requirements set forth in such approved submission or EPA's written notification of approval.
- c. If such submission is conditionally approved, approved with minor revisions or approved only in part, York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, shall, upon written direction from EPA, take all actions required by any EPA-approved portion of such submission that EPA determines is technically severable from any portion requiring further EPA review or that was disapproved by EPA.
- d. If EPA disapproves such submission in whole or in part, York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, shall, within thirty (30) calendar days or such other time as EPA determines appropriate, correct all deficiencies, and resubmit such disapproved portion of such submission for approval, in accordance with this AOCC.
- e. After review of any document resubmitted in accordance with Paragraph. 64.d., above, EPA will notify York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, in writing that such resubmission is approved, disapproved, or revised in whole or part. If the resubmission is approved or approved with minor revisions, in whole or in part, York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, shall proceed in accordance with Paragraph 64.b. or c., as applicable, above. If any portion of such resubmission is disapproved, EPA may again require York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, to correct any deficiencies, in accordance with Paragraph 64.d., above, or EPA may revise such document and correct any deficiencies and notify York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, to take all actions required by such revised resubmission.

- 65. Subsequent to EPA approval of any plan, schedule or other document required to be submitted to EPA, pursuant to the Section VI (Compliance Order) of this AOCC, or otherwise submitted pursuant to this AOCC, York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, may seek EPA's review of revisions to such previously EPA-approved document.
- 66. The provisions of this Section shall apply to any request for any revision of any EPA-approved document and any revised submission.

VIII. TAX IDENTIFICATION

67. For purposes of the identification requirement in Section 162(f)(2)(A)(ii) of the Internal Revenue Code, 26 U.S.C. § 162(f)(2)(A)(ii), and 26 C.F.R. § 162-21(b)(2), performance of Sections VI (Compliance Order), VII (Procedures for Submissions) and X (Certification of Compliance and Request for Termination of AOCC) is restitution, remediation, or required to come into compliance with the law.

IX. DISPUTE RESOLUTION

- 68. Disputes or disagreements concerning any written decision, including any approval or disapproval of a submission, issued by EPA pursuant to the terms set forth in the following Sections of this AOCC shall be subject to the procedures of this Section IX (Dispute Resolution): Sections VII (Procedures for Submissions), X (Certification of Compliance and Request for Termination of AOCC), XI (Extension of Time Request Based on Force Majeure Event), XII (Facility Transfer to Prospective Purchaser Respondent and Subsequent Change of Ownership or Operation of the Facility) and XIII (Modification of AOCC).
- 69. Informal Dispute Resolution: The parties shall use their best efforts to resolve all disputes or disagreements through informal negotiations and discussion (Informal Dispute Resolution Negotiations). York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, shall initiate Informal Dispute Resolution Negotiations by submitting to EPA a written notification initiating Informal Dispute Resolution (Informal Dispute Resolution Initiation Notification). Each such Informal Dispute Resolution Initiation Notification shall, at a minimum, identify: a) the specific EPA decision subject Informal Dispute Resolution negotiations, b) the basis Respondents'/Respondent's objection to, or disagreement with, such decision and c) such Respondents'/Respondent's specific proposed resolution of such objection to such decision. If a dispute, or disagreement, is resolved through Informal Dispute Resolution Negotiations and the parties deem it appropriate, the resolution may be reduced to writing, signed by representatives of each party, and incorporated into this AOCC, and any requirements or schedules therein shall become enforceable requirements of this AOCC. In the event that the parties cannot resolve a dispute by informal negotiations under this Paragraph within sixty (60) calendar days of EPA's receipt of an Informal Dispute Resolution Initiation Notification, or such longer period as EPA, in its sole and unreviewable discretion, deems appropriate, (Informal Dispute Resolution Period), Respondent may initiate Formal Dispute Resolution in accordance with this Section. Unless EPA determines otherwise, the invocation of Informal Dispute Resolution procedures under this Section shall not extend, postpone, or affect in any way any

- obligation of York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, under this AOCC.
- 70. Formal Dispute Resolution: If York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, disagree(s), in whole or in part, with any disapproval, modification or other decision or directive made by EPA in writing pursuant to Section VII (Procedures for Submissions) of this AOCC and the parties cannot resolve such dispute through Informal Dispute Resolution Negotiations, EPA's decision shall be considered a binding and enforceable requirement of this AOCC, until and unless such Respondents/Respondent submit(s) a written request to initiate formal dispute resolution in accordance with the procedures outlined below. The invocation of formal dispute resolution procedures under this Section shall not extend, postpone, or affect in any way any obligation of York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, under this AOCC, unless EPA determines otherwise.
 - a. Initiation of Formal Dispute Resolution: If York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, disagree, in whole or in part, with EPA's decision concerning a disapproval, modification or other decision made pursuant to Section VII (Procedures for Submissions), which has been the subject of Informal Dispute Resolution Negotiations, as set forth in this Section, such Respondents / Respondent shall submit to EPA a request to initiate formal dispute resolution (Formal Dispute Resolution Initiation Notification). Any Formal Dispute Resolution Initiation Notification must contain: i) Respondents'/Respondent's specific objection(s) to the EPA decision in dispute; ii) the bases for each of Respondents'/Respondent's objections, including but not limited to any factual data, analysis, or opinion supporting such objection and any supporting documentation relied upon by Respondents Respondents'/Respondent's proposed resolution for each objection. York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, must submit any Request for Formal Dispute Resolution within ten (10) business days after either: a) the conclusion of the Informal Dispute Resolution Period or b) such Respondents'/Respondent's receipt of the EPA's Informal Dispute Determination. EPA may, in its sole and unreviewable discretion, decline any Request for Formal Dispute Resolution submitted to EPA subsequent to ten (10) business days after Respondents' receipt of the EPA's Informal Dispute Determination.
 - b. Formal Dispute Resolution Period: After EPA receives a Request for Formal Dispute Resolution, in accordance with this AOCC, the parties shall have ten (10) business days, or such longer period as EPA, in its sole and unreviewable discretion, deems appropriate, to attempt to agree upon a resolution relating to such written objection(s) and requested resolution(s). During such formal dispute resolution period, York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, may request a meeting with the Chief, Water Branch, Enforcement and Compliance Assurance Division, EPA, Region III, in order to make an oral presentation of its position(s). If, during such formal dispute resolution period, agreement is reached resolving any or all of such objections, such resolution(s) shall be reduced to writing, signed by representatives of each party,

- and incorporated into this AOCC, and any requirements or schedules therein shall become enforceable requirements of this AOCC.
- c. EPA Formal Dispute Determination: If EPA and York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, are unable to reach resolution as to any or all written objections, as set forth in such Request for Formal Dispute Resolution, within the period specified in Paragraph 70.b., above, the Chief, Water Branch, Enforcement and Compliance Assurance Division, EPA, Region III, shall notify York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, in writing, of his or her decision regarding each unresolved objection set forth by such Respondents, or Respondent (hereinafter referred to as "EPA's Formal Dispute Determination"). Each such determination shall be final and incorporated into this AOCC and any requirements or schedules set forth therein, or incorporated by reference therein, shall become enforceable requirements of this AOCC.
- 71. Notwithstanding any other provisions of this AOCC, no action or decision by EPA, including, without limitation, decisions of the Chief, Water Branch, Enforcement and Compliance Assurance Division, EPA, Region III, pursuant to this AOCC, shall constitute a final agency action giving rise to any right to judicial review prior to EPA's initiation of judicial action to compel any Respondent's compliance with, or otherwise enforce, this AOCC.
- 72. In the event that EPA initiates a judicial action for purposes of enforcing any requirement of this AOCC, each Respondent reserves any claims or defenses such Respondent may otherwise have in relation to any actions or decisions by EPA related to the obligations which are the subject of such judicial action(s); and in any such judicial action, the phrase "sole and unreviewable discretion" as used in this AOCC shall not affect any authority or rights that the court may otherwise have to review any such EPA action or decision.

X. <u>CERTIFICATION OF COMPLIANCE AND REOUEST FOR</u> <u>TERMINATION OF AOCC</u>

- 73. Upon completion of all York AOCC Compliance Projects required pursuant to this AOCC and submission of all required York AOCC Compliance Project Completion Notifications, including sufficient information to document compliance with this AOCC and completion of each York AOCC Compliance Project in accordance with the terms of this AOCC, York Respondents or PAWC, to the extent such Respondent is subject to this AOCC, shall submit to EPA a Certification of Compliance and Request for Termination of this AOCC. Such certification and request shall include:
 - a. a certification that such Respondents have, or Respondent has, maintained compliance with this AOCC and
 - b. all necessary documentation, including photo documentation as appropriate, to support a finding that such Respondents have, or Respondent has, complied with Section VI (Compliance Order) of this AOCC.
- 74. If, following review of any Certification of Compliance and Request for Termination of this AOCC, EPA agrees that the requirements of this AOCC have been satisfied, then EPA

may, in its unreviewable discretion, provide written notification of termination of this AOCC.

XI. EXTENSION OF TIME REQUEST BASED ON FORCE MAJEURE EVENT

- 75. "Force Majeure Event", for purposes of this AOCC, is defined as any event arising from causes beyond the control of the relevant Respondent(s), of any entity controlled by any such Respondent(s) subject to this AOCC or any contractor of such Respondent(s), that delays or prevents the performance of any obligation under this AOCC subsequent to such Respondent(s) exercising best efforts to fulfill the obligation(s) at issue. The requirement that any Respondent, subject to this AOCC, exercise "best efforts to fulfill the obligation" includes using best efforts to anticipate any Force Majeure Event and best efforts to address the effects of any such event: (a) as it is occurring and (b) after it has occurred, to prevent or minimize any resulting delay. Unanticipated or increased costs or expenses associated with the performance of any Respondent's obligations under this AOCC or any Respondent's financial inability to perform any obligation under this AOCC shall not constitute circumstances beyond any Respondent's control nor serve as the basis for an extension of time under this AOCC.
- 76. If at any time during the implementation of this AOCC, any Force Majeure Event occurs that may delay the completion of any York AOCC Compliance Project by the applicable deadline for submission of a relevant York AOCC Compliance Project Completion Notification, including implementation of an EPA-approved plan or schedule, Respondent(s) shall, within fourteen (14) calendar days of determining that such event may delay the performance of such obligation, provide to EPA a written request for an extension of time to comply with any such obligation (Force Majeure Extension of Time Request). Such Extension of Time Request shall include, at a minimum, the following information for each specific obligation(s) for which an extension of time is sought.
 - a. The specific obligation(s) for which an extension of time is sought, including each applicable deadline.
 - b. A detailed explanation and description of the Force Majeure Event at issue and the reasons for the requested extension of time, including all supporting documentation.
 - c. The amount of time for which an extension of time is sought.
 - d. A detailed description of all actions taken to prevent or minimize the amount of time for which an extension of time is sought, including a detailed description of each Respondent's best efforts to fulfill the obligation.
 - e. A detailed description, including a schedule for implementation, of all actions to be taken to prevent or mitigate the amount of time for which an extension is sought and the effect of any delay on any other obligation pursuant to this AOCC.
 - f. A statement as to whether, in the opinion of the relevant Respondent(s), the Force Majeure Event at issue may cause or contribute to an endangerment to public health, welfare, or the environment.
- 77. Each Respondent, who is subject to the terms of this AOCC, shall be deemed to know of the occurrence of, or reasonable likelihood of an occurrence of, any circumstance or event

- that may delay the performance of any obligation under this AOCC of which such Respondent, any entity controlled by such Respondent, or any contractor of such Respondent knew or reasonably should have known.
- 78. Any Force Majeure Extension of Time Request shall be submitted in accordance with this AOCC and EPA may, in its unreviewable discretion, approve or disapprove any Extension of Time Request.
- 79. EPA's approval, including conditional approval, of any Force Majeure Extension of Time Request shall not, of itself extend the time for performance of any other obligation not explicitly addressed in such approval.
- 80. Failure to comply with the above requirements may preclude any Respondent from asserting any claim of Force Majeure or other related defense for non-compliance with the terms of this AOCC for the time period such non-compliance is related to a reportable event.

XII. FACILITY TRANSFER TO PROSPECTIVE PURCHASER RESPONDENT AND SUBSEQUENT CHANGE OF OWNERSHIP OR OPERATION OF THE FACILITY

Facility Ownership and Operation Transfer to Prospective Purchaser Respondent

- 81. Prior to the Closing Date of the Transaction, until or unless this AOCC is modified or terminated, in accordance with the terms of this AOCC, York Respondents shall, jointly and severally, remain responsible for compliance with the terms of this AOCC.
- 82. In the event that the Closing Date of the Transaction has not occurred on or prior to March 31, 2022, then no later than April 8, 2022, York Respondents shall provide EPA with: a) notice that the Closing Date of the Transaction has not occurred, b) a summary of York Respondents' current plans for any potential sale of the Facility and c) a summary of York Respondents' current plans to submit an AOCC Project Scope and Deadline Modification Request in accordance with Section XIII (Modification of AOCC), below.
- 83. On and subsequent to the Closing Date of the Transaction, for all purposes relating to compliance with this AOCC, PAWC: a) shall be substituted as the sole Respondent for the City and the Sewer Authority and b) as sole Respondent, PAWC shall be responsible for all obligations arising under and compliance with the AOCC on and after the Closing Date of the Transaction. Effective upon Closing Date of the Transaction, the City and Authority shall be released from all obligations and liabilities under this AOCC for obligations to be performed or violations occurring on or after the Closing Date of the Transaction.
- 84. Within one business day following the Closing Date of the Transaction, the PAWC shall submit a notification of transfer of ownership of the Facility (Transfer of Facility Ownership Notification) to EPA that: a) notifies EPA that title to the Facility has been conveyed to PAWC; PAWC is the owner and operator of the Facility and, pursuant to this Section, PAWC is the sole Respondent subject to the terms of this AOCC and b) informs EPA as to the primary point of contact, who represents and is authorized to communicate for PAWC for all EPA communications regarding this AOCC (PAWC Primary Contact Notification). The PAWC Primary Contact Notification shall include such primary point of contact's: name, title, mailing and email addresses and direct dial phone number.

PAWC's primary point of contact shall not be reviewable by EPA and shall not be subject to EPA approval or disapproval.

Transfer of Ownership or Operation of the Facility by York Respondents to Any Party Other Than PAWC

- 85. In the event that York Respondents enter into an Asset Purchase Agreement with any party other than PAWC, then York Respondents shall comply with the following notification procedures:
 - a. At least ninety (90) days prior to any transfer of ownership or operation of the WWTP, York Respondents shall submit a written notification to EPA of any such anticipated change in ownership or operation of the WWTP (Respondents' Notification of Change of York WWTP Ownership or Operation). Each such Respondents' Notification of Change of York WWTP Ownership or Operation shall include, at a minimum, a detailed summary of the anticipated change in ownership or operation, contact information for the proposed new owner or operator of the WWTP, a schedule for such anticipated change and a schedule for the transfer of any federal, state, or local permits.
 - b. York Respondents shall, in writing, condition any sale or transfer of ownership or operation of the WWTP, in whole or in part, upon the execution by such Prospective Third Party Purchaser, or Transferee, of an agreement, which creates an obligation that shall survive the closing of such sale or transfer, of the WWTP, whereby such Prospective Third Party Purchaser or Transferee agrees to comply with and be bound by the terms of this AOCC.

Transfer of Ownership or Operation of the Facility by PAWC

- 86. Subsequent to the Closing Date of the Transaction, in the event that PAWC enters into negotiations for purposes of transferring ownership or operation of the Facility, PAWC shall complete the following procedures:
 - a. At least ninety (90) days prior to any transfer of ownership or operation of the WWTP, PAWC shall submit a written notification to EPA of any such anticipated change in ownership or operation of the WWTP (Notification of Change of York WWTP Ownership or Operation). Each such Notification of Change of York WWTP Ownership or Operation shall include, at a minimum, a detailed summary of the anticipated change in ownership or operation, contact information for the proposed new owner or operator of the WWTP, a schedule for such anticipated change and a schedule for the transfer of any federal, state, or local permits.
 - b. PAWC shall, in writing, condition any sale or transfer of ownership or operation of the WWTP, in whole or in part, upon the execution by such Prospective Third Party Purchaser, or Transferee, of an agreement, which creates an obligation that shall survive the closing of such sale or transfer, of the WWTP, whereby such Prospective Third Party Purchaser or Transferee agrees to comply with and be bound by the terms of this AOCC.

XIII. MODIFICATION OF AOCC

- 87. Prior to the Closing Date of the Transaction, this AOCC may only be modified by mutual agreement of EPA and the York Respondents in accordance with this Section. Subsequent to the Closing Date of the Transaction, this AOCC may only be modified by mutual agreement of EPA and PAWC. Any agreed-upon modification of any term of this AOCC shall be in writing, be signed by each Respondent, shall be effective on the date on which they are signed by EPA, and shall be incorporated into this AOCC.
- In the event that the Closing Date of the Transaction does not occur on or before March 31, 88. 2022, then, prior to May 31, 2022, the York Respondents may submit a written request to propose: i) an alternative schedule for completing the York AOCC Compliance Projects set forth in Section VI (Compliance Order), above, or ii) additional projects or modify the names of the projects and related deadlines set forth in Section VI (Compliance Order), above, to propose alternative projects, which individually or cumulatively accomplish the same goals of a project identified herein or are otherwise designed to achieve compliance with the Permit or subsequently issued NPDES Permit (AOCC Project Scope and Deadline Modification Request). Any AOCC Project Scope and Deadline Modification Request shall include, at a minimum: a) the specific revisions requested to Paragraph 46 (York AOCC Compliance Projects), above, b) requested revisions to all relevant portions of any EPA-approved York AOCC General Implementation Plan and York AOCC Compliance Project Implementation Plan, as required pursuant to Paragraphs 47 and 49, above, c) a proposed deadline for the relevant Proposed York AOCC Compliance Project Completion Notification, to be submitted in accordance with Paragraph 54 (Project Completion Notifications), above, and d) a detailed explanation and justification supporting such requested revisions. Any request for modification of this AOCC or any portion of the EPA-approved AOCC General Implementation Plan or any portion of any EPA-approved York AOCC Compliance Project Implementation Plan shall be subject to the procedures set forth in Section VII (Procedures for Submissions), above.
- 89. Any request to modify the terms of, or parties to, this AOCC shall: a) be submitted in writing to EPA, b) specifically identify the terms subject to the request and the proposed revision(s) and c) shall be subject to review and approval by EPA, in its sole and unreviewable discretion and in accordance with Section VII (Procedures for Submissions), above. A written request for modification of this AOCC shall not relieve any Respondent of any obligation under this AOCC and shall have no effect on EPA's statutory or regulatory authority to enforce the terms of this AOCC, in its sole and unreviewable discretion.

XIV. EFFECTIVE DATE

90. This AOCC is effective on the date that York Respondents receive, via either overnight delivery service or United States Postal mail service (return receipt requested) a fully-executed copy of this AOCC (Effective Date). York Respondents shall confirm such date to EPA in writing.

Matter of York City Sewer Authority and City of York, Docket No. CWA 03-2021-0044DN

FOR YORK CITY SEWER AUTHORITY, Respondent

Name: Philip W. Briddell	
Title: Chairman	
Certificate-Based Digital Sig	nature:
FOR CITY OF YORK, PENNSYI	LVANIA, Respondent
Name: Michael Helfrich	
Title: Mayor	
Certificate-Based Digital Sig	nature:
Name: AliceAnne D. Frost	
Title: City Controller	
Certificate-Based Digital Sig	nature:
FOR PENNSYLVANIA-AMERICAN	WATER COMPANY, Prospective Purchaser Respondent
Name: F. Michael Doran	
Title: President	
Certificate-Based Digital Sig	nature:
SO ORDERED:	
FOR U.S. ENVIRONMENTAL PI	ROTECTION AGENCY
Dyn	
By:	Karen Melvin, Director
	Enforcement & Compliance Assurance Division
	U.S. Environmental Protection Agency Region III

York Act 537 Special Study

Appendix 5



Project Search ID: PNDI-744163

1. PROJECT INFORMATION

Project Name: York Prospect Street Sanitary Sewer Replacement

Date of Review: 10/11/2021 03:32:29 PM

Project Category: Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Sewer line maintainence-

repair, replacement of existing line

Project Area: 1.16 acres

County(s): York

Township/Municipality(s): SPRING GARDEN TOWNSHIP; YORK

ZIP Code:

Quadrangle Name(s): YORK

Watersheds HUC 8: Lower Susquehanna

Watersheds HUC 12: Willis Run-Codorus Creek

Decimal Degrees: 39.961140, -76.711370

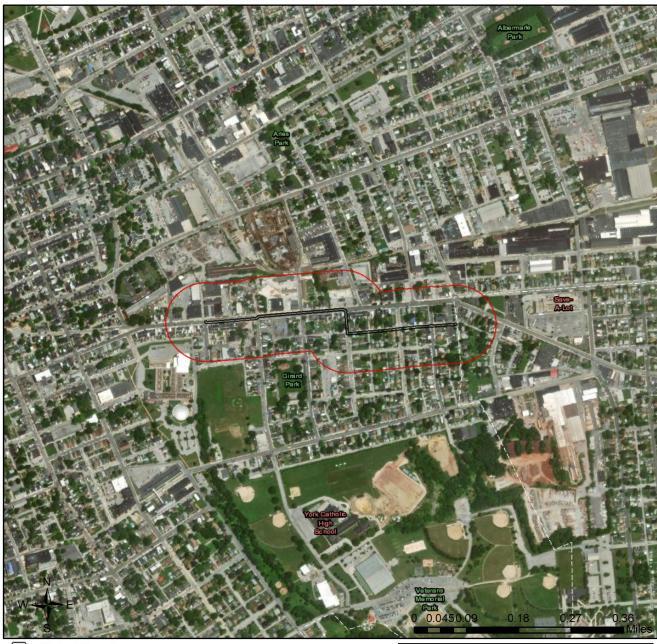
Degrees Minutes Seconds: 39° 57' 40.1050" N, 76° 42' 40.9308" W

2. SEARCH RESULTS

Agency	Results	Response
PA Game Commission	No Known Impact	No Further Review Required
PA Department of Conservation and Natural Resources	No Known Impact	No Further Review Required
PA Fish and Boat Commission	No Known Impact	No Further Review Required
U.S. Fish and Wildlife Service	No Known Impact	No Further Review Required

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.

York Prospect Street Sanitary Sewer Replacement

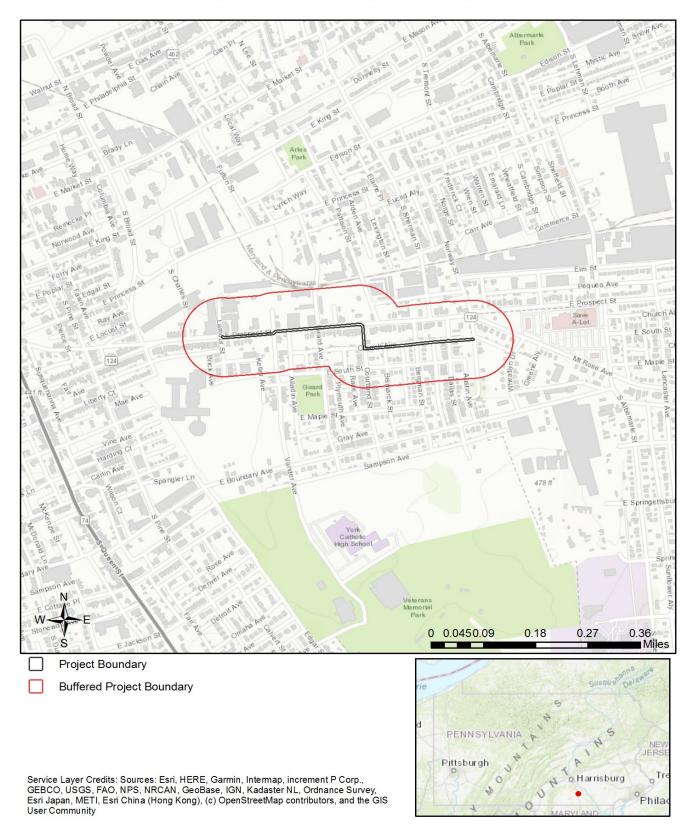


Project Boundary

Buffered Project Boundary

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China

York Prospect Street Sanitary Sewer Replacement



3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are **valid for two years** (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies **strongly advise against** conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Fish and Boat Commission

RESPONSE:

No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service RESPONSE:

No impacts to **federally** listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP's permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at https://conservationexplorer.dcnr.pa.gov/content/resources.

Project Search ID: PNDI-744163

Project Search ID: PNDI-744163

5. ADDITIONAL INFORMATION

The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agencies immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION

PA Department of Conservation and Natural Resources

Bureau of Forestry, Ecological Services Section 400 Market Street, PO Box 8552 Harrisburg, PA 17105-8552

Email: RA-HeritageReview@pa.gov

PA Fish and Boat Commission

Name:

Division of Environmental Services 595 E. Rolling Ridge Dr., Bellefonte, PA 16823 Email: RA-FBPACENOTIFY@pa.gov

U.S. Fish and Wildlife Service

Pennsylvania Field Office Endangered Species Section 110 Radnor Rd; Suite 101 State College, PA 16801 Email: IR1 ESPenn@fws.gov

NO Faxes Please

PA Game Commission

Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat
Protection

2001 Elmerton Avenue, Harrisburg, PA 17110-9797

Email: RA-PGC PNDI@pa.gov NO Faxes Please

7. PROJECT CONTACT INFORMATION

Company/Business Name:	The Court of the C	
Address:	25((a, 2))\\ \ \ \ () \	
City, State, Zip:		
Phone:() Email:	Fax:()	
8. CERTIFICATION		
	wers to questions) is true, accurate	luding project location, project and complete. In addition, if the project type ons that were asked during this online review
change, I agree to re-do the online e		·
applicant/project proponent signatur	e	date

York Act 537 Special Study

Appendix 6



October 8, 2021

David Gill 445 West Philadelphia Street York PA 174010000

RE: ER Project # 2021PR06440.001, East Prospect Street Sanitary Sewer Replacement, Department of Environmental Protection, York City, York County

Dear David Gill:

Thank you for submitting information concerning the above referenced project. The Pennsylvania State Historic Preservation Office (PA SHPO) reviews projects in accordance with state and federal laws. Section 106 of the National Historic Preservation Act of 1966, and the implementing regulations (36 CFR Part 800) of the Advisory Council on Historic Preservation, is the primary federal legislation. The Environmental Rights amendment, Article 1, Section 27 of the Pennsylvania Constitution and the Pennsylvania History Code, 37 Pa. Cons. Stat. Section 500 et seq. (1988) is the primary state legislation. These laws include consideration of the project's potential effects on both historic and archaeological resources.

Above Ground Resources

No Above Ground Concerns - Environmental Review - No Effect - Historic Properties Present - Above Ground

Thank you for submitting information concerning the above-referenced project. Based on the information received and available in our files, in our opinion, the proposed project will have No Effect on above ground historic properties, including historic buildings, districts, structures, and/or objects. Should the scope and/or nature of the project activities change and/or should you be made aware of historic property concerns, you will need to notify the PA SHPO at pashare@pa.gov and provide the revised designs for review and comment.

For questions concerning above ground resources, please contact Emma Diehl at emdiehl@pa.gov.

Archaeological Resources

No Archaeological Concerns - Environmental Review - No Effect - Archaeological

Thank you for submitting information concerning the above-referenced project. Based on the information received and available in our files, in our opinion, the activity described in your proposal should have no effect on archaeological resources. Our analysis indicates that archaeological resources are potentially located in this project area. Should the scope of the project be amended to include additional ground disturbing activity and/or should you be made aware of historic property concerns, you will need to notify the PA SHPO at

pashare@pa.gov. A Phase I Archaeological Survey may be necessary to locate all potentially significant archaeological resources.

For questions concerning archaeological resources, please contact Casey Hanson at chanson@pa.gov.

Sincerely,

Andrea MacDonald

Director, State Historic Preservation Office

York Act 537 Special Study

Appendix 7



York Act 537 Special Study

Appendix 8





The Russell E. Horn Building 445 West Philadelphia Street York, PA 17405-7040 (800) 274-2224 www.bucharthorn.com