

**Application of Pennsylvania-American Water Company for Acquisition of  
the Wastewater Assets of Royersford Borough  
66 Pa. C.S. §1329  
Application Filing Checklist – Water/Wastewater  
Docket No. A-2020-3019634**

15. Plant in Service:
- a. Provide an inventory of the used and useful plant assets to be transferred. Identify separately any utility plant that is held for future use.<sup>3</sup>

**RESPONSE:**

- a. See the Engineer’s Assessment attached as **Appendix A-15-a** that identifies assets to be transferred as required by 66 Pa. C.S. § 1329(a)(4).

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<sup>3</sup> The inventory is to be developed from available records, maps, work orders, debt issue closing documents funding construction projects, and other sources to ensure an accurate listing of utility plant by utility account.

# ROYERSFORD BOROUGH SEWERAGE FACILITIES ENGINEERING ASSESSMENT AND ORIGINAL COST

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*Royersford Borough  
Montgomery County, PA*



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***Prepared for:***

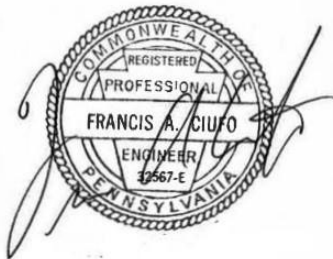
Royersford Borough  
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Royersford, PA 19468

Pennsylvania American Water Company  
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ROYRX20001



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Associate Vice President

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- **ASSET FACILITIES MAP**

### **APPENDIX B – Uniform System of Accounts - Section 300 PA Act 12 of 2016**

## EXECUTIVE SUMMARY

As required by PA Act 12 of 2016 and following the guidelines of the “Uniform System of Accounts for Class A Wastewater Utilities”, an assessment of the tangible assets of facilities and equipment of the Royersford Borough wastewater utility was prepared. Each facility and class of equipment was coded based on Section 300 of the “Wastewater Utility Plant Accounts” of the Guidelines. The Asset Survey included the Wastewater Treatment Plant (WWTP), 2 active pump stations and approximately 13 miles of gravity sewers and force mains. Information was derived from various sources including Tapping Fee calculations, Borough accounting records and contractors’ certificates of payment. Site visits were conducted to each of the facilities to inventory the equipment and assess their condition.

Site inventories and facility condition were documented on facility information sheets and facility description summaries.

The overall assessment of the Wastewater Treatment Plant is good, the Pump Stations are in good to very good condition.

With the improvements made with the CIPP lining projects, gravity sewers and force mains are in good condition.

A complete list of the assets and original costs is provided in Section 8 of this report.

## 1. PURPOSE OF REPORT

The purpose of this report is to “conduct an assessment of the tangible assets of the selling utility” per the requirements of PA Act 12 of 2016.

This engineering assessment will be used by the Utility Valuation Experts (UVEs) retained by both the seller (Royersford) and buyer (PA American Wastewater). The engineering assessment followed the practices and procedures of the Public Utility Commission (PUC) and National Association of Regulatory Utility Commissioners (NARUC) Systems of Accounts. The engineering assessment report documents the conditions and original costs of Royersford’s assets that will be used as the common list for the UVEs to develop their appraisal of the system.

The report preparation process included meeting with key Royersford and PA American Wastewater representatives to identify and confirm specific information needed to support the assessment and to prepare the report, providing a mutually agreed upon scope of work with Royersford and PA American Wastewater. The inventory is a compilation of data gathered by Pennoni developed from institutional knowledge, available records, maps, work orders, payment records from construction projects, site evaluations, and other sources to provide an inventory and listing.

This report contains the following:

- An inventory of the used and useful assets to be transferred, compiled by year and account (codes).
- Identification of facilities being held for future use (if any).
- A list of non-depreciable property such as land and rights-of-way.
- A review of system components, plans, and reports of key facilities. This includes:
  - Permitted discharges, including regulatory requirements
  - Treatment Facility
  - Pumping Stations (2 each), including force mains
  - Gravity collection system
- Summary of the operation and maintenance expenses based upon review of Royersford operating records.
- An assessment of the identified assets.
- Determination and/or establishment of an original cost of construction for each asset.

Assets were identified through various sources. The WWTP assets were field inventoried and evaluated; and, supplemented with information obtained from drawings, where available. Force main sizes and quantities were taken from system maps and project drawings. Pump Stations were field inventoried, evaluated; and, supplemented with information obtained from drawings, where

available. Gravity piping, of which a majority was installed in 1935 and 1936, is based on the original cost determined in the 2005 Tapping Fees. Any piping installed after the original installation is based on actual costs or calculated.

A coding system as described in Section 300 of the Uniform System of Accounts for Class A Wastewater Utilities was used for classifying various assets. Section 300 as well as the listing of codes can be found in Appendix B.

## 2. SYSTEM DESCRIPTION

### SYSTEM SUMMARY

The Borough of Royersford, Montgomery County, PA (Borough) borders Limerick Township to the north; Upper Providence to the east and Chester County to the south and west. The Borough is primarily residential homes; however, the township zoning ordinance allows for a number of other land uses including institutional, office-resident, central business, highway business, industrial, and adaptive reuse. The size of the entire Borough is approximately 0.8 square miles. Sixteen (16) Upper Providence residents tie directly into the existing sewer main along the Upper Providence - Royersford boundary. There are a 103 Limerick residential accounts that tie into the system adjacent to the northwest corner of the borough.

The wastewater system in the Borough consists of approximately 69,990 LF of sewage gravity conveyance piping, 4,180 LF of force mains, two (2) pump stations (10th Avenue and Green Street), and the Royersford Wastewater Treatment Plant which the Borough owns and operates. The WWTP is permitted for 0.7 MGD. The conveyance system consists of mostly 8-inch, 10-inch, 12-inch and 15-inch vitrified clay sewer mains. The two pump stations are owned and operated by the Borough. The 10<sup>th</sup> Avenue pump station is rated for 450 GPM and Green Street pump station is rated for 350 GPM.



### 3. INVENTORY OF ASSETS

#### 3.1 WASTEWATER TREATMENT PLANT

##### Facility Description

The Royersford Wastewater Treatment plant is hydraulically rated for 1.0 million gallons per day (MGD), with a loading rating of 0.7 MGD. The 2018 Chapter 94 Report year average influent flow was 0.430 MGD.

The treatment plant receives sewage from either the First Avenue interceptor or the Second Avenue interceptor. The First Avenue sewage flows into the Raw Sewage Pump Station through a grinder. The Raw Sewage Pumps transfer the sewage to the influent screen channel where it combines with the Second Avenue sewage. The combine sewage enters the plant through a rotary drum screen.

The remainder of the sewer plant consists of primary clarification, a primary trickling filter, primary recirculation pumps, secondary trickling filter, secondary recirculation pumps, final clarification, sodium hypochlorite disinfection, anaerobic solids digestion, and sludge holding and thickening. The liquid biosolids are hauled by an outside contractor to the Pottstown Sewage Treatment Plant for disposal.

##### Treatment Plant

###### 1. Office/Control Building

The Office/Control building houses the WWTP operator office, electrical room, chlorine storage tanks and dosing system, flow metering equipment and chart recorder. The building is integrated with the raw sewage pump chamber and chlorine contact tanks. The building is concrete block with a poured concrete base and walls. The building office space and electrical room is approximately 800 SF.

###### 2. Primary and Secondary Settling Tanks

The original treatment plant had one structure with two primary and two secondary settling tanks. In the 2009 upgrade, one of the secondary settling tanks was converted to a primary settling tank and two new secondary settling tanks were constructed. Today there are three Primary Settling Tanks and three Secondary Settling Tanks.

The Primary Settling Tanks #1 and #2 sludge collection mechanisms, scum troughs, and overflow weirs were installed in 1996. Primary settling tank #3 was retrofitted in 2009 with a new Polychem chain and scrapper mechanism and new overflow weirs. The scrapper mechanisms are driven by SEW-Eurodrive, Inc. 2 HP drive units. All of the tanks are approximately 16 feet wide by 72 feet long.

The existing secondary settling Tank #2 (now secondary settling tank #1) was reconfigured with new overflow weirs and new Polychem chain & scrapper mechanisms. The scrapper mechanism is driven by a SEW-Eurodrive, Inc. 2 HP drive unit. Secondary Settling Tanks #2 and #3 were constructed in 2009. The chain and scrapper mechanisms are manufactured by Polychem. The scraper mechanisms are driven by SEW-Eurodrive, Inc. 0.75 HP drive units. All Secondary Settling Tanks are approximately 16 feet wide and 72 feet long.

- Trickling Filters

The primary and secondary trickling filters were installed 1950. The filters are 55 feet in diameter and are filled with plastic media.

- Primary Recirculation Pumps

There are two dry pit Fairbanks Morse centrifugal pumps located in the lower level of the lab building. The 30 HP pumps were installed in 2009 and are rated at 1,944 GPM @ 38' TDH, 230V, 3 ph. The pumps are controlled by Yaskawa P1000 VFDs located on the first floor of the Lab Building.

- Secondary Recirculation Pump Station

There are two Fairbanks Morse centrifugal submersible pumps in a poured concrete pump station located adjacent Final Settling Tanks No. 2 & 3. The 30 HP pumps were installed in 2009 and are rated at 1,944 GPM @ 33' TDH, 230V, 3 ph. The pumps are controlled by Yaskawa P1000 VFDs located on the deck of the pump station.

- Raw Sewage Pumps

There are two Fairbanks Morse centrifugal submersible pumps located in the influent structure integral to the Office/Control Building. The 20 HP pumps were installed in 2009 and are rated at 1,250 GPM @ 38' TDH, 230V, 3 ph.

- Influent Grinder

Influent Grinder is a 5 HP Muffin Monster installed in 2009. The unit was refurbished in 2015.

- Influent Screen Unit (Upper Grinder Station)

This unit takes flow from the raw water pump station and gravity flow from the east side of the Borough. The Screen Unit is a 2.0 HP Lakeside Raptor Model 31FS installed in 2009. The unit is rated for 3.0 MGD

- Poly Aluminum Chloride System

This system is used to treat phosphorus and was installed in 2011. A 3000-gallon double walled HDPE storage tank with dosing pump. The daily consumption is approximately 25 gallons. Dosing is via a Flexflo A1 N10F pump rated for 65.8 GPD.

- Flow Meter

The discharge flow meter is an Eastech Vantage 2220 Ultrasonic flow meter with a Chessel Chart recorder.

- Anaerobic Digester

The anaerobic digester was installed in 1950. The digester receives sludge directly from the primary and secondary clarifiers. The unit utilizes fuel oil in a small hot water boiler to heat a recirculation hot water loop that heats the tank to a temperature of 105 degrees. The sludge is heated through heating coils attached to the interior tank walls. The digester has a capacity of 45,000 gallons. The unit is currently being upgraded with a new Propane heating system.

- Sludge Holding Tanks

There are two sludge holding tanks (Nos. 1 and 2) that receive digested sludge primarily from the Anaerobic Sludge Digester and at times from the clarifiers. The tanks are the former Imhoff tanks that were used for primary treatment, when the original treatment plant was built. The tanks are over 20 feet deep. Total storage capacity is approximately 400,000 gallons.

- Disinfection

The plant uses liquid sodium hypochlorite. The chemical tanks and metering are located in the WWTP office/control building. There are two 150 gallon polypropylene holding tanks. A

Pulsatron LB6 Series dosing pump injects the solution to the Chlorine Contact Tanks located adjacent to the Office/Control building.

- De-chlorination System

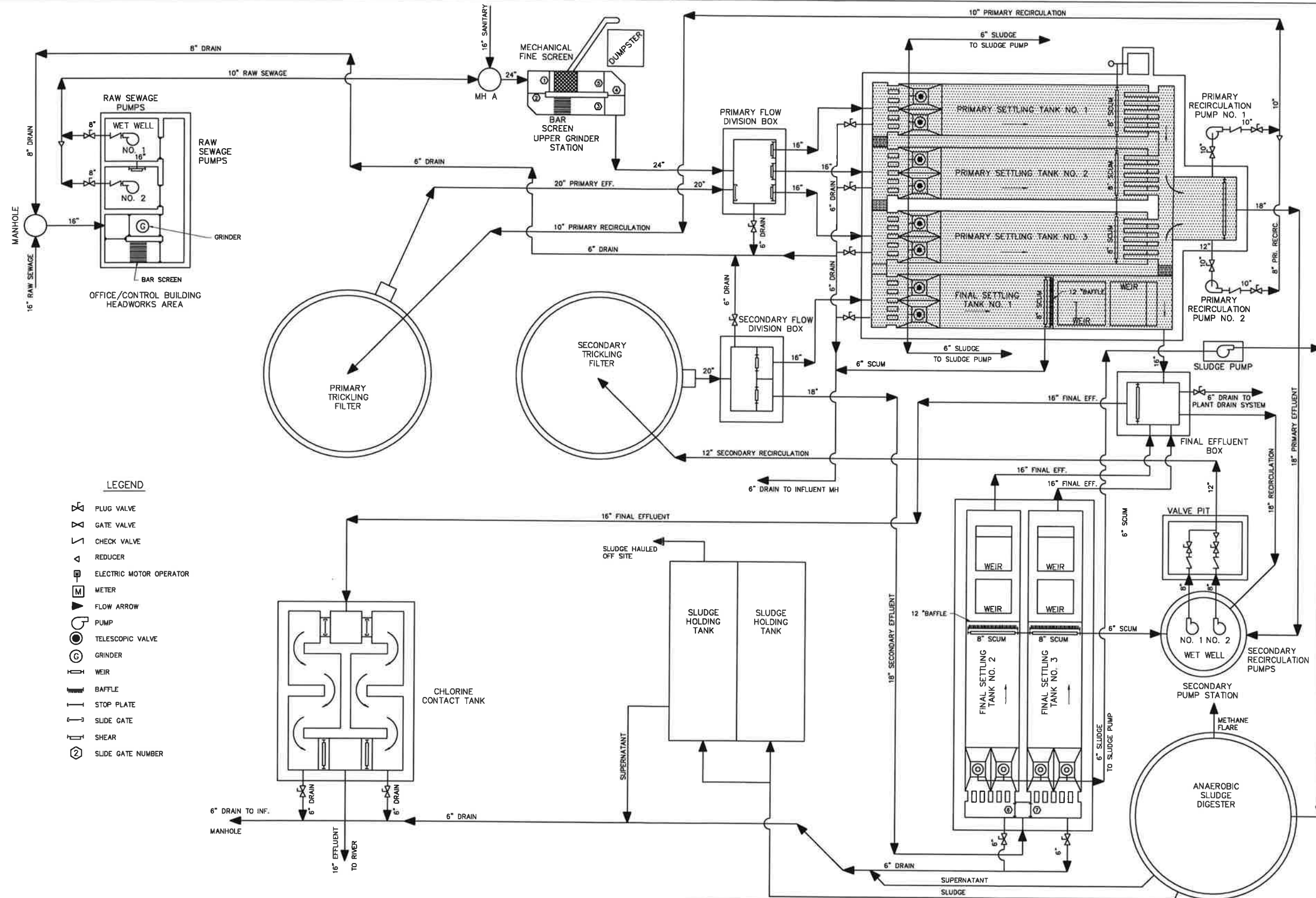
The De-chlorination system, located outside and west of the office/control building, consists of a 350-gallon polyethylene storage tank which is heat traced and insulated. A polyethylene containment tank provides secondary protection. The system is located adjacent to manhole prior to discharge to the Schuylkill River. The metering pump and ISCO 3710 sampler are located in a prefabricated 8' x 8' fiberglass building.

- Emergency Generator

The generator is an MTU/Detroit Diesel Model 250 312KVA, 250KW unit. It is powered by a John Deer 384 HP engine and has 455-gallon integral fuel tank.

- Storage Building

A 2,150 SF storage building was constructed in 2015. The building is a wood frame structure built on 8-foot high concrete walls and concrete slab. There is a second story loft area that is isolated and can be used for storage or as an office. The exterior walls and roof are steel panels.



**LEGEND**

- PLUG VALVE
- GATE VALVE
- CHECK VALVE
- REDUCER
- ELECTRIC MOTOR OPERATOR
- METER
- FLOW ARROW
- PUMP
- TELESCOPIC VALVE
- GRINDER
- WEIR
- BAFFLE
- STOP PLATE
- SLIDE GATE
- SHEAR
- SLIDE GATE NUMBER

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	JOB No. ROYR0901.13	<b>G-2000</b>		

**PROCESS FLOW DIAGRAM**



Figure 1 – Lab Building, Secondary Settling Tanks #2 & #3, Sludge Storage Tanks



Figure 2 – Emergency Generator and Sludge Digester



Figure 3 – Trickling Filters



Figure 4 – Trickling Filter



Figure 5 – Settling Tanks



Figure 6 – Office entrance and wetwell



Figure 7 – Raw Sewage Pumps



Figure 8 – Chlorine Storage and dosing room

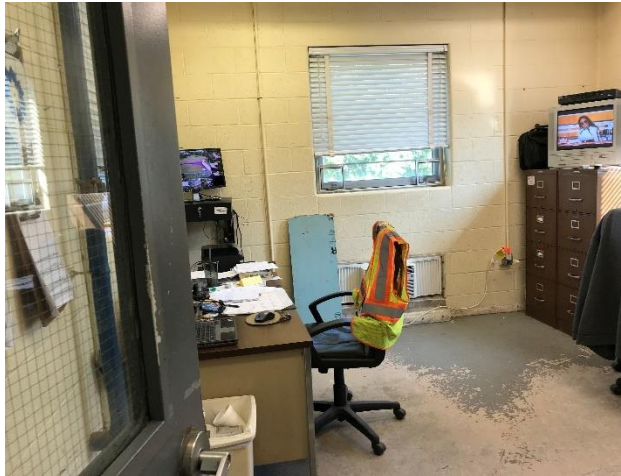


Figure 9 – Office



Figure 10 – Chlorine Contact Basin



Figure 11 – Storage Building



Figure 12 – PAC storage and Dosing System





Figure 13 –Secondary Recirculation Pump Station



Figure 14 – Secondary Recirculation Pump Station VFDs



Figure 15 – Lab Building. Basement – Primary Recirculation pump and Sludge Transfer Pump



Figure 16 – Primary Recirculation Pumps VFDs and MCC in Lab Building



Figure 17 – Influent Screen Unit (Upper Grinder Station)



Figure 18 – De-Chlorination System



Figure 19 – Digester Building Control Room



Figure 20 – Proposed Propane Heating System Location

## 3.2 PUMP STATIONS

### 10<sup>th</sup> Avenue Pump Station

#### Facility Description (see attached Information Sheet)

The 10<sup>th</sup> Avenue PS consists of a wet well, grinder, pump station enclosure, and generator. The station uses self-priming pumps, which draw directly from a wet well. The pumps and station controls are located within an enclosure. The enclosure is a masonry building with a shingled roof. Both pumps have been rebuilt with new impellers, shafts and bearings.

The pump station was upgraded in 2000 with new pumps, flow meter, muffin monster, generator and drainage structures. Pumps are Gorman Rupp Model T4A3-B, 450 GPM, 20 HP, 230 V, 3 ph. The pump station is equipped with an ISCO 4501 pump station monitor/flow meters. The grinder is a 3HP Muffin Monster. The Generator is an Onan Model 80DGDA, 100kVA, 82kW diesel powered. In 2011, drainage structures were installed to prevent flooding.

#### Property Condition

A majority of the equipment was upgraded in 2000. The building, pumps and electrical systems are in good condition.



Figure 1 – Wet Well



Figure 2 – Building, Generator and ATS



Figure 3 – Generator



Figure 4 – Gorman Rupp Pump



Figure 5 – Pump Control Panel



Figure 6 – Electrical Controls



Figure 7 – Wet Well



Figure 8 –Back of Building

### **Green Street Pump Station**

#### **Facility Description (see attached Information Sheet)**

The Green Street pump station consists of a wet well, dry well and generator. The station uses end suction dry pit sewage pumps located in an underground vault (dry well). In 2019, the electrical controls from the dry pit were relocated to the pump station deck. Access to the pumps is through a hatch and ladder.

The pumps are Vaughan Chopper Pumps Model P4L6, 350 GPM, 15 HP, 230V, 3 phase installed in 1989. The generator is a Baldor Model TS60, 61kVA, 49kW diesel powered with an integral 80 gallon diesel storage tank installed in 2012. An ISCO 4501 pump station monitor/flow meter was installed in 2012.

#### **Property Condition**

All of the station components are in good condition.



Figure 1 – Facility Site



Figure 2 – Pump Control Panels



Figure 3 – Dry Pit Entry Hatchway

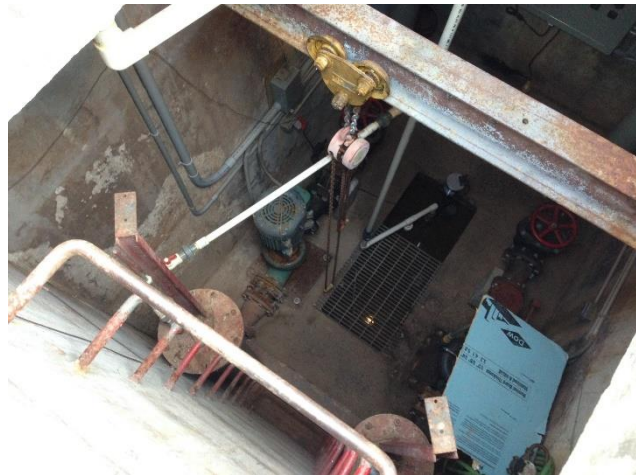


Figure 4 – View into Dry Pit from above



Figure 5 – Pump #1



Figure 6 – Pump #2



Figure 7 – Generator



Figure 8 – Pump Control Panel (now located on deck)



### 3.3 CONVEYANCE SYSTEM

The conveyance system consists of approximately 69,990 feet of 8, 10, 12 and 15-inch clay and PVC pipe. There is approximately 205 LF of 15-inch cast iron pipe. There are 259 manholes in the system. A vast majority of the piping was installed in 1935 and 1936.

There is 26,842 linear feet of laterals. Lateral lineal footages were estimated based on an average length from the center of average road widths to the curb. Additional quantities were measured from plans or quantified on escrows.

Green Street Pump Station's force main is 680 LF of 6-inch CIP. The 10<sup>th</sup> Avenue Pump Station force main is 3,500 LF of 8-Inch CIP.

## Appendix A-15-a

<b>ROYERSFORD, PA - SANITARY SEWER PIPE QUANTITIES</b>					
<b>GRAVITY PIPING</b>					
<b>Segment</b>	<b>Street Name</b>	<b>Upstream MH</b>	<b>Downstream MH</b>	<b>Pipe Size (inches)</b>	<b>Section Length (LF)</b>
1	3rd Ave	49	48	8	131
2	3rd Ave	48	47	8	355
3	3rd Ave	47	46	8	281
4	3rd Ave	46	26	8	200
5	3rd Ave	72	73	8	279
6	3rd Ave	73	74	8	400
7	3rd Ave	74	111	8	140
8	3rd Ave	111	112	8	91
9	Unitech	26	25	15	138
10	4th Ave	76	70	8	300
11	5th Ave	103	79	8	325
12	5th Ave	79	67	8	397
13	5th Ave	67	51	8	400
14	5th Ave	51	50	8	274
15	5th Ave	50	45	8	131
16	5th Ave	45	36	8	399
17	6th Ave	81	65	8	336
18	6th Ave	44	38	8	400
19	6th Ave	53	44	8	410
20	6th Ave	100	82	8	428
21	7th Ave	84	63	8	300
22	7th Ave	55	63	8	304
23	7th Ave	56	42	8	416
24	7th Ave	42	40	8	388
25	7th Ave	40A	40	8	300
26	Elm Street	40B	40A	8	350
27	Elm Street	40B	39	8	300
28	Church St	82	83	8	325
29	Church St	83	85	8	331
30	Church St	85	86	8	415
31	Church St	86	87	8	345
32	Church St	87	88	8	363
33	Church St	78	79	8	408
34	Church St	77	78	8	230
35	Church St	77	75	8	256
36	Church St	75	74	8	266
37	Church St	82	80	8	330
38	Church St	80	79	8	310
39	Chestnut St	63	62	8	328
40	Chestnut St	62	61	8	325
41	Chestnut St	61	60	8	316

## Appendix A-15-a

42	Chestnut St	60	59	8	332
43	Chestnut St	70	71	8	200
44	Chestnut St	71	73	8	325
45	Chestnut St	68	69	8	225
46	Chestnut St	68	67	8	300
47	Chestnut St	67	66	8	300
48	Chestnut St	65	66	8	307
49	Chestnut St	66	65	8	400
50	Chestnut St	65	64	8	325
51	Chestnut St	64	63	8	300
52	Oak St	57	56	8	395
53	Oak St	54	53	8	454
54	Oak St	52A	52	8	200
55	Oak St	53	52A	8	237
56	Pine St	40	39	8	335
57	Pine St	39	38	8	500
58	Pine St	36	35	8	225
59	Pine St	35	34	8	350
60	Pine St	34	28	8	175
61	Pine St	28	27	8	90
62	Pine St	26	27	8	80
63	Pine St	37	33A	12	278
64	Pine St	33A	33	12	169
65	Pine St	33	32	12	74
66	Pine St	38	37	12	262
67	Pine St Easement	37	33A	12	279
68	Pine St. Easement	30	29	12	49
69	Pine St. Easement	32	31	12	169
70	Pine St. Easement	31	31A	12	259
71	Pine St. Easement	31A	30	12	180
72	Spruce St	41	42	8	250
73	Spruce St	45	46	8	205
74	Spruce St	43	44	8	365
75	Summer St.	109	110	8	264
76	Summer St.	110	112	8	117
77	Summer St.	111	111A	8	108
78	Summer St.	111A	111B	8	122
79	Summer St.	111B	111C	8	151
80	Summer St.	111C	111D	8	60
81	Summer St.	111D	17B	8	259
82	1st Ave	2	1	15	480
83	1st Ave	3	2	15	450
84	1st Ave	4	3	15	340
85	1st Ave	5	4	15	110
86	1st Ave	6	5	15	550
87	1st Ave	7	6	15	35
88	1st Ave	8	7	15	305
89	1st Ave	9	8	15	350

## Appendix A-15-a

90	1st Ave	10	9	15	185
91	1st Ave	11	11A	15	70
92	1st Ave	11	10	15	165
93	1st Ave	12	11A	15	280
94	1st Ave	12A	12	15	295
95	1st Ave	12B	12A	15	115
96	1st Ave	13	12B	15	270
97	1st Ave	14	13	15	50
98	1st Ave	12A	12	15	290
99	1st Ave	12B	12A	15	110
100	2nd Ave	201A	201	8	44
101	2nd Ave	201B	201A	8	220
102	2nd Ave	118	117	8	230
103	2nd Ave	124	118	8	220
104	2nd Ave	167	124	8	430
105	2nd Ave	168	167	8	147
106	2nd Ave	169	168	8	410
107	2nd Ave	194	195	8	62
108	2nd Ave	195	169	12	360
109	2nd Ave	200	194	8	227
110	2nd Ave	201	200	8	215
111	3rd Ave	112	114	8	191
112	3rd Ave	120	115	8	210
113	3rd Ave	120	119	8	120
114	3rd Ave	129	120	8	112
115	3rd Ave	163	164	8	199
116	3rd Ave	170	190	8	396
117	3rd Ave	205	190	8	370
118	4th Ave	130	123	8	183
119	4th Ave	173	183	8	344
120	4th Ave	184	207	8	293
121	5th Ave	105	133	8	298
122	5th Ave	133	155	8	193
123	5th Ave	155	156	8	193
124	5th Ave	157	175	8	253
125	5th Ave	181	175	8	414
126	6th Ave	177	177A	8	210
127	6th Ave	179	177A	8	190
128	6th Ave	179	212	8	370
129	6th Ave	177A	177	8	210
130	Adams St	126	165	8	430
131	Arch St	178	179	8	250
132	Arch St	179	180A	8	175
133	Arch St	180	181	8	323
134	Arch St	183	186	8	109
135	Arch St	185	186	8	190
136	Arch St	186	188	8	275
137	Arch St	187	186	8	200

## Appendix A-15-a

138	Arch St	188	189	8	285
139	Arch St	189	190	8	35
140	Arch St	198	6	8	254
141	Arch St Easement	190	191	8	28
142	Arch St Easement	191	192	12	330
143	Arch St Easement	192	192A	12	170
144	Arch St Easement	192A	193	12	110
145	Arch St Easement	193	194	12	257
146	Arch St Easement	195	196	12	160
147	Arch St Easement	197	198	8	216
148	Arch St Easement	192A	193	12	139
149	Green St	202	201	8	70
150	Green St	203	202	8	340
151	Green St	204	203	8	275
152	Green St	205	204	8	275
153	Green St	206	206A	8	347
154	Green St	207	206	8	27
155	Green St	208	207	8	310
156	Green St	210	208	8	320
157	Green St	211	210	8	299
158	Green St	212	211	8	340
159	Green St	213	212	8	282
160	Green St	206A	205	8	337
161	Main St	94	93	8	310
162	Main St	95	94	8	225
163	Main St	96	95	8	301
164	Main St	97	96	8	296
165	Main St	98	97	8	330
166	Main St	99	98	8	340
167	Main St	100	99	8	336
168	Main St	101	100	8	300
169	Main St	102	101	8	270
170	Main St	104	102	8	90
171	Main St	104	106	8	300
172	Main St	104	102	8	90
173	Main St	106	108	8	330
174	Main St	108	113	8	280
175	Main St	113	114	8	250
176	Main St	114	115	8	200
177	Main St	116	117	8	334
178	Main St	117	16	8	225
179	Main St	100A	100	8	336
180	Main St	101A	100	8	160
181	Main St	15	14	15	246
182	Main St	16	15	15	105
183	Myrtle Alley	121	121A	8	115
184	Myrtle St	121	120	8	320
185	Myrtle St	122	121A	8	216

## Appendix A-15-a

186	Myrtle St	123	122	8	70
187	N 4th St	107	108	8	380
188	Plum St	160	161	8	332
189	Plum St	161	163	8	317
190	Spring St	171	170	8	341
191	Spring St	171	171A	8	170
192	Spring St	172	171A	8	205
193	Spring St	174	174C	8	220
194	Spring St	176	175	8	390
195	Spring St	177	176	8	266
196	Spring St	174	172	8	310
197	Spring St Easement	175	174C	8	110
198	Spring St Easement	174A	174	8	175
199	Spring St Easement	174B	174A	8	235
200	Spring St Easement	174C	174B	8	156
201	Walnut St	125	124	8	270
202	Walnut St	127	125	8	160
203	Walnut St	128	127	8	103
204	Walnut St	130	130A	8	88
205	Walnut St	131	130A	8	252
206	Walnut St	132	131	8	240
207	Walnut St	134	135	8	413
208	Walnut St	134	133	8	227
209	Walnut St	135	136	8	316
210	Walnut St	136	137	8	311
211	Walnut St	137	138	8	418
212	Walnut St	138	139	8	359
213	Walnut St	130A	130	8	88
214	Washington St	150	149	8	394
215	Washington St	151	150	8	376
216	Washington St	152	151	8	288
217	Washington St	153	152	8	360
218	Washington St	154	153	8	273
219	Washington St	154	156	8	350
220	Washington St	156	158	8	310
221	Washington St	158	159	8	345
222	Washington St	159	162	10	361
223	Washington St	162	164	10	339
224	Washington St	164	165	10	475
225	Washington St	165	166	10	214
226	Washington St	166	168	10	66
227	Church Street R.O.W.	58	90	8	406
228	Chestnut Street	58A	58	8	291
229	Chestnut Street	58B	58A	8	197
230	Chestnut Street	59	58B	8	172
231	Church Street	88	89	8	327
232	Church Street	89	90	8	483
233	Main Street R.O.W.	90	91	8	381

## Appendix A-15-a

234	Main Street	92	PS	8	40
235	Main Street	92A	92	8	166
236	Main Street	93	92A	8	319
237	Main Street	94	93	8	273
238	Main Street	95	94	8	244
239	Main Street	96	95	8	286
240	Walnut Street	139	140	8	373
241	Walnut Street	140	141	8	323
242	Walnut Street	141	142	8	327
243	Walnut Street	142	143	8	481
244	Walnut Street R.O.W.	143	92	8	415
245	Walnut Street	144	143	8	95
246	Washington Street R.O.W.	145	144	8	300
247	Washington Street R.O.W.	146	145	8	300
248	Washington Street	147	146	8	225
249	Washington Street	147A	147	8	329
250	Washington Street	148	147A	8	287
251	Lewis Road	149	139	8	386
252	9th Avenue R.O.W.	14	147	8	412
253	Spring Street	15	14	8	401
254	Spring Street	16	15	8	187
255	RR ROW	196	199	15	140
256	RR ROW	199	199A	15	430
257	RR ROW	199A	199B	15	300
258	RR ROW	199B	215	15	360
259	RR ROW	215	216	15	350
260	RR ROW	216	217	15	100
261	N 6th Ave	un-numbered	38	8	185
262	Elm Street	un-numbered	un-numbered	8	385
263	S. Third Ave	205A	205	8	350
264	S. Fourth Ave	206B	206	8	270
				<b>total length</b>	<b>69,990</b>
	<b>Total Gravity Piping (LF)</b>		Total 8 inch VCP		57,265
			Total 10 inch VCP		1,455
			Total 12 inch VCP		3,245
			Total 15 inch VCP		6,414
			Total 15 inch CIP		205
			Total 8 inch PVC		1,406
					<b>69,990</b>
<b>FORCE MAINS</b>					
GREEN STREET PUMP STATION			6-Inch Cast Iron		680
10th AVENUE PUMP STATION			8-Inch Cast Iron		3,500

**4. OWNED PROPERTY AND EASEMENTS OF VALUE**

Property that was directly purchased by the Authority and easements acquired with a significant purchase price are listed in the following chart. A majority of the properties owned by the Authority were transferred as part of the purchase of the facility and cannot be isolated as a separate value. The value of said properties is listed with a value of \$3,000 that was listed in the original project costs of the facilities in Section 8 – “List of Assets and Costs”. No specific parcel or parcels were identified.

<b>Royersford Public Sewer Locations Outside of Road Right-of-Way</b>				
<b>Property</b>	<b>Address</b>	<b>PARID</b>	<b>Easement Info</b>	<b>Cost</b>
1	962 WALNUT ST	19-00-04504-00-4	Easement recorded 8/7/1961 in Deed Book 3196, page 1	\$9.50
2	WASHINGTON ST	19-00-05492-00-6		
3	389 S FOURTH AVE	19-00-01552-00-4	Easement recorded 5/4/1937 in Deed Book 1234, page 406	\$1.00
4	391 S FOURTH AVE	19-00-01556-00-9	Easement recorded 5/4/1937 in Deed Book 1234, page 408	\$1.00
5	393 S FOURTH AVE	19-00-01560-00-5		
6	395 S FOURTH AVE	19-00-01564-00-1		
7	397 S FOURTH AVE	19-00-01568-00-6		
8	399 S FOURTH AVE	19-00-01572-00-2		
9	401 S FOURTH AVE	19-00-01576-00-7	Easement recorded 5/4/1937 in Deed Book 1234, page 384	\$1.00
10	403 S FOURTH AVE	19-00-01580-00-3		
11	405 S FOURTH AVE	19-00-01584-00-8		
12	WWTP		1935	\$3,000.00
13	10th AVE PUMP STATION	19-00-00368-00-9	Easement recorded 10/20/2000 Deed Book 5381, Page 1362	\$38.50



## 5. REGULATORY REQUIREMENTS



December 28, 2017

**CERTIFIED MAIL NO. 7017 1000 000 5886 5688**

Mr. Michael Leonard, Manager  
Royersford Borough  
300 Main Street  
Royersford, PA 19468-2313

Re: Final NPDES Permit- Sewage  
Royersford Borough STP  
NPDES Permit No. PA0021512  
Authorization ID No. 1175844  
Upper Providence Township, Montgomery County

Dear Mr. Leonard:

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 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.3 of the permit are met to submit hard copies.

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

Mr. Michael Leonard

- 2 -

December 28, 2017

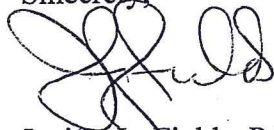
audiotape from the Secretary to the Board at 717.787.3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

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 Orest Kolodij at 484.250.5191.

Sincerely,



Jenifer L. Fields, P.E.  
Environmental Program Manager  
Clean Water Program

Enclosures

cc: Montgomery County Health Department (Transmittal Letter Only)  
Upper Providence Township (Transmittal Letter Only)  
EPA 3WP41 (Transmittal Letter Only)  
DRDC - Mr. David Kovach (w/enclosures)  
Gilmore & Associates – Mr. Thomas Figaniak (w/enclosures)  
Operations Section  
Central Office, Division of Operations  
Ms. Lashley  
File



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

**NPDES PERMIT NO: PA0021512**

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.*,

**Borough of Royersford  
300 Main Street  
Royersford, PA 19468**

is authorized to discharge from a facility known as **Royersford Borough STP**, located at **600 South First Avenue, Upper Providence Township, Montgomery County**, to **Schuylkill River** in Watershed(s) **3-D** 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 January 1, 2018**

**THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON December 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))

4. 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** December 28, 2017

**ISSUED BY**   
**Jenifer L. Fields, P.E.**  
**Clean Water Program Manager**  
**South East Regional Office**

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

I. A. For Outfall 001, Latitude 40° 10' 31.00", Longitude 75° 32' 14.00", River Mile Index 41.25, Stream Code 00833

Receiving Waters: Schuylkill River

Type of Effluent: Treated sewage from Royersford Borough STP.

1. The permittee is authorized to discharge during the period from January 1, 2018 through December 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).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)			Instant. Maximum	Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average			
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
Total Residual Chlorine (TRC)	XXX	XXX	XXX	0.5	XXX	1.2	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	117	175	XXX	20.0	30.0	40	1/week	24-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Total Suspended Solids Raw Sewage Influent	117	175	XXX	20.0	30.0	40	1/week	24-Hr Composite
Total Suspended Solids Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Total Dissolved Solids	XXX	XXX	XXX	1000.0 Daily Max	2000.0	2500	1/month	24-Hr Composite
Fecal Coliform (No./100 ml) (*)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab

Outfall 001, Continued (from January 1, 2018 through December 31, 2022)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite
Ammonia-Nitrogen	35	XXX	XXX	6.0	XXX	12	1/week	24-Hr Composite
Total Phosphorus	12	XXX	XXX	2.0	XXX	XXX	1/week	24-Hr Composite
PCBs Dry Weather Analysis (pg/L)	XXX	XXX	XXX	Report Daily Max	XXX	XXX	1/year	24-Hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Outfall 001

(\* See Part C Requirement I.F for instructions regarding October thru April reporting of maximum fecal coliform values.

**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 BOD<sub>5</sub> or CBOD<sub>5</sub> 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-BCW0435) 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 1.0 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 001 were determined using an effluent discharge rate of 0.7 MGD.
- (3) The organic design capacity of 1,751 lbs BOD<sub>5</sub> 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.

(4) Total Nitrogen is the sum of Total Kjeldahl-N (TKN) plus Nitrite-Nitrate as N ( $\text{NO}_2+\text{NO}_3\text{-N}$ ), where TKN and  $\text{NO}_2+\text{NO}_3\text{-N}$  are measured in the same sample.



## 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(l)(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 n<sup>th</sup> 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(i)(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](http://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-BCW0463). 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-BCW0189) 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(l)(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))

7. 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 self-monitoring data on the DMR. (40 CFR 122.41(l)(4)(ii))

### C. Reporting and Notification Requirements

1. 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(l)(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(l)(1)(iii))
  - d. The planned change may result in noncompliance with permit requirements: (40 CFR 122.41(l)(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-BCW0482), 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-BCW0450) 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-BCW0437) 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:

- (1) The dates that municipal wastes were received.
  - (2) The volume (gallons) of wastes received.
  - (3) The BOD<sub>5</sub> 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 BOD<sub>5</sub> 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(l)(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(l)(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(l)(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-BCW0440). The reports shall contain the information listed in paragraph C.4.b.(ii) of this section. (40 CFR 122.41(l)(7))

**PART B**

**I. 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(l)(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

1. 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))
  - 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 be available 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. (40 CFR 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:  
**Minor Sewage Facility ≥0.05 and <1 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. 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.

- E. Notification of the designation of the responsible operator must be submitted to the permitting agency by the permittee within 60 days after the effective date of the permit and from time to time thereafter as the operator is replaced.
- F. The seasonal effluent limitations for fecal coliform are based on Chapter 92a (Section 92a.47(4) and (5)) of DEP's regulations and Delaware River Basin Commission's (DRBC's) Water Quality Regulations at Section 4.30.4.A. DEP's regulations govern the summer limits for fecal coliform while the winter limits are based on DRBC's regulations. The DRBC regulations state that during winter season from October through April, the instantaneous maximum concentration of fecal coliform organisms shall not be greater than 1,000 per 100 milliliters in more than 10 percent of the samples tested. For reporting purposes, a copy of the guidelines on the 10 percent rule is enclosed with the permit.
- G. The permittee shall develop a treatment facility operations and maintenance (O&M) plan addressing key wastewater processes. The plan shall be reviewed annually and updated when appropriate. The plan shall be submitted to DEP for review upon request. For the purpose of this paragraph, a key wastewater process includes any equipment or process that, if it fails, may cause the discharge of raw wastewater or wastewater that fails to meet NPDES permit discharge requirements, or a failure that may threaten human or environmental health. The O&M plan shall include the following, at a minimum:
  - 1. A process control strategy that includes a schedule for process control sampling, monitoring, testing, and recordkeeping.

2. A plan that identifies how key wastewater processes shall be monitored and adjusted while the facility is staffed.
3. A plan that identifies how key wastewater processes will be monitored while the treatment facility is not staffed.
4. For treatment plants that are impacted by wet weather flows, the permittee shall develop and implement a wet weather operations strategy that minimizes or eliminates the wash out of solids from the treatment system while maximizing the flow through the treatment plant.
5. An emergency plan that identifies how the facility will be operated during times of emergency. For example, the plan shall detail how key wastewater processes will be repaired or replaced in the event of a failure while minimizing loss of life and property damage to the facility. This plan shall also include emergency contact numbers for local emergency response agencies, plant personnel, critical suppliers and vendors, and DEP contacts, at a minimum.
6. A preventative maintenance plan that includes a schedule for preventative maintenance for all equipment within the treatment system. A spare parts inventory shall be included as part of this plan.
7. A solids management plan that identifies how solids produced by the facility will be wasted, treated, and ultimately disposed of.

## II. PCB MONITORING

- A. On April 7, 2007, the U.S. Environmental Protection Agency (EPA) Region III adopted a Total Maximum Daily Load (TMDL) for Polychlorinated Biphenyls (PCBs) in the Schuylkill River. Implementation of the TMDL requires that permitted facilities that discharge directly to the Schuylkill River conduct sampling for PCBs and, based upon review of the results, develop and implement a PCB Pollutant Minimization Plan (PMP). The Schuylkill River's PCB TMDL was established using a water quality criterion of 0.044 ng/l for PCBs. Based on the sampling results submitted by the facility, this facility is required to develop and implement a PCB PMP.
- B. The permittee shall collect one 24-hour composite sample annually during dry weather flow. The samples shall be collected from Outfall(s) 001.
- C. All sample analyses shall be performed using EPA Method 1668A, Revision A: Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by HRGC/HRMS (EPA-821-R-00-002, December 1999) as supplemented or amended, and results for all 209 PCB congeners shall be reported. Project-specific sample collection protocols, analytical procedures, and reporting requirements of the Delaware River Basin Commission (DRBC) shall be followed (see [www.state.nj.us/drbc/quality/toxics/pcbs/monitoring.html](http://www.state.nj.us/drbc/quality/toxics/pcbs/monitoring.html)). Monitoring information, sample data, and reports associated with PCB monitoring shall be submitted to DEP and DRBC in the form of two compact discs in the format referenced at [www.state.nj.us/drbc/library/documents/PCB-EDD011309.pdf](http://www.state.nj.us/drbc/library/documents/PCB-EDD011309.pdf).
- D. In accordance with the EPA TMDL for PCBs for the Schuylkill River, the permittee shall submit a PMP for PCBs within 12 months from the effective date of the permit. The permittee shall comply with the requirements of Section 4.30.9 of DRBC's Water Quality Regulations. Additional information regarding PMP development may be found at [www.state.nj.us/drbc/programs/quality/pmp.html](http://www.state.nj.us/drbc/programs/quality/pmp.html). In addition, the permittee shall:
  1. Continue implementation of its PMP as submitted.
  2. Continue to submit Annual Reports to DEP and DRBC consistent with the guidance at [www.state.nj.us/drbc/programs/quality/pmp.html](http://www.state.nj.us/drbc/programs/quality/pmp.html).



## Appendix A-15-a

The PMP, PMP Annual Report, and PCB data shall be submitted to DEP and DRBC at the following addresses:

PA Department of Environmental Protection  
Southeast Regional Office  
Clean Water Program  
2 East Main Street  
Norristown, PA 19401

Delaware River Basin Commission  
Modeling, Monitoring & Assessment Branch  
P.O. Box 7360  
West Trenton, NJ 08628



**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)**

**PRIMARY FACILITY NAME/ADDRESS**

NAME Royersford Borough STP  
 CLIENT Royersford Borough  
 ADDRESS 300 Main Street  
Royersford, PA 19468-2313  
 LOCATION Upper Providence Township  
Montgomery County  
 WATERSHED 3-D

PA0021512 PERMIT NUMBER  
 001 OUTFALL NUMBER

MONITORING PERIOD  
 YEAR MO DAY TO YEAR MO DAY

Reporting Frequency: Annually  
 DMR Effective From: January 1, 2018  
 DMR Effective To: December 31, 2022  
 Permit Expires: December 31, 2022  
 Permit Application Due: July 4, 2022

Check Here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT REQUIREMENT	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	UNITS				
PCBs Dry Weather Analysis	XXX	XXX	XXX	Report Daily Max	XXX	pg/L		1/year	24-Hr Composite

NAME/TITLE, PRINCIPAL EXECUTIVE OFFICER	TELEPHONE		DATE
TYPED OR PRINTED	AREA CODE	NUMBER	YEAR MO DAY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			
COMMENTS (Report all violations on the "Non-Compliance Reporting Form")			



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
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WATERSHED 3-D

PA0021512  
PERMIT NUMBER

001  
OUTFALL NUMBER

Reporting Frequency: Monthly  
DMR Effective From: January 1, 2018  
DMR Effective To: December 31, 2022  
Permit Expires: December 31, 2022  
Permit Application Due: July 4, 2022

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY

Check Here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	VALUE				
Flow	MEASUREMENT	Report Avg Mo								
	PERMIT REQUIREMENT	Report Daily Max	MGD	XXX	XXX	XXX	XXX		Continuous	Recorded
pH	MEASUREMENT									
	PERMIT REQUIREMENT	XXX	XXX	6.0 Inst Min	XXX	9.0 IMAX	S.U.		1/day	Grab
Dissolved Oxygen	MEASUREMENT									
	PERMIT REQUIREMENT	XXX	XXX	5.0 Inst Min	XXX	XXX	mg/L		1/day	Grab
Total Residual Chlorine (TRC)	MEASUREMENT									
	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	1.2 IMAX	mg/L		1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	MEASUREMENT									
	PERMIT REQUIREMENT	117 Avg Mo	175 Wkly Avg	XXX	XXX	20.0 Avg Mo	30.0 Wkly Avg	mg/L	1/week	24-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	MEASUREMENT									
	PERMIT REQUIREMENT	Report Avg Mo	XXX	Report Avg Mo	XXX	XXX	mg/L		1/week	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
TYPED OR PRINTED	AREA CODE	YEAR
COMMENTS (Report all violations on the "Non-Compliance Reporting Form")	NUMBER	MO
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		

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)**

PRIMARY FACILITY NAME/ADDRESS

NAME: Royersford Borough STP  
 CLIENT: Royersford Borough  
 ADDRESS: 300 Main Street  
Royersford, PA 19468-2313  
 LOCATION: Upper Providence Township  
Montgomery County  
 WATERSHED: 3-D

PA0021512  
 PERMIT NUMBER

001  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: January 1, 2018  
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 Permit Application Due: July 4, 2022

MONITORING PERIOD			
YEAR	MO	DAY	TO

Check Here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	UNITS			
Total Suspended Solids Raw Sewage Influent	MEASUREMENT							
	PERMIT REQUIREMENT	Report Avg Mo	lbs/day	XXX	Report Avg Mo		1/week	24-Hr Composite
Total Suspended Solids	MEASUREMENT							
	PERMIT REQUIREMENT	117 Avg Mo	lbs/day	XXX	20.0 Avg Mo		1/week	24-Hr Composite
Total Dissolved Solids	MEASUREMENT							
	PERMIT REQUIREMENT	XXX	XXX	XXX	1000.0 Avg Mo		1/month	24-Hr Composite
Fecal Coliform	MEASUREMENT							
	PERMIT REQUIREMENT	XXX	XXX	XXX	200 Geo Mean		1/week	Grab
Total Nitrogen	MEASUREMENT							
	PERMIT REQUIREMENT	Report Avg Mo	lbs/day	XXX	Report Avg Mo		1/month	24-Hr Composite
Ammonia-Nitrogen	MEASUREMENT							
	PERMIT REQUIREMENT	35 Avg Mo	lbs/day	XXX	6.0 Avg Mo		1/week	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
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).		
TYPED OR PRINTED	AREA CODE	MO
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		YEAR

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



COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT  
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Check Here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT REQUIREMENT	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		VALUE	UNITS	VALUE	VALUE	VALUE	UNITS				
Total Phosphorus		12	Avg Mo	XXX	lbs/day	2.0	Avg Mo	XXX	mg/L	1/week	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
TYPED OR PRINTED		AREA CODE	NUMBER
COMMENTS (Report all violations on the "Non-Compliance 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](http://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 received by DEP on the 28<sup>th</sup> 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.
2. 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 all 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 no discharge at all from an outfall 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 all samples or results 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 maximum 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  $n$ th 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  $(2 \bullet 10 \bullet 20 \bullet 30)^{0.25} = < 10$ . 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  $(2 \bullet 1,000 \bullet 2,000)^{0.333} = > 158$ .

**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.



**Supplemental Form Inventory**  
**Royersford Borough STP**  
**Effective: January 1, 2018**

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.
<input checked="" type="checkbox"/>	Daily Effluent Monitoring (3800-FM-BPNPSM0435)
<input checked="" type="checkbox"/>	Influent & Process Control (3800-FM-BPNPSM0436)
<input checked="" type="checkbox"/>	Hauled in Municipal Wastes (3800-FM-BPNPSM0437)
<input checked="" type="checkbox"/>	Sewage Sludge/Biosolids Production and Disposal (3800-FM-BPNPSM0438)
<input type="checkbox"/>	Chemical Additives Usage (3800-FM-BPNPSM0439)
<input checked="" type="checkbox"/>	Non-Compliance Reporting Form (3800-FM-BPNPSM0440)
<input type="checkbox"/>	CSO Monthly Summary Report (3800-FM-BPNPSM0441)
<input type="checkbox"/>	CSO Detailed Report (3800-FM-BPNPSM0442)
<input type="checkbox"/>	Groundwater Monitoring Data Report (3800-FM-BPNPSM0443)
<input type="checkbox"/>	TMDL Annual Load Summary (3800-FM-BPNPSM0448)
<input type="checkbox"/>	Land Application Systems (3800-FM-BPNPSM0449)
<input checked="" type="checkbox"/>	Hauled in Residual Wastes (3800-FM-BPNPSM0450)
<input type="checkbox"/>	Surface Water Monitoring Data Report (3800-FM-BPNPSM0461)
<input checked="" type="checkbox"/>	Lab Accreditation Form (3800-FM-BPNPSM0189)
<input type="checkbox"/>	Whole Effluent Toxicity Test Summary Report (3800-FM-BPNPSM0485)
<input type="checkbox"/>	Storm Water Annual Inspection Form (3800-PM-WSFR0083v)
<input type="checkbox"/>	Storm Water Additional Information (3800-PM-WSFR0083t)
<input checked="" type="checkbox"/>	Other: 10% Fecal Rule



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

**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

Facility Name: Royersford Borough STP County: Montgomery Month: \_\_\_\_\_ Year: \_\_\_\_\_  
Municipality: Upper Providence Township NPDES Permit No.: PA0021512 Outfall No.: 001  
Watershed: 3-D Renewal application due **180 days** prior to expiration  
Laboratories: \_\_\_\_\_ This permit will expire on **DECEMBER, 31 2022**

Day	Flow		pH		DO		TRC		CBOD5		TSS		Total Dissolved Solids		Fecal Coliform		Total Nitrogen		
	Q	MGD	Q	S.U.	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	No./100 ml	Q	mg/L	
1																			
2																			
3																			
4																			
5																			
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31																			
Avg																			

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 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: \_\_\_\_\_

Appendix A-1a



**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

Facility Name: Royersford Borough STP      Month: PA0021512      Year: 2022  
 Municipality: Upper Providence Township      NPDES Permit No.: PA0021512      Outfall No.: 001  
 Watershed: 3-D      County: Montgomery  
 Laboratories: \_\_\_\_\_  
 Renewal application due **180 days** prior to expiration  
 This permit will expire on **DECEMBER, 31 2022**

Day	Ammonia		Total Phosphorus		PCBs (Dry Weather)		Q		Q		Q		Q	
	mg/L	Q	mg/L	Q	pg/L	Q	Q	Q	Q	Q	Q	Q	Q	
1														
2														
3														
4														
5														
6														
7														
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31														
Avg														

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Prepared By: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Title: \_\_\_\_\_ Date: \_\_\_\_\_

**INSTRUCTIONS FOR COMPLETING  
DAILY EFFLUENT MONITORING  
SUPPLEMENTAL REPORT**

Appendix A-15-a

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.



**SUPPLEMENTAL REPORT – INFLUENT & PROCESS CONTROL**

Facility Name: Roversford Borough STP Month: \_\_\_\_\_ Year: \_\_\_\_\_  
 Municipality: Upper Providence Township County: Montgomery  
 Watershed: 3-D NPDES Permit No.: PA0021512  
 Renewal application due **180 days** prior to expiration.  
 This permit will expire on December 31, 2022

Appendix A-15-a

Day	Influent				Process Control			
	Flow (MGD)	BOD5 (mg/l)	BOD5 (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)
1								
2								
3								
4								
5								
6								
7								
8								
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Avg								
Max								

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 – HAULED IN MUNICIPAL WASTES**

Facility Name: Roversford Borough STP Month: \_\_\_\_\_ Year: \_\_\_\_\_  
 Municipality: Upper Providence Township County: Montgomery  
 Watershed: 3-D NPDES Permit No.: PA0021512  
 Renewal application due **180 days** prior to expiration  
 This permit will expire on December 31, 2022

Day	SEPTAGE			SLUDGE			OTHER (specify):			DAILY TOTALS		
	Gallons	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	Disposal Location	Gallons	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	Disposal Location	Gallons	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	
1												
2												
3												
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31												
Avg												Monthly Totals:

Appendix A-15-a

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: \_\_\_\_\_





**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 Name: Royersford Borough STP Month: \_\_\_\_\_ Year: \_\_\_\_\_  
 Upper Providence  
 Municipality: Township County: Montgomery Permit No.: PA0021512

**Violations of Permit Effluent Limitations\***

Date	Parameter	Permit Limit	Units	Statistical Code	Result	Units	Cause of Violation	Corrective Action Taken

**Sanitary Sewer Overflows and Other Unauthorized Discharges\***

Event Date	Substance Discharged	Location	Volume (gals)	Duration (hrs)	Receiving Waters	Impact on Waters	Cause of Discharge	Date DEP Notified

**Other Permit Violations\***

- Sample collection less frequent than required Explain
- Sample type not in compliance with permit Explain
- Violation of permit schedule Explain
- Other Explain
- Other Explain

**\* If the space provided is not sufficient to record all information, please attach additional sheets.**

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: \_\_\_\_\_







## 6. OPERATING EXPENSES

BOROUGH OF ROYERSFORD  
BUDGET 2019

<b>EXPENDITURES:</b>				
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	<b>INC/DEC</b>
400	GOVERNMENT	305,665	301,702	(3,963)
403	TAX COLLECTOR	30,800	32,800	2,000
404	LEGAL	50,500	50,500	-
409	BOROUGH HALL	42,700	46,700	4,000
410	POLICE	1,297,259	1,324,477	27,218
411	FIRE	233,024	233,024	-
413	CODE ENFORCE/ENGINEER	132,868	160,400	27,532
414	PLANNING	5,000	3,000	(2,000)
415	EMERGENCY MANAGEMENT	5,544	4,470	(1,074)
430	PUBLIC WORKS	407,420	438,850	31,430
431	SWEEPER	2,000	2,000	-
432	SALT	40,000	40,000	-
433	STREET & TRAFFIC SIGN.	29,500	20,000	(9,500)
434	STREET LIGHTS	64,500	61,500	(3,000)
436	STORM SEWER	10,000	10,000	-
438	HIGHWAY PATCH	4,000	4,000	-
451	CULTURE	3,000	3,000	-
452	VICTORY PARK	99,350	103,055	3,705
456	LIBRARY	5,000	5,000	-
462	GRANTS	0	193,000	193,000
463	REVITALIZATION	186,125	30,300	(155,825)
483	RETIREMENT	126,500	133,500	7,000
492	CAPITAL PROJECTS	25,000	40,280	15,280
	<b>TOTALS</b>	<b>3,105,755</b>	<b>3,241,558</b>	<b>135,803</b>

**BOROUGH OF ROYERSFORD  
BUDGET 2019**

**Appendix A-15-a**

<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	<b>INC/DEC</b>
400.100	COUNCIL COMPENSATION	6,200	6,200	-
400.120	MAYOR COMPENSATION	1,800	1,800	-
400.121	MANAGER'S SALARY	69,840	71,927	2,087
400.140	CLERICAL SALARIES	48,250	49,675	1,425
400.156	HEALTH, DENTAL,LIFE INSURANCE	72,250	69,500	(2,750)
400.161	SOCIAL SECURITY	9,650	11,450	1,800
400.162	UNEMP. COMP. INS.	2,235	1,500	(735)
400.163	WORKMEN'S COMPENSATION	200	100	(100)
400.210	OFFICE SUPPLIES	3,500	3,500	-
400.211	POSTAGE	1,200	1,200	-
400.214	POSTAGE METER RENTAL	1,540	1,500	(40)
400.215	COMPUTER/COPIER SUPPLIES & SERVI	10,000	10,000	-
400.217	BANK FEES/PAYROLL SERVICE	6,000	6,000	-
400.311	AUDITING SERVICES	16,500	16,500	-
400.321	COMMUNICATION EXPENSE	5,000	5,000	-
400.341	ADVERTISING ©NOT LEGAL	2,000	2,000	-
400.342	PRINTING	3,000	3,000	-
400.352	PROP. & LIAB. INSURANCE	9,800	8,000	(1,800)
400.353	TREAS. & BORO OFF. BONDS	700	850	150
400.370	OFFICE EQUIPMENT	14,000	10,000	(4,000)
400.420	SUBSCRIP & MEMBERSHIP	8,000	8,000	-
400.421	TRAINING & SEMINARS	2,000	2,000	-
400.422	BOROUGH RECOGNITION	2,000	2,000	-
400.700	CAPITAL PURCHASE	5,000	5,000	-
400.800	CAPITAL RESERVE	5,000	5,000	-
	<b>TOTAL</b>	<b>305,665</b>	<b>301,702</b>	<b>(3,963)</b>

**TAX COLLECTOR & SUPPLIES:**

<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	<b>INC/DEC</b>
403.100	COMM. TAX COLLECTOR	20,000	20,000	-
403.110	COMMISSION E.I.T./L.S.T.	8,000	10,000	2,000
403.200	TAX COLLECTOR SUPPLIES	1,900	1,900	-
403.353	TAX COLLECTOR'S BOND	900	900	-
	<b>TOTAL</b>	<b>30,800</b>	<b>32,800</b>	<b>2,000</b>

**LEGAL:**

<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	<b>INC/DEC</b>
404.100	SOLICITOR'S FEE	48,000	48,000	-
404.341	LEGAL ADVERTISING	2,500	2,500	-
	<b>TOTAL</b>	<b>50,500</b>	<b>50,500</b>	<b>-</b>

BOROUGH OF ROYERSFORD  
BUDGET 2019

Appendix A-15-a

<b>BOROUGH HALL OPERATIONS:</b>				
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	<b>INC/DEC</b>
409.226	SUPPLIES	2,200	2,200	-
409.251	MAINTENANCE	10,000	10,000	-
409.300	OTHER SERVICES & CHARGES	6,000	6,000	-
409.352	INSURANCE - PROPERTY	7,500	12,000	4,500
409.361	ELECTRIC	6,500	6,000	(500)
409.366	WATER	500	500	-
409.370	REPAIRS/IMPROVEMENTS	10,000	10,000	-
	<b>TOTAL</b>	<b>42,700</b>	<b>46,700</b>	<b>4,000</b>

<b>FIRE PROTECTION:</b>				
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	<b>INC/DEC</b>
411.140	HYDRANT RENTAL	12,900	12,100	(800)
411.163	WORKMEN'S COMP-FIRE	36,020	42,300	6,280
411.352	LIABILITY INSURANCE	-	-	-
411.354	VEHICLE INSURANCE	-	-	-
411.900	CONT. TO FIRE CO.	184,104	178,624	(5,480)
	<b>TOTAL</b>	<b>233,024</b>	<b>233,024</b>	<b>-</b>

<b>413.100</b>	<b>CODE ENFORCEMENT OFFICER</b>	<b>60,000</b>	<b>60,000</b>	<b>-</b>
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<b>413.310</b>	<b>ENGINEERING SERVICES</b>	<b>72,468</b>	<b>100,000</b>	<b>27,532</b>
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<b>413.313</b>	<b>PERMIT FEES DCED</b>	<b>400</b>	<b>400</b>	<b>-</b>
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<b>414.100</b>	<b>PLANNING &amp; ZONING EXP.</b>	<b>5,000</b>	<b>3,000</b>	<b>(2,000)</b>
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<b>415.000</b>	<b>EMERG. MGT. EXPENSE</b>	<b>3,074</b>	<b>2,000</b>	<b>(1,074)</b>
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<b>415.001</b>	<b>FIRE MARSHALL</b>	<b>2,470</b>	<b>2,470</b>	<b>-</b>
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**BOROUGH OF ROYERSFORD  
BUDGET 2019**

**Appendix A-15-a**

<b>PUBLIC WORKS DEPARTMENT</b>				
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	<b>INC/DEC</b>
430.122	SUPERINTENDENTS SALARY	60,850	62,700	1,850
430.130	EMPLOYEES SALARY	78,000	94,750	16,750
430.135	OVERTIME	7,000	7,000	-
430.156	HEALTH, DENTAL, LIFE INSURANCE	90,500	103,800	13,300
430.161	SOCIAL SECURITY	11,300	12,600	1,300
430.162	UNEMP. COMPENSATION	4,470	2,500	(1,970)
430.163	WORKMENS COMPENSATION	55,000	60,000	5,000
430.191	UNIFORMS & CLEANING	1,500	1,500	-
430.210	OFFICE SUPPLIES	1,000	1,000	-
430.231	GASOLINE	9,500	9,500	-
430.244	OPERATING SUPPLIES	4,500	4,500	-
430.250	VEHICLE EXPENSE	10,000	12,500	2,500
430.251	MAINTENANCE EXPENSE	6,000	6,000	-
430.260	MINOR EQUIP. PURCHASE	6,500	6,500	-
430.313	ENGINEERING EXPENSE	-	-	-
430.321	COMMUNICATION EXPENSE	4,000	4,000	-
430.326	MONTHLY MONITORING FEES	550	550	-
430.352	LIABILITY INSURANCE	12,000	9,200	(2,800)
430.354	VEHICLE INSURANCE	8,000	7,500	(500)
430.361	ELECTRIC	12,500	12,500	-
430.366	WATER	4,000	4,000	-
430.421	TRAINING,SEMINARS	250	250	-
430.439	STREET REPAIRS	10,000	10,000	-
430.451	EQUIPMENT RENTAL	1,000	1,000	-
430.700	CAPITAL ITEMS--PURCHASES	9,000	5,000	(4,000)
430.800	CAPITAL RESERVE	-	-	-
	<b>TOTAL</b>	<b>407,420</b>	<b>438,850</b>	<b>31,430</b>

<b>431.100</b>	<b>SWEEPER EXPENSE</b>	<b>2,000</b>	<b>2,000</b>	-
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<b>432.220</b>	<b>SALT,SNOW REMOVAL SUPP</b>	<b>40,000</b>	<b>40,000</b>	-
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<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	
433.220	PAINT FOR STREETS	3,500	6,000	2,500
433.221	STREET SIGNS	2,000	2,000	-
433.452	TRAFFIC SIGNAL ELECTRICITY	4,000	2,000	(2,000)
433.460	TRAFFIC SIGNAL SUPPLIES & MAINT.	20,000	10,000	(10,000)
	<b>TOTAL</b>	<b>29,500</b>	<b>20,000</b>	<b>(9,500)</b>

<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	
434.010	STREET LIGHTS, ELECTRIC	49,000	46,000	(3,000)
434.100	STREET LIGHTS, SUPPLIES	6,000	6,000	-
434.300	STREET LIGHTS, NEW EQUIPMENT	9,500	9,500	-
	<b>TOTAL</b>	<b>64,500</b>	<b>61,500</b>	<b>(3,000)</b>

<b>436.100</b>	<b>STORM SEWER EXPENSE</b>	<b>10,000</b>	<b>10,000</b>	-
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BOROUGH OF ROYERSFORD  
BUDGET 2019

Appendix A-15-a

<b>438.100</b>	<b>HIGHWAY PATCHING</b>	<b>4,000</b>	<b>4,000</b>	-
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<b>451.100</b>	<b>CULTURE &amp; RECREATION</b>	<b>3,000</b>	<b>3,000</b>	-
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<b>VICTORY PARK:</b>				
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	<b>INC/DEC</b>
452.130	PARK SALARIES	43,300	52,650	9,350
452.135	OVERTIME	0	0	-
452.140	CLERICAL SALARIES	5,400	5,550	150
452.156	HEALTH/DENTAL/LIFE INSURANCE	10,100	10,500	400
452.161	SOCIAL SECURITY	3,750	4,455	705
452.162	UNEMPLOYMENT COMPENSATION	-	-	-
452.163	WORKMENS COMP. INSURANCE	2,000	1,800	(200)
452.231	GASOLINE	300	300	-
452.244	OP. SUPPLIES, TOWELS ETC	3,000	3,000	-
452.247	RECREATION EQUIPMENT	500	500	-
452.251	MAINTENANCE SUPPLIES	10,000	10,000	-
452.320	PROGRAMS/ACTIVITIES EXPENSE	2,500	2,500	-
452.321	COMMUNICATION EXPENSE	1,400	1,400	-
452.352	LIABILITY INSURANCE	4,500	5,000	500
452.361	ELECTRIC	3,900	3,900	-
452.366	WATER	1,700	1,500	(200)
452.700	CAPITAL EXPENSE	7,000	-	(7,000)
	<b>TOTAL</b>	<b>99,350</b>	<b>103,055</b>	<b>3,705</b>

<b>456.100</b>	<b>LIBRARY</b>	<b>5,000</b>	<b>5,000</b>	-
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<b>462.530</b>	<b>GRANT REIMBURSEMENTS</b>	<b>181,125</b>	<b>193,000</b>	11,875
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<b>463.720</b>	<b>REVITALIZATION IMPROVEMENTS</b>	<b>5,000</b>	-	(5,000)
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<b>463.900</b>	<b>REVITALIZATION DEBT REDUCTION</b>	<b>30,300</b>	<b>30,300</b>	-
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<b>483.000</b>	<b>RETIREMENT EXPENSE</b>	<b>126,500</b>	<b>133,500</b>	7,000
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<b>492.750</b>	<b>CAPITAL PROJECTS/RESERVES</b>	<b>25,000</b>	<b>40,280</b>	15,280
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BOROUGH OF ROYERSFORD  
BUDGET 2019

Appendix A-15-a

<b>SUMMARY OF INCOME</b>				
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	<b>INC/DEC</b>
301	PROPERTY TAXES	1,932,480	2,028,508	96,028
310	LOCAL TAX ENABLING ACT	809,500	809,000	(500)
321	AMUSEMENT DEVICES	115,000	115,000	-
322	PERMITS	1,500	1,200	(300)
331	FINES	26,000	26,000	-
341	INTEREST EARNINGS	5,500	10,000	4,500
350	INTERGOVERNMENTAL REVENUES	126,500	133,500	7,000
354	STATE CAPITAL AND OPERATING GRANTS	3,125	3,500	375
355	STATE SHARED REVENUE AND ENTITLEMENTS	2,950	2,950	-
359	PAYMENT IN LIEU OF TAXES	5,400	5,500	100
361	GENERAL GOVERNMENT	5,300	5,300	-
362	REPORTS/PERMITS	44,200	42,000	(2,200)
367	CULTURE--RECREATION	8,600	9,100	500
380	MISCELLANEOUS REVENUE	50,000	50,000	-
399	CASH BALANCE FORWARDED	-	-	-
	<b>TOTALS</b>	<b>3,136,055</b>	<b>3,241,558</b>	<b>105,503</b>

BOROUGH OF ROYERSFORD  
BUDGET 2019

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ACCOUNT #	DESCRIPTION	2018	2019	INC/DEC
301.100	REAL ESTATE TAX	1,668,456	1,764,284	95,828
301.400	DELINQUENT REAL ESTATE TAX	30,000	30,000	-
301.500	FIRE TAX	233,024	233,024	-
301.900	FIRE TAX PREVIOUS YEAR	1,000	1,200	200
310.010	PER CAPITA	15,000	15,000	-
310.020	PER CAPITA PREVIOUS YEAR	4,500	4,000	(500)
310.100	REAL ESTATE TRANSFER	85,000	85,000	-
310.210	EARNED INCOME TAX	650,000	655,000	5,000
310.500	LST	55,000	50,000	(5,000)
321.800	CABLE TV FRANCHISE FEE	115,000	115,000	-
322.800	STREET PERMITS	1,500	1,200	(300)
331.100	COURT FINES	20,000	20,000	-
331.110	TICKETS & PA DIST	6,000	5,000	(1,000)
331.120	ORDINANCE VIOLATIONS	-	1,000	1,000
341.010	INTEREST	5,500	10,000	4,500
350.020	STATE AID PENSION FUND	126,500	133,500	7,000
354.030	SNOW REMOVAL GRANT	3,125	3,500	375
355.010	PUB. REALTY UTILITY TAX	2,300	2,300	-
355.080	ALCOHOLIC BEV. LIC.	650	650	-
359.010	PAYMENT IN LIEU OF TAXES	5,400	5,500	100
361.300	SUB DIVISION FEE	1,000	1,000	-
361.340	ZONING HEARING FEES	4,000	4,000	-
361.750	DEED REGISTRATION	300	300	-
362.110	ACCIDENT REPORT	1,500	1,500	-
362.140	MISC. POLICE REVENUE	7,000	7,000	-
362.410	BUILDING PERMITS	25,000	25,000	-
362.420	ELEC. PERMITS & REG.	3,000	4,000	1,000
362.430	PLUMB. PERMITS & REG.	3,000	3,000	-
362.450	USE & OCCUPANCY PERMITS	300	200	(100)
362.460	APARTMENT HOUSE LICENSE	4,000	1,000	(3,000)
362.470	DCED PERMIT FEE	400	300	(100)
367.410	PARK USER FEES	1,100	1,100	-
367.420	CONT. & DONATIONS	2,000	3,000	1,000
367.500	SPRING-FORD SCHOOL DIST	5,500	5,000	(500)
380.100	MISCELLANEOUS RECEIPTS	50,000	50,000	-
	<b>TOTAL</b>	<b>3,136,055</b>	<b>3,241,558</b>	105,503
399.000	CARRY OVER FROM PREVIOUS YEAR			
	<b>TOTAL W/CARRYOVER</b>	<b>3,136,055</b>	<b>3,241,558</b>	
	SEWER	810,445	865,500	
	SOLID WASTE	401,895	425,455	
	<b>GRAND TOTAL</b>	<b>4,348,395</b>	<b>4,532,513</b>	

BOROUGH OF ROYERSFORD  
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Appendix A-15-a

<b>TRASH FUND INCOME:</b>				
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	<b>INC/DEC</b>
341.010	INTEREST	0	0	-
364.300	REFUSE COLLECTION CHGS.	397,695	421,455	23,760
364.350	RECYCLE GRANT	4,200	4,000	(200)
	FUND BALANCE	-	-	-
	<b>TOTAL</b>	<b>401,895</b>	<b>425,455</b>	<b>23,560</b>
<b>TRASH FUND EXPENDITURES:</b>				
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	<b>INC/DEC</b>
427.100	SALARIES	36,750	41,650	4,900
427.140	CLERICAL	16,100	16,575	475
427.141	ADMINISTRATION	16,115	16,600	485
427.156	HEALTH, DENTAL, LIFE INSURANCE	20,000	21,000	1,000
427.161	SOCIAL SECURITY	5,300	5,800	500
427.163	WORKMEN'S COMP.	20,000	20,000	-
427.211	BILLING EXPENSE	3,000	3,000	-
427.231	GASOLINE	-	-	-
427.244	OPERATING EXPENSE	-	-	-
427.250	VEHICLE EXPENSE	-	-	-
427.260	MINOR EQUIP. EXPENSE	1,000	1,000	-
427.352	LIABILITY INSURANCE	10,000	11,400	1,400
427.354	VEHICLE INSURANCE	-	-	-
427.450	SOLID WASTE DISPOSAL EXPENSE	76,000	74,000	(2,000)
427.451	SOLID WASTE COLLECTION EXPENSE	152,630	169,430	16,800
427.455	RECYCLING FEES	45,000	45,000	-
427.700	CAPITAL PURCHASE	0	0	-
427.800	CAPITAL RESERVE	0	0	-
427.900	DEBT REDUCTION	0	0	-
	<b>TOTAL</b>	<b>401,895</b>	<b>425,455</b>	<b>23,560</b>

BOROUGH OF ROYERSFORD  
BUDGET 2019

Appendix A-15-a

<b>SEWER FUND INCOME:</b>				
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	<b>INC/DEC</b>
364.110	SEWER CONNECTION FEES	17,200	17,200	-
364.120	SEWER USE CHARGE	787,745	841,800	54,055
364.310	SEWER CERTIFICATION	3,000	3,000	-
364.341	INTEREST WWTP SINKING FUND	1,500	2,500	1,000
364.400	MISC SEWAGE CHARGES	1,000	1,000	-
	<b>TOTAL</b>	<b>810,445</b>	<b>865,500</b>	55,055

**BOROUGH OF ROYERSFORD  
BUDGET 2019**

**Appendix A-15-a**

<b>SEWER FUND EXPENDITURES:</b>				
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2018</b>	<b>2019</b>	<b>INC/DEC</b>
429.122	SUPERINTENDENT SALARY	72,600	74,750	2,150
429.130	ASS'T SUPT. SALARY	52,500	50,400	(2,100)
429.131	PART TIME HELP(PUBLIC WKS)	26,000	31,600	5,600
429.140	CLERICAL SALARY	37,500	38,650	1,150
429.141	ADMINISTRATIVE EXP.	21,490	22,135	645
429.156	HEALTH, DENTAL, LIFE INSURANCE	61,800	65,000	3,200
429.161	SOCIAL SECURITY	16,100	16,650	550
429.162	UNEMP. COMP. INS.	1,490	1,000	(490)
429.163	WORKMEN'S COMP INS.	15,500	16,000	500
429.191	CLOTHING & BOOTS	600	600	-
429.210	OFFICE SUPPLIES	400	400	-
429.211	BILLING EXPENSE	4,500	4,500	-
429.222	CHEMICALS	35,000	37,000	2,000
429.225	LAB SUPPLIES	14,000	15,000	1,000
429.230	FUEL OIL	10,000	-	(10,000)
429.231	GASOLINE	2,000	2,500	500
429.244	OPERATING SUPPLIES	3,700	3,700	-
429.250	VEHICLE MAINTENANCE	750	750	-
429.251	MAINTENANCE (PLANT)	30,000	30,000	-
429.252	COLLECTION SYS. MAINT.	30,000	25,000	(5,000)
429.260	MINOR EQUIP. PURCHASES	1,500	1,500	-
429.313	ENGINEERING EXPENSE	30,000	30,000	-
429.321	COMMUNICATION EXPENSE	3,500	4,000	500
429.326	MONTHLY MONITORING FEES	1,000	1,000	-
429.352	LIABILITY INSURANCE	17,500	14,800	(2,700)
429.353	FLOOD INSURANCE	6,750	8,100	1,350
429.354	VEHICLE INSURANCE	5,000	1,800	(3,200)
429.361	ELECTRIC	32,000	30,000	(2,000)
429.366	WATER	6,500	6,500	-
429.404	LEGAL EXPENSE	2,500	2,500	-
429.421	DUES, TRAINING, SEMINARS	1,500	1,500	-
429.450	SLUDGE REMOVAL EXPENSE	35,000	45,000	10,000
429.451	EQUIPMENT RENTAL	300	300	-
429.700	MAJOR EQUIPMENT PURCHASES	21,500	21,500	-
429.800	CAPITAL RESERVE	149,965	26,365	(123,600)
429.900	DEBT REDUCTION	-	-	-
429.910	DEBT REDUCTION (Bond)	60,000	235,000	175,000
	<b>TOTAL</b>	<b>810,445</b>	<b>865,500</b>	<b>55,055</b>

BOROUGH OF ROYERSFORD  
BUDGET 2020

Appendix A-15-a

<b>SUMMARY OF INCOME</b>		
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
301	PROPERTY TAXES	1,937,677
310	LOCAL TAX ENABLING ACT	832,600
321	AMUSEMENT DEVICES	115,000
322	PERMITS	2,000
331	FINES	23,000
341	INTEREST EARNINGS	20,000
350	INTERGOVERNMENTAL REVENUES	151,000
354	STATE CAPITAL AND OPERATING GRANTS	1,403
355	STATE SHARED REVENUE AND ENTITLEMENTS	2,950
359	PAYMENT IN LIEU OF TAXES	5,500
361	GENERAL GOVERNMENT	5,300
362	REPORTS/PERMITS	49,500
367	CULTURE--RECREATION	11,100
380	MISCELLANEOUS REVENUE	50,000
399	CASH BALANCE FORWARDED	-
	<b>TOTALS</b>	<b>3,207,030</b>

**BOROUGH OF ROYERSFORD  
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**Appendix A-15-a**

<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
301.100	REAL ESTATE TAX	1,672,752
301.400	DELINQUENT REAL ESTATE TAX	30,000
301.500	FIRE TAX	233,625
301.900	FIRE TAX PREVIOUS YEAR	1,300
310.010	PER CAPITA	14,000
310.020	PER CAPITA PREVIOUS YEAR	4,200
310.100	REAL ESTATE TRANSFER	106,400
310.210	EARNED INCOME TAX	655,000
310.500	LST	50,000
310.520	LST PRIOR YEAR	3,000
321.800	CABLE TV FRANCHISE FEE	115,000
322.800	STREET PERMITS	2,000
331.100	COURT FINES	15,000
331.110	TICKETS & PA DIST	7,000
331.120	ORDINANCE VIOLATIONS	1,000
341.010	INTEREST	20,000
350.020	STATE AID PENSION FUND	151,000
354.030	SNOW REMOVAL GRANT	1,403
355.010	PUB. REALTY UTILITY TAX	2,100
355.080	ALCOHOLIC BEV. LIC.	850
359.010	PAYMENT IN LIEU OF TAXES	5,500
361.300	SUB DIVISION FEE	1,000
361.340	ZONING HEARING FEES	4,000
361.750	DEED REGISTRATION	300
362.110	ACCIDENT REPORT	1,500
362.140	MISC. POLICE REVENUE	8,500
362.410	BUILDING PERMITS	25,000
362.420	ELEC. PERMITS & REG.	7,000
362.430	PLUMB. PERMITS & REG.	4,000
362.450	USE & OCCUPANCY PERMITS	200
362.460	APARTMENT HOUSE LICENSE	3,000
362.470	DCED PERMIT FEE	300
367.410	PARK USER FEES	1,100
367.420	CONT. & DONATIONS	5,000
367.500	SPRING-FORD SCHOOL DIST	5,000
380.100	MISCELLANEOUS RECEIPTS	50,000
	<b>TOTAL</b>	<b>3,207,030</b>
399.000	CARRY OVER FROM PREVIOUS YEAR	
	<b>TOTAL W/CARRYOVER</b>	<b>3,207,030</b>
	SEWER	856,900
	SOLID WASTE	425,455
	<b>GRAND TOTAL</b>	<b>4,489,385</b>

BOROUGH OF ROYERSFORD  
BUDGET 2020

Appendix A-15-a

<b>EXPENDITURES:</b>		
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
400	GOVERNMENT	323,605
403	TAX COLLECTOR	22,900
404	LEGAL	57,500
409	BOROUGH HALL	32,350
410	POLICE	1,329,964
411	FIRE	233,625
413	CODE ENFORCE/ENGINEER	302,900
414	PLANNING	3,000
415	EMERGENCY MANAGEMENT	7,820
430	PUBLIC WORKS	391,666
431	SWEEPER	2,000
432	SALT	40,000
433	STREET & TRAFFIC SIGN.	26,508
434	STREET LIGHTS	61,500
436	STORM SEWER	10,000
438	HIGHWAY PATCH	4,000
451	CULTURE	3,000
452	VICTORY PARK	89,952
456	LIBRARY	5,000
462	GRANTS	62,515
463	REVITALIZATION	30,300
483	RETIREMENT	151,000
492	CAPITAL PROJECTS	15,925
	<b>TOTALS</b>	<b>3,207,030</b>



**BOROUGH OF ROYERSFORD  
BUDGET 2020**

**Appendix A-15-a**

<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
400.100	COUNCIL COMPENSATION	6,300
400.120	MAYOR COMPENSATION	1,800
400.121	MANAGER'S SALARY	74,085
400.140	CLERICAL SALARIES	61,650
400.156	HEALTH, DENTAL, LIFE INSURANCE	71,050
400.161	SOCIAL SECURITY	12,550
400.162	UNEMP. COMP. INS.	855
400.163	WORKMEN'S COMPENSATION	100
400.210	OFFICE SUPPLIES	3,500
400.211	POSTAGE	1,200
400.214	POSTAGE METER RENTAL	1,500
400.215	COMPUTER/COPIER SUPPLIES & SERVI	10,000
400.217	BANK FEES/PAYROLL SERVICE	6,300
400.311	AUDITING SERVICES	18,000
400.321	COMMUNICATION EXPENSE	5,000
400.341	ADVERTISING @NOT LEGAL	2,000
400.342	PRINTING	3,000
400.352	PROP. & LIAB. INSURANCE	8,000
400.353	TREAS. & BORO OFF. BONDS	850
400.370	OFFICE EQUIPMENT	5,000
400.420	SUBSCRIP & MEMBERSHIP	8,000
400.421	TRAINING & SEMINARS	2,000
400.422	BOROUGH RECOGNITION	2,500
400.700	CAPITAL PURCHASE	5,000
400.800	CAPITAL RESERVE	13,365
	<b>TOTAL</b>	<b>323,605</b>

<b>TAX COLLECTOR &amp; SUPPLIES:</b>		
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
403.100	COMM. TAX COLLECTOR	20,000
403.110	COMMISSION E.I.T./L.S.T.	-
403.200	TAX COLLECTOR SUPPLIES	2,000
403.353	TAX COLLECTOR'S BOND	900
	<b>TOTAL</b>	<b>22,900</b>

<b>LEGAL:</b>		
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
404.100	SOLICITOR'S FEE	55,000
404.341	LEGAL ADVERTISING	2,500
	<b>TOTAL</b>	<b>57,500</b>

**Royersford Police  
2020 Budget**

**Appendix A-15-a**

Account #	Category	2020
410.122	Chief's Salary	\$104,335.00
410.123	Chief's Longevity/Bonus	\$0.00
410.126	Corporal Salary	\$94,438.00
410.128	Corporal Longevity	\$2,250.00
410.129	Corporal Overtime	\$0.00
410.130	Patrolman's Combined Salary	\$434,884.00
410.131	Part-Time Patrolman Salary	\$85,000.00
410.132	Overtime	\$45,000.00
410.133	Court Time	\$7,000.00
410.134	Longevity (patrolman)	\$3,000.00
410.140	Clerical Salary	\$47,059.00
410.141	Part-Time Clerical & O.T.	\$500.00
410.142	Crossing Guard Salary	\$13,000.00
410.143	Crossing Guard Uniform Replacement	\$200.00
410.156	Medical, Dental, Life, Disability Insurance	\$258,500.00
410.161	Social Security / FICA	\$21,600.00
410.162	Unemployment Compensation	\$5,500.00
410.163	Workmens Compensation	\$70,000.00
410.210	Office Supplies	\$2,000.00
410.211	Civil Service	\$500.00
410.212	Printed Forms	\$750.00
410.213	Postage / Mailing	\$850.00
410.214	Computer Expense	\$7,710.00
410.215	Vascar Calibration / Speedometer Testing / Etc.	\$470.00
410.231	Gasoline	\$13,500.00
410.238	Uniform Replacement (Part-Time Officers)	\$3,500.00
410.239	Uniform Allowance	\$7,400.00
410.242	Supplies	\$4,700.00
410.244	Police Incidentals	\$1,600.00
410.246	Part-time Hiring Expenses	\$1,500.00
410.250	Vehicle Expense	\$7,000.00
410.251	Maintenance	\$5,000.00
410.254	Travel Expense	\$1,000.00
410.260	Minor Equipment	\$5,544.00
410.321	Communications	\$19,000.00
410.341	Advertising	\$1,000.00
410.352	Liability Insurance	\$16,400.00
410.354	Vehicle Insurance	\$10,500.00
410.361	Electric	\$3,000.00
410.366	Water	\$250.00
410.370	Equipment Maintenance	\$1,000.00
410.373	Office Repairs/Improvements	\$6,000.00
410.404	Legal Expense	\$4,000.00
410.420	Subscriptions / Periodicals / Memberships	\$5,124.00
410.421	Training & Seminars (Tuition)	\$4,000.00
410.450	Animal Control	\$3,200.00
410.500	Contributions, Grants & Subsidies	\$0.00
410.550	Public Relations	\$1,200.00
410.700	Capital Purchase	\$0.00
410.800	Capital Reserve	\$0.00
410.900	Debt Reduction - Vehicle Loan Payment	\$0.00
	<b>TOTAL:</b>	<b>\$1,329,964.00</b>

**BOROUGH OF ROYERSFORD  
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**Appendix A-15-a**

<b>BOROUGH HALL OPERATIONS:</b>		
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
409.226	SUPPLIES	1,000
409.251	MAINTENANCE	5,000
409.300	OTHER SERVICES & CHARGES	6,000
409.352	INSURANCE - PROPERTY	12,100
409.361	ELECTRIC	3,000
409.366	WATER	250
409.370	REPAIRS/IMPROVEMENTS	5,000
	<b>TOTAL</b>	<b>32,350</b>

<b>FIRE PROTECTION:</b>		
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
411.140	HYDRANT RENTAL	12,100
411.163	WORKMEN'S COMP-FIRE	32,000
411.352	LIABILITY INSURANCE	-
411.354	VEHICLE INSURANCE	-
411.900	CONT. TO FIRE CO.	189,525
	<b>TOTAL</b>	<b>233,625</b>

<b>413.100</b>	<b>CODE ENFORCEMENT OFFICER</b>	<b>60,000</b>
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<b>413.310</b>	<b>ENGINEERING SERVICES</b>	<b>242,500</b>
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<b>413.313</b>	<b>PERMIT FEES DCED</b>	<b>400</b>
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<b>414.100</b>	<b>PLANNING &amp; ZONING EXP.</b>	<b>3,000</b>
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<b>415.000</b>	<b>EMERG. MGT. EXPENSE</b>	<b>4,350</b>
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<b>415.001</b>	<b>FIRE MARSHALL</b>	<b>3,470</b>
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**BOROUGH OF ROYERSFORD  
BUDGET 2020**

**Appendix A-15-a**

<b>PUBLIC WORKS DEPARTMENT</b>		
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
430.122	SUPERINTENDENTS SALARY	64,551
430.130	EMPLOYEES SALARY	70,275
430.135	OVERTIME	8,000
430.156	HEALTH, DENTAL, LIFE INSURANCE	82,500
430.161	SOCIAL SECURITY	11,000
430.162	UNEMP. COMPENSATION	1,140
430.163	WORKMENS COMPENSATION	60,000
430.191	UNIFORMS & CLEANING	1,500
430.210	OFFICE SUPPLIES	1,000
430.231	GASOLINE	9,000
430.244	OPERATING SUPPLIES	4,500
430.250	VEHICLE EXPENSE	12,500
430.251	MAINTENANCE EXPENSE	6,000
430.260	MINOR EQUIP. PURCHASE	6,500
430.313	ENGINEERING EXPENSE	-
430.321	COMMUNICATION EXPENSE	4,000
430.326	MONTHLY MONITORING FEES	550
430.352	LIABILITY INSURANCE	9,400
430.354	VEHICLE INSURANCE	6,500
430.361	ELECTRIC	12,500
430.366	WATER	4,000
430.421	TRAINING, SEMINARS	250
430.439	STREET REPAIRS	10,000
430.451	EQUIPMENT RENTAL	1,000
430.700	CAPITAL ITEMS--PURCHASES	5,000
430.800	CAPITAL RESERVE	
	<b>TOTAL</b>	<b>391,666</b>

<b>431.100</b>	<b>SWEEPER EXPENSE</b>	<b>2,000</b>
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<b>432.220</b>	<b>SALT, SNOW REMOVAL SUPP</b>	<b>40,000</b>
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<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
433.220	PAINT FOR STREETS	7,500
433.221	STREET SIGNS	3,540
433.452	TRAFFIC SIGNAL ELECTRICITY	2,000
433.460	TRAFFIC SIGNAL SUPPLIES & MAINT.	13,468
	<b>TOTAL</b>	<b>26,508</b>

<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
434.010	STREET LIGHTS, ELECTRIC	46,000
434.100	STREET LIGHTS, SUPPLIES	6,000
434.300	STREET LIGHTS, NEW EQUIPMENT	9,500
	<b>TOTAL</b>	<b>61,500</b>

<b>436.100</b>	<b>STORM SEWER EXPENSE</b>	<b>10,000</b>
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<b>438.100</b>	<b>HIGHWAY PATCHING</b>	<b>4,000</b>
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**BOROUGH OF ROYERSFORD  
BUDGET 2020**

**Appendix A-15-a**

<b>451.100</b>	<b>CULTURE &amp; RECREATION</b>	<b>3,000</b>
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<b>VICTORY PARK:</b>		
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
452.130	PARK SALARIES	39,042
452.135	OVERTIME	0
452.140	CLERICAL SALARIES	6,850
452.156	HEALTH/DENTAL/LIFE INSURANCE	8,400
452.161	SOCIAL SECURITY	3,550
452.162	UNEMPLOYMENT COMPENSATION	-
452.163	WORKMENS COMP. INSURANCE	1,510
452.231	GASOLINE	300
452.244	OP. SUPPLIES, TOWELS ETC	3,000
452.247	RECREATION EQUIPMENT	500
452.251	MAINTENANCE SUPPLIES	10,000
452.320	PROGRAMS/ACTIVITIES EXPENSE	5,000
452.321	COMMUNICATION EXPENSE	1,400
452.352	LIABILITY INSURANCE	5,000
452.361	ELECTRIC	3,900
452.366	WATER	1,500
452.700	CAPITAL EXPENSE	-
	<b>TOTAL</b>	<b>89,952</b>

<b>456.100</b>	<b>LIBRARY</b>	<b>5,000</b>
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<b>462.530</b>	<b>GRANT REIMBURSEMENTS</b>	<b>62,515</b>
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<b>463.720</b>	<b>REVITALIZATION IMPROVEMENTS</b>	<b>-</b>
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<b>463.900</b>	<b>REVITALIZATION DEBT REDUCTION</b>	<b>30,300</b>
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<b>483.000</b>	<b>RETIREMENT EXPENSE</b>	<b>151,000</b>
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<b>492.750</b>	<b>CAPITAL PROJECTS/RESERVES</b>	<b>15,925</b>
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BOROUGH OF ROYERSFORD  
BUDGET 2020

Appendix A-15-a

<b>TRASH FUND INCOME:</b>		
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
364.300	REFUSE COLLECTION CHGS.	421,455
364.350	RECYCLE GRANT	4,000
	FUND BALANCE	
	<b>TOTAL</b>	<b>425,455</b>
<b>TRASH FUND EXPENDITURES:</b>		
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
427.100	SALARIES	34,817
427.140	CLERICAL	20,550
427.141	ADMINISTRATION	17,097
427.156	HEALTH, DENTAL, LIFE INSURANCE	16,800
427.161	SOCIAL SECURITY	5,550
427.163	WORKMEN'S COMP.	10,240
427.211	BILLING EXPENSE	2,500
427.260	MINOR EQUIP.EXPENSE	1,000
427.352	LIABILITY INSURANCE	11,400
427.450	SOLID WASTE DISPOSAL EXPENSE	78,000
427.451	SOLID WASTE COLLECTION EXPENSE	148,300
427.455	RECYCLING FEES	60,825
427.700	CAPITAL PURCHASE	
427.800	CAPITAL RESERVE	18,376
427.900	DEBT REDUCTION	
	<b>TOTAL</b>	<b>425,455</b>

BOROUGH OF ROYERSFORD  
BUDGET 2020

Appendix A-15-a

<b>SEWER FUND INCOME:</b>		
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
364.110	SEWER CONNECTION FEES	8,600
364.120	SEWER USE CHARGE	841,800
364.310	SEWER CERTIFICATION	3,000
364.341	INTEREST WWTP SINKING FUND	2,500
364.400	MISC SEWAGE CHARGES	1,000
	<b>TOTAL</b>	<b>856,900</b>

BOROUGH OF ROYERSFORD  
BUDGET 2020

Appendix A-15-a

<b>SEWER FUND EXPENDITURES:</b>		
<b>ACCOUNT #</b>	<b>DESCRIPTION</b>	<b>2020</b>
429.122	SUPERINTENDENT SALARY	76,900
429.130	ASS'T SUPT. SALARY	51,740
429.131	PART TIME HELP(PUBLIC WKS)	23,425
429.140	CLERICAL SALARY	47,950
429.141	ADMINISTRATIVE EXP.	22,796
429.156	HEALTH, DENTAL, LIFE INSURANCE	67,500
429.161	SOCIAL SECURITY	17,100
429.162	UNEMP. COMP. INS.	570
429.163	WORKMEN'S COMP INS.	14,000
429.191	CLOTHING & BOOTS	600
429.210	OFFICE SUPPLIES	400
429.211	BILLING EXPENSE	4,000
429.222	CHEMICALS	37,000
429.225	LAB SUPPLIES	15,000
429.231	GASOLINE	2,500
429.244	OPERATING SUPPLIES	3,700
429.250	VEHICLE MAINTENANCE	750
429.251	MAINTENANCE (PLANT)	30,000
429.252	COLLECTION SYS. MAINT.	25,000
429.260	MINOR EQUIP. PURCHASES	1,500
429.313	ENGINEERING EXPENSE	31,400
429.321	COMMUNICATION EXPENSE	4,200
429.326	MONTHLY MONITORING FEES	1,000
429.352	LIABILITY INSURANCE	15,000
429.353	FLOOD INSURANCE	9,900
429.354	VEHICLE INSURANCE	2,700
429.361	ELECTRIC	27,000
429.366	WATER	8,000
429.404	LEGAL EXPENSE	20,000
429.421	DUES, TRAINING, SEMINARS	1,500
429.450	SLUDGE REMOVAL EXPENSE	45,000
429.451	EQUIPMENT RENTAL	300
429.700	MAJOR EQUIPMENT PURCHASE	21,469
429.800	CAPITAL RESERVE	0
429.900	DEBT REDUCTION	-
429.910	DEBT REDUCTION (Bond)	227,000
	<b>TOTAL</b>	<b>856,900</b>



## 7. FUTURE CAPITAL PROJECTS

The following report was created in 2016. Of the projects identified in the report, Item 1 - Green Street Pump Station upgrades and Item 2 – Primary Clarifier will be completed prior to the Asset Purchase Closure. Those values are included in the List of Assets and Costs.



**BOROUGH OF ROYERSFORD  
MONTGOMERY COUNTY, PENNSYLVANIA**

**ANALYSIS OF PROJECTS  
FOR  
PA SMALL WATER AND SEWER GRANT**

**Prepared For:  
Borough of Royersford  
300 Main Street  
Royersford, PA 19468**

**AUGUST 30, 2016**

**FILE NO. 16-01073T**

**Prepared By:  
Gilmore & Associates, Inc.  
Engineers ♦ Land Surveyors ♦ Planners ♦ GIS Consultants  
65 E. Butler Avenue, Suite 100  
New Britain, PA 18901  
215-345-4330**



**GILMORE & ASSOCIATES, INC.**  
ENGINEERING & CONSULTING SERVICES



1918 TO 2008, CELEBRATING NINETY YEARS OF ENGINEERING EXCELLENCE

## INTRODUCTION

The purpose of this report is to review various projects listed in the Borough's Capital Plan as presented in the March 19, 2015 report entitled "Wastewater Treatment Facilities Evaluation" a prepared by Frank A. Ciuffo, P.E. of Pennoni Associates, Inc., to determine their applicability for the PA Small Water and Sewer Grant program offered through PA Department of Community and Economic Development.

The following projects were considered as part of this evaluation, after meeting with Borough personnel to better understand what projects should be given priority, which ones may have impact to the environment / safety and which ones fit the grant project type:

1. Green Street Pump Station – Relocate Controls and Replace Ladder
2. Primary Clarifiers-
  - a. Complete Structural Repairs
  - b. Replace Mechanical Equipment
3. Anaerobic Digester
  - a. Divert all flows to sludge holding tanks and abandon digester
  - b. Upgrade digester for increased capacity
4. Sludge Holding Tanks : Convert to Aerobic Digestion

The PA Small Water and Sewer Grant program has \$22,000,000 available for water and sewer projects with a total project cost between \$30,000 to \$500,000. Eligible projects involve the construction, improvement, expansion, repair, or rehabilitation of a water supply or sanitary sewer system which is owned and maintained by an eligible applicant.

Funds may be used for the following project costs:

1. Construction, improvement, expansion, repair, or rehabilitation of a water supply system or sewer system.
2. Installation of security measures.
3. Acquisition of land, rights-of-way and easements necessary to construct and eligible project.
4. Design costs not to exceed 10% of the grant amount.
5. Inspection costs related to the project.
6. Permit Fees.
7. Costs to secure appropriate bonds and insurance.
8. Administrative costs of the applicant that are necessary to administer the grant. Administrative costs will include advertising and, legal costs as well as documented staff expenses. Administrative cost shall not exceed 2% of the grant.

Ineligible costs include but are not limited to fees for securing other financing, interest on borrowed funds, and tap in fees.

An eligible applicant shall provide matching funds of not less than 15% of the total eligible project cost.

The application will be reviewed and evaluated to determine eligibility and competitiveness of the project using the following criteria:

1. Project readiness.
2. Project is consistent with all local, state and regional comprehensive, regional resource management or economic development plans.
3. The cost-effectiveness of the proposed project when compared to other alternatives.

4. Whether the construction or repair of a water or sewer project will enable customers of the system or regional system to be more efficiently served.
5. Whether the project serves existing populations or whether the project is intended to serve a new development.
6. Whether the project will result in a substantiated positive economic development impact as evidenced by job creation and private investment.
7. The ability of the applicant to secure funding for the project.
8. The proactive implementation of practices to promote sustainability of the system such as asset management, water conservation, energy efficiency, and the use of nonstructural alternatives to minimize the amount of storm water that infiltrates into a system.

## **1. GREEN STREET PUMP STATION**

The pump station has been evaluated and a number of safety issues are of concern including ladder access to the dry well, the ladder itself, ventilation, and the electrical rating of controls in the dry well. The dry well is classified as a confined space and is accessed daily, by Borough staff climbing down the ladder to inspect and record information about the station. Pennoni and Gilmore & Associates, Inc. have both reviewed the ladder safety and come to the same conclusion, that the ladder should be replaced for OSHA safety concerns. Other areas of known concern are the controls, electrical equipment and ventilation in the confined space dry well. Our recommendations for the pump station repairs are:

- Replace ladder rungs, hatch cover and opening to meet current OSHA regulations for size, spacing, clearances, slide-off protection, design loadings and other published requirements.  
Estimated Cost: \$8,000
- Relocate pump controls to the surface  
Estimated Cost: \$55,000
- Upgrade remaining electrical equipment in wetwell to meet Class 1, Division 2 area ratings  
Estimated Cost: \$10,000
- Upgrade ventilation system.  
Estimated Cost: \$7,000

Total Estimated Construction Cost:	\$80,000
Design Costs (10%)	\$ 8,000
Construction Administration & Observation (8%)	\$ 6,400
Administrative (2%)	\$ 1,600
<b>Total Project Cost</b>	<b>\$96,000</b>
Grant Match (15%)	\$14,400
Grant Request	\$81,600

## **2. PRIMARY CLARIFIER**

The three (3) primary clarifiers have been evaluated and a number of safety and operational issues have been determined. The main issues are that the concrete walkways and railing has deteriorated significantly. Broken pieces of concrete have fallen into the clarifiers, leaving rebar exposed on the walkways above the tanks and corroding. These pieces of broken concrete could cause the mechanicals to break. It is also our understanding that the two older primary settling tanks collection mechanisms are seeing wear on the chains and the wall stub shafts. One clarifier has wall stub shafts with no grease joints. Additionally, at times, the scum pipe for settling tank #1 will flood causing clarified water to return to the head of the plant. Our recommendations for the primary clarifier repairs are:

## A. Repair concrete on walkways above tanks, replace railings, and evaluate tanks:

Estimated Cost: \$130,000

Total Estimated Construction Cost:	\$130,000
Design Costs (10%)	\$ 13,000
Construction Administration & Observation (8%)	\$ 10,400
Administrative (2%)	\$ 2,600
<b>Total Project Cost</b>	<b>\$156,000</b>
Grant Match (15%)	\$ 23,400
Grant Request	\$132,600

## B. Replacement of clarifier drive and sprocket, chain, idler sprockets, wall bearings, flights, scum troughs and effluent weirs

Estimated Mechanical Equipment Replacement Cost: \$410,000

Concrete repairs from above Estimated Concrete Repair Cost: \$130,000

Total Estimated Construction Cost:	\$540,000
Engineering Costs (10%)	\$ 54,000
Construction Administration & Observation (8%)	\$ 43,200
Administrative (2%)	\$ 10,800
<b>Total Project Cost</b>	<b>\$648,000</b>

Replacing the internal mechanicals cannot be considered as a project for the grant application since the total cost is greater than the \$500,000.

**3. ANAEROBIC DIGESTER**

The anaerobic digester has approximately 35,000 gallons of capacity with an approximate sludge holding time of 3 to 4 days. The digester is undersized as its capacity is less than the recommended PA DEP 15 day treatment capacity time. The projects considered for the grant application, include the addition of anaerobic digester capacity or abandoning the digester and diverting all flow from the digester to the existing sludge holding tanks. Based on a preliminary review and the Pennoni Evaluation, our recommended options for the anaerobic digester is:

## A. Abandon digester and divert sludge to the sludge holding tanks

Estimated Cost: \$175,000

Total Estimated Construction Cost:	\$175,000
Design Costs (10%)	\$ 17,500
Construction Administration & Observation (8%)	\$ 14,000
Administrative (2%)	\$ 3,500
<b>Total Project Cost</b>	<b>\$210,000</b>
Grant Match (15%)	\$ 31,500
Grant Request	\$178,500

- B. Increase the capacity anaerobic digester capacity through the addition of another anaerobic digester, cleaning, installing access stairs handrail, gas detection and alarming system, digester cover pressure relief valve, flare flame arrestor, pilot gas line and flame check arrestor, monitor gas pipe wall thickness, upgrade the digester room to explosion proof and relocate the hot water boiler outside the digester room.

The total work, including all necessary upgrades on the existing digester is anticipated to exceed \$500,000, not including design, construction administration and observation, administrative and permitting. In order to determine if upgrading the digesters is an option to pursue in the future, it is suggested a sludge treatment and disposal study be performed.

#### **4. SLUDGE HOLDING TANKS CONVERSION TO AEROBIC DIGESTERS**

The sludge holding tanks (Previously converted Imhoff tanks that were used for primary treatment) offer approximately 300,000 gallons in sludge storage capacity. In order to improve sludge breakdown and settling in the tanks, the holding tanks could be modified into aerobic digesters with the addition of aeration diffusers. The aerobic digesters would allow for additional solids reduction and potential sludge disposal cost reduction. Our recommended is to perform a sludge treatment and disposal study to identify the most efficient long term sludge disposal option for the Borough. The project cost for aerobic digestion is expected to exceed \$500,000 thus is not eligible for this grant.

#### **CONCLUSION**

Upon review of the information presented above, it is recommended that the Borough pursue a grant for the Green Street Pump Station work or making structural concrete repairs to the primary clarifier. Both of these projects are good candidates for the grant application since they can be designed/bid in a short period of time and if/when a grant is awarded can wait until then for bidding and construction. Should Royersford receive the full 85% of the grant request, the 15% grant match requirements are similar (\$14,400 for Pump Station or \$23,400 for primary clarifier) for the Borough's contribution.



**EVALUATION OF PROJECTS**

Project Name: Small Water and Sewer Grant Application  
 Client: Borough of Royersford

Project Number: 16-01073T  
 Date: August 30, 2016

	GREEN STREET PUMP	PRIMARY CLARIFIERS		ANAEROBIC DIGESTER		SLUDGE HOLDING TANKS
	STATION	Structural Repairs	Mechanical Repl. (Incl. Structural Repairs)	Divert to Sludge Holding Tanks	Upgrade Digester	CONVERSION
1 Project Readiness	Minimal Design	Some Design/cleaning	Minimal Design	Significant Design	Significant Design	Significant Design
2 Project consistent with local, state plans	Yes	Yes	Yes	Yes	Yes	Yes
3 Cost-effectiveness to alternatives	Yes	Yes	Yes	Will evaluate	Will evaluate	Will evaluate
4 Customers efficiently served	Yes	Yes	Yes	Yes	Yes	Yes
5 Existing population or new development	Existing	Existing	Existing	Existing	Existing	Existing
6 Job creation	Short-term construction	Short-term construction	Short-term construction	Short-term construction	Short-term construction	Short-term construction
7 Funding by applicant	Applicant	Applicant	Applicant	Applicant	Applicant	Applicant
8 Sustainability of project/affects	Yes	Yes	Yes	Yes	Yes	Yes
9 Permitting	No	No	No	Yes	Yes	Yes

# Appendix A-15-a



**PROJECT COSTS**

Project Name: Small Water and Sewer Grant Application  
Client: Borough of Royersford

Project Number: 16-01073T  
Date: August 30, 2016

	<b>GREEN STREET PUMP STATION</b>	<b>PRIMARY CLARIFIERS</b>		<b>ANAEROBIC DIGESTER</b>		<b>SLUDGE HOLDING TANKS</b>
		<b>Structural Repairs</b>	<b>Mechanical Repl. (Incl. Structural Repairs)</b>	<b>Divert to Sludge Holding Tanks</b>	<b>Upgrade Digester</b>	
1 Construction	\$80,000	\$130,000	\$540,000	\$175,000	\$500,000 +	\$500,000 +
2 Design (10%)	\$8,000	\$13,000	\$54,000	\$17,500		
3 Construction Administration & Observation (8%)	\$6,400	\$10,400	\$43,200	\$14,000		
4 Administrative (2%)	\$1,600	\$2,600	\$10,800	\$3,500		
5 Total Cost	\$96,000	\$156,000	\$648,000	\$210,000		
6 Grant Match (15%)	\$14,400	\$23,400	N/A	\$31,500	N/A	N/A
7 Grant Request	\$81,600	\$132,600	N/A	\$178,500	N/A	N/A



## 8. LIST OF ASSETS AND COSTS

# Appendix A-15-a

## ROYERSFORD WASTEWATER SYSTEM SUMMARY OF ANALYSIS OF ORIGINAL COST OF WASTEWATER SYSTEM

<u>ACCOUNT</u>	<u>DESCRIPTION</u>	<u>ORIGINAL COST (\$)</u>
353.20	LAND AND LAND RIGHTS - COLLECTION	\$ 13
353.30	LAND AND LAND RIGHTS - PUMPING	\$ 39
353.40	LAND AND LAND RIGHTS - TREATMENT	\$ 3,000
354.30	STRUCTURES AND IMPROVEMENTS - PUMPING	\$ 249,437
354.40	STRUCTURES AND IMPROVEMENTS - TREATMENT PLANT	\$ 313,245
355.30	POWER GENERATION - PUMPING	\$ 67,239
355.40	POWER GENERATION - TREATMENT AND DISPOSAL PLANT	\$ 303,849
360.20	COLLECTION SEWERS - FORCE - MAINS	\$ 31,522
361.21	COLLECTION SEWERS - GRAVITY - MAINS	\$ 320,640
361.22	COLLECTION SEWERS -GRAVITY MAINS - RELINING	\$ 742,945
361.23	COLLECTION SEWERS - GRAVITY - MANHOLES	\$ 42,549
363.20	SERVICE TO CUSTOMERS	\$ 32,180
364.30	FLOW MEASURING DEVICES - PUMPING	\$ 7,997
364.40	FLOW MEASURING DEVICES - WWTP	\$ 9,930
371.40	PUMPING EQUIPMENT - TREATMENT AND DISPOSAL PLANT	\$ 175,929
380.40	TREATMENT AND DISPOSAL EQUIPMENT	\$ 5,351,760
390.70	EQUIPMENT - GENERAL PLANT	\$ 7,325
396.70	COMMUNICATION EQUIPMENT - GENERAL PLANT	\$ 5,275
	<b>SYSTEM TOTAL</b>	<b>\$ 7,664,874</b>

# Appendix A-15-a

<u>ACCOUNT</u>	<u>DESCRIPTION</u>	<u>YEAR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>ORIGINAL COST</u>
<b><u>353.2</u></b>	<b><u>LAND AND LAND RIGHTS - COLLECTION</u></b>				
	Collection system ROW Properties 3,4,5,6,7,8,9,10 and 11	1937			\$3
	Collection system ROW Properties 1 and 2	1961			\$10.00
	TOTAL LAND AND LAND RIGHTS - COLLECTION				<u>\$13.00</u>
<b><u>353.3</u></b>	<b><u>LAND AND LAND RIGHTS - PUMPING</u></b>				
	10th Ave. Pump Station (Property 13)	2000			\$39.00
	TOTAL LAND AND LAND RIGHTS - PUMPING				<u>\$39.00</u>
<b><u>353.4</u></b>	<b><u>LAND AND LAND RIGHTS - TREATMENT</u></b>				
	Wastewater Treatment Plant	1935			\$3,000
	TOTAL LAND AND LAND RIGHTS - TREATMENT				<u>\$3,000</u>
<b><u>354.3</u></b>	<b><u>STRUCTURES AND IMPROVEMENTS - PUMPING</u></b>				
	10th Avenue PS - Initial Facility	1935			\$6,542
	Green Street Pump Station - Initial Facility	1958			\$25,335
	Green Street PS improvements	1988			\$140
	Green Street PS improvements	1989			\$64,986
	Green Street PS improvements	1990			\$25,978
	10th Ave PS - Replaced pumps and grinder	2000			\$91,694
	drainage improvements	2011			\$6,691
	drainage improvements	2012			\$15,071
	Electrical Improvements	2019			\$13,000
	TOTAL STRUCTURES AND IMPROVEMENTS - PUMPING				<u>\$249,437</u>
<b><u>354.4</u></b>	<b><u>STRUCTURES AND IMPROVEMENTS TREATMENT PLANT</u></b>				
	Initial facility cost including pumps, building, treatment structures, fencing, property, etc.	1935			\$225,721
	Digester Cover	1993			\$62,901
	Furnace	2014			\$3,850
	Storage Building	2015			\$20,773
	TOTAL STRUCTURES AND IMPROVEMENTS TREATMENT PLANT				<u>\$313,245</u>
<b><u>355.3</u></b>	<b><u>POWER GENERATION - PUMPING</u></b>				
	10th Avenue Pump Station Generator	2000			\$45,847
	Green Street Pump Station Generator	2012			\$21,392
	TOTAL POWER GENERATION - PUMPING				<u>\$67,239</u>

# Appendix A-15-a

<u>ACCOUNT</u>	<u>DESCRIPTION</u>	<u>YEAR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>ORIGINAL COST</u>
<b>355.4</b>	<b><u>POWER GENERATION - TREATMENT AND DISPOSAL PLANT</u></b>				
	WWTP Generator	2008			\$303,849
	TOTAL POWER GENERATION - TREATMENT AND DISPOSAL PLANT				<u>\$303,849</u>
<b>360.2</b>	<b><u>COLLECTION SEWERS - FORCE MAINS</u></b>				
	10th Ave. Forcemain	1935	3,500 LF	\$5.31	\$18,585
	Green Street Forcemain	1958	680 LF	\$19.02	\$12,937
	TOTAL COLLECTION SEWERS - FORCE MAINS				<u>\$31,522</u>
<b>361.21</b>	<b><u>COLLECTION SEWERS -GRAVITY MAINS</u></b>				
	VCP - 8-inch	1935	35,257	\$3.39	\$119,688
	VCP - 10-inch	1935	910	\$5.21	\$4,737
	VCP - 12-inch	1935	2,029	\$6.76	\$13,710
	VCP - 15-inch	1935	4,011	\$8.64	\$34,652
	CIP - 15-inch	1935	205	\$9.37	\$1,920
	VCP - 8-inch	1936	21,322	\$3.43	\$73,210
	VCP - 10-inch	1936	545	\$5.21	\$2,838
	VCP - 12-inch	1936	1,216	\$6.76	\$8,213
	VCP - 15-inch	1936	2,403	\$8.64	\$20,759
	VCP - 8-inch	1955	350	\$3.25	\$1,136
	VCP - 8-inch	1972	336	\$9.61	\$3,228
	PVC - 8-inch	1985	270	\$20.57	\$5,554
	PVC - 8-inch	1990	385	\$25.93	\$9,984
	PVC - 8-inch	1992	566	\$27.32	\$15,463
	PVC - 8-inch	1995	185	\$29.98	\$5,547
	TOTAL COLLECTION SEWERS -GRAVITY MAINS				<u>\$320,640</u>
<b>361.22</b>	<b><u>COLLECTION SEWERS -GRAVITY MAINS - RELINING</u></b>				
	2012 CIPP Lining	2013			\$191,498
	2013 CIPP Lining	2014			\$369,468
	2016 CIPP Lining	2015			\$181,979
	TOTAL COLLECTION SEWERS -GRAVITY MAINS - RELINING				<u>\$742,945</u>
<b>361.23</b>	<b><u>COLLECTION SEWERS -GRAVITY - MANHOLES</u></b>				
	Initial installation	1935	171	\$87.68	\$14,993
	System expansion	1936	78	\$116.00	\$9,048
	S. Third Ave	1955	1	\$295.00	\$295

# Appendix A-15-a

<u>ACCOUNT</u>	<u>DESCRIPTION</u>	<u>YEAR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>ORIGINAL COST</u>
	6th St. at Church St.	1972	1	\$782.17	\$782
	S. Fourth Ave	1985	1	\$1,870.00	\$1,870
	Elm St.	1990	2	\$2,111.37	\$4,223
	Elementary School	1992	4	\$2,224.25	\$8,897
	6th St near Pine	1995	1	\$2,441.10	\$2,441
	TOTAL COLLECTION SEWERS -GRAVITY - MANHOLES				\$42,549
<b><u>363.20</u></b>	<b><u>SERVICE TO CUSTOMERS</u></b>				
	VCP - 5-inch	1935	16520	\$0.89	\$14,754
	VCP - 5-inch	1936	9896	\$0.90	\$8,919
	VCP -6-inch	1972	326	\$9.61	\$3,132
	PVC - 6-inch	1990	80	\$25.93	\$2,075
	PVC - 6-inch	2013	20	\$165.00	\$3,300
	TOTAL SERVICE TO CUSTOMERS		26842		\$32,180
<b><u>364.3</u></b>	<b><u>FLOW MEASURING DEVICES - PUMPING</u></b>				
	Pump Stations	2011			\$7,997
	TOTAL FLOW MEASURING DEVICES - PUMPING				\$7,997
<b><u>364.4</u></b>	<b><u>FLOW MEASURING DEVICES - WWTP</u></b>				
	WWTP	2011			\$9,930
	TOTAL FLOW MEASURING DEVICES - WWTP				\$9,930
<b><u>371.4</u></b>	<b><u>PUMPING EQUIPMENT - TREATMENT AND DISPOSAL PLANT</u></b>				
	Sludge Transfer Pumps	2005			\$9,925
	Raw and Recirculation Pumps	2010			\$131,000
	Replaced VFDs	2018			\$35,004
	TOTAL PUMPING EQUIPMENT - TREATMENT AND DISPOSAL PLANT				\$175,929
<b><u>380.4</u></b>	<b><u>TREATMENT AND DISPOSAL EQUIPMENT</u></b>				
	Facility improvements including new clarifiers, sludge digester, lab building and trickling filters	1951			\$354,456
	Miscellaneous improvements	1986			\$22,410
	Miscellaneous improvements	1987			\$550
	Facility improvements including new influent pump station and office building.	1998			\$1,462,008
	Upgrades to clarifiers, recirculation pumps and trickling filters.	1998			\$1,462,008
	Chlorination System	2006			\$1,500
	Dechlorination System	2007			\$15,000

# Appendix A-15-a

<u>ACCOUNT</u>	<u>DESCRIPTION</u>	<u>YEAR</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>ORIGINAL COST</u>
	New influent and recirculation pumps, clarifiers, influent screening chamber. Upgrades to existing clarifiers, piping and flow diversion chambers.	2010			\$2,785,371
	Screen Unit	2010			\$75,000
	Settling Tank Equipment	2010			\$171,000
	PAC system	2011			\$8,993
	Furnace	2014			\$3,850
	miscellaneous improvements	2015			\$44,411
	Grinder Rebuild	2016			\$11,091
	Settling Tank repairs, digester improvements	2020			\$396,120
	TOTAL TREATMENT AND DISPOSAL EQUIPMENT				<u>\$5,351,760</u>
<b><u>390.7</u></b>	<b><u>EQUIPMENT - GENERAL PLANT</u></b>				
	Security camera	2015			\$7,325
	TOTAL EQUIPMENT - GENERAL PLANT				<u>\$7,325</u>
<b><u>396.7</u></b>	<b><u>COMMUNICATION EQUIPMENT - GENERAL PLANT</u></b>				
	Transmitter	2015			\$5,275
	TOTAL COMMUNICATION EQUIPMENT - GENERAL PLANT				<u>\$5,275</u>

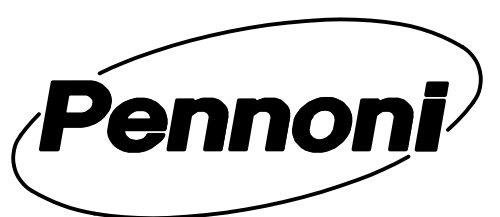
**APPENDICES**

**APPENDIX A**

**BOROUGH MAP**

1. Asset Facilities Map





Pennoni Consulting Engineers

19104

One Drexel Plaza, 3001 Market Street Phila., Pa.

Pennoni Associates Inc.

Pennoni

DATE	NO.	REVISIONS	BY

ALL DIMENSIONS MUST BE VERIFIED BY THE FIELD. NOTIFY PENNONI OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

SEWAGE FACILITIES MAP

BOROUGH OF ROYERSFORD  
MONTGOMERY COUNTY, PA

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSES INTENDED WILL BE AT OWNER'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL OBLIGATION TO PENNONI ASSOCIATES. OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

JOB NO: ROYR 0901

SHEET: 1 of 1

SCALE 1" = 400'	DRAWING NO. SK-1
DRAWN BY KM	
DATE 4/20/20	
APPROVED FAC	



**APPENDIX B**

**ACT 12**

**Uniform System of Accounts – Section 300**

**PUBLIC UTILITY CODE (66 PA.C.S.) - VALUATION OF ACQUIRED WATER  
AND WASTEWATER SYSTEMS FOR RATEMAKING PURPOSES**

**Act of Apr. 14, 2016, P.L. 76, No. 12**

**Cl. 66**

Session of 2016

No. 2016-12

HB1326

AN ACT

Amending Title 66 (Public Utilities) of the Pennsylvania Consolidated Statutes, in rates and distribution systems, providing for valuation of acquired water and wastewater systems for ratemaking purposes.

The General Assembly of the Commonwealth of Pennsylvania hereby enacts as follows:

Section 1. Title 66 of the Pennsylvania Consolidated Statutes is amended by adding a section to read:

**§ 1329. Valuation of acquired water and wastewater systems.**

**(a) Process to establish fair market value of selling utility.--Upon agreement by both the acquiring public utility or entity and the selling utility, the following procedure shall be used to determine the fair market value of the selling utility:**

**(1) The commission will maintain a list of utility valuation experts from which the acquiring public utility or entity and selling utility will choose.**

**(2) Two utility valuation experts shall perform two separate appraisals of the selling utility for the purpose of establishing its fair market value.**

**(3) Each utility valuation expert shall determine fair market value in compliance with the Uniform Standards of Professional Appraisal Practice, employing the cost, market and income approaches.**

**(4) The acquiring public utility or entity and selling utility shall engage the services of the same licensed engineer to conduct an assessment of the tangible assets of the selling utility. The assessment shall be incorporated into the appraisal under the cost approach required under paragraph (3).**

**(5) Each utility valuation expert shall provide the completed appraisal to the acquiring public utility or entity and selling utility within 90 days of execution of the service contract.**

**(b) Utility valuation experts.--**

**(1) The utility valuation experts required under subsection (a) shall be selected as follows:**

**(i) one shall be selected by the acquiring public utility or entity; and**

**(ii) one shall be selected by the selling utility.**

**(2) The utility valuation experts shall not:**

**(i) derive any material financial benefit from the sale of the selling utility other than fees for services rendered; or**

**(ii) be an immediate family member of a director, officer or employee of either the acquiring public utility, entity or selling utility within a 12-month period of the date of hire to perform an appraisal.**

**(3) Fees paid to utility valuation experts may be included in the transaction and closing costs associated with acquisition by the acquiring utility or entity. Fees eligible for inclusion may be of an amount not exceeding 5% of the fair**

market value of the selling utility or a fee approved by the commission.

(c) **Rate-making rate base.**--The following apply:

(1) The rate-making rate base of the selling utility shall be incorporated into the rate base of:

(i) the acquiring public utility during the acquiring public utility's next base rate case; or

(ii) the entity in its initial tariff filing.

(2) The rate-making rate base of the selling utility shall be the lesser of the purchase price negotiated by the acquiring public utility or entity and selling utility or the fair market value of the selling utility.

(d) **Acquisitions by public utility.**--The following apply:

(1) If the acquiring public utility and selling utility agree to use the process outlined in subsection (a), the acquiring public utility shall include the following as an attachment to its application for commission approval of the acquisition filed pursuant to section 1102 (relating to enumeration of acts requiring certificate):

(i) Copies of the two appraisals performed by the utility valuation experts under subsection (a).

(ii) The purchase price of the selling utility as agreed to by the acquiring public utility and selling utility.

(iii) The rate-making rate base determined pursuant to subsection (c) (2).

(iv) The transaction and closing costs incurred by the acquiring public utility that will be included in its rate base.

(v) A tariff containing a rate equal to the existing rates of the selling utility at the time of the acquisition and a rate stabilization plan, if applicable to the acquisition.

(2) The commission shall issue a final order on an application submitted under this section within six months of the filing date of an application meeting the requirements of subsection (d) (1).

(3) If the commission issues an order approving the application for acquisition, the order shall include:

(i) The rate-making rate base of the selling utility, as determined under subsection (c) (2).

(ii) Additional conditions of approval as may be required by the commission.

(4) The tariff submitted pursuant to subsection (d) (1) (v) shall remain in effect until such time as new rates are approved for the acquiring public utility as the result of a base rate case proceeding before the commission. The acquiring public utility may collect a distribution system improvement charge during this time, as approved by the commission under this chapter.

(5) The selling utility's cost of service shall be incorporated into the revenue requirement of the acquiring public utility as part of the acquiring utility's next base rate case proceeding. The original source of funding for any part of the water or sewer assets of the selling utility shall not be relevant to determine the value of said assets.

(e) **Acquisitions by entity.**--An entity shall provide all the information required by subsection (d) (1) to the commission as an attachment to its application for a certificate of public convenience filed pursuant to section 1102.

(f) **Postacquisition projects.**--The following apply:

(1) An acquiring public utility's postacquisition improvements that are not included in a distribution improvement charge shall accrue allowance for funds used during construction after the date the cost was incurred until the asset has been in service for a period of four years or until

the asset is included in the acquiring public utility's next base rate case, whichever is earlier.

(2) Depreciation on an acquiring public utility's postacquisition improvements that have not been included in the calculation of a distribution system improvement charge shall be deferred for book and ratemaking purposes.

(g) Definitions.--The following words and phrases when used in this section shall have the meanings given to them in this section unless the context clearly indicates otherwise:

"Acquiring public utility." A water or wastewater public utility subject to regulation under this title that is acquiring a selling utility as the result of a voluntary arm's-length transaction between the buyer and seller.

"Allowance of funds used during construction." An accounting practice that recognizes the capital costs, including debt and equity funds that are used to finance the construction costs of an improvement to a selling utility's assets by an acquiring public utility.

"Entity." A person, partnership or corporation that is acquiring a selling utility and has filed or whose affiliate has filed an application with the commission seeking public utility status pursuant to section 1102.

"Fair market value." The average of the two utility valuation expert appraisals conducted under subsection (a)(2).

"Ratemaking rate base." The dollar value of a selling utility which, for postacquisition ratemaking purposes, is incorporated into the rate base of the acquiring public utility or entity.

"Rate stabilization plan." A plan that will hold rates constant or phase rates in over a period of time after the next base rate case.

"Selling utility." A water or wastewater company located in this Commonwealth, owned by a municipal corporation or authority that is being purchased by an acquiring public utility or entity as the result of a voluntary arm's-length transaction between the buyer and seller.

"Utility valuation expert." A person hired by an acquiring public utility and selling utility for the purpose of conducting an economic valuation of the selling utility to determine its fair market value.

Section 2. This act shall take effect in 60 days.

APPROVED--The 14th day of April, A.D. 2016.

TOM WOLF

**UNIFORM SYSTEM OF ACCOUNTS  
FOR CLASS A  
WASTEWATER UTILITIES**

**1996**



**NATIONAL ASSOCIATION OF  
REGULATORY UTILITY COMMISSIONERS**

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\$26.00

## WASTEWATER UTILITY PLANT ACCOUNTS

	<u>.1</u>	<u>.2</u>
	Intangible Plant	Collection Plant
351. Organization	351.1	XXXXXXXXXX
352. Franchises	352.1	XXXXXXXXXX
353. Land and Land Rights	XXXXXXXXXX	353.2
354. Structures and Improvements	XXXXXXXXXX	354.2
355. Power Generation Equipment	XXXXXXXXXX	355.2
360. Collection Sewers - Force	XXXXXXXXXX	360.2
361. Collection Sewers - Gravity	XXXXXXXXXX	361.2
362. Special Collecting Structures	XXXXXXXXXX	362.2
363. Services to Customers	XXXXXXXXXX	363.2
364. Flow Measuring Devices	XXXXXXXXXX	364.2
365. Flow Measuring Installations	XXXXXXXXXX	365.2
366. Reuse Services	XXXXXXXXXX	XXXXXXXXXX
367. Reuse Meters and Meter Installations	XXXXXXXXXX	XXXXXXXXXX
370. Receiving Wells	XXXXXXXXXX	XXXXXXXXXX
371. Pumping Equipment	XXXXXXXXXX	XXXXXXXXXX
374. Reuse Distribution Reservoirs	XXXXXXXXXX	XXXXXXXXXX
375. Reuse Transmission and Distribution System	XXXXXXXXXX	XXXXXXXXXX
380. Treatment and Disposal Equipment	XXXXXXXXXX	XXXXXXXXXX
381. Plant Sewers	XXXXXXXXXX	XXXXXXXXXX
382. Outfall Sewer Lines	XXXXXXXXXX	XXXXXXXXXX
389. Other Plant and Misc. Equipment	389.1	389.2
390. Office Furniture and Equipment	XXXXXXXXXX	XXXXXXXXXX
391. Transportation Equipment	XXXXXXXXXX	XXXXXXXXXX
392. Stores Equipment	XXXXXXXXXX	XXXXXXXXXX
393. Tools, Shop and Garage Equipment	XXXXXXXXXX	XXXXXXXXXX
394. Laboratory Equipment	XXXXXXXXXX	XXXXXXXXXX
395. Power Operated Equipment	XXXXXXXXXX	XXXXXXXXXX
396. Communication Equipment	XXXXXXXXXX	XXXXXXXXXX
397. Miscellaneous Equipment	XXXXXXXXXX	XXXXXXXXXX
398. Other Tangible Plant	XXXXXXXXXX	XXXXXXXXXX

WASTEWATER UTILITY PLANT ACCOUNTS

<u>.3</u>	<u>.4</u>	<u>.5</u>	<u>.6</u>	<u>.7</u>
System Pumping Plant	Treatment and Disposal Plant	Reclaimed Water Treatment Plant	Reclaimed Water Distribution Plant	General Plant
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	352.6	XXXXXXXXXXXX
353.3	353.4	353.5	353.6	353.7
354.3	354.4	354.5	354.6	354.7
355.3	355.4	355.5	355.6	XXXXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	366.6	XXXXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	367.6	XXXXXXXXXXXX
370.3	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
371.3	XXXXXXXXXX	371.5	371.6	XXXXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	374.5	XXXXXXXXXXXX	XXXXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	375.6	XXXXXXXXXXXX
XXXXXXXXXX	380.4	380.5	XXXXXXXXXXXX	XXXXXXXXXXXX
XXXXXXXXXX	381.4	381.5	XXXXXXXXXXXX	XXXXXXXXXXXX
XXXXXXXXXX	382.4	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX
389.3	389.4	389.5	389.6	XXXXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	390.7
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	391.7
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	392.7
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	393.7
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	394.7
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	395.7
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	396.7
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	397.7
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	398.7



## WASTEWATER UTILITY PLANT ACCOUNTS

The wastewater utility plant accounts have been designed utilizing an account matrix. The matrix employs a list of object accounts which in effect act as control accounts. The object accounts are further segregated by the matrix into classifications by functions or subaccount. The instructions for segregating the object accounts to the function subaccount are contained in Accounting Instruction 32. Listed below are the object account descriptions.

351. Organization

This account shall include all fees paid to federal or state governments for the privilege of incorporation and expenditures incident to organizing the corporation, partnership or other enterprise and putting it into readiness to do business. A sample of items to be included in this account are listed below.

1. Actual cost of obtaining certificates authorizing an enterprise to engage in the public utility business.
2. Fees and expenses for incorporation.
3. Fees and expenses for mergers or consolidations.
4. Office expenses incident to organizing the utility.
5. Stock and minute books and corporate seal.

Note A:--This account shall not include any discounts upon securities issued or assumed; nor shall it include any costs incident to negotiating loans, selling bonds or other evidences of debt, or expenses in connection with the authorization, issuance and sale of capital stock.

Note B:--Exclude from this account and include in the appropriate expense account the cost of preparing and filing papers in connection with the extension of the term of incorporation unless the first organization costs have been written off. Where charges are made to this account for expenses incurred in mergers, consolidations or reorganizations, amounts previously included herein or in similar accounts in the books of the companies concerned shall be excluded from this account.

352. Franchises

A. This account shall include amounts paid to the federal government, to a state or to a political subdivision thereof in consideration for franchises, consents or certificates, running in perpetuity or for a specified term of more than one year, together with necessary and reasonable expenses incident to procuring such franchises, consents or certificates of permission and approval, including expenses of organizing and merging separate corporations, where statutes require solely for the purpose of acquiring franchise.

## WASTEWATER UTILITY PLANT ACCOUNTS

B. If a franchise or certificate is acquired by assignment, the charge to this account in respect thereof shall not exceed the amount paid therefor by the utility to the assignor, nor shall it exceed the amount paid by the original grantee, plus the expense of acquisition to such grantee. Any excess of the amount actually paid by the utility over the amount specified shall be charged to account 426 - Miscellaneous Nonutility Expenses.

C. When any franchise has expired, the book cost thereof shall be credited hereto and charged to account 426 - Miscellaneous Nonutility Expenses, or to account 110.1 - Accumulated Amortization of Utility Plant in Service, as appropriate.

D. Records supporting this account shall be kept so as to show separately the book cost of each franchise.

Note:--Annual or other periodic payments under franchises shall not be included herein but in the appropriate expense account.

353. Land and Land Rights

This account shall include the cost of land and land rights used in connection with wastewater collection, pumping, treatment and disposal, reclaimed water treatment and distribution and general plant operations (See Accounting Instruction 24). A sample of items to be included in this account are listed below:

1. Bulkheads buried, not requiring maintenance or replacement.
2. Cost, first, of acquisition including mortgages and other liens assumed (but not subsequent interest thereon).
3. Condemnation proceedings, including court and counsel costs.
4. Consents and abutting damages, payment for.
5. Conveyancers' and notaries' fees.
6. Fees, commissions, and salaries to brokers, agents, and others in connection with the acquisition of the land or land rights.
7. Leases, cost of voiding upon purchase to secure possession of land.
8. Removing, relocating, or reconstructing property of others, such as buildings, highways, railroads, bridges, cemeteries, churches, telephone and power lines, etc., in order to acquire quiet possession.
9. Retaining walls unless identified with structures.
10. Special assessments levied by public authorities for public improvements on the basis of benefits for new

## WASTEWATER UTILITY PLANT ACCOUNTS

- roads, new bridges, new sewers, new curbing, new pavements, and other public improvements, but not taxes levied to provide for the maintenance of such improvements.
11. Surveys in connection with the acquisition, but not amounts paid for topographical surveys and maps where such costs are attributable to structures or plant equipment erected or to be erected or installed on such land.
  12. Taxes assumed, accrued to date of transfer of title.
  13. Title, examining, clearing, insuring and registering in connection with the acquisition and defending against claims relating to the period prior to the acquisition.
  14. Appraisals prior to closing title.
  15. Cost of dealing with distributees or legatees residing outside of the state or county, such as recording power of attorney, recording will or exemplification of will, recording satisfaction of state tax.
  16. Filing satisfaction of mortgage.
  17. Documentary stamps.
  18. Photographs of property at acquisition.
  19. Fees and expenses incurred in the acquisition of sewer rights, and grants.
  20. Cost of fill to extend bulkhead line over land under water, where riparian rights are held, which is not occasioned by the erection of a structure.
  21. Sidewalks and curbs constructed by the utility on public property.
  22. Labor and expenses in connection with securing rights of way, where performed by company employees and company agents.

354. Structures and Improvements

This account shall include the cost in place of structures and improvements used in connection with wastewater collection, pumping, treatment and disposal, reclaimed water treatment and distribution and general plant operations (See Accounting Instruction 25). A sample of items to be included in this account are listed below:

1. Architects' plans and specifications including supervision.
2. Boilers, furnaces, piping, wiring, fixtures, and machinery for heating, lighting, signaling, ventilating and air conditioning systems, plumbing, vacuum cleaning systems, incinerator and smoke pipe, flues, etc.

## WASTEWATER UTILITY PLANT ACCOUNTS

3. Bulkheads, including dredging, riprap fill, piling, decking, concrete fenders, etc., when exposed and subject to maintenance and replacement.
4. Commissions and fees to brokers, agents, architects and others.
5. Conduit (not to be removed) with its contents.
6. Damages to abutting property during construction.
7. Drainage systems.
8. Elevators, cranes, hoists, etc., and the machinery for operating them.
9. Excavation, including shoring, bracing, bridging, refill and disposal of excess excavated material, cofferdams around foundations, pumping water from cofferdam during construction, test borings.
10. Fences and fence curbs (not including protective fences isolating items of equipment, which should be charged to the appropriate equipment account).
11. Fire protection systems when forming a part of a structure.
12. Flagpole.
13. Floor covering (permanently attached).
14. Foundations and piers for machinery, constructed as a permanent part of a building or other item listed herein.
15. Grading and clearing when directly occasioned by the building of a structure.
16. Intrasite communication system, poles, pole fixtures, wires and cables.
17. Landscaping, lawns, shrubbery, etc.
18. Leases, voiding upon purchase, to secure possession of structures.
19. Leased property, expenditures on.
20. Lighting fixtures and outside lighting systems.
21. Marquee, permanently attached to building.
22. Painting, first cost.
23. Permanent paving, concrete, brick, flagstone, asphalt, etc., within the property lines.
24. Partitions, including movable.
25. Permits and privileges.
26. Power boards for services to a building.
27. Refrigerating systems for general use.
28. Retaining walls except when identified with land.
29. Roadways.
30. Roofs.
31. Scales, connected to and forming a part of a structure.
32. Water and wastewater systems, for general use.
33. Sidewalks, culverts, curbs and streets constructed by the utility on its property.

## WASTEWATER UTILITY PLANT ACCOUNTS

34. Sprinkling systems.
35. Stacks -- brick, steel, or concrete, when set on foundation forming part of general foundation and steelwork of a building.
36. Steel inspection during construction.
37. Storage facilities constituting a part of a building.
38. Storm doors and windows.
39. Temporary heating during construction (net cost).
40. Temporary water connection during construction (net cost).
41. Temporary shanties and other facilities used during construction (net cost).
42. Topographical maps.
43. Vaults constructed as part of a building.
44. Watchmen's sheds and clock systems (net cost when used during construction only).
45. Water meters and supply system for a building or for general company purposes.
46. Water supply piping, hydrants and wells.
47. Yard surfacing, gravel, concrete, or oil (First cost only).
48. Tunnels, intake and discharge when constructed as part of a structure including sluice gates and those constructed to house.

355. Power Generation Equipment

A. This account shall include the cost installed of any equipment used for the production of power principally used in pumping operations.

B. Subaccounts shall be maintained hereunder for the cost of equipment used for each type of power generating equipment.

360. Collecting Sewers - Force

This account shall include all sewers which are used to lift sewage from a low elevation to a higher elevation. The force sewer will include that pipe between the discharge outlet of the lift station and the receiving manhole.

361. Collecting Sewers - Gravity

This account shall include the installed cost of all gravity collecting sewers, interceptor, branch, trunk, lateral including service wye, and manholes and lampholes. Manholes shall be included as a separate unit of property.

362. Special Collecting Structures

Inverted siphon shall be included in this account but so

## WASTEWATER UTILITY PLANT ACCOUNTS

distinctly noted; also any other special designed structures unusual to the wastewater system should be included herein but specifically noted as to what they do.

363. Services to Customers

This account shall include the installed cost of service sewers, from collection sewer to the customer's property or curb line. A sample of items to be included in this account are listed below:

1. Jointing and jointing material.
2. Manhole or clean-out.
3. Municipal inspection and permits
4. Pavement disturbed.
5. Protection of street openings.
6. Tapping saddle.
7. Service connection wye shall be included in account 363 instead of account 361 when company owns service sewers to customers property line.

364. Flow Measuring Devices

A. This account shall include the cost of flow measuring and recording equipment and initial testing used for measuring the quantity of wastewater or wastewater effluent delivered by customers, whether actually in service or held in reserve.

B. When flow measuring equipment is permanently retired from service, the amount at which it is included herein shall be credited to this account.

C. The records covering flow measuring equipment shall be so kept that the utility can furnish information as to the number of devices of each type and size in service and in reserve, as well as the location of each device included in this account.

365. Flow Measuring Installations

A. This account shall include the cost of labor employed, materials used and expenses incurred in connection with the original installation of customers' flow measuring equipment. A sample of items to be included in this account are listed below:

1. Floats, connections, flumes, or wires.
2. Special manhole, boxes, or other separate housing.

B. When a flow measuring installation is permanently retired from service, the cost thereof shall be credited to this account.

## WASTEWATER UTILITY PLANT ACCOUNTS

366. Reuse Services

- A. This account shall include the cost installed of reclaimed water service pipes and accessories leading to the customers' premises.
- B. A complete reclaimed water service begins with the connection on the main and extends to but does not include the connection with the customer's meter. A stub service extends from the main to the property line, or the curb stop (curb stop cock).
- C. Services which have been used but have become inactive shall be retired from utility plant in service immediately if there is no prospect for future use.

## Items

1. Corporation stops or tees.
2. Gate valves and boxes.
3. Goose necks.
4. Jointing and jointing material.
5. Municipal inspection or permits.
6. Pavements disturbed.
7. Pipes.
8. Placing pipes and accessories.
9. Protection of street openings.
10. Service or curb boxes.
11. Service or curb stops (curb stop cocks).
12. Tapping main.
13. Tapping saddle.

367. Reuse Meters and Meter Installations

- A. This account shall include the cost of meters, devices and appurtenances attached thereto, used for measuring the quantity of reclaimed water delivered to users, whether actually in service or held in reserve. It shall also include the cost of labor employed, materials used and expenses incurred in connection with the original installation of a customer's meters and devices and appurtenances attached thereto.
- B. When a meter and/or meter installation is permanently retired from service, the amount at which it is included herein shall be credited to this account.
- C. The records covering meters shall be so kept that the utility can furnish information as to the number of meters of each type and size in service and in reserve as well as the location of each meter included in this account.
- D. A sample of items to be included in this account are listed

## WASTEWATER UTILITY PLANT ACCOUNTS

below:

1. Meters, including badging and initial testing.
2. Remote meter registers.
3. Installation labor (first installation only).
4. Meter coupling.
5. Meter bars.
6. Meter yokes.
7. Meter fittings, connections and shelves.
8. Meter vaults or boxes.
9. Stops.

Note A:--This account shall not include meters for recording the output of a supply or treatment plant, or those located on mains. It includes only those meters to record reclaimed water delivered to customers, including company use and for those used elsewhere in the system if a type available for general use.

Note B:--The utility shall maintain a statistical record to show separately the number of each type and size of meter or group of types and sizes as carried in the continuing property record. Underlying records shall be kept so that the utility can determine readily for each such classification the number of company-owned meters in service (subdivided between active and inactive) and the number of meters carried herein but not in service, the latter to include meters undergoing repairs; and the number of meters in service owned by customers.

### 370. Receiving Wells

This account shall include the cost of constructing wells at pumping stations or at other junction points along the collecting system, used for intercepting wastewater for clearing and screening, transfer to a pumping well or otherwise further convey it along the collecting system to the treatment plant or point of final discharge. This account shall include any chemical feed apparatus and holding basins associated with the receiving well.

### 371. Pumping Equipment

This account shall include the cost installed of pumping equipment driven by electric power or diesel engines. A sample of items to be included in this account are listed below:

1. Motors or engines for driving pumps.
2. Pumps, including settings, gearing, shafting and belting.
3. Sewage piping within station, including valves.
4. Auxiliary equipment for motors and pumps such as oiling systems, cooling systems, condensers, etc.



## WASTEWATER UTILITY PLANT ACCOUNTS

5. Electrical power lines and switching.
6. Foundations, frames, and bed plates.
7. Hoist units.

374. Reuse Distribution Reservoirs

This account shall include the cost in place of reservoirs, tanks and appurtenances used in storing reclaimed water for distribution. A sample of items to be included in this account are listed below:

1. Bridges and culverts.
2. Clearing land.
3. Dams.
4. Embankments.
5. Fences.
6. Foundations.
7. Gates and gate houses.
8. Landscaping.
9. Lighting systems.
10. Piping system within reservoirs.
11. Retaining walls.
12. Roads and paths.
13. Rust-proofing apparatus.
14. Sewer drain or storm sewer.
15. Spillways and channels.
16. Standpipes.
17. Tanks.
18. Towers.
19. Valves.

375. Reuse Transmission and Distribution System

A. This account shall include the cost installed of reclaimed water transmission and distribution mains and appurtenances. A sample of items to be included in this account are listed below:

1. Air chambers.
2. Blow-offs and overflows.
3. Bridges and culverts.
4. Electrolysis control equipment.
5. Gauges and recorders.
6. Jointing and jointing material.
7. Manholes.
8. Meters and appurtenances.
9. Municipal inspection or permits.
10. Pavement disturbed, including cutting and replacing pavement, pavement base and sidewalks.
11. Pipes.
12. Fire mains.
13. Fire Hydrants.

## WASTEWATER UTILITY PLANT ACCOUNTS

B. Records supporting this account shall be so kept as to show separately the cost of mains of different sizes and types and of each tunnel, bridge, or river crossing.

380. Treatment and Disposal Equipment

This account shall include the cost installed of apparatus equipment and other facilities used for the treatment of wastewater, disposal of sewage wastes and the treatment of effluent for reuse. A sample of items to be included in this account are listed below:

1. Aeration chambers.
2. Chemical equipment.
3. Disinfection facilities.
4. Filters.
5. Imhoff tank.
6. Land fill equipment and appurtenances.
7. Monitoring equipment.
8. Oxidation pond or lagoon.
9. Sedimentation equipment.
10. Septic tank.
11. Screen unit.
12. Sludge system.
13. Trucks, tractors, or other equipment used primarily for sludge or other waste disposal.
14. Package mechanical treatment plant.
15. Sedimentation basin.
16. Sludge digestion equipment.
17. Sludge filtration or dewatering equipment.

381. Plant Sewers

This account shall include the cost installed of plant yard piping and appurtenances, and facilities required to dispose of treatment plant liquid effluent into the outfall sewer line. A sample of items to be included in this account are listed below:

1. Unit to unit sections of yard piping.
2. Valves and vaults.
3. Pipe tunnels and galleries.
4. Filter and filter backwash piping.

382. Outfall Sewer Lines

This account shall include the installed cost of sewer line carrying effluent from treatment facility to point of discharge. Includible in this account would be headwall or outlet.

## WASTEWATER UTILITY PLANT ACCOUNTS

389. Other Plant and Miscellaneous Equipment

This account shall include the cost installed of all other intangible, collection system pumping, treatment and disposal, reclaimed water treatment and reclaimed water distribution plant not provided for in the foregoing accounts.

390. Office Furniture and Equipment

A. This account shall include the cost of office furniture and equipment owned by the utility and devoted to utility service, and not permanently attached to buildings, except the cost of such furniture and equipment which the utility elects to assign to other plant accounts on a functional basis. A sample of items to be included in this account are listed below:

1. Book cases and shelves.
2. Desk, chairs, and desk equipment.
3. Drafting room equipment.
4. Electronic data processing equipment.
5. Filing, storage and other cabinets.
6. Floor covering.
7. Library and library equipment.
8. Mechanical office equipment such as accounting machines, typewriters, etc.
9. Safes.
10. Tables.

B. If the utility has equipment includible in this account at more than one location, separate records shall be maintained for each location.

391. Transportation Equipment

This account shall include the cost of transportation vehicles used for utility purposes. A sample of items to be included in this account are listed below:

1. Airplanes.
2. Automobiles.
3. Bicycles.
4. Electrical vehicles.
5. Motor trucks.
6. Motorcycles.
7. Repair cars or trucks.
8. Tractors and trailers.
9. Other transportation vehicles.

## WASTEWATER UTILITY PLANT ACCOUNTS

392. Stores Equipment

A. This account shall include the cost of equipment used for the receiving, shipping, handling and storage of materials and supplies.

B. If the utility has equipment includible in this account at more than one location, separate records shall be maintained for each location. A sample of items to be included in this account are listed below:

1. Chain falls.
2. Counters.
3. Cranes (portable).
4. Elevating and stacking equipment (portable).
5. Hoists.
6. Lockers.
7. Scales.
8. Shelving.
9. Storage bins.
10. Trucks, hand and power driven.
11. Wheelbarrows.

393. Tools, Shop and Garage Equipment

This account shall include the cost of tools, implements, and equipment used in construction, repair work, general shops and garages and not specifically provided for or includible in other accounts. A sample of items to be included in this account are listed below:

1. Air compressors.
2. Anvils.
3. Automobile repair shop equipment.
4. Battery charging equipment.
5. Belts, shafts and countershafts.
6. Boilers.
7. Cable pulling equipment.
8. Concrete mixers.
9. Drill presses.
10. Derricks.
11. Electric equipment.
12. Engines.
13. Forges.
14. Furnaces.
15. Foundations and settings specially constructed for and not expected to outlast the equipment for which provided.
16. Gas producers.
17. Gasoline pumps, oil pumps and storage tanks.
18. Greasing tools and equipment.

## WASTEWATER UTILITY PLANT ACCOUNTS

19. Hoists.
20. Ladders.
21. Lathes.
22. Machine tools.
23. Motor driven tools.
24. Motors.
25. Pipe threading and cutting tools.
26. Pneumatic tools.
27. Pumps.
28. Riveters.
29. Smithing equipment.
30. Tool racks.
31. Vises.
32. Welding apparatus.
33. Work benches.

394. Laboratory Equipment

A. This account shall include the cost installed of laboratory equipment used for general laboratory purposes and not specifically provided for or includible in other departmental or functional plant accounts. A sample of items to be included in this account are listed below:

1. Autoclaves.
2. Barometers.
3. Cameras.
4. Centrifuge.
5. Distilling apparatus.
6. Furnaces.
7. Microscopes.
8. Ovens.
9. Pitometers.
10. Rain gauges.
11. Refrigerators.
12. Scales.
13. Sterilizers.
14. Stop watches.
15. Testing machines.
16. Therometers.
17. Voltmeters.
18. Other bacteriological, electric, chemical hydraulic or research equipment.

B. If the utility has equipment includible in this account at more than one location, separate records shall be maintained for each location.

## WASTEWATER UTILITY PLANT ACCOUNTS

395. Power Operated Equipment

This account shall include the cost of power operated equipment used in construction of repair work exclusive of equipment includible in other accounts. Include, also, the tools and accessories acquired for use with such equipment and the vehicle on which such equipment is mounted. A sample of items to be included in this account are listed below:

1. Air compressors, including driving unit and vehicle.
2. Back filling machines.
3. Boring machines.
4. Bulldozers.
5. Cranes and joists.
6. Diggers.
7. Engines.
8. Pile drivers.
9. Pipe cleaning machines.
10. Pipe coating or wrapping machines.
11. Tractors - Crawler type.
12. Trenchers.
13. Other power operated equipment.

Note:--It is intended that this account include only such large units as are generally self-propelled or mounted on moveable equipment.

396. Communication Equipment

This account shall include the cost installed of telephone, telegraph and wireless equipment for general use in connection with utility operations. A sample of items to be included in this account are listed below:

1. Antennae.
2. Booths.
3. Cables.
4. Distribution boards.
5. Extension cords.
6. Gongs.
7. Handsets, manual and dial.
8. Insulators.
9. Intercommunicating sets.
10. Loading coils.
11. Operators desks.
12. Poles and fixtures used wholly for telephone and telegraph wires.
13. Radio transmitting and receiving sets.
14. Remote control equipment and lines.
15. Sending keys.
16. Storage batteries.

## WASTEWATER UTILITY PLANT ACCOUNTS

17. Switchboards.
18. Teleautograph circuit connections.
19. Telegraph receiving sets.
20. Telephone and telegraph circuits.
21. Testing instruments.
22. Towers.
23. Underground conduit used wholly for telephone or telegraph wires and cable wires.

397. Miscellaneous Equipment

This account shall include the cost of equipment, apparatus, etc., used in utility operations, and which is not includible in any other account. A sample of items to be included in this account are listed below:

1. Hospital and infirmary equipment.
2. Kitchen equipment.
3. Recreation equipment.
4. Radios.
5. Restaurant equipment.
6. Soda fountains.
7. Operator's cottage furnishings.
8. Electric signs advertising the corporate name or symbol, plant or facility name, or otherwise serving only the general purpose of acquainting the public with the facilities and services of the utility.
9. Other miscellaneous equipment.

Note:--Miscellaneous equipment of the nature indicated above wherever practicable shall be included in the utility plant accounts on a functional basis.

398. Other Tangible Plant

This account shall include the cost of tangible utility plant not provided for elsewhere.