



## CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT INSTRUCTIONS

This form has been developed to promote consistency in the development of annual municipal wasteload management reports ("Chapter 94 reports") required by 25 Pa. Code § 94.12. At least two copies of the complete report must be submitted to the appropriate regional office of the Department of Environmental Protection (DEP) by March 31.

Enter the calendar year that the report covers at the top of the form. Check the appropriate box to indicate whether the permittee is the owner/operator of a publicly owned treatment works (POTW) or other sewage treatment facility, or is the owner/operator of a sewage collection system that is tributary to a POTW owned/operated by a different entity.

### General Information

Record the name of the permittee, the permittee's full mailing address, the permittee's contact person and this person's title, phone number and email address. Also record the permit number (NPDES or WQM), the effective date of permit coverage, the expiration date of permit coverage (if applicable), the date by which an application or NOI is due for reissuance (renewal) (if applicable), the municipality and county where the sewage treatment facility or collection system is located, and the name of the consultant (company name), if any, who assisted in the preparation of the form.

### Chapter 94 Report Components

This section requests responses to 12 questions that, if applicable, must be addressed for a complete Chapter 94 report. Questions 1 – 9 and 12 come directly from the Chapter 94 regulations, i.e., 25 Pa. Code §§ 94.12(a)(1) – 94.12(a)(9) and 94.13(b). Some questions request that you check an appropriate box, attach the information requested, and specify the attachment number, while responses to other questions may be entered directly on the form.

For Questions 1 and 2, permittees may use DEP's Chapter 94 Spreadsheet to satisfy 25 Pa. Code §§ 94.12(a)(1) and 94.12(a)(2), respectively. DEP encourages use of the Chapter 94 Spreadsheet to provide consistency in the format and calculations associated with hydraulic and organic load evaluations (see [www.depweb.state.pa.us/chapter94](http://www.depweb.state.pa.us/chapter94)). If the Chapter 94 Spreadsheet was used, check the appropriate box(es) and attach printouts of the data and graphs to the Chapter 94 report. If this report is being used for a collection system only, these graphs are not needed.

For Question 6, if the permittee checks the box that there were capacity-related bypasses or SSOs during the report year, in general the box for existing hydraulic overload in Question 9 should be checked. If the permittee checks the box in Question 6 because surcharging occurred during the report year, in general the box for projected hydraulic overload in Question 9 should be checked.

For Question 8, if the permittee has an EPA-approved pretreatment program, attachment of an annual pretreatment report as required in an NPDES permit will satisfy the requirement for an industrial waste report.

For Question 10, if a permit requires a "Sewage Sludge Management" inventory, check the appropriate box if the inventory is attached to the Chapter 94 report.

For Question 11, if an NPDES permit (individual permit or, for satellite collection systems, PAG-06 General NPDES permit coverage) requires an Annual CSO (Status) report, attach the CSO report to the Chapter 94 report and check the appropriate box.

### Certification

In accordance with 25 Pa. Code § 94.12(a), both the individual who prepared the report and (a responsible official of) the permittee must sign the report. The term "responsible official" for a municipality is a principal executive officer or ranking elected official.

Questions on the completion of Chapter 94 reports may be directed to DEP's Bureau of Point and Non-Point Source Management at (717) 787-8184 or to the appropriate DEP regional office (contact information available by visiting DEP's website, [www.depweb.state.pa.us](http://www.depweb.state.pa.us), and selecting Regional Resources).



## CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

**For Calendar Year: 2022**

- Permittee is owner and/or operator of a POTW or other sewage treatment facility  
 Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee

<b>GENERAL INFORMATION</b>			
Permittee Name:	Dover Township STP	Permit No.:	PA0020826
Mailing Address:	2480 West Canal Road	Effective Date:	July 1, 2017
City, State, Zip:	Dover , PA 17315	Expiration Date:	June 30 <sup>th</sup> , 2022
Contact Person:	Christian L Jordan	Renewal Due Date:	January 1, 2022
Title:	Superintendent	Municipality:	Conewago Township
Phone:	(717) 292-4911 x1	County:	York
Email:	cjordan@dovertownship.org	Consultant Name:	
<b>CHAPTER 94 REPORT COMPONENTS</b>			
<p>1. Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. (25 Pa. Code § 94.12(a)(1))</p> <p><b>Check the appropriate boxes:</b></p> <p><input checked="" type="checkbox"/> Line graph for flows attached (<b>Attachment D2</b>)</p> <p><input checked="" type="checkbox"/> DEP Chapter 94 Spreadsheet used (<b>Attachment D1</b>)</p> <p><input type="checkbox"/> Section 1 is not applicable (report is for a collection system).</p>			
<p>2. Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. (25 Pa. Code § 94.12(a)(2))</p> <p><b>Check the appropriate boxes:</b></p> <p><input checked="" type="checkbox"/> Line graph for organic loads attached (<b>Attachment D3</b>)</p> <p><input checked="" type="checkbox"/> DEP Chapter 94 Spreadsheet used (<b>Attachment D1</b>)</p> <p><input type="checkbox"/> Section 2 is not applicable (report is for a collection system).</p>			
<p>3. If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. (25 Pa. Code § 94.12(a)(3))</p>			

4. Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))

**Check the appropriate boxes:**

- Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (**Attachment** )
- List summarizing each extension or project attached (**Attachment D4**)
- Schedules describing how each project will be completed over time and effects attached (**Attachment** )

**Comments:**

5. Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))

**Attachment D5 contains the sewer collection system's investigative and remediation activities for 2022. It also includes supportive maps of such activity.**

6. Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))

**Check the appropriate boxes:**

- System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event.
- System did not experience capacity-related bypassing, SSOs or surcharging during the report year.

**Comments:**

**While Dover Township did not experience any SSO's or capacity related bypasses in 2022 it continued to investigate, identify and correct any sources of I&I that were found.**

7. Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum pumping rate with present maximum flows and the projected 2-year maximum flows for each station. (25 Pa. Code § 94.12(a)(7))

**Check the appropriate boxes:**

- The collection system does not contain pump stations  
 The collection system does contain pump stations (Number – )  
 Discussion of condition of each pump station attached (**Attachment** )

8. If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information listed below. (25 Pa. Code § 94.12(a)(8))

- a. A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted.
- b. A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year.
- c. A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant or in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describe pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers.

**Check the appropriate boxes:**

- Industrial waste report as described in 8 a., b. and c. attached (**Attachment D8**)  
 Industrial pretreatment report as required in an NPDES permit attached (**Attachment** )

9. Existing or Projected Overload.

**Check the appropriate boxes:**

- This report demonstrates an existing hydraulic overload condition.  
 This report demonstrates a projected hydraulic overload condition.  
 This report demonstrates an existing organic overload condition.  
 This report demonstrates a projected organic overload condition.

If one or more boxes above have been checked, attach a Corrective Action Plan (CAP) to reduce or eliminate present or projected overloaded conditions under §§ 94.21 and/or 94.22 (relating to existing overload and projected overload). (25 Pa. Code § 94.12(a)(9))

- Corrective Action Plan attached (**Attachment** )

10. Where required by the NPDES permit, attach a Sewage Sludge Management inventory that demonstrates a mass balance of solids coming in and leaving the facility over the previous calendar year.

- Sewage Sludge Management Inventory attached (**Attachment D9**)

11. For facilities with CSOs and where required by the NPDES permit, attach an Annual CSO Report (including satellite combined sewer systems).

Annual CSO Report attached (**Attachment** )

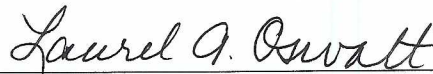
12. For POTWs, attach a calibration report documenting that flow measuring, indicating and recording equipment has been calibrated annually. (25 Pa. Code § 94.13(b))

Flow calibration report attached (**Attachment 10**)

### RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

**Laurel Oswalt, Township Manager**



Name of Responsible Official

Signature

**(717) 292-3634**

*3-21-2023*

Telephone No.

Date

### PREPARER CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

**Christian L. Jordan**



Name of Preparer

Signature

**(717) 292-4911 x1**

*3-28-2023*

Telephone No.

Date

# 2022 HYDRAULIC OVERLOAD NARATIVE

There is a not a Hydraulic Overload present in the sanitary sewer system. There were no sanitary sewer overflows based on hydraulic overload in 2022. A Consent Order & Agreement was entered into in 2012 between Dover Township and the Pennsylvania Department of Environmental Protection. This was to address the I&I issues on the collection system. On October 5, 2021, the township was informed its obligations under the COA were terminated. Although the COA has ended the township is continuing it's efforts to eliminate unwanted flows from entering the sanitary sewer with interceptor rehab work.

## Instructions for Using DEP Chapter 94 Spreadsheet


This spreadsheet has been developed by the Pennsylvania Department of Environmental Protection (PADEP) to provide consistency in the presentation of existing and projected hydraulic and organic loads for treatment plants for annual municipal wasteload management (Chapter 94) reports due March 31 annually. The spreadsheet contains one data entry worksheet named "Treatment Plants." The "Hydraulic Graph" and "Organic Graph" worksheets are developed automatically from the data into the "Treatment Plants" worksheet. Cells with **green borders** are those where data are requested. All other cells are locked. Questions on the use of this spreadsheet should be directed to PADEP's Bureau of Clean Water at 717-787-2137. **Note** - You must enable Macros to use this spreadsheet. This spreadsheet has been tested using Excel versions 2007 and above.

### Treatment Plants Worksheet

- 1 Enter the Facility Name and Permit No. Select the Reporting Year from the drop-down menu. The "Persons/EDU" field is used to estimate per capita hydraulic and organic contributions; by default the value is 3.5 but may be modified.
- 2 Enter the Existing Hydraulic Design Capacity, in MGD, and the Existing Organic Design Capacity, in lbs BOD5/day, from the WQM permit for the treatment plant as of December 31 of the Reporting Year. If an upgrade is planned that would increase the hydraulic design capacity and/or organic design capacity in the next 5 years, select "YES" from the drop-down menu(s) and select the Year of the planned upgrade from the menu. Then enter the Future Hydraulic Design Capacity, in MGD, and/or Future Organic Design Capacity, in lbs BOD5/day. If an upgrade is not planned in the next 5 years, all fields in this section may remain blank except Existing Hydraulic/Organic Design Capacity.
- 3 Record the Monthly Average Flows (MGD) and Monthly Average (Influent) BOD5 Loads (lbs/day) for the past 5 years in the tables provided.
- 4 Enter the existing equivalent dwelling units (EDUs) for each of the past 5 years.
- 5 Enter additional EDUs that are planned for connection to the treatment plant over the next 5 years.
- 6 For "New EDU Flow" and "New EDU Load," the user may accept the calculated values or overwrite them with other projected Flow/EDU and/or Load/EDU data. The default calculation is the average Flow/EDU and Load/EDU values for the past 5 years. If the cells for Existing EDUs are left blank, the calculation assumes 350 GPD/EDU x No. EDUs for New EDU Flow and 0.584 lbs/day/EDU x No. EDUs for New EDU Load.

Upon entry of data in all green bordered cells, calculations are made and existing ("Exist.") and projected ("Proj.") overload conditions are determined ("YES" or "NO"). The worksheets named "Hydraulic Graph" and "Organic Graph" are populated in accordance with the data entered.

Optionally users may enter total monthly precipitation data at the bottom of the Treatment Plants worksheet to chart precipitation along with hydraulic loads. By default the precipitation data are not shown on the Hydraulic Graph; to enable the data on the graph click the "YES" button above the precipitation data entry table. You may click on the "NO" button at any time to hide precipitation data.

Mouse over cells with **red corners**  view comments and explanations on how calculations are performed.

Click on the NEW button if you would like to shift data in the hydraulic, organic, and precipitation tables one column to the left in preparation for a new year of reporting.

Reporting Year:

Facility Name:

Permit No.:

Persons/EDU:

Existing Hydraulic Design Capacity:  MGD  
 Upgrade Planned in Next 5 Years?  Year:   
 Future Hydraulic Design Capacity:  MGD

Existing Organic Design Capacity:  lbs BOD5/day  
 Upgrade Planned in Next 5 Years?  Year:   
 Future Organic Design Capacity:  lbs BOD5/day

**Monthly Average Flows for Past Five Years (MGD)**

Month	2018	2019	2020	2021	2022
January	3.993	8.074	4.832	4.564	3.921
February	8.775	7.727	4.627	5.645	4.785
March	5.855	8.467	4.052	5.916	3.931
April	6.545	4.747	4.058	4.133	4.595
May	6.407	6.835	4.245	3.186	5.123
June	6.923	3.131	3.066	2.909	2.511
July	5.83	3.495	2.511	2.591	2.204
August	5.951	2.491	4.263	4.524	2.188
September	7.631	2.223	2.782	9.031	2.213
October	3.232	2.558	2.523	3.271	2.703
November	9.466	3.247	3.248	3.436	2.708
December	7.722	4.769	5.801	2.582	3.317

Annual Avg	6.528	4.814	3.834	4.316	3.35
Max 3-Mo Avg	7.058	8.421	4.743	5.609	4.55
Max : Avg Ratio	1.08	1.75	1.24	1.30	1.36
Existing EDUs	14,358.0	14,478.0	14,629.0	14,781.0	14,954.0
Flow/EDU (GPD)	454.7	332.5	262.1	292.0	224.0
Flow/Capita (GPD)	129.9	95.0	74.9	83.4	64.0
Exist. Overload?	NO	NO	NO	NO	NO

**Projected Flows for Next Five Years (MGD)**

	2023	2024	2025	2026	2027
New EDUs	195.0	224.0	262.0	229.0	210.0
New EDU Flow	0.061	0.0701	0.082	0.0717	0.0657
Proj. Annual Avg	4.629	4.6991	4.7811	4.8528	4.9185
Proj. Max 3-Mo Avg	6.226	6.321	6.431	6.527	6.616
Proj. Overload?	NO	NO	NO	NO	NO

**Monthly Average BOD5 Loads for Past Five Years (lbs/day)**

Month	2018	2019	2020	2021	2022
January	6,071	5,624	4,070	5,829	5,890
February	6,511	13,149	4,424	6,267	5,684
March	5,780	6,368	4,537	5,062	4,347
April	6,306	7,121	3,743	5,070	4,181
May	4,941	7,125	4,000	4,610	4,336
June	4,809	3,911	3,987	4,199	3,588
July	5,216	3,760	3,583	3,490	3,817
August	4,147	3,213	4,200	4,813	3,426
September	4,167	4,185	4,047	4,698	3,122
October	3,074	4,522	4,379	4,324	3,222
November	5,175	4,467	4,587	4,494	4,171
December	5,683	5,681	5,993	5,445	3,922

Annual Avg	5,157	5,761	4,296	4,858	4,142
Max Mo Avg	6,511	13,149	5,993	6,267	5,890
Max : Avg Ratio	1.26	2.28	1.40	1.29	1.42
Existing EDUs	14,358	14,478	14,629	14,781	14,954
Load/EDU	0.359	0.398	0.294	0.329	0.277
Load/Capita	0.103	0.114	0.084	0.094	0.079
Exist. Overload?	NO	YES	NO	NO	NO

**Projected BOD5 Loads for Next Five Years (lbs/day)**

	2023	2024	2025	2026	2027
New EDUs	195	224	262	229	210
New EDU Load	64.598	74.205	86.794	75.862	69.568
Proj. Annual Avg	4,907	4,982	5,068	5,144	5,214
Proj. Max Avg	7,510	7,624	7,757	7,873	7,979
Proj. Overload?	NO	NO	NO	NO	NO

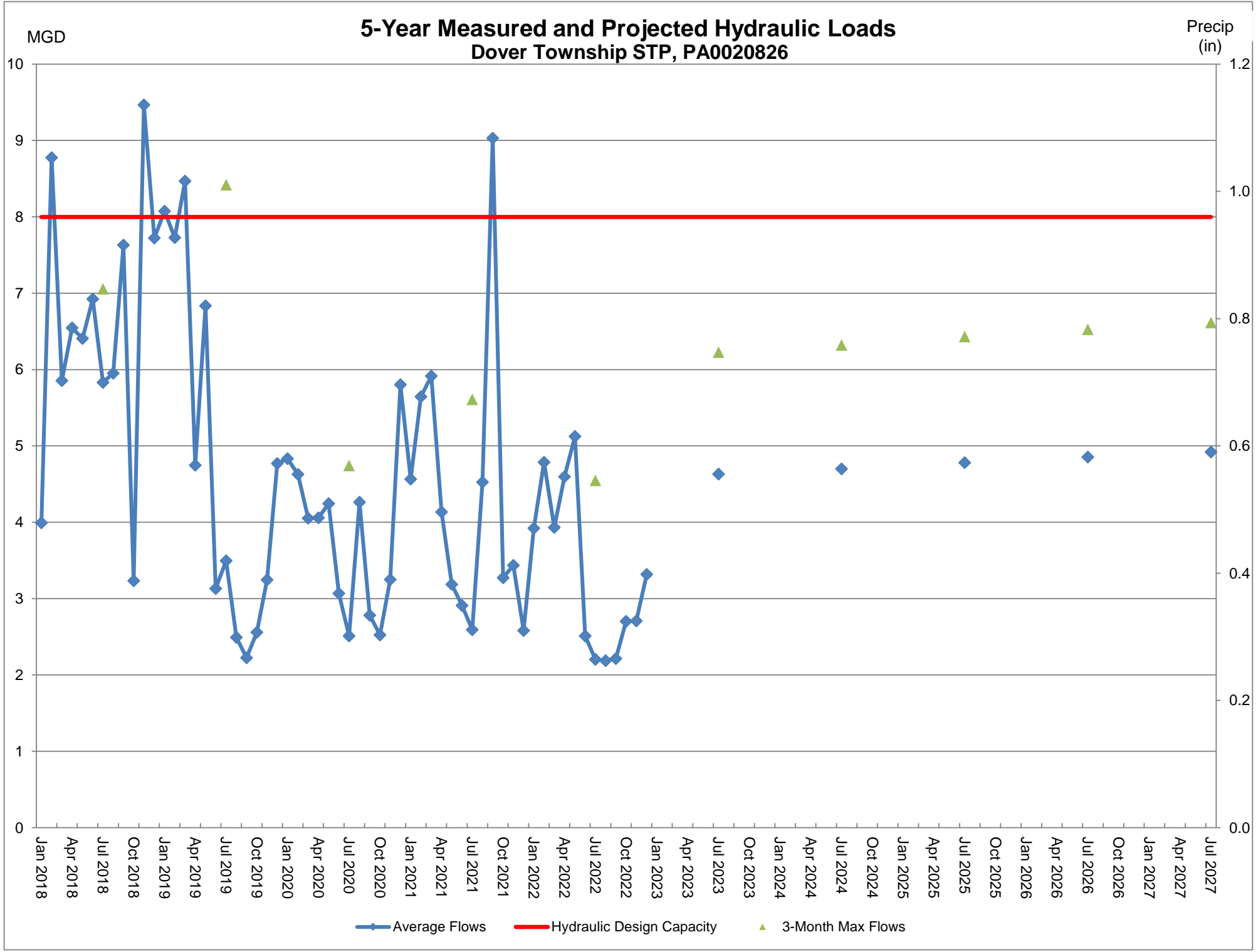
Show Precipitation Data on Hydraulic Graph?

**Total Monthly Precipitation for Past Five Years (Inches)**

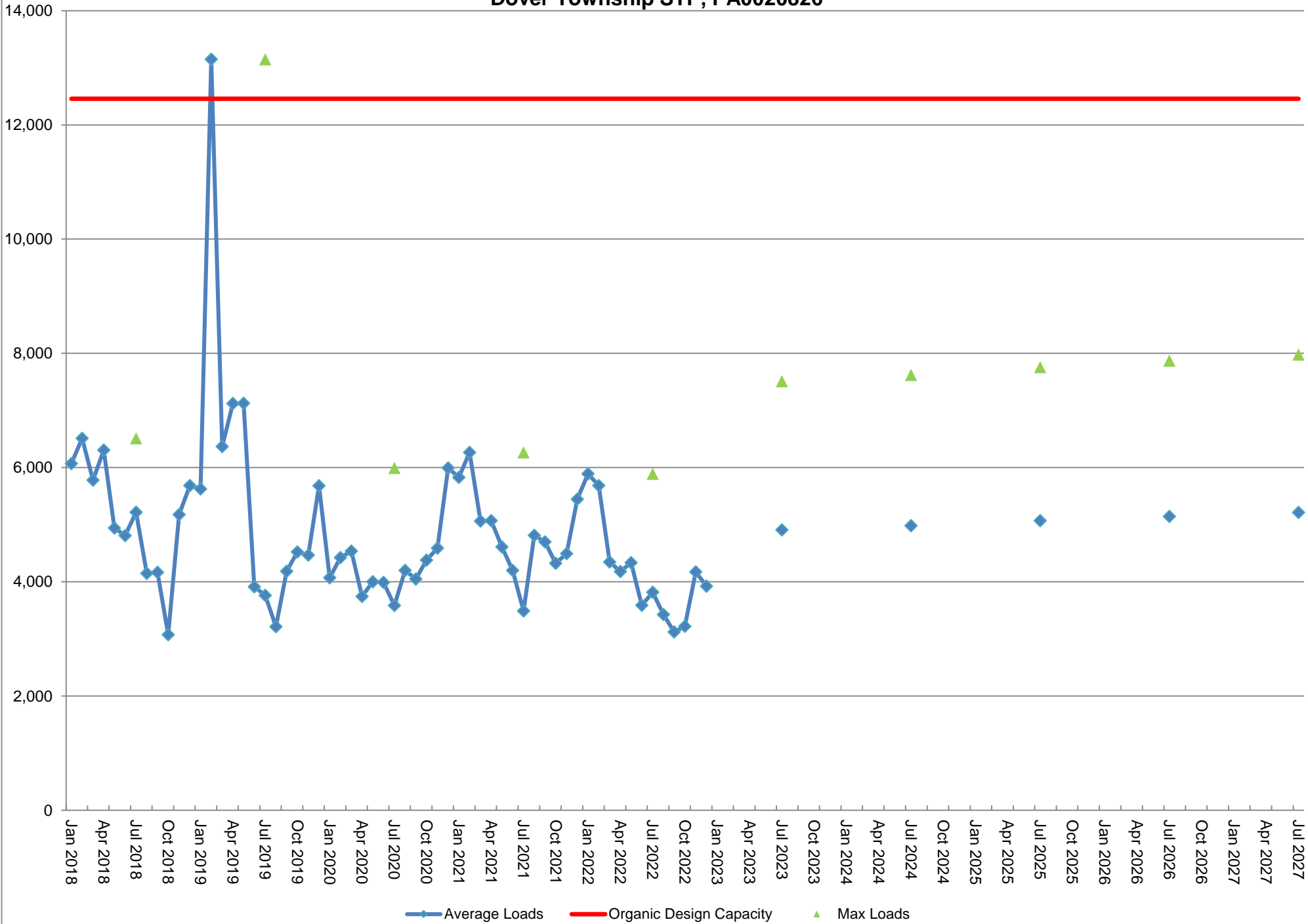
Month	2018	2019	2020	2021	2022
January	2.67	3.76	3.27	1.67	2.405
February	5.05	2.48	2.44	3.62	2.32
March	2.9	4.85	3.58	2.55	2.25
April	4.23	2.73	4.08	1.9	3.1
May	4.64	5.9	2.53	3.24	6.13
June	4.69	3.64	3.7	1.8	2.44
July	11.59	5.05	2.81	4.04	2.83
August	6.63	2.49	5.6	9.2	1.75
September	6.58	0.96	1.75	10.4	3.7
October	2.15	6.68	2.79	2.76	3.81
November	7.38	1.79	2.88	1.19	2.62
December	5.35	3.89	3.2	0.065	3.77



# 5-Year Measured and Projected Hydraulic Loads Dover Township STP, PA0020826



### 5-Year Measured and Projected Organic Loads Dover Township STP, PA0020826



# 2022 ORGANIC OVERLOAD NARRATIVE

There was no organic overload in 2022 as demonstrated in the Chapter 94 spreadsheet.

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Reporting Year:

Facility Name:

Permit No.:

Persons/EDU:

Existing Hydraulic Design Capacity:  MGD  
 Upgrade Planned in Next 5 Years?  Year:   
 Future Hydraulic Design Capacity:  MGD

Existing Organic Design Capacity:  lbs BOD5/day  
 Upgrade Planned in Next 5 Years?  Year:   
 Future Organic Design Capacity:  lbs BOD5/day

**Monthly Average Flows for Past Five Years (MGD)**

Month	2018	2019	2020	2021	2022
January	3.993	8.074	4.832	4.564	3.921
February	8.775	7.727	4.627	5.645	4.785
March	5.855	8.467	4.052	5.916	3.931
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Proj. Max 3-Mo Avg	6.226	6.321	6.431	6.527	6.616
Proj. Overload?	NO	NO	NO	NO	NO

**Monthly Average BOD5 Loads for Past Five Years (lbs/day)**

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May	4,941	7,125	4,000	4,610	4,336
June	4,809	3,911	3,987	4,199	3,588
July	5,216	3,760	3,583	3,490	3,817
August	4,147	3,213	4,200	4,813	3,426
September	4,167	4,185	4,047	4,698	3,122
October	3,074	4,522	4,379	4,324	3,222
November	5,175	4,467	4,587	4,494	4,171
December	5,683	5,681	5,993	5,445	3,922

Annual Avg	5,157	5,761	4,296	4,858	4,142
Max Mo Avg	6,511	13,149	5,993	6,267	5,890
Max : Avg Ratio	1.26	2.28	1.40	1.29	1.42
Existing EDUs	14,358	14,478	14,629	14,781	14,954
Load/EDU	0.359	0.398	0.294	0.329	0.277
Load/Capita	0.103	0.114	0.084	0.094	0.079
Exist. Overload?	NO	YES	NO	NO	NO

**Projected BOD5 Loads for Next Five Years (lbs/day)**

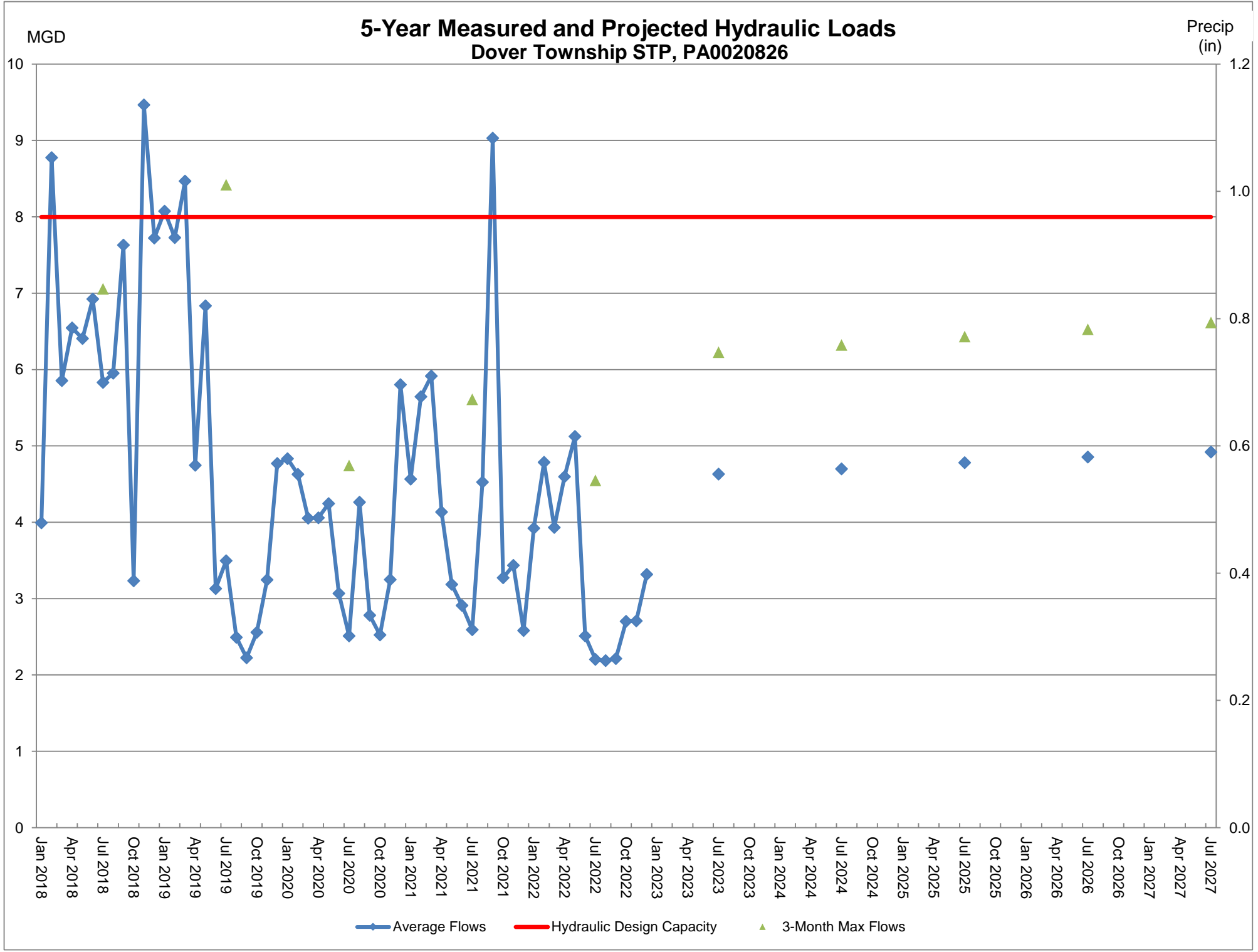
	2023	2024	2025	2026	2027
New EDUs	195	224	262	229	210
New EDU Load	64.598	74.205	86.794	75.862	69.568
Proj. Annual Avg	4,907	4,982	5,068	5,144	5,214
Proj. Max Avg	7,510	7,624	7,757	7,873	7,979
Proj. Overload?	NO	NO	NO	NO	NO

Show Precipitation Data on Hydraulic Graph?

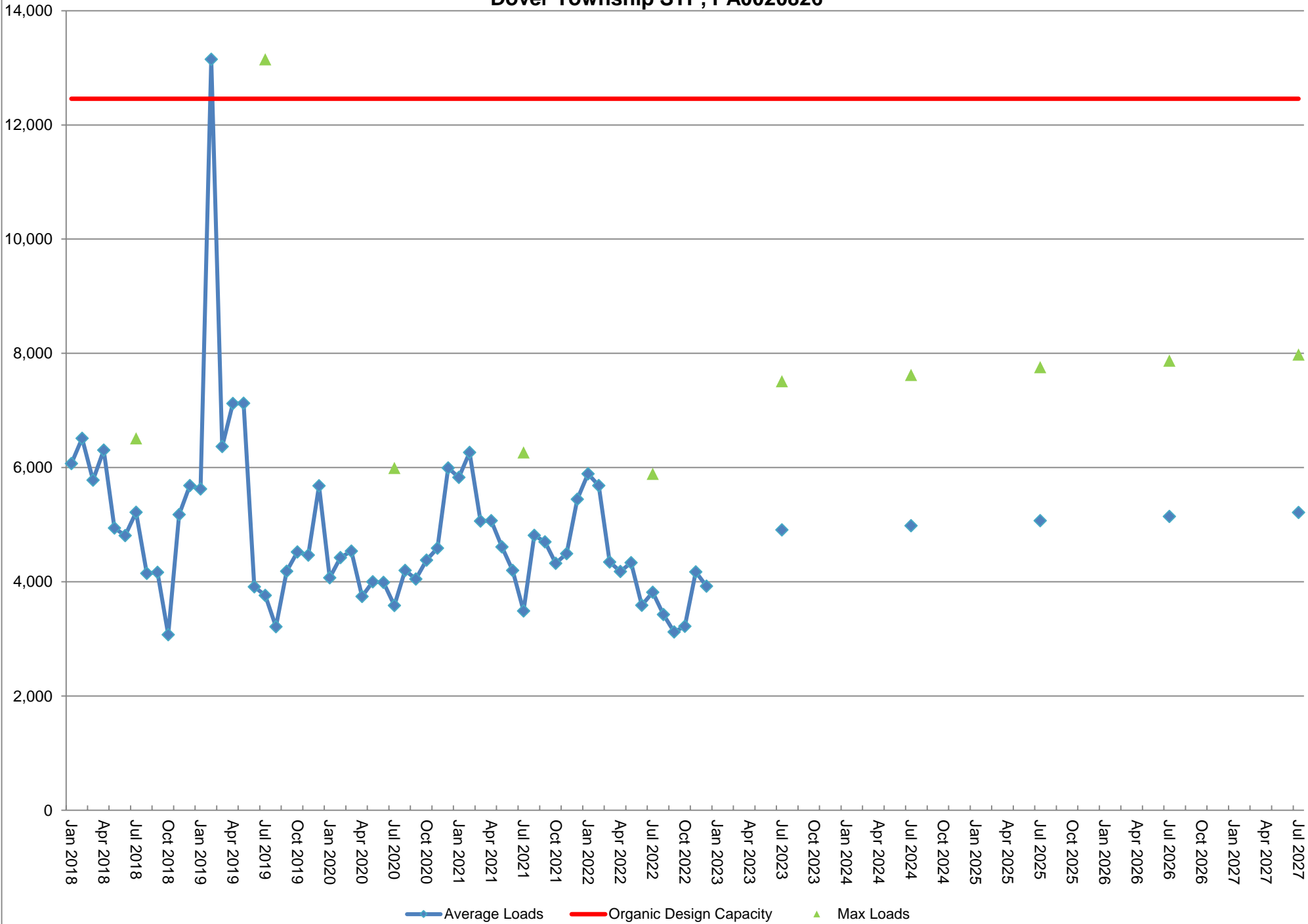
**Total Monthly Precipitation for Past Five Years (Inches)**

Month	2018	2019	2020	2021	2022
January	2.67	3.76	3.27	1.67	2.405
February	5.05	2.48	2.44	3.62	2.32
March	2.9	4.85	3.58	2.55	2.25
April	4.23	2.73	4.08	1.9	3.1
May	4.64	5.9	2.53	3.24	6.13
June	4.69	3.64	3.7	1.8	2.44
July	11.59	5.05	2.81	4.04	2.83
August	6.63	2.49	5.6	9.2	1.75
September	6.58	0.96	1.75	10.4	3.7
October	2.15	6.68	2.79	2.76	3.81
November	7.38	1.79	2.88	1.19	2.62
December	5.35	3.89	3.2	0.065	3.77

# 5-Year Measured and Projected Hydraulic Loads Dover Township STP, PA0020826



### 5-Year Measured and Projected Organic Loads Dover Township STP, PA0020826







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**SUPPLEMENTAL REPORT  
SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL**

Facility Name: Dover Township STP  
Municipality: Conewago Township County: York  
Watershed: 7-F

Month: June Year: 2022  
NPDES Permit No.: \_\_\_\_\_  
Renewal application due 180 days prior to expiration  
This permit will expire on: June 30, 2022

**SEWAGE SLUDGE / BIOSOLIDS PRODUCTION INFORMATION (Identify each off-site removal event and incineration event)**

Check here if there were no off-site removal events during the month

Date	Liquid Sewage Sludge/Biosolids			Dewatered Sewage Sludge/Biosolids			Sewage Sludge/Biosolids		
	Hauled Off-site			Hauled Off-site			Dewatered and Incinerated On-site		
	Gallons	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons
6/9/22				23.28	20.91	4.87			
6/10/22				23.86	20.91	4.99			
6/14/22				22.50	20.91	4.70			
6/14/22				23.13	20.91	4.84			
6/15/22				23.43	20.91	4.90			
6/15/22				23.71	20.91	4.96			
6/21/22				23.58	20.91	4.93			
6/21/22				23.87	20.91	4.99			
6/22/22				23.80	20.91	4.98			
6/22/22				24.41	20.91	5.10			
6/23/22				22.98	20.91	4.81			
6/27/22				24.05	20.91	5.03			
6/30/22				23.11	20.91	4.83			
6/30/22				23.98	20.91	5.01			

TOTAL:

TOTAL:

**68.938**

TOTAL:

**SEWAGE SLUDGE / BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION**

(Identify all sites where biosolids or ash were disposed or land applied)

Site Name	Barbara Mellott	Barbara Mellot	Jeff Mowrer	Jeff Mowrer
Municipality	Licking Creek	Licking Creek	Centre/Savile/Spring	Centre/Savile/Spring
County	Fulton	Fulton	Perry	Perry
DEP Permit No.	PA-FU-00019-0-0013	PA-FU-00019-0-0001	PA-PE-00001-0-0006-B	PA-PE-00001-0-0003
Type of Material*	biosolids	biosolids	biosolids	biosolids
Dry Tons Applied/Disposed	4.87	9.86	9.92	9.84
Type of Disposal/Use*	agricultural utilization	agricultural utilization	agricultural utilization	agricultural utilization
Hauler Name	Synagro	Synagro	Synagro	Synagro

\* See Instructions for explanation.

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: Christian L. Jordan  
Title: Superintendent

License No.: S17213  
Date: July 21, 2022





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- 4 Report sewage sludge, biosolids and ash disposal and beneficial use information by disposal/application site. There are columns for four possible sites per month - if more sites are needed, it is suggested that you create a new worksheet to add sites (right click on worksheet tab, select Move or Copy, and copy into the same spreadsheet). For each Site Name, listed at the top of the column, enter the Municipality and County of the site, the DEP Permit No. (i.e., Biosolids permit number for land application, landfill waste management permit number, etc.), Type of Material (sewage sludge, biosolids or incinerator ash), Dry Tons Applied/Disposed at the site for the month, Type of Disposal/Use (e.g., reed beds, agricultural utilization, composting, landfill, other treatment plant, etc.) and the name of the hauler (company or individual name).
- 5 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.



## INSTRUCTIONS FOR COMPLETING SEWAGE SLUDGE / BIOSOLIDS SUPPLEMENTAL REPORT

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

### Biosolids Production Information

- 2 For each off-site removal event for liquid sewage sludge or biosolids and for dewatered sewage sludge or biosolids, and for each event where dewatered sewage sludge or biosolids are incinerated on-site, list the date of the event, identify the gallons (liquid) or tons (dewatered) removed or incinerated and the percent solids (without moving the decimal point, e.g., 10, 20, etc.). Dry tons is automatically calculated. If more rows are needed to document removal or incineration events, you should insert more rows in the spreadsheet. Report only sewage sludge or biosolids that have been removed from the plant digesters and other solids which have been **permanently** removed from the treatment process. Do **not** include sewage sludge or biosolids from other facilities that are processed at your facility. (If there were no off-site removal events during the month, check the box above the table).
- 3 The % Solids of liquid or dewatered sewage sludge or biosolids must be determined periodically through laboratory testing. Do not estimate or guess this value. An acceptable test method is method 2540B in Standard Methods for the Examination of Water and Wastewater, 18th edition, where samples are dried at 103-105°C. Other standard methods may be acceptable.

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- 5 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.



## INSTRUCTIONS FOR COMPLETING SEWAGE SLUDGE / BIOSOLIDS SUPPLEMENTAL REPORT

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

### Biosolids Production Information

- 2 For each off-site removal event for liquid sewage sludge or biosolids and for dewatered sewage sludge or biosolids, and for each event where dewatered sewage sludge or biosolids are incinerated on-site, list the date of the event, identify the gallons (liquid) or tons (dewatered) removed or incinerated and the percent solids (without moving the decimal point, e.g., 10, 20, etc.). Dry tons is automatically calculated. If more rows are needed to document removal or incineration events, you should insert more rows in the spreadsheet. Report only sewage sludge or biosolids that have been removed from the plant digesters and other solids which have been **permanently** removed from the treatment process. Do **not** include sewage sludge or biosolids from other facilities that are processed at your facility. (If there were no off-site removal events during the month, check the box above the table).
- 3 The % Solids of liquid or dewatered sewage sludge or biosolids must be determined periodically through laboratory testing. Do not estimate or guess this value. An acceptable test method is method 2540B in Standard Methods for the Examination of Water and Wastewater, 18th edition, where samples are dried at 103-105°C. Other standard methods may be acceptable.

### Biosolids and Incinerator Ash Disposal and Beneficial Use Information

- 4 Report sewage sludge, biosolids and ash disposal and beneficial use information by disposal/application site. There are columns for four possible sites per month - if more sites are needed, it is suggested that you create a new worksheet to add sites (right click on worksheet tab, select Move or Copy, and copy into the same spreadsheet). For each Site Name, listed at the top of the column, enter the Municipality and County of the site, the DEP Permit No. (i.e., Biosolids permit number for land application, landfill waste management permit number, etc.), Type of Material (sewage sludge, biosolids or incinerator ash), Dry Tons Applied/Disposed at the site for the month, Type of Disposal/Use (e.g., reed beds, agricultural utilization, composting, landfill, other treatment plant, etc.) and the name of the hauler (company or individual name).
- 5 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.



Select Parameters and Stages (Monitoring Locations) and Enter Limits Contained in Your Permit

(Note - Flow is assumed. If it does not apply, please ignore).

Outfall No. \_\_\_\_\_

PARAMETER / STAGE		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			
		LOAD 1	LOAD 2	UNITS	CONC 1	CONC 2	CONC 3	UNITS
Flow (50050)	LIMIT	Report						
Final Effluent (1)	STATISTICAL CODE	Average Monthly		MGD	*****	*****	*****	*****
Fecal Coliform (74055)	LIMIT					200	1000	
Final Effluent (1)	STATISTICAL CODE					Geometric Mean	Daily Maximum	CFU/100 ml
BOD5 (310)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Total Suspended Solids (530)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Dissolved Oxygen (300)	LIMIT				5.0			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			mg/L
pH (400)	LIMIT				6.0		9.0	
Final Effluent (1)	STATISTICAL CODE				Daily Minimum		Daily Maximum	S.U.
CBOD5 (80082)	LIMIT	667	1000			10	15	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Suspended Solids (530)	LIMIT	2000	3000			30	45	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Phosphorus (665)	LIMIT	133				2.0		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Ammonia-Nitrogen (610)	LIMIT	100				1.5		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Total Kjeldahl Nitrogen (625)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Nitrate-Nitrite as N (630)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Total Nitrogen (600)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
UV Intensity (49607)	LIMIT				Report			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			%
	LIMIT							
	STATISTICAL CODE							



**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

Facility Name: Dover Township STP  
Municipality: Conewago Township County: York  
Watershed: 7-F  
Laboratories: on site Dover Township STP Laboratory

Month: 1 (select number) Year: 2022  
Permit No.: PA0020826 Outfall: 001  
Renewal application due 180 days prior to expiration.  
This permit will expire on: June 30, 2022

Week	Day	Date	Flow	Fecal Coliform	BOD5	TSS	Dissolved Oxygen	pH	CBOD5	TSS	Total Phosphorus	NH3-N	TKN	NO2-N + NO3-N	Total Nitrogen	UV Intensity		
			1	1	RI	RI	1	1	1	1	1	1	1	1	1	1	1	1
Stage			MGD	CFU/100 ml	mg/L	mg/L	mg/L	S.U.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	%	
1	Sat	1/1/22	3.453				8.17	6.5								100.0		
1	Sun	1/2/22	5.317		233.0	268.0	7.85	6.68	< 2.0	< 2.0	0.768	0.401		1.43	2.62	4.05	100.0	
	Mon	1/3/22	3.815				8.47	6.86									100.0	
	Tue	1/4/22	3.407	6.0	131.0	146.0	8.64	6.56	< 2.0	< 2.0	0.911	1.394	2.53	2.08	4.61	95.5		
	Wed	1/5/22	3.329	5.0	116.0	164.0	8.64	6.35	< 2.0	< 2.0	0.105	< 0.016	0.75	4.64	5.39	100.0		
	Thu	1/6/22	3.195	7.0	131.0	144.0	8.64	6.39	< 2.0	< 2.0	0.058	0.016	0.86	5.9	6.76	100.0		
	Fri	1/7/22	3.296		192.0	356.0	8.9	6.37	< 2.0	< 2.0	0.104	< 0.016	0.73	6.53	7.26	100.0		
	Sat	1/8/22	3.214				8.91	6.23								100.0		
2	Sun	1/9/22	3.66		154.0	92.0	8.95	6.57	< 2.0	< 2.0	0.448	< 0.016	0.67	9.09	9.76	100.0		
	Mon	1/10/22	3.957	2.0	182.0	198.0	8.78	6.3	< 2.0	< 2.0	0.623	0.066	1.03	9.31	10.34	100.0		
	Tue	1/11/22	3.553	3.0			9.33	6.27								100.0		
	Wed	1/12/22	3.5				8.81	6.24								100.0		
	Thu	1/13/22	3.443	2.0	175.0	180.0	8.89	6.45	< 2.0	< 2.0	0.7	< 0.016	0.71	7.99	8.7	100.0		
	Fri	1/14/22	3.388		207.0	172.0	8.93	6.65	< 2.0	< 2.0	0.981	< 0.016	0.78	7.82	8.6	100.0		
	Sat	1/15/22	3.403		199.0	204.0	8.98	6.69	< 2.0	< 2.0	1.034	< 0.016	0.71	7.32	8.03	100.0		
3	Sun	1/16/22	3.345				9.38	6.82								99.88		
	Mon	1/17/22	6.29	1620.0	255.0	252.0	7.77	6.72	< 2.0	< 2.0	1.64	< 0.016	0.84	7.0	7.84	100.0		
	Tue	1/18/22	5.044	5584.0	101.0	168.0	8.17	6.34	3.0	6.0	1.957	3.871	5.21	0.63	5.84	20.81		
	Wed	1/19/22	4.62	24.0	169.0	104.0	8.28	6.7	2.0	5.0	1.45	5.8	5.64	0.09	5.73	100.0		
	Thu	1/20/22	5.717	18.0	171.0	128.0	8.09	6.54	2.0	< 2.0	1.174	5.365	6.25	0.1	6.35	22.11		
	Fri	1/21/22	4.848				8.41	6.31								35.66		
	Sat	1/22/22	4.558		68.0	148.0	9.55	6.8	3.0	8.0	1.144	6.763	7.89	0.09	7.98	77.78		
4	Sun	1/23/22	4.502				9.91	6.65								56.86		
	Mon	1/24/22	4.141	20.0	300.0	316.0	9.5	6.59	2.0	4.0	1.43	8.242	9.24	< 0.06	9.3	48.38		
	Tue	1/25/22	3.938	10.0	143.0	124.0	9.74	6.75	< 2.0	2.0	0.91	8.818	10.64	< 0.06	10.7	0.0		
	Wed	1/26/22	3.759				9.02	6.34								53.07		
	Thu	1/27/22	3.536	5.0	183.0	180.0	9.67	6.42	< 2.0	< 2.0	0.055	0.308	1.03	2.66	3.69	100.0		
	Fri	1/28/22	3.432		149.0	208.0	9.54	6.51	< 2.0	< 2.0	< 0.047	0.018	0.63	4.25	4.88	100.0		
	Sat	1/29/22	3.51		195.0	168.0	9.37	6.51	< 2.0	< 2.0	< 0.047	< 0.016	0.62	5.49	6.11	100.0		
5	Sun	1/30/22	3.393				9.18	6.33								100.0		
	Mon	1/31/22	2.981	2.0	206.0	253.0	10.34	6.47	< 2.0	< 2.0	0.055	0.103	0.82	5.66	6.48	100.0		
<b>Statistics for DMR</b>																		
	Daily Minimum (Conc.):			2	68	92	7.77	6.23	< 2	< 2	< 0.047	< 0.016	0.62	< 0.06	3.69	0		
	Daily Maximum (Conc.):			5584	300	356	10.34	6.86	3	8	1.957	8.818	10.64	9.31	10.7	100		
	Max Avg Weekly (Conc.):			194	216	216	9.54		< 2	< 5	1.473	< 4.363	5.17	8.31	9.09	100		
	Avg Monthly (Conc.):			174	189	189	8.93		< 2	< 3	< 0.7	< 2.0	2.81	< 4.26	7.07	84.2		
	Geometric Mean (Conc.):			15														
	Max Avg Weekly (Load):		4.917		6975	7205	346		< 104	< 190	65	< 180	216	249	297			
	Avg Monthly (Load):		3.921		5890	6326	290		< 71	< 96	< 28	< 74	102	< 133	235			
	Total Monthly (Load):		121,544		182600	196110	8984		< 2191	< 2972	< 867	< 2288	3174	< 4125	7299			
	Daily Minimum (Load):		2.981		2585	2808	230		< 50	< 50	< 1	0.4	18	< 2	109			
	Daily Maximum (Load):		6.29		13377	13220	408		126	304	86	290	349	367	411			

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: Christian L. Jordan  
Title: Superintendent

License No.: S17213  
Date: 2/22/2022

## INSTRUCTIONS FOR COMPLETING DAILY EFFLUENT MONITORING SUPPLEMENTAL REPORT

This spreadsheet is used for recording daily sample results for effluent (although other stages can be selected), and includes DEP-approved calculations and handling of rounding and significant figures for reporting\*. The calculations are provided for convenience and do not automatically populate into online eDMR reports.

The recommended sequence of data entry is as follows: 1) Enter parameter names, units of measurement, and permit limits into the **Limits** worksheet, and 2) Enter daily monitoring results into the **Daily** worksheet (for each outfall). The statistics for DMR reporting are presented at the bottom of the Daily table. You may then manually enter the statistics results into the eDMR report.

### Limits Worksheet

1. Enter the Outfall Number from your permit or eDMR report.
2. In the column named "Parameter / Stage", select each parameter and its associated stage (monitoring location) from your permit or eDMR report that corresponds to the selected Outfall. Parameter names include the Parameter Code in parentheses. Common parameters are listed first, and then are listed alphabetically. Up to 30 parameters, including Flow, can be selected per Outfall. Stage names include the Stage Code in parentheses. Codes are shown to help you match your selections with the eDMR data entry screen. In the event a parameter or stage on your eDMR report is not available, please contact DEP at (717) 787-6744. It is assumed that Flow - Final Effluent is in your permit. This assumption is necessary for loading calculations, where applicable. If you are not required to measure flow in your permit for the outfall, please ignore it. If you are required to monitor a bacterial parameter (e.g., Fecal Coliform), it is recommended that you select this parameter immediately below "Flow" as explained below (No. 3, Daily Effluent Monitoring Worksheet).
3. Paper and electronic DMRs contain five columns or fields for data entry. In the Limits worksheet, the columns are named "Load 1", "Load 2", "Conc 1", "Conc 2", and "Conc 3". Enter permit limit values in the row for "LIMIT" and the appropriate column. If there is a "Monitor & Report" requirement only, type "Report". If there is no limit or monitoring required for the column, leave it blank. You can also select Statistical Codes from the lists below each limit field, though this is not required.
4. If you have entered a limit value for either Load 1 or Load 2 for a parameter, you must select a value for Units in the "Quantity or Loading" column. If you have entered a limit value for either Conc 1, Conc 2 or Conc 3 for a parameter, you must select a value for Units in the "Quality or Concentration" column. If a parameter does not, for example, have a limit value (including "Report") for Load 1 or Load 2, the Units value may remain blank.

### Daily Worksheet

1. Enter Facility Name, Municipality, County (select from list), Watershed No., Month (select number from list), Year (select from list), Permit No., and Permit Expiration Date (leave blank if not applicable). Also, report all laboratories where samples were analyzed during the month, including on-site analysis.
2. The first week of each month begins on a Sunday and the last week of each month ends on a Saturday. The Week column identifies the start of each weekly period for the purpose of computing weekly statistics. The full calendar month is used for calculating monthly statistics. Days and dates are automatically populated following your entry of the numeric Month and Year in Step 1. If the permit does not contain a weekly statistical reporting requirement for a parameter, do not enter data outside of the calendar month. For example, if you must report minimum and maximum pH measurements (but not weekly average), enter data beginning on the first day of the month and ending on the last day of the month. If, for example, you have a weekly average limit for CBOD<sub>5</sub>, and if samples were collected on any date shown on the form that is outside the calendar month, enter the results.

3. Parameters (abbreviated), stages (stage code), and units will be displayed in the order selected on the Limits worksheet. The Qualifier ("Q") columns allow you to select the "<" symbol. In addition, the first "Q" column to the right of Flow allows you to select the "<" symbol as well as the ">" symbol. By policy, DEP accepts the use of the ">" symbol only for bacterial results. Therefore, if you have a bacterial parameter in your permit, it is recommended that you select it after Flow in the Limits worksheet.
4. On each day in which a sample is collected for analysis, enter the result in the column corresponding to the parameter analyzed. **Enter the result exactly as reported by the laboratory or determined by on-site equipment.** If the result is reported as a "non-detect" result, enter the laboratory's reporting limit for the result and select the "less than" (<) symbol from the lists in the "Q" columns. For bacteria, if the result is "0", enter "1".
5. Statistics are computed at the bottom of the form. If a limit value exists for the statistic, the decimal places of the statistic will match that of the limit. If a limit value does not exist, the statistic will present the maximum number of decimal places from the reported results. Note - for maximum weekly average results, week 5 is not included in the results unless week 5 is a full week (7 days).
6. Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**Notes:**

1. In the Daily worksheet, the pane has been "frozen" so that pertinent information can be viewed at all times. You can "unfreeze" the panes at any time by clicking on Window - Unfreeze Panes (Excel 2003) or select the "View" tab from the "Windows" group, choose "Freeze Panes", and select "Unfreeze Panes" from the pop-up (Excel 2007).
2. If your permit contains limits in terms of micrograms, nanograms or picograms per liter ( $\mu\text{g/l}$ ,  $\text{ng/l}$  or  $\text{pg/l}$ ), please convert this to  $\text{mg/l}$  for entry into the Limits worksheet.
3. Chesapeake Bay nutrient parameters for Total Monthly Loading statistics (e.g., Total Nitrogen, parameter code 51445) cannot be selected on the Limits worksheet. However, you can select the concentration-based parameter that is equivalent (e.g., Total Nitrogen, parameter code 600), enter flows and concentration values, and Total Monthly Loading statistics will be calculated.
4. If you have a requirement to report on the functioning of your ultraviolet disinfection (UV) system (i.e., "UV Functional" parameter), you should select units of "Y/N" in the Limits worksheet and report values of "1" for Yes (UV Functional) and "< 1" for No (UV Not Functional) in the Daily worksheet.

*\* All attempts have been made in developing this spreadsheet to follow procedures contained in "Discharge Monitoring Reports Overview and Summary" (3800-BK-DEP3047). Please check the Supplemental Forms website for updates to this spreadsheet periodically and contact DEP at 717-787-2137 with questions. If your permit requires that you follow different procedures, you must follow your permit.*

Select Parameters and Stages (Monitoring Locations) and Enter Limits Contained in Your Permit

(Note - Flow is assumed. If it does not apply, please ignore).

Outfall No. \_\_\_\_\_

PARAMETER / STAGE		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			
		LOAD 1	LOAD 2	UNITS	CONC 1	CONC 2	CONC 3	UNITS
Flow (50050)	LIMIT	Report						
Final Effluent (1)	STATISTICAL CODE	Average Monthly		MGD	*****	*****	*****	*****
Fecal Coliform (74055)	LIMIT					2000	10000	
Final Effluent (1)	STATISTICAL CODE					Geometric Mean	Daily Maximum	CFU/100 ml
BOD5 (310)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Total Suspended Solids (530)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Dissolved Oxygen (300)	LIMIT				5.0			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			mg/L
pH (400)	LIMIT				6.0		9.0	
Final Effluent (1)	STATISTICAL CODE				Daily Minimum		Daily Maximum	S.U.
CBOD5 (80082)	LIMIT	1334	2000			20	30	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Suspended Solids (530)	LIMIT	2000	3000			30	45	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Phosphorus (665)	LIMIT	133				2.0		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Ammonia-Nitrogen (610)	LIMIT	300				4.5		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Total Kjeldahl Nitrogen (625)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Nitrate-Nitrite as N (630)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Total Nitrogen (600)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
UV Intensity (49607)	LIMIT				Report			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			%
	LIMIT							
	STATISTICAL CODE							



**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

3800-FM-BCW0435 3/2012

Facility Name: Dover Township STP  
Municipality: Conewago Township County: York  
Watershed: 7-F  
Laboratories: on site Dover Township STP Laboratory

Month: 2 (select number) Year: 2022  
Permit No.: PA0020826 Outfall: 001  
Renewal application due 180 days prior to expiration.  
This permit will expire on: June 30, 2022

Week	Day	Date	Flow	Fecal Coliform	BOD5	TSS	Dissolved Oxygen	pH	CBOD5	TSS	Total Phosphorus	NH3-N	TKN	NO2-N + NO3-N	Total Nitrogen	UV Intensity												
			1	1	RI	RI	1	1	1	1	1	1	1	1	1	1	1	1	1									
			MGD	q	CFU/100 ml	q	mg/L	q	mg/L	q	mg/L	q	mg/L	q	mg/L	q	mg/L	q										
1	Sun	1/30/22	3.393					9.18		6.33							100.0											
	Mon	1/31/22	2.981	2.0	206.0	253.0	10.34	6.47	<	2.0	<	2.0	0.055	<	0.016	0.82	5.66	6.48	100.0									
	Tue	2/1/22	2.871	2.0			10.2	6.3											100.0									
	Wed	2/2/22	2.882	<	1.0	234.0	220.0	9.48	6.56	<	2.0	<	2.0	0.049	0.016	0.64	4.72	5.36	100.0									
	Thu	2/3/22	5.18		173.0	208.0	9.12	6.52	<	2.0	<	2.0	0.059	<	0.016	0.64	5.21	5.85	99.88									
	Fri	2/4/22	10.587		149.0	236.0	6.95	6.44	<	2.0	<	2.0	0.511	1.136	2.14	4.37	6.51		18.5									
	Sat	2/5/22	8.281		<	67.0	76.0	10.16	6.59		13.0		47.0	2.155	4.132	8.13	2.93	11.06	49.61									
2	Sun	2/6/22	6.274				8.37	6.55											52.73									
	Mon	2/7/22	4.947				9.24	6.33											53.4									
	Tue	2/8/22	4.624	596.0	103.0	162.0	9.54	6.2		3.0		4.0	0.287	6.656	6.71	1.29	8.0	68.31										
	Wed	2/9/22	4.443	3.0	114.0	134.0	8.97	6.61	<	2.0	<	2.0	0.07	2.947	3.55	0.26	3.81	100.0										
	Thu	2/10/22	4.35	2.0	134.0	136.0	9.74	6.33	<	2.0	<	2.0	0.079	0.886	1.42	2.93	4.35	100.0										
	Fri	2/11/22	4.171		130.0	136.0	9.04	6.34	<	2.0	<	2.0	0.062	0.031	0.59	4.74	5.33	100.0										
	Sat	2/12/22	4.125		131.0	146.0	9.75	6.51	<	2.0		2.0	0.057	<	0.016	0.57	5.34	5.91	44.63									
3	Sun	2/13/22	4.113				9.38	6.43											37.04									
	Mon	2/14/22	3.867	<	1.0	183.0	134.0	9.39	6.92	<	2.0	<	2.0	0.063	0.043	0.48	5.39	5.87	99.09									
	Tue	2/15/22	3.506		130.0	140.0	9.64	6.35	<	2.0	<	4.0	0.055	<	0.016	0.69	6.26	6.95	87.71									
	Wed	2/16/22	3.431		2.0	124.0	164.0	9.47	6.5	<	2.0	<	2.0	0.099	<	0.016	0.64	6.93	7.57	53.28								
	Thu	2/17/22	3.778	<	1.0		9.5	6.25											13.64									
	Fri	2/18/22	5.591		288.0	384.0	8.38	6.65	<	2.0		3.0	0.354	<	0.016	0.73	6.6	7.33	100.0									
	Sat	2/19/22	4.507		67.0	108.0	9.45	6.58	<	2.0	<	4.0	0.327	0.031	0.67	5.79	6.46	100.0										
4	Sun	2/20/22	4.15				9.63	6.53											100.0									
	Mon	2/21/22	3.921				9.87	6.35											100.0									
	Tue	2/22/22	3.923	5.0	193.0	180.0	9.38	6.6	<	2.0		2.0	0.407	0.016	0.71	5.89	6.6	100.0										
	Wed	2/23/22	4.065	4.0	95.0	168.0	9.43	6.21	<	2.0	<	2.0	0.604	0.095	0.67	6.03	6.7	100.0										
	Thu	2/24/22	3.809	1.0	165.0	168.0	9.42	6.61	<	2.0	<	2.0	0.831	0.032	0.831	5.93	6.59	100.0										
	Fri	2/25/22	6.263		145.0	150.0	9.06	6.64	<	2.0	<	2.0	0.884	0.046	0.71	6.17	6.88	100.0										
	Sat	2/26/22	6.235		95.0	132.0	9.15	6.61	<	2.0		4.0	0.87	1.763	2.72	3.32	6.04	100.0										
5	Sun	2/27/22	5.386				9.46	6.25											100.0									
	Mon	2/28/22	4.695	3.0	108.0	244.0	9.26	6.56	<	2.0		2.0	0.369	0.453	1.23	4.72	5.95	100.0										
<b>Statistics for DMR</b>																												
Daily Minimum (Conc.):			<	1	<	67		76		6.95		6.2	<	2	<	2		0.049	<	0.016		0.48		0.26		3.81		13.64
Daily Maximum (Conc.):				596		288		384		10.2		6.92		13		47		2.155		6.656		8.13		6.93		11.06		100
Max Avg Weekly (Conc.):					<	166		199		9.42		<	4	<	12		0.719	<	2.107		2.57		6.19		7.05		100	
Avg Monthly (Conc.):					<	141		171		9.3		<	3	<	5		0.4	<	0.9		1.72		4.74		6.46		81.35	
Geometric Mean (Conc.):			<	3																								
Max Avg Weekly (Load):			5.168		<	7201		9330		385		<	252	<	774		40	<	80		163		216		376			
Avg Monthly (Load):			4.785		<	5684		7125		366		<	122	<	269		21	<	45		84		189		273			
Total Monthly (Load):			133.975		<	159161		199512		10245		<	3419	<	7529		588	<	1270		2355		5302		7657			
Daily Minimum (Load):			2.871			2518		4060		228		<	48	<	48		1		0.4		15		10		129			
Daily Maximum (Load):			10.587			13429		20838		702			898		3246		149		285		561		386		764			

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: Christian L. Jordan  
Title: Superintendent

License No.: S17213  
Date: 16-Mar-22



## INSTRUCTIONS FOR COMPLETING DAILY EFFLUENT MONITORING SUPPLEMENTAL REPORT

This spreadsheet is used for recording daily sample results for effluent (although other stages can be selected), and includes DEP-approved calculations and handling of rounding and significant figures for reporting\*. The calculations are provided for convenience and do not automatically populate into online eDMR reports.

The recommended sequence of data entry is as follows: 1) Enter parameter names, units of measurement, and permit limits into the **Limits** worksheet, and 2) Enter daily monitoring results into the **Daily** worksheet (for each outfall). The statistics for DMR reporting are presented at the bottom of the Daily table. You may then manually enter the statistics results into the eDMR report.

### Limits Worksheet

1. Enter the Outfall Number from your permit or eDMR report.
2. In the column named "Parameter / Stage", select each parameter and its associated stage (monitoring location) from your permit or eDMR report that corresponds to the selected Outfall. Parameter names include the Parameter Code in parentheses. Common parameters are listed first, and then are listed alphabetically. Up to 30 parameters, including Flow, can be selected per Outfall. Stage names include the Stage Code in parentheses. Codes are shown to help you match your selections with the eDMR data entry screen. In the event a parameter or stage on your eDMR report is not available, please contact DEP at (717) 787-6744. It is assumed that Flow - Final Effluent is in your permit. This assumption is necessary for loading calculations, where applicable. If you are not required to measure flow in your permit for the outfall, please ignore it. If you are required to monitor a bacterial parameter (e.g., Fecal Coliform), it is recommended that you select this parameter immediately below "Flow" as explained below (No. 3, Daily Effluent Monitoring Worksheet).
3. Paper and electronic DMRs contain five columns or fields for data entry. In the Limits worksheet, the columns are named "Load 1", "Load 2", "Conc 1", "Conc 2", and "Conc 3". Enter permit limit values in the row for "LIMIT" and the appropriate column. If there is a "Monitor & Report" requirement only, type "Report". If there is no limit or monitoring required for the column, leave it blank. You can also select Statistical Codes from the lists below each limit field, though this is not required.
4. If you have entered a limit value for either Load 1 or Load 2 for a parameter, you must select a value for Units in the "Quantity or Loading" column. If you have entered a limit value for either Conc 1, Conc 2 or Conc 3 for a parameter, you must select a value for Units in the "Quality or Concentration" column. If a parameter does not, for example, have a limit value (including "Report") for Load 1 or Load 2, the Units value may remain blank.

### Daily Worksheet

1. Enter Facility Name, Municipality, County (select from list), Watershed No., Month (select number from list), Year (select from list), Permit No., and Permit Expiration Date (leave blank if not applicable). Also, report all laboratories where samples were analyzed during the month, including on-site analysis.
2. The first week of each month begins on a Sunday and the last week of each month ends on a Saturday. The Week column identifies the start of each weekly period for the purpose of computing weekly statistics. The full calendar month is used for calculating monthly statistics. Days and dates are automatically populated following your entry of the numeric Month and Year in Step 1. If the permit does not contain a weekly statistical reporting requirement for a parameter, do not enter data outside of the calendar month. For example, if you must report minimum and maximum pH measurements (but not weekly average), enter data beginning on the first day of the month and ending on the last day of the month. If, for example, you have a weekly average limit for CBOD<sub>5</sub>, and if samples were collected on any date shown on the form that is outside the calendar month, enter the results.

3. Parameters (abbreviated), stages (stage code), and units will be displayed in the order selected on the Limits worksheet. The Qualifier ("Q") columns allow you to select the "<" symbol. In addition, the first "Q" column to the right of Flow allows you to select the "<" symbol as well as the ">" symbol. By policy, DEP accepts the use of the ">" symbol only for bacterial results. Therefore, if you have a bacterial parameter in your permit, it is recommended that you select it after Flow in the Limits worksheet.
4. On each day in which a sample is collected for analysis, enter the result in the column corresponding to the parameter analyzed. **Enter the result exactly as reported by the laboratory or determined by on-site equipment.** If the result is reported as a "non-detect" result, enter the laboratory's reporting limit for the result and select the "less than" (<) symbol from the lists in the "Q" columns. For bacteria, if the result is "0", enter "1".
5. Statistics are computed at the bottom of the form. If a limit value exists for the statistic, the decimal places of the statistic will match that of the limit. If a limit value does not exist, the statistic will present the maximum number of decimal places from the reported results. Note - for maximum weekly average results, week 5 is not included in the results unless week 5 is a full week (7 days).
6. Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**Notes:**

1. In the Daily worksheet, the pane has been "frozen" so that pertinent information can be viewed at all times. You can "unfreeze" the panes at any time by clicking on Window - Unfreeze Panes (Excel 2003) or select the "View" tab from the "Windows" group, choose "Freeze Panes", and select "Unfreeze Panes" from the pop-up (Excel 2007).
2. If your permit contains limits in terms of micrograms, nanograms or picograms per liter ( $\mu\text{g/l}$ ,  $\text{ng/l}$  or  $\text{pg/l}$ ), please convert this to  $\text{mg/l}$  for entry into the Limits worksheet.
3. Chesapeake Bay nutrient parameters for Total Monthly Loading statistics (e.g., Total Nitrogen, parameter code 51445) cannot be selected on the Limits worksheet. However, you can select the concentration-based parameter that is equivalent (e.g., Total Nitrogen, parameter code 600), enter flows and concentration values, and Total Monthly Loading statistics will be calculated.
4. If you have a requirement to report on the functioning of your ultraviolet disinfection (UV) system (i.e., "UV Functional" parameter), you should select units of "Y/N" in the Limits worksheet and report values of "1" for Yes (UV Functional) and "< 1" for No (UV Not Functional) in the Daily worksheet.

*\* All attempts have been made in developing this spreadsheet to follow procedures contained in "Discharge Monitoring Reports Overview and Summary" (3800-BK-DEP3047). Please check the Supplemental Forms website for updates to this spreadsheet periodically and contact DEP at 717-787-2137 with questions. If your permit requires that you follow different procedures, you must follow your permit.*

**Select Parameters and Stages (Monitoring Locations) and Enter Limits Contained in Your Permit**

(Note - Flow is assumed. If it does not apply, please ignore).

Outfall No. \_\_\_\_\_

PARAMETER / STAGE		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			
		LOAD 1	LOAD 2	UNITS	CONC 1	CONC 2	CONC 3	UNITS
Flow (50050)	LIMIT	Report						
Final Effluent (1)	STATISTICAL CODE	Average Monthly		MGD	*****	*****	*****	*****
Fecal Coliform (74055)	LIMIT					2000	10000	
Final Effluent (1)	STATISTICAL CODE					Geometric Mean	Daily Maximum	CFU/100 ml
BOD5 (310)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Total Suspended Solids (530)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Dissolved Oxygen (300)	LIMIT				5.0			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			mg/L
pH (400)	LIMIT				6.0		9.0	
Final Effluent (1)	STATISTICAL CODE				Daily Minimum		Daily Maximum	S.U.
CBOD5 (80082)	LIMIT	1334	2000			20	30	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Suspended Solids (530)	LIMIT	2000	3000			30	45	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Phosphorus (665)	LIMIT	133				2.0		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Ammonia-Nitrogen (610)	LIMIT	300				4.5		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Total Kjeldahl Nitrogen (625)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Nitrate-Nitrite as N (630)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Total Nitrogen (600)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
UV Intensity (49607)	LIMIT				Report			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			%
	LIMIT							
	STATISTICAL CODE							

**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

3800-FM-BCW0435 3/2012

Facility Name: Dover Township STP  
Municipality: Conewago Township County: York  
Watershed: 7-F  
Laboratories: on site Dover Township STP Laboratory

Month: 3 (select number) Year: 2022  
Permit No.: PA0020826 Outfall: 001  
Renewal application due 180 days prior to expiration.  
This permit will expire on: June 30, 2022

Week	Day	Date	Flow	Fecal Coliform	BOD5	TSS	Dissolved Oxygen	pH	CBOD5	TSS	Total Phosphorus	NH3-N	TKN	NO2-N + NO3-N	Total Nitrogen	UV Intensity				
			1	1	RI	RI	1	1	1	1	1	1	1	1	1	1	1	1	1	
Stage			MGD	CFU/100 ml	mg/L	mg/L	mg/L	S.U.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	%			
1	Sun	2/27/22	5.386				9.46	6.25									100.0			
	Mon	2/28/22	4.695	3.0	108.0	244.0	9.26	6.56	<	2.0	2.0	0.369	0.453	1.23	4.72	5.95	100.0			
	Tue	3/1/22	4.466	6.0	108.0	80.0	9.56	6.27	<	2.0	<	2.0	0.436	0.083	0.75	4.74	5.49	100.0		
	Wed	3/2/22	4.317				9.2	6.28										100.0		
	Thu	3/3/22	4.093	2.0	136.0	144.0	9.36	6.53	<	2.0	<	2.0	0.746	0.054	1.54	5.58	7.12	100.0		
	Fri	3/4/22	3.777		156.0	150.0	9.53	6.4	<	2.0	<	2.0	1.131	0.078	0.73	7.2	7.93	100.0		
	Sat	3/5/22	3.778		140.0	120.0	9.54	6.55	<	2.0	<	2.0	1.517	0.155	0.56	8.19	8.75	100.0		
2	Sun	3/6/22	3.926				9.32	6.41										100.0		
	Mon	3/7/22	3.646	2.0	210.0	198.0	8.89	6.42	<	2.0	2.0	1.325	0.213	1.51	6.64	8.15	100.0			
	Tue	3/8/22	3.469				9.25	6.45										100.0		
	Wed	3/9/22	4.23	2.0	120.0	180.0	9.41	6.4	<	2.0	2.0	1.056	0.053	0.9	5.96	6.86	100.0			
	Thu	3/10/22	4.499	1.0	132.0	106.0	9.23	6.41	<	2.0	3.0	0.859	0.021	0.94	6.47	7.41	100.0			
	Fri	3/11/22	4.037		126.0	194.0	9.38	6.33	<	2.0	3.0	1.094	0.052	0.86	6.66	7.52	100.0			
	Sat	3/12/22	4.722		120.0	184.0	9.6	6.82	<	2.0	2.0	1.526	0.044	0.58	8.5	9.08	99.79			
3	Sun	3/13/22	4.68				8.99	6.55										100.0		
	Mon	3/14/22	4.4	6.0	104.0	134.0	9.15	6.67	<	2.0	3.0	0.74	0.203	1.67	4.39	6.06	100.0			
	Tue	3/15/22	4.604	3.0	150.0	156.0	9.35	6.21	<	2.0	<	2.0	0.624	0.018	0.81	4.7	5.51	100.0		
	Wed	3/16/22	4.0		87.0	104.0	9.09	6.71	<	2.0	2.0	1.095	0.02	0.68	5.94	6.62	100.0			
	Thu	3/17/22	4.242	4.0	124.0	134.0	8.8	6.6	<	2.0	2.0	1.138	<	0.016	1.04	5.81	6.85	100.0		
	Fri	3/18/22	3.988				9.03	6.33										100.0		
	Sat	3/19/22	4.057		90.0	68.0	8.98	6.85	<	2.0	<	2.0	1.134	<	0.016	0.74	5.2	5.94	100.0	
4	Sun	3/20/22	4.026				9.02	6.26										100.0		
	Mon	3/21/22	3.856		115.0	208.0	9.13	6.45	<	2.0	<	2.0	1.163	0.047	0.64	4.66	5.3	100.0		
	Tue	3/22/22	3.435	3.0	125.0	104.0	8.97	6.7	<	2.0	<	2.0	0.804	0.022	0.78	5.1	5.88	100.0		
	Wed	3/23/22	3.41	3.0	127.0	176.0	8.69	6.84	<	2.0	<	2.0	0.968	0.016	0.7	6.14	6.84	100.0		
	Thu	3/24/22	4.3	3.0			8.94	6.38										100.0		
	Fri	3/25/22	3.888		191.0	204.0	8.94	7.29	<	2.0	<	2.0	1.054	<	0.016	0.74	6.59	7.33	100.0	
	Sat	3/26/22	3.715		111.0	156.0	9.01	6.67	<	2.0	<	2.0	1.127	<	0.016	0.89	6.25	7.14	100.0	
5	Sun	3/27/22	3.609				9.3	6.58										100.0		
	Mon	3/28/22	3.304	4.0	127.0	164.0	9.41	6.55	<	2.0	2.0	1.209	0.019	0.86	5.31	6.17	98.23			
	Tue	3/29/22	3.174	4.0	172.0	184.0	9.61	6.17	<	2.0	3.0	0.875	0.033	0.8	5.24	6.04	99.0			
	Wed	3/30/22	3.046		189.0	200.0	9.7	6.55	<	2.0	3.0	0.701	<	0.016	0.92	5.73	6.65	100.0		
	Thu	3/31/22	3.115	4.0			9.2	6.26										100.0		
	Fri	4/1/22	5.162		255.0	280.0	8.46	6.67	<	2.0	2.0	0.896	0.019	0.65	7.08	7.73	98.01			
	Sat	4/2/22	4.383		98.0	154.0	8.86	6.78	<	2.0	2.0	0.82	0.325	1.31	4.27	5.58	100.0			
<b>Statistics for DMR</b>																				
Daily Minimum (Conc.):				1	87	68	8.69	6.17	<	2	<	2	0.436	<	0.016	0.56	4.39	5.3	98.23	
Daily Maximum (Conc.):				6	210	208	9.7	7.29	<	2	3	1.526	0.213	1.67	8.5	9.08	100			
Max Avg Weekly (Conc.):					168	196	9.42		<	2	2	1.172	0.165	0.99	6.85	7.8	100			
Avg Monthly (Conc.):					135	152	9.21		<	2	<	2	1.0	<	0.1	0.89	5.95	6.85	99.9	
Geometric Mean (Conc.):				3																
Max Avg Weekly (Load):			4.359		5483	6431	342		<	71	85	41	6	35	243	276				
Avg Monthly (Load):			3.923		4347	4918	301		<	65	73	33	2	29	195	224				
Total Monthly (Load):			121.609		134746	152451	9341		<	2026	2251	1025	57	908	6042	6950				
Daily Minimum (Load):			3.046		2902	2301	239		<	51	55	16	0.4	18	139	160				
Daily Maximum (Load):			4.722		6386	7246	378		<	79	113	60	7	61	335	358				

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: Christian L. Jordan  
Title: Superintendent

License No.: S17213  
Date: 21-Apr-22



## INSTRUCTIONS FOR COMPLETING DAILY EFFLUENT MONITORING SUPPLEMENTAL REPORT

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The recommended sequence of data entry is as follows: 1) Enter parameter names, units of measurement, and permit limits into the **Limits** worksheet, and 2) Enter daily monitoring results into the **Daily** worksheet (for each outfall). The statistics for DMR reporting are presented at the bottom of the Daily table. You may then manually enter the statistics results into the eDMR report.

### Limits Worksheet

1. Enter the Outfall Number from your permit or eDMR report.
2. In the column named "Parameter / Stage", select each parameter and its associated stage (monitoring location) from your permit or eDMR report that corresponds to the selected Outfall. Parameter names include the Parameter Code in parentheses. Common parameters are listed first, and then are listed alphabetically. Up to 30 parameters, including Flow, can be selected per Outfall. Stage names include the Stage Code in parentheses. Codes are shown to help you match your selections with the eDMR data entry screen. In the event a parameter or stage on your eDMR report is not available, please contact DEP at (717) 787-6744. It is assumed that Flow - Final Effluent is in your permit. This assumption is necessary for loading calculations, where applicable. If you are not required to measure flow in your permit for the outfall, please ignore it. If you are required to monitor a bacterial parameter (e.g., Fecal Coliform), it is recommended that you select this parameter immediately below "Flow" as explained below (No. 3, Daily Effluent Monitoring Worksheet).
3. Paper and electronic DMRs contain five columns or fields for data entry. In the Limits worksheet, the columns are named "Load 1", "Load 2", "Conc 1", "Conc 2", and "Conc 3". Enter permit limit values in the row for "LIMIT" and the appropriate column. If there is a "Monitor & Report" requirement only, type "Report". If there is no limit or monitoring required for the column, leave it blank. You can also select Statistical Codes from the lists below each limit field, though this is not required.
4. If you have entered a limit value for either Load 1 or Load 2 for a parameter, you must select a value for Units in the "Quantity or Loading" column. If you have entered a limit value for either Conc 1, Conc 2 or Conc 3 for a parameter, you must select a value for Units in the "Quality or Concentration" column. If a parameter does not, for example, have a limit value (including "Report") for Load 1 or Load 2, the Units value may remain blank.

### Daily Worksheet

1. Enter Facility Name, Municipality, County (select from list), Watershed No., Month (select number from list), Year (select from list), Permit No., and Permit Expiration Date (leave blank if not applicable). Also, report all laboratories where samples were analyzed during the month, including on-site analysis.
2. The first week of each month begins on a Sunday and the last week of each month ends on a Saturday. The Week column identifies the start of each weekly period for the purpose of computing weekly statistics. The full calendar month is used for calculating monthly statistics. Days and dates are automatically populated following your entry of the numeric Month and Year in Step 1. If the permit does not contain a weekly statistical reporting requirement for a parameter, do not enter data outside of the calendar month. For example, if you must report minimum and maximum pH measurements (but not weekly average), enter data beginning on the first day of the month and ending on the last day of the month. If, for example, you have a weekly average limit for CBOD<sub>5</sub>, and if samples were collected on any date shown on the form that is outside the calendar month, enter the results.

3. Parameters (abbreviated), stages (stage code), and units will be displayed in the order selected on the Limits worksheet. The Qualifier ("Q") columns allow you to select the "<" symbol. In addition, the first "Q" column to the right of Flow allows you to select the "<" symbol as well as the ">" symbol. By policy, DEP accepts the use of the ">" symbol only for bacterial results. Therefore, if you have a bacterial parameter in your permit, it is recommended that you select it after Flow in the Limits worksheet.
4. On each day in which a sample is collected for analysis, enter the result in the column corresponding to the parameter analyzed. **Enter the result exactly as reported by the laboratory or determined by on-site equipment.** If the result is reported as a "non-detect" result, enter the laboratory's reporting limit for the result and select the "less than" (<) symbol from the lists in the "Q" columns. For bacteria, if the result is "0", enter "1".
5. Statistics are computed at the bottom of the form. If a limit value exists for the statistic, the decimal places of the statistic will match that of the limit. If a limit value does not exist, the statistic will present the maximum number of decimal places from the reported results. Note - for maximum weekly average results, week 5 is not included in the results unless week 5 is a full week (7 days).
6. Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**Notes:**

1. In the Daily worksheet, the pane has been "frozen" so that pertinent information can be viewed at all times. You can "unfreeze" the panes at any time by clicking on Window - Unfreeze Panes (Excel 2003) or select the "View" tab from the "Windows" group, choose "Freeze Panes", and select "Unfreeze Panes" from the pop-up (Excel 2007).
2. If your permit contains limits in terms of micrograms, nanograms or picograms per liter ( $\mu\text{g/l}$ ,  $\text{ng/l}$  or  $\text{pg/l}$ ), please convert this to  $\text{mg/l}$  for entry into the Limits worksheet.
3. Chesapeake Bay nutrient parameters for Total Monthly Loading statistics (e.g., Total Nitrogen, parameter code 51445) cannot be selected on the Limits worksheet. However, you can select the concentration-based parameter that is equivalent (e.g., Total Nitrogen, parameter code 600), enter flows and concentration values, and Total Monthly Loading statistics will be calculated.
4. If you have a requirement to report on the functioning of your ultraviolet disinfection (UV) system (i.e., "UV Functional" parameter), you should select units of "Y/N" in the Limits worksheet and report values of "1" for Yes (UV Functional) and "< 1" for No (UV Not Functional) in the Daily worksheet.

*\* All attempts have been made in developing this spreadsheet to follow procedures contained in "Discharge Monitoring Reports Overview and Summary" (3800-BK-DEP3047). Please check the Supplemental Forms website for updates to this spreadsheet periodically and contact DEP at 717-787-2137 with questions. If your permit requires that you follow different procedures, you must follow your permit.*

**Select Parameters and Stages (Monitoring Locations) and Enter Limits Contained in Your Permit**

(Note - Flow is assumed. If it does not apply, please ignore).

Outfall No. \_\_\_\_\_

PARAMETER / STAGE		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			
		LOAD 1	LOAD 2	UNITS	CONC 1	CONC 2	CONC 3	UNITS
Flow (50050)	LIMIT	Report						
Final Effluent (1)	STATISTICAL CODE	Average Monthly		MGD	*****	*****	*****	*****
Fecal Coliform (74055)	LIMIT					2000	10000	
Final Effluent (1)	STATISTICAL CODE					Geometric Mean	Daily Maximum	CFU/100 ml
BOD5 (310)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Total Suspended Solids (530)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Dissolved Oxygen (300)	LIMIT				5.0			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			mg/L
pH (400)	LIMIT				6.0		9.0	
Final Effluent (1)	STATISTICAL CODE				Daily Minimum		Daily Maximum	S.U.
CBOD5 (80082)	LIMIT	1334	2000			20	30	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Suspended Solids (530)	LIMIT	2000	3000			30	45	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Phosphorus (665)	LIMIT	133				2.0		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Ammonia-Nitrogen (610)	LIMIT	300				4.5		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Total Kjeldahl Nitrogen (625)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Nitrate-Nitrite as N (630)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Total Nitrogen (600)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
UV Intensity (49607)	LIMIT				Report			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			%
	LIMIT							
	STATISTICAL CODE							







## INSTRUCTIONS FOR COMPLETING DAILY EFFLUENT MONITORING SUPPLEMENTAL REPORT

This spreadsheet is used for recording daily sample results for effluent (although other stages can be selected), and includes DEP-approved calculations and handling of rounding and significant figures for reporting\*. The calculations are provided for convenience and do not automatically populate into online eDMR reports.

The recommended sequence of data entry is as follows: 1) Enter parameter names, units of measurement, and permit limits into the **Limits** worksheet, and 2) Enter daily monitoring results into the **Daily** worksheet (for each outfall). The statistics for DMR reporting are presented at the bottom of the Daily table. You may then manually enter the statistics results into the eDMR report.

### Limits Worksheet

1. Enter the Outfall Number from your permit or eDMR report.
2. In the column named "Parameter / Stage", select each parameter and its associated stage (monitoring location) from your permit or eDMR report that corresponds to the selected Outfall. Parameter names include the Parameter Code in parentheses. Common parameters are listed first, and then are listed alphabetically. Up to 30 parameters, including Flow, can be selected per Outfall. Stage names include the Stage Code in parentheses. Codes are shown to help you match your selections with the eDMR data entry screen. In the event a parameter or stage on your eDMR report is not available, please contact DEP at (717) 787-6744. It is assumed that Flow - Final Effluent is in your permit. This assumption is necessary for loading calculations, where applicable. If you are not required to measure flow in your permit for the outfall, please ignore it. If you are required to monitor a bacterial parameter (e.g., Fecal Coliform), it is recommended that you select this parameter immediately below "Flow" as explained below (No. 3, Daily Effluent Monitoring Worksheet).
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1. Enter Facility Name, Municipality, County (select from list), Watershed No., Month (select number from list), Year (select from list), Permit No., and Permit Expiration Date (leave blank if not applicable). Also, report all laboratories where samples were analyzed during the month, including on-site analysis.
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3. Chesapeake Bay nutrient parameters for Total Monthly Loading statistics (e.g., Total Nitrogen, parameter code 51445) cannot be selected on the Limits worksheet. However, you can select the concentration-based parameter that is equivalent (e.g., Total Nitrogen, parameter code 600), enter flows and concentration values, and Total Monthly Loading statistics will be calculated.
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**Select Parameters and Stages (Monitoring Locations) and Enter Limits Contained in Your Permit**

(Note - Flow is assumed. If it does not apply, please ignore).

Outfall No. \_\_\_\_\_

PARAMETER / STAGE		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			
		LOAD 1	LOAD 2	UNITS	CONC 1	CONC 2	CONC 3	UNITS
Flow (50050)	LIMIT	Report						
Final Effluent (1)	STATISTICAL CODE	Average Monthly		MGD	*****	*****	*****	*****
Fecal Coliform (74055)	LIMIT					200	1000	
Final Effluent (1)	STATISTICAL CODE					Geometric Mean	Daily Maximum	CFU/100 ml
BOD5 (310)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Total Suspended Solids (530)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Dissolved Oxygen (300)	LIMIT				5.0			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			mg/L
pH (400)	LIMIT				6.0		9.0	
Final Effluent (1)	STATISTICAL CODE				Daily Minimum		Daily Maximum	S.U.
CBOD5 (80082)	LIMIT	667	100			20	15	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Suspended Solids (530)	LIMIT	2000	3000			30	45	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Phosphorus (665)	LIMIT	133				2.0		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Ammonia-Nitrogen (610)	LIMIT	100				1.5		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Total Kjeldahl Nitrogen (625)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Nitrate-Nitrite as N (630)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Total Nitrogen (600)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
UV Intensity (49607)	LIMIT				Report			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			%
	LIMIT							
	STATISTICAL CODE							

**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

3800-FM-BCW0435 3/2012

Facility Name: Dover Township STP  
Municipality: Conewago Township County: York  
Watershed: 7-F  
Laboratories: on site Dover Township STP Laboratory

Month: 5 (select number) Year: 2022  
Permit No.: PA0020826 Outfall: 001  
Renewal application due 180 days prior to expiration.  
This permit will expire on: June 30, 2022

Week	Day	Date	Flow	Fecal Coliform	BOD5	TSS	Dissolved Oxygen	pH	CBOD5	TSS	Total Phosphorus	NH3-N	TKN	NO2-N + NO3-N	Total Nitrogen	UV Intensity		
			1	1	RI	RI	1	1	1	1	1	1	1	1	1	1	1	1
			MGD	CFU/100 ml	mg/L	mg/L	mg/L	S.U.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	%	
1	Sun	5/1/22	2.946				8.46	6.60									99.88	
	Mon	5/2/22	2.818	2.0	156.0	288.0	8.42	6.64	< 2.0	< 2.0	1.090	< 0.016	0.78	6.91	7.69		29.52	
	Tue	5/3/22	2.625				8.76	6.54									100.0	
	Wed	5/4/22	2.837	4.0	220.0	200.0	8.51	6.77	< 2.0	< 2.0	0.788	0.025	0.18	7.18	7.36		99.31	
	Thu	5/5/22	2.737	2.0	129.0	160.0	8.75	6.73	< 2.0	< 2.0	0.974	< 0.016	0.25	8.10	8.35		99.29	
	Fri	5/6/22	8.387		163.0	152.0	8.64	6.84	< 2.0	< 2.0	1.172	< 0.016	0.56	6.55	7.11		79.66	
	Sat	5/7/22	18.539		98.0	120.0	6.92	6.52	4.0	9.0	1.492	0.962	2.94	6.03	8.97		67.34	
2	Sun	5/8/22	16.843				7.39	6.60									69.96	
	Mon	5/9/22	10.513				8.72	6.63									99.27	
	Tue	5/10/22	7.182	5.0	41.0	50.0	8.47	6.38	< 2.0	3.0	0.184	0.784	1.34	4.38	5.72		99.57	
	Wed	5/11/22	5.643	4.0	51.0	55.0	8.49	6.46	< 2.0	2.0	0.070	0.061	0.61	4.97	5.58		99.56	
	Thu	5/12/22	4.907	2.0	83.0	73.0	8.08	6.75	< 2.0	4.0	0.130	0.037	0.68	4.83	5.51		99.55	
	Fri	5/13/22	4.416		70.0	79.0	8.45	6.63	< 2.0	2.0	0.219	< 0.016	0.70	4.75	5.45		99.5	
	Sat	5/14/22	4.327		60.0	112.0	8.20	6.85	< 2.0	2.0	0.567	< 0.016	0.37	4.68	5.05		99.54	
3	Sun	5/15/22	4.342				8.28	6.43									99.51	
	Mon	5/16/22	4.011	3.0	93.0	144.0	7.93	6.70	< 2.0	< 2.0	0.633	< 0.016	0.70	2.67	3.37		99.54	
	Tue	5/17/22	3.797	4.0	91.0	146.0	8.28	6.24	< 2.0	< 2.0	0.685	< 0.016	0.56	3.60	4.16		99.76	
	Wed	5/18/22	3.549		107.0	142.0	8.56	6.63	< 2.0	2.0	1.037	< 0.016	0.47	4.82	5.29		99.75	
	Thu	5/19/22	4.586	2.0	135.0	194.0	7.98	6.61	< 2.0	< 2.0	1.156	< 0.016	0.27	4.43	4.70		99.65	
	Fri	5/20/22	4.308				8.40	6.27									99.56	
	Sat	5/21/22	4.303		62.0	118.0	8.23	6.57	< 2.0	4.0	0.903	< 0.016	0.40	3.89	4.29		99.57	
4	Sun	5/22/22	4.174				8.34	6.68									99.77	
	Mon	5/23/22	4.315	4.0	151.0	174.0	7.89	6.69	< 2.0	3.0	0.911	< 0.016	0.67	3.53	4.20		99.73	
	Tue	5/24/22	3.692		77.0	114.0	8.17	6.26	< 2.0	< 2.0	0.823	0.032	0.64	4.27	4.91		100.0	
	Wed	5/25/22	3.524	2.0	107.0	122.0	8.31	6.81	< 2.0	2.0	1.320	< 0.016	0.37	5.58	5.95		100.0	
	Thu	5/26/22	3.426	3.0			8.54	6.33									100.0	
	Fri	5/27/22	3.449		153.0	248.0	8.04	6.81	< 2.0	< 2.0	1.565	0.018	0.49	5.00	5.49		100.0	
	Sat	5/28/22	3.448		135.0	156.0	7.06	6.81	< 2.0	< 2.0	0.945	0.016	0.52	4.80	5.32		100.0	
5	Sun	5/29/22	3.164				7.95	7.06									100.0	
	Mon	5/30/22	3.144				7.84	6.73									99.88	
	Tue	5/31/22	2.888	12.0	162.0	164.0	8.0	6.79	< 2.0	< 2.0	0.646	0.037	0.72	3.69	4.41		99.93	
<b>Statistics for DMR</b>																		
Daily Minimum (Conc.):			2	41	50	6.92	6.24	< 2	< 2	0.07	< 0.016	0.18	2.67	3.37	29.52			
Daily Maximum (Conc.):			12	220	288	8.76	7.06	4	9	1.565	0.962	2.94	8.1	8.97	100			
Max Avg Weekly (Conc.):				153	184	8.35		< 2	< 3	1.113	< 0.207	0.94	6.95	7.9	99.93			
Avg Monthly (Conc.):				112	143	8.2		< 2	< 3	0.8	< 0.1	0.68	4.98	5.66	94.79			
Geometric Mean (Conc.):			3															
Max Avg Weekly (Load):			7.69	7674	8868	521	180	334	76	30	129	382	486					
Avg Monthly (Load):			5.124	4336	5433	344	97	146	36	10	42	209	251					
Total Monthly (Load):			158.84	134406	168413	10660	3001	4511	1125	310	1296	6486	7783					
Daily Minimum (Load):			2.625	2165	2588	192	46	46	3	0.4	6	89	106					
Daily Maximum (Load):			18.539	15152	18554	1070	618	1392	231	149	455	932	1387					

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: Christian L. Jordan License No.: S17213  
Title: Superintendent Date: 16-Jun-22



## INSTRUCTIONS FOR COMPLETING DAILY EFFLUENT MONITORING SUPPLEMENTAL REPORT

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The recommended sequence of data entry is as follows: 1) Enter parameter names, units of measurement, and permit limits into the **Limits** worksheet, and 2) Enter daily monitoring results into the **Daily** worksheet (for each outfall). The statistics for DMR reporting are presented at the bottom of the Daily table. You may then manually enter the statistics results into the eDMR report.

### Limits Worksheet

1. Enter the Outfall Number from your permit or eDMR report.
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4. If you have entered a limit value for either Load 1 or Load 2 for a parameter, you must select a value for Units in the "Quantity or Loading" column. If you have entered a limit value for either Conc 1, Conc 2 or Conc 3 for a parameter, you must select a value for Units in the "Quality or Concentration" column. If a parameter does not, for example, have a limit value (including "Report") for Load 1 or Load 2, the Units value may remain blank.

### Daily Worksheet

1. Enter Facility Name, Municipality, County (select from list), Watershed No., Month (select number from list), Year (select from list), Permit No., and Permit Expiration Date (leave blank if not applicable). Also, report all laboratories where samples were analyzed during the month, including on-site analysis.
2. The first week of each month begins on a Sunday and the last week of each month ends on a Saturday. The Week column identifies the start of each weekly period for the purpose of computing weekly statistics. The full calendar month is used for calculating monthly statistics. Days and dates are automatically populated following your entry of the numeric Month and Year in Step 1. If the permit does not contain a weekly statistical reporting requirement for a parameter, do not enter data outside of the calendar month. For example, if you must report minimum and maximum pH measurements (but not weekly average), enter data beginning on the first day of the month and ending on the last day of the month. If, for example, you have a weekly average limit for CBOD<sub>5</sub>, and if samples were collected on any date shown on the form that is outside the calendar month, enter the results.



3. Parameters (abbreviated), stages (stage code), and units will be displayed in the order selected on the Limits worksheet. The Qualifier ("Q") columns allow you to select the "<" symbol. In addition, the first "Q" column to the right of Flow allows you to select the "<" symbol as well as the ">" symbol. By policy, DEP accepts the use of the ">" symbol only for bacterial results. Therefore, if you have a bacterial parameter in your permit, it is recommended that you select it after Flow in the Limits worksheet.
4. On each day in which a sample is collected for analysis, enter the result in the column corresponding to the parameter analyzed. **Enter the result exactly as reported by the laboratory or determined by on-site equipment.** If the result is reported as a "non-detect" result, enter the laboratory's reporting limit for the result and select the "less than" (<) symbol from the lists in the "Q" columns. For bacteria, if the result is "0", enter "1".
5. Statistics are computed at the bottom of the form. If a limit value exists for the statistic, the decimal places of the statistic will match that of the limit. If a limit value does not exist, the statistic will present the maximum number of decimal places from the reported results. Note - for maximum weekly average results, week 5 is not included in the results unless week 5 is a full week (7 days).
6. Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

#### **Notes:**

1. In the Daily worksheet, the pane has been "frozen" so that pertinent information can be viewed at all times. You can "unfreeze" the panes at any time by clicking on Window - Unfreeze Panes (Excel 2003) or select the "View" tab from the "Windows" group, choose "Freeze Panes", and select "Unfreeze Panes" from the pop-up (Excel 2007).
2. If your permit contains limits in terms of micrograms, nanograms or picograms per liter ( $\mu\text{g/l}$ ,  $\text{ng/l}$  or  $\text{pg/l}$ ), please convert this to  $\text{mg/l}$  for entry into the Limits worksheet.
3. Chesapeake Bay nutrient parameters for Total Monthly Loading statistics (e.g., Total Nitrogen, parameter code 51445) cannot be selected on the Limits worksheet. However, you can select the concentration-based parameter that is equivalent (e.g., Total Nitrogen, parameter code 600), enter flows and concentration values, and Total Monthly Loading statistics will be calculated.
4. If you have a requirement to report on the functioning of your ultraviolet disinfection (UV) system (i.e., "UV Functional" parameter), you should select units of "Y/N" in the Limits worksheet and report values of "1" for Yes (UV Functional) and "< 1" for No (UV Not Functional) in the Daily worksheet.

*\* All attempts have been made in developing this spreadsheet to follow procedures contained in "Discharge Monitoring Reports Overview and Summary" (3800-BK-DEP3047). Please check the Supplemental Forms website for updates to this spreadsheet periodically and contact DEP at 717-787-2137 with questions. If your permit requires that you follow different procedures, you must follow your permit.*

**Select Parameters and Stages (Monitoring Locations) and Enter Limits Contained in Your Permit**

(Note - Flow is assumed. If it does not apply, please ignore).

Outfall No. \_\_\_\_\_

PARAMETER / STAGE		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			
		LOAD 1	LOAD 2	UNITS	CONC 1	CONC 2	CONC 3	UNITS
Flow (50050)	LIMIT	Report						
Final Effluent (1)	STATISTICAL CODE	Average Monthly		MGD	*****	*****	*****	*****
Fecal Coliform (74055)	LIMIT					200	1000	
Final Effluent (1)	STATISTICAL CODE					Geometric Mean	Daily Maximum	CFU/100 ml
BOD5 (310)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Total Suspended Solids (530)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Dissolved Oxygen (300)	LIMIT				5.0			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			mg/L
pH (400)	LIMIT				6.0		9.0	
Final Effluent (1)	STATISTICAL CODE				Daily Minimum		Daily Maximum	S.U.
CBOD5 (80082)	LIMIT	667	100			20	15	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Suspended Solids (530)	LIMIT	2000	3000			30	45	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Phosphorus (665)	LIMIT	133				2.0		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Ammonia-Nitrogen (610)	LIMIT	100				1.5		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Total Kjeldahl Nitrogen (625)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Nitrate-Nitrite as N (630)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Total Nitrogen (600)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
UV Intensity (49607)	LIMIT				Report			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			%
	LIMIT							
	STATISTICAL CODE							

**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

Facility Name: Dover Township STP  
Municipality: Conewago Township County: York  
Watershed: 7-F  
Laboratories: on site Dover Township STP Laboratory

Month: 6 (select number) Year: 2022  
Permit No.: PA0020826 Outfall: 001  
Renewal application due 180 days prior to expiration.  
This permit will expire on: June 30, 2022

Week	Day	Date	Flow	Fecal Coliform	BOD5	TSS	Dissolved Oxygen	pH	CBOD5	TSS	Total Phosphorus	NH3-N	TKN	NO2-N + NO3-N	Total Nitrogen	UV Intensity				
			1	1	RI	RI	1	1	1	1	1	1	1	1	1	1	1	1	1	
Stage			MGD	q	CFU/100 ml	q	mg/L	q	mg/L	q	mg/L	q	mg/L	q	mg/L	q	mg/L	q	%	
1	Sun	5/29/22	3.164				7.95	7.06										100.0		
	Mon	5/30/22	3.114				7.84	6.73										99.88		
	Tue	5/31/22	2.888	12.0	162.0	164.0	8.00	6.79	<	2.0	<	2.0	0.646	0.037	0.72	3.69	4.41	99.93		
	Wed	6/1/22	2.815	6.0	152.0	192.0	8.02	6.24	<	2.0	<	2.0	0.351	0.044	0.60	3.26	3.86	100.0		
	Thu	6/2/22	2.763	7.0	180.0	328.0	7.81	6.71	<	2.0	<	2.0	0.344	0.028	0.74	3.57	4.31	100.0		
	Fri	6/3/22	2.661		124.0	144.0	7.91	6.65	<	2.0		3.0	0.354	0.030	0.57	4.19	4.76	100.0		
	Sat	6/4/22	2.564		150.0	152.0	7.83	6.88	<	2.0	<	2.0	0.384	0.021	0.57	5.15	5.72	100.0		
2	Sun	6/5/22	2.602				7.88	6.88										100.0		
	Mon	6/6/22	2.504	6.0	193.0	180.0	7.75	6.84	<	2.0	<	2.0	0.486	0.035	0.78	5.81	6.59	82.45		
	Tue	6/7/22	2.445	12.0	147.0	172.0	8.12	6.31	<	2.0	<	2.0	0.365	0.045	0.82	5.07	5.89	99.52		
	Wed	6/8/22	2.46				7.94	6.47										100.0		
	Thu	6/9/22	2.659	4.0	146.0	156.0	7.59	6.72	<	2.0	<	2.0	0.805	0.024	0.58	6.62	7.20	100.0		
	Fri	6/10/22	2.458		330.0	356.0	8.07	6.87	<	2.0	<	2.0	1.217	0.026	0.25	7.47	7.72	100.0		
	Sat	6/11/22	2.414		172.0	136.0	7.83	6.65	<	2.0	<	2.0	1.185	0.020	0.50	7.35	7.85	100.0		
3	Sun	6/12/22	2.781				7.87	6.47										99.77		
	Mon	6/13/22	2.789	10.0	237.0	208.0	7.94	6.61	<	2.0		2.0	0.998	0.018	0.55	7.61	8.16	69.16		
	Tue	6/14/22	2.976	5.0			7.74	6.37										93.42		
	Wed	6/15/22	2.779	3.0	159.0	160.0	7.73	6.84	<	2.0	<	2.0	0.917	0.079	0.08	7.71	7.79	94.25		
	Thu	6/16/22	2.604		154.0	192.0	7.78	6.85	<	2.0	<	2.0	1.116	<	0.016	0.07	7.38	7.45	97.04	
	Fri	6/17/22	2.503		152.0	172.0	7.55	6.82	<	2.0	<	2.0	1.465	0.017	0.07	7.86	7.93	96.62		
	Sat	6/18/22	2.465		129.0	144.0	7.50	6.71	<	2.0	<	2.0	1.724	<	0.016	0.33	8.57	8.90	95.21	
4	Sun	6/19/22	2.437				7.66	6.51										93.65		
	Mon	6/20/22	2.193	18.0	152.0	212.0	7.79	6.74	<	2.0	<	2.0	1.635	<	0.016	0.61	7.42	8.03	85.96	
	Tue	6/21/22	2.146				7.82	6.67										100.0		
	Wed	6/22/22	2.176	3.0	208.0	212.0	7.36	6.69	<	2.0	<	2.0	0.975	0.024	0.68	6.81	7.49	100.0		
	Thu	6/23/22	2.953	6.0	194.0	188.0	7.58	6.42	<	2.0	<	2.0	0.925	0.016	0.55	7.04	7.59	100.0		
	Fri	6/24/22	2.498		116.0	152.0	7.81	6.75	<	2.0	<	2.0	1.014	<	0.016	0.40	7.30	7.70	100.0	
	Sat	6/25/22	2.329		169.0	152.0	7.83	6.46	<	2.0	<	2.0	1.138	<	0.016	1.06	7.67	8.73	100.0	
5	Sun	6/26/22	2.386				7.71	7.18										100.0		
	Mon	6/27/22	2.255	10.0	170.0	196.0	7.6	6.55	<	2.0	<	2.0	0.92	0.02	0.63	7.3	7.93	95.27		
	Tue	6/28/22	2.168	6.0	171.0	228.0	7.77	6.96	<	2.0		2.0	0.459	0.094	0.79	5.33	6.12	99.9		
	Wed	6/29/22	2.32	4.0			7.51	6.24										100.0		
	Thu	6/30/22	2.225		166.0	260.0	7.69	6.67	<	2.0	<	2.0	0.236	0.106	0.78	8.09	8.87	99.75		
	Fri	7/1/22	2.036		206.0	188.0	7.46	6.7	<	2.0	<	2.0	0.186	0.028	0.62	8.16	8.78	99.89		
	Sat	7/2/22	2.049		205.0	300.0	7.05	6.98	<	2.0	<	2.0	0.305	0.025	0.29	8.17	8.46	99.91		
<b>Statistics for DMR</b>					<b>3</b>	<b>116</b>	<b>136</b>	<b>7.36</b>	<b>6.24</b>	<	<b>2</b>	<	<b>2</b>	<b>0.236</b>	<	<b>0.016</b>	<b>0.07</b>	<b>3.26</b>	<b>3.86</b>	<b>69.16</b>
Daily Minimum (Conc.):					<b>18</b>	<b>330</b>	<b>356</b>	<b>8.12</b>	<b>7.18</b>	<	<b>2</b>	<	<b>3</b>	<b>1.724</b>	<	<b>0.106</b>	<b>1.06</b>	<b>8.57</b>	<b>8.9</b>	<b>100</b>
Max Avg Weekly (Conc.):					<b>198</b>	<b>234</b>	<b>7.91</b>			<	<b>2</b>	<	<b>2</b>	<b>1.244</b>	<	<b>0.055</b>	<b>0.66</b>	<b>7.83</b>	<b>8.05</b>	<b>99.97</b>
Avg Monthly (Conc.):					<b>171</b>	<b>195</b>	<b>7.77</b>			<	<b>2</b>	<	<b>2</b>	<b>0.9</b>	<	<b>0.03</b>	<b>0.55</b>	<b>6.57</b>	<b>7.12</b>	<b>96.73</b>
Geometric Mean (Conc.):					<b>6</b>															
Max Avg Weekly (Load):			<b>2.853</b>		<b>4099</b>	<b>4492</b>	<b>188</b>			<	<b>46</b>	<	<b>50</b>	<b>27</b>		<b>1</b>	<b>15</b>	<b>171</b>	<b>176</b>	
Avg Monthly (Load):			<b>2.511</b>		<b>3588</b>	<b>4075</b>	<b>163</b>			<	<b>42</b>	<	<b>43</b>	<b>18</b>	<	<b>0.7</b>	<b>11</b>	<b>137</b>	<b>148</b>	
Total Monthly (Load):			<b>75.328</b>		<b>107642</b>	<b>122247</b>	<b>4881</b>			<	<b>1256</b>	<	<b>1286</b>	<b>538</b>	<	<b>20</b>	<b>326</b>	<b>4102</b>	<b>4440</b>	
Daily Minimum (Load):			<b>2.146</b>		<b>2417</b>	<b>2738</b>	<b>134</b>			<	<b>36</b>	<	<b>36</b>	<b>4</b>	<	<b>0.3</b>	<b>1</b>	<b>77</b>	<b>91</b>	
Daily Maximum (Load):			<b>2.976</b>		<b>6765</b>	<b>7558</b>	<b>192</b>			<	<b>49</b>	<	<b>67</b>	<b>35</b>		<b>2</b>	<b>21</b>	<b>179</b>	<b>190</b>	

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: Christian L. Jordan License No.: S17213  
Title: Superintendent Date: 20-Jul-22



## INSTRUCTIONS FOR COMPLETING DAILY EFFLUENT MONITORING SUPPLEMENTAL REPORT

This spreadsheet is used for recording daily sample results for effluent (although other stages can be selected), and includes DEP-approved calculations and handling of rounding and significant figures for reporting\*. The calculations are provided for convenience and do not automatically populate into online eDMR reports.

The recommended sequence of data entry is as follows: 1) Enter parameter names, units of measurement, and permit limits into the **Limits** worksheet, and 2) Enter daily monitoring results into the **Daily** worksheet (for each outfall). The statistics for DMR reporting are presented at the bottom of the Daily table. You may then manually enter the statistics results into the eDMR report.

### Limits Worksheet

1. Enter the Outfall Number from your permit or eDMR report.
2. In the column named "Parameter / Stage", select each parameter and its associated stage (monitoring location) from your permit or eDMR report that corresponds to the selected Outfall. Parameter names include the Parameter Code in parentheses. Common parameters are listed first, and then are listed alphabetically. Up to 30 parameters, including Flow, can be selected per Outfall. Stage names include the Stage Code in parentheses. Codes are shown to help you match your selections with the eDMR data entry screen. In the event a parameter or stage on your eDMR report is not available, please contact DEP at (717) 787-6744. It is assumed that Flow - Final Effluent is in your permit. This assumption is necessary for loading calculations, where applicable. If you are not required to measure flow in your permit for the outfall, please ignore it. If you are required to monitor a bacterial parameter (e.g., Fecal Coliform), it is recommended that you select this parameter immediately below "Flow" as explained below (No. 3, Daily Effluent Monitoring Worksheet).
3. Paper and electronic DMRs contain five columns or fields for data entry. In the Limits worksheet, the columns are named "Load 1", "Load 2", "Conc 1", "Conc 2", and "Conc 3". Enter permit limit values in the row for "LIMIT" and the appropriate column. If there is a "Monitor & Report" requirement only, type "Report". If there is no limit or monitoring required for the column, leave it blank. You can also select Statistical Codes from the lists below each limit field, though this is not required.
4. If you have entered a limit value for either Load 1 or Load 2 for a parameter, you must select a value for Units in the "Quantity or Loading" column. If you have entered a limit value for either Conc 1, Conc 2 or Conc 3 for a parameter, you must select a value for Units in the "Quality or Concentration" column. If a parameter does not, for example, have a limit value (including "Report") for Load 1 or Load 2, the Units value may remain blank.

### Daily Worksheet

1. Enter Facility Name, Municipality, County (select from list), Watershed No., Month (select number from list), Year (select from list), Permit No., and Permit Expiration Date (leave blank if not applicable). Also, report all laboratories where samples were analyzed during the month, including on-site analysis.
2. The first week of each month begins on a Sunday and the last week of each month ends on a Saturday. The Week column identifies the start of each weekly period for the purpose of computing weekly statistics. The full calendar month is used for calculating monthly statistics. Days and dates are automatically populated following your entry of the numeric Month and Year in Step 1. If the permit does not contain a weekly statistical reporting requirement for a parameter, do not enter data outside of the calendar month. For example, if you must report minimum and maximum pH measurements (but not weekly average), enter data beginning on the first day of the month and ending on the last day of the month. If, for example, you have a weekly average limit for CBOD<sub>5</sub>, and if samples were collected on any date shown on the form that is outside the calendar month, enter the results.

3. Parameters (abbreviated), stages (stage code), and units will be displayed in the order selected on the Limits worksheet. The Qualifier ("Q") columns allow you to select the "<" symbol. In addition, the first "Q" column to the right of Flow allows you to select the "<" symbol as well as the ">" symbol. By policy, DEP accepts the use of the ">" symbol only for bacterial results. Therefore, if you have a bacterial parameter in your permit, it is recommended that you select it after Flow in the Limits worksheet.
4. On each day in which a sample is collected for analysis, enter the result in the column corresponding to the parameter analyzed. **Enter the result exactly as reported by the laboratory or determined by on-site equipment.** If the result is reported as a "non-detect" result, enter the laboratory's reporting limit for the result and select the "less than" (<) symbol from the lists in the "Q" columns. For bacteria, if the result is "0", enter "1".
5. Statistics are computed at the bottom of the form. If a limit value exists for the statistic, the decimal places of the statistic will match that of the limit. If a limit value does not exist, the statistic will present the maximum number of decimal places from the reported results. Note - for maximum weekly average results, week 5 is not included in the results unless week 5 is a full week (7 days).
6. Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**Notes:**

1. In the Daily worksheet, the pane has been "frozen" so that pertinent information can be viewed at all times. You can "unfreeze" the panes at any time by clicking on Window - Unfreeze Panes (Excel 2003) or select the "View" tab from the "Windows" group, choose "Freeze Panes", and select "Unfreeze Panes" from the pop-up (Excel 2007).
2. If your permit contains limits in terms of micrograms, nanograms or picograms per liter ( $\mu\text{g/l}$ ,  $\text{ng/l}$  or  $\text{pg/l}$ ), please convert this to  $\text{mg/l}$  for entry into the Limits worksheet.
3. Chesapeake Bay nutrient parameters for Total Monthly Loading statistics (e.g., Total Nitrogen, parameter code 51445) cannot be selected on the Limits worksheet. However, you can select the concentration-based parameter that is equivalent (e.g., Total Nitrogen, parameter code 600), enter flows and concentration values, and Total Monthly Loading statistics will be calculated.
4. If you have a requirement to report on the functioning of your ultraviolet disinfection (UV) system (i.e., "UV Functional" parameter), you should select units of "Y/N" in the Limits worksheet and report values of "1" for Yes (UV Functional) and "< 1" for No (UV Not Functional) in the Daily worksheet.

*\* All attempts have been made in developing this spreadsheet to follow procedures contained in "Discharge Monitoring Reports Overview and Summary" (3800-BK-DEP3047). Please check the Supplemental Forms website for updates to this spreadsheet periodically and contact DEP at 717-787-2137 with questions. If your permit requires that you follow different procedures, you must follow your permit.*

**Select Parameters and Stages (Monitoring Locations) and Enter Limits Contained in Your Permit**

(Note - Flow is assumed. If it does not apply, please ignore).

Outfall No. \_\_\_\_\_

PARAMETER / STAGE		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			
		LOAD 1	LOAD 2	UNITS	CONC 1	CONC 2	CONC 3	UNITS
Flow (50050)	LIMIT	Report						
Final Effluent (1)	STATISTICAL CODE	Average Monthly		MGD	*****	*****	*****	*****
Fecal Coliform (74055)	LIMIT					200	1000	
Final Effluent (1)	STATISTICAL CODE					Geometric Mean	Daily Maximum	CFU/100 ml
BOD5 (310)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Total Suspended Solids (530)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Dissolved Oxygen (300)	LIMIT				5.0			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			mg/L
pH (400)	LIMIT				6.0		9.0	
Final Effluent (1)	STATISTICAL CODE				Daily Minimum		Daily Maximum	S.U.
CBOD5 (80082)	LIMIT	667	100			20	15	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Suspended Solids (530)	LIMIT	2000	3000			30	45	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Phosphorus (665)	LIMIT	133				2.0		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Ammonia-Nitrogen (610)	LIMIT	100				1.5		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Total Kjeldahl Nitrogen (625)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Nitrate-Nitrite as N (630)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Total Nitrogen (600)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
UV Intensity (49607)	LIMIT				Report			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			%
	LIMIT							
	STATISTICAL CODE							

**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

Facility Name: Dover Township STP  
Municipality: Conewago Township County: York  
Watershed: 7-F  
Laboratories: on site Dover Township STP Laboratory

Month: 7 (select number) Year: 2022  
Permit No.: PA0020826 Outfall: 001  
Renewal application due 180 days prior to expiration.  
This permit will expire on: June 30, 2022

Week	Day	Date	Flow	Fecal Coliform	BOD5	TSS	Dissolved Oxygen	pH	CBOD5	TSS	Total Phosphorus	NH3-N	TKN	NO2-N + NO3-N	Total Nitrogen	UV Intensity		
			1	1	RI	RI	1	1	1	1	1	1	1	1	1	1	1	1
Stage			MGD	CFU/100 ml	mg/L	mg/L	mg/L	S.U.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	%	
1	Fri	7/1/22	2.036		206.0	188.0	7.46	6.7	< 2.0	< 2.0	0.186	0.028	0.62	8.16	8.78	99.96		
	Sat	7/2/22	2.049		205.0	300.0	7.05	6.98	< 2.0	< 2.0	0.305	0.025	0.29	8.17	8.46	99.91		
	Sun	7/3/22	2.206				7.52	7.32								99.92		
	Mon	7/4/22	2.296				7.53	6.40								99.82		
	Tue	7/5/22	2.231	21.0	213.0	236.0	7.07	6.79	< 2.0	< 2.0	0.240	0.027	0.43	7.41	7.84	56.42		
	Wed	7/6/22	2.065	6.0	160.0	220.0	7.26	6.77	< 2.0	< 2.0	0.219	0.060	< 0.05	7.90	7.95	15.2		
	Thu	7/7/22	2.419	10.0	172.0	260.0	7.15	6.56	< 2.0	< 2.0	0.331	0.032	0.46	9.80	10.26	2.08		
	Fri	7/8/22	1.955		166.0	220.0	7.59	6.75	< 2.0	< 2.0	0.641	0.029	0.13	11.64	11.77	1.22		
	Sat	7/9/22	1.779		151.0	236.0	7.29	6.94	< 2.0	< 2.0	1.101	0.028	< 0.05	11.79	11.84	100.0		
	Sun	7/10/22	1.986				7.36	6.88								100.0		
	Mon	7/11/22	2.255	6.0	296.0	180.0	7.57	6.54	< 2.0	< 2.0	1.234	0.032	< 0.05	9.89	9.94	100.0		
	Tue	7/12/22	2.126		480.0	360.0	7.39	6.72	< 2.0	< 2.0	0.685	0.036	0.50	6.55	7.05	100.0		
	Wed	7/13/22	2.25	3.0	330.0	428.0	7.34	6.49	< 2.0	< 2.0	0.494	0.037	0.66	6.09	6.75	100.0		
	Thu	7/14/22	2.235	3.0			7.45	6.32								100.0		
	Fri	7/15/22	2.225		154.0	140.0	7.38	6.69	< 2.0	< 2.0	0.505	0.032	0.62	6.53	7.15	100.0		
	Sat	7/16/22	2.456		195.0	196.0	7.53	6.72	< 2.0	< 2.0	0.656	0.032	0.69	6.07	6.76	100.0		
	Sun	7/17/22	2.646				7.30	6.50								100.0		
	Mon	7/18/22	2.368		158.0	180.0	7.43	6.61	< 2.0	< 2.0	0.440	0.027	0.68	4.39	5.07	40.44		
	Tue	7/19/22	2.283	5.0			7.31	6.36								100.0		
	Wed	7/20/22	2.188	4.0	156.0	240.0	7.15	6.72	< 2.0	< 2.0	0.331	0.037	0.74	4.14	4.88	100.0		
	Thu	7/21/22	2.096	2.0	166.0	200.0	7.08	6.59	< 2.0	< 2.0	0.617	0.027	0.65	5.47	6.12	99.9		
	Fri	7/22/22	2.054		195.0	208.0	8.25	6.93	< 2.0	< 2.0	1.912	0.026	0.56	7.15	7.71	99.92		
	Sat	7/23/22	2.199		253.0	552.0	6.55	7.06	< 2.0	< 2.0	2.172	0.062	0.67	5.61	6.28	86.88		
	Sun	7/24/22	2.255				6.79	7.15								26.89		
	Mon	7/25/22	2.155	5.0	195.0	260.0	6.83	6.65	< 2.0	< 2.0	0.233	0.191	0.94	2.76	3.70	100.0		
	Tue	7/26/22	2.123		186.0	228.0	7.12	6.63	< 2.0	< 2.0	0.131	0.050	0.70	2.12	2.82	100.0		
	Wed	7/27/22	2.08	3.0			7.08	6.26								100.0		
	Thu	7/28/22	2.206	2.0	211.0	204.0	6.98	6.75	< 2.0	< 2.0	0.144	0.034	0.80	4.23	5.03	99.98		
	Fri	7/29/22	2.218		210.0	200.0	7.10	6.55	< 2.0	3.0	0.206	0.037	0.68	5.05	5.73	100.0		
	Sat	7/30/22	2.315		171.0	236.0	7.00	6.77	< 2.0	< 2.0	0.180	0.025	0.70	5.13	5.83	100.0		
	Sun	7/31/22	2.557				6.89	6.59								100.0		
<b>Statistics for DMR</b>																		
	Daily Minimum (Conc.):			2	151	140	6.55	6.26	< 2	< 2	0.131	0.025	< 0.05	2.12	2.82	1.22		
	Daily Maximum (Conc.):			21	480	552	8.25	7.32	< 2	3	2.172	0.191	0.94	11.79	11.84	100		
	Max Avg Weekly (Conc.):			291	291	276	7.43		< 2	< 2	1.094	0.067	0.76	9.71	9.93	100		
	Avg Monthly (Conc.):				210	249	7.25		< 2	< 2	0.6	0.04	< 0.53	6.64	7.17	84.79		
	Geometric Mean (Conc.):			5														
	Max Avg Weekly (Load):	2.262			5424	5023	138		< 38	< 40	20	1	14	167	171			
	Avg Monthly (Load):	2.204			3817	4504	133		< 36	< 37	11	0.8	< 10	119	129			
	Total Monthly (Load):	68.312			118327	139615	4129		< 1123	< 1149	327	23	< 318	3688	3990			
	Daily Minimum (Load):	1.779			2240	2598	108		< 30	< 30	2	0.4	< 0.7	38	50			
	Daily Maximum (Load):	2.646			8511	10123	161		< 41	< 55	40	3	17	198	207			

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: Christian L. Jordan  
Title: Superintendent

License No.: S17213  
Date: 12-Aug-22





## INSTRUCTIONS FOR COMPLETING DAILY EFFLUENT MONITORING SUPPLEMENTAL REPORT

This spreadsheet is used for recording daily sample results for effluent (although other stages can be selected), and includes DEP-approved calculations and handling of rounding and significant figures for reporting\*. The calculations are provided for convenience and do not automatically populate into online eDMR reports.

The recommended sequence of data entry is as follows: 1) Enter parameter names, units of measurement, and permit limits into the **Limits** worksheet, and 2) Enter daily monitoring results into the **Daily** worksheet (for each outfall). The statistics for DMR reporting are presented at the bottom of the Daily table. You may then manually enter the statistics results into the eDMR report.

### Limits Worksheet

1. Enter the Outfall Number from your permit or eDMR report.
2. In the column named "Parameter / Stage", select each parameter and its associated stage (monitoring location) from your permit or eDMR report that corresponds to the selected Outfall. Parameter names include the Parameter Code in parentheses. Common parameters are listed first, and then are listed alphabetically. Up to 30 parameters, including Flow, can be selected per Outfall. Stage names include the Stage Code in parentheses. Codes are shown to help you match your selections with the eDMR data entry screen. In the event a parameter or stage on your eDMR report is not available, please contact DEP at (717) 787-6744. It is assumed that Flow - Final Effluent is in your permit. This assumption is necessary for loading calculations, where applicable. If you are not required to measure flow in your permit for the outfall, please ignore it. If you are required to monitor a bacterial parameter (e.g., Fecal Coliform), it is recommended that you select this parameter immediately below "Flow" as explained below (No. 3, Daily Effluent Monitoring Worksheet).
3. Paper and electronic DMRs contain five columns or fields for data entry. In the Limits worksheet, the columns are named "Load 1", "Load 2", "Conc 1", "Conc 2", and "Conc 3". Enter permit limit values in the row for "LIMIT" and the appropriate column. If there is a "Monitor & Report" requirement only, type "Report". If there is no limit or monitoring required for the column, leave it blank. You can also select Statistical Codes from the lists below each limit field, though this is not required.
4. If you have entered a limit value for either Load 1 or Load 2 for a parameter, you must select a value for Units in the "Quantity or Loading" column. If you have entered a limit value for either Conc 1, Conc 2 or Conc 3 for a parameter, you must select a value for Units in the "Quality or Concentration" column. If a parameter does not, for example, have a limit value (including "Report") for Load 1 or Load 2, the Units value may remain blank.

### Daily Worksheet

1. Enter Facility Name, Municipality, County (select from list), Watershed No., Month (select number from list), Year (select from list), Permit No., and Permit Expiration Date (leave blank if not applicable). Also, report all laboratories where samples were analyzed during the month, including on-site analysis.
2. The first week of each month begins on a Sunday and the last week of each month ends on a Saturday. The Week column identifies the start of each weekly period for the purpose of computing weekly statistics. The full calendar month is used for calculating monthly statistics. Days and dates are automatically populated following your entry of the numeric Month and Year in Step 1. If the permit does not contain a weekly statistical reporting requirement for a parameter, do not enter data outside of the calendar month. For example, if you must report minimum and maximum pH measurements (but not weekly average), enter data beginning on the first day of the month and ending on the last day of the month. If, for example, you have a weekly average limit for CBOD<sub>5</sub>, and if samples were collected on any date shown on the form that is outside the calendar month, enter the results.

3. Parameters (abbreviated), stages (stage code), and units will be displayed in the order selected on the Limits worksheet. The Qualifier ("Q") columns allow you to select the "<" symbol. In addition, the first "Q" column to the right of Flow allows you to select the "<" symbol as well as the ">" symbol. By policy, DEP accepts the use of the ">" symbol only for bacterial results. Therefore, if you have a bacterial parameter in your permit, it is recommended that you select it after Flow in the Limits worksheet.
4. On each day in which a sample is collected for analysis, enter the result in the column corresponding to the parameter analyzed. **Enter the result exactly as reported by the laboratory or determined by on-site equipment.** If the result is reported as a "non-detect" result, enter the laboratory's reporting limit for the result and select the "less than" (<) symbol from the lists in the "Q" columns. For bacteria, if the result is "0", enter "1".
5. Statistics are computed at the bottom of the form. If a limit value exists for the statistic, the decimal places of the statistic will match that of the limit. If a limit value does not exist, the statistic will present the maximum number of decimal places from the reported results. Note - for maximum weekly average results, week 5 is not included in the results unless week 5 is a full week (7 days).
6. Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**Notes:**

1. In the Daily worksheet, the pane has been "frozen" so that pertinent information can be viewed at all times. You can "unfreeze" the panes at any time by clicking on Window - Unfreeze Panes (Excel 2003) or select the "View" tab from the "Windows" group, choose "Freeze Panes", and select "Unfreeze Panes" from the pop-up (Excel 2007).
2. If your permit contains limits in terms of micrograms, nanograms or picograms per liter ( $\mu\text{g/l}$ ,  $\text{ng/l}$  or  $\text{pg/l}$ ), please convert this to  $\text{mg/l}$  for entry into the Limits worksheet.
3. Chesapeake Bay nutrient parameters for Total Monthly Loading statistics (e.g., Total Nitrogen, parameter code 51445) cannot be selected on the Limits worksheet. However, you can select the concentration-based parameter that is equivalent (e.g., Total Nitrogen, parameter code 600), enter flows and concentration values, and Total Monthly Loading statistics will be calculated.
4. If you have a requirement to report on the functioning of your ultraviolet disinfection (UV) system (i.e., "UV Functional" parameter), you should select units of "Y/N" in the Limits worksheet and report values of "1" for Yes (UV Functional) and "< 1" for No (UV Not Functional) in the Daily worksheet.

*\* All attempts have been made in developing this spreadsheet to follow procedures contained in "Discharge Monitoring Reports Overview and Summary" (3800-BK-DEP3047). Please check the Supplemental Forms website for updates to this spreadsheet periodically and contact DEP at 717-787-2137 with questions. If your permit requires that you follow different procedures, you must follow your permit.*

**Select Parameters and Stages (Monitoring Locations) and Enter Limits Contained in Your Permit**

(Note - Flow is assumed. If it does not apply, please ignore).

Outfall No. \_\_\_\_\_

PARAMETER / STAGE		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			
		LOAD 1	LOAD 2	UNITS	CONC 1	CONC 2	CONC 3	UNITS
Flow (50050)	LIMIT	Report						
Final Effluent (1)	STATISTICAL CODE	Average Monthly		MGD	*****	*****	*****	*****
Fecal Coliform (74055)	LIMIT					200	1000	
Final Effluent (1)	STATISTICAL CODE					Geometric Mean	Daily Maximum	CFU/100 ml
BOD5 (310)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Total Suspended Solids (530)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Dissolved Oxygen (300)	LIMIT				5.0			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			mg/L
pH (400)	LIMIT				6.0		9.0	
Final Effluent (1)	STATISTICAL CODE				Daily Minimum		Daily Maximum	S.U.
CBOD5 (80082)	LIMIT	667	100			20	15	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Suspended Solids (530)	LIMIT	2000	3000			30	45	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Phosphorus (665)	LIMIT	133				2.0		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Ammonia-Nitrogen (610)	LIMIT	100				1.5		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Total Kjeldahl Nitrogen (625)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Nitrate-Nitrite as N (630)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Total Nitrogen (600)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
UV Intensity (49607)	LIMIT				Report			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			%
	LIMIT							
	STATISTICAL CODE							

**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

Facility Name: Dover Township STP  
Municipality: Conewago Township County: York  
Watershed: 7-F  
Laboratories: on site Dover Township STP Laboratory

Month: 8 (select number) Year: 2022  
Permit No.: PA0020826 Outfall: 001  
Renewal application due 180 days prior to expiration.  
This permit will expire on: June 30, 2022

Week	Day	Date	Flow	Fecal Coliform	BOD5	TSS	Dissolved Oxygen	pH	CBOD5	TSS	Total Phosphorus	NH3-N	TKN	NO2-N + NO3-N	Total Nitrogen	UV Intensity	
			MGD	CFU/100 ml	mg/L	mg/L	mg/L	S.U.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1	Sun	7/31/22	2.557				6.89	6.59								100.0	
	Mon	8/1/22	3.259	3.0	134.0	168.0	7.10	6.61	< 2.0	2.0	0.235	0.025	1.05	4.56	5.61	100.0	
	Tue	8/2/22	2.94				6.92	6.47								100.0	
	Wed	8/3/22	2.531	5.0	185.0	168.0	7.16	6.72	< 2.0	< 2.0	0.106	0.025	0.76	3.35	4.11	100.0	
	Thu	8/4/22	2.392	10.0	204.0	192.0	7.03	6.72	< 2.0	< 2.0	0.315	0.021	0.75	3.42	4.17	100.0	
	Fri	8/5/22	2.413		242.0	192.0	6.77	6.73	< 2.0	3.0	0.399	0.023	0.98	5.13	6.11	100.0	
	Sat	8/6/22	2.279		145.0	184.0	6.59	6.97	< 2.0	< 2.0	0.216	0.029	0.52	5.44	5.96	100.0	
2	Sun	8/7/22	2.299				6.90	6.44								100.0	
	Mon	8/8/22	2.137	3.0			6.63	6.45								100.0	
	Tue	8/9/22	2.068	4.0	164.0	228.0	6.92	6.48	< 2.0	< 2.0	0.175	0.040	0.62	4.65	5.27	100.0	
	Wed	8/10/22	2.011		231.0	268.0	6.76	6.76	< 2.0	< 2.0	0.124	0.028	0.50	4.72	5.22	100.0	
	Thu	8/11/22	2.229	4.0	163.0	248.0	6.92	6.64	< 2.0	< 2.0	0.144	0.027	0.42	4.70	5.12	100.0	
	Fri	8/12/22	2.049		138.0	204.0	6.98	6.71	< 2.0	< 2.0	0.167	0.022	0.54	5.09	5.63	100.0	
	Sat	8/13/22	2.041		159.0	232.0	7.18	6.61	< 2.0	< 2.0	0.175	0.021	0.52	5.49	6.01	100.0	
3	Sun	8/14/22	2.195				7.14	6.60								100.0	
	Mon	8/15/22	2.112		215.0	216.0	7.17	6.83	< 2.0	2.0	0.195	0.017	0.62	5.72	6.34	100.0	
	Tue	8/16/22	2.085	5.0	177.0	200.0	7.20	6.27	< 2.0	< 2.0	0.102	0.031	0.59	5.35	5.94	100.0	
	Wed	8/17/22	2.152	4.0	164.0	124.0	6.98	6.76	< 2.0	< 2.0	0.118	0.023	0.62	5.59	6.21	100.0	
	Thu	8/18/22	2.057	4.0	265.0	180.0	7.06	6.76	< 2.0	< 2.0	0.168	0.025	0.40	6.24	6.64	100.0	
	Fri	8/19/22	1.851				7.32	6.41								61.39	
	Sat	8/20/22	1.916		197.0	276.0	6.95	6.86	< 2.0	< 2.0	0.184	0.039	0.86	6.66	7.52	66.68	
4	Sun	8/21/22	2.113				6.38	6.67								71.09	
	Mon	8/22/22	2.182	8.0	246.0	172.0	6.88	6.54	< 2.0	< 2.0	0.230	0.044	0.62	6.10	6.72	32.28	
	Tue	8/23/22	2.126	6.0	175.0	224.0	6.94	6.17	< 2.0	< 2.0	0.106	0.051	0.77	5.00	5.77	100.0	
	Wed	8/24/22	2.047	3.0	191.0	216.0	6.95	6.47	< 2.0	< 2.0	0.085	0.045	0.74	4.31	5.05	100.0	
	Thu	8/25/22	2.054				7.09	6.73								100.0	
	Fri	8/26/22	2.011		155.0	268.0	6.93	6.77	< 2.0	< 2.0	0.109	0.045	0.74	5.26	6.00	100.0	
	Sat	8/27/22	2.099		205.0	272.0	6.54	6.77	< 2.0	< 2.0	0.116	0.037	0.75	5.81	6.56	100.0	
5	Sun	8/28/22	2.218				6.71	6.95								99.98	
	Mon	8/29/22	2.029	60.0	217.0	248.0	6.77	6.68	< 2.0	< 2.0	0.215	0.042	0.66	5.74	6.4	97.18	
	Tue	8/30/22	1.978	12.0			6.96	6.43								93.95	
	Wed	8/31/22	1.948		< 193.0	224.0	6.96	6.93	< 2.0	< 2.0	1.636	0.727	2.85	4.08	6.93	81.97	
	Thu	9/1/22	1.848	5.0	< 224.0	624.0	7.05	6.95	< 2.0	< 2.0	2.447	0.635	1.44	1.58	3.02	41.71	
	Fri	9/2/22	1.769		273.0	260.0	7.13	7.16	< 2.0	3.0	2.512	0.818	1.58	0.1	1.68	57.76	
	Sat	9/3/22	1.874		224.0	530.0	6.5	7.01	< 2.0	2.0	2.015	1.556	2.78	0.06	2.84	50.56	
<b>Statistics for DMR</b>																	
Daily Minimum (Conc.):				3	134	124	6.38	6.17	< 2	< 2	0.085	0.017	0.4	3.35	4.11	32.28	
Daily Maximum (Conc.):				60	265	276	7.32	6.97	< 2	3	1.636	0.727	2.85	6.66	7.52	100	
Max Avg Weekly (Conc.):				<	226	377	7.12		< 2	< 2	1.765	0.756	1.86	5.91	6.53	100	
Avg Monthly (Conc.):				<	189	214	6.93		< 2	< 2	0.2	0.1	0.77	5.11	5.88	93.69	
Geometric Mean (Conc.):				6													
Max Avg Weekly (Load):			2.624		3849	5914	152		< 43	< 47	27	12	29	102	112		
Avg Monthly (Load):			2.188		3426	3848	126		< 36	< 37	4	1	14	92	106		
Total Monthly (Load):			67.821		106216	119300	3920		< 1129	< 1157	134	33	435	2862	3295		
Daily Minimum (Load):			1.851		2358	2226	111		< 32	< 32	1	0.3	7	66	83		
Daily Maximum (Load):			3.259		4870	4762	193		< 54	60	27	12	46	124	152		

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: Christian L. Jordan License No.: S17213  
Title: Superintendent Date: 22-Sep-22



## INSTRUCTIONS FOR COMPLETING DAILY EFFLUENT MONITORING SUPPLEMENTAL REPORT

This spreadsheet is used for recording daily sample results for effluent (although other stages can be selected), and includes DEP-approved calculations and handling of rounding and significant figures for reporting\*. The calculations are provided for convenience and do not automatically populate into online eDMR reports.

The recommended sequence of data entry is as follows: 1) Enter parameter names, units of measurement, and permit limits into the **Limits** worksheet, and 2) Enter daily monitoring results into the **Daily** worksheet (for each outfall). The statistics for DMR reporting are presented at the bottom of the Daily table. You may then manually enter the statistics results into the eDMR report.

### Limits Worksheet

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1. Enter Facility Name, Municipality, County (select from list), Watershed No., Month (select number from list), Year (select from list), Permit No., and Permit Expiration Date (leave blank if not applicable). Also, report all laboratories where samples were analyzed during the month, including on-site analysis.
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3. Parameters (abbreviated), stages (stage code), and units will be displayed in the order selected on the Limits worksheet. The Qualifier ("Q") columns allow you to select the "<" symbol. In addition, the first "Q" column to the right of Flow allows you to select the "<" symbol as well as the ">" symbol. By policy, DEP accepts the use of the ">" symbol only for bacterial results. Therefore, if you have a bacterial parameter in your permit, it is recommended that you select it after Flow in the Limits worksheet.
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**Select Parameters and Stages (Monitoring Locations) and Enter Limits Contained in Your Permit**

(Note - Flow is assumed. If it does not apply, please ignore).

Outfall No. \_\_\_\_\_

PARAMETER / STAGE		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			
		LOAD 1	LOAD 2	UNITS	CONC 1	CONC 2	CONC 3	UNITS
Flow (50050)	LIMIT	Report						
Final Effluent (1)	STATISTICAL CODE	Average Monthly		MGD	*****	*****	*****	*****
Fecal Coliform (74055)	LIMIT					200	1000	
Final Effluent (1)	STATISTICAL CODE					Geometric Mean	Daily Maximum	CFU/100 ml
BOD5 (310)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Total Suspended Solids (530)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Dissolved Oxygen (300)	LIMIT				5.0			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			mg/L
pH (400)	LIMIT				6.0		9.0	
Final Effluent (1)	STATISTICAL CODE				Daily Minimum		Daily Maximum	S.U.
CBOD5 (80082)	LIMIT	667	100			20	15	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Suspended Solids (530)	LIMIT	2000	3000			30	45	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Phosphorus (665)	LIMIT	133				2.0		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Ammonia-Nitrogen (610)	LIMIT	100				1.5		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Total Kjeldahl Nitrogen (625)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Nitrate-Nitrite as N (630)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Total Nitrogen (600)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
UV Intensity (49607)	LIMIT				Report			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			%
	LIMIT							
	STATISTICAL CODE							





## INSTRUCTIONS FOR COMPLETING DAILY EFFLUENT MONITORING SUPPLEMENTAL REPORT

This spreadsheet is used for recording daily sample results for effluent (although other stages can be selected), and includes DEP-approved calculations and handling of rounding and significant figures for reporting\*. The calculations are provided for convenience and do not automatically populate into online eDMR reports.

The recommended sequence of data entry is as follows: 1) Enter parameter names, units of measurement, and permit limits into the **Limits** worksheet, and 2) Enter daily monitoring results into the **Daily** worksheet (for each outfall). The statistics for DMR reporting are presented at the bottom of the Daily table. You may then manually enter the statistics results into the eDMR report.

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1. Enter Facility Name, Municipality, County (select from list), Watershed No., Month (select number from list), Year (select from list), Permit No., and Permit Expiration Date (leave blank if not applicable). Also, report all laboratories where samples were analyzed during the month, including on-site analysis.
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Final Effluent (1)	STATISTICAL CODE				Daily Minimum			%
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Final Effluent (1)	STATISTICAL CODE	Average Monthly		MGD	*****	*****	*****	*****
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Final Effluent (1)	STATISTICAL CODE					Geometric Mean	Daily Maximum	CFU/100 ml
BOD5 (310)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
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Dissolved Oxygen (300)	LIMIT				5.0			
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pH (400)	LIMIT				6.0		9.0	
Final Effluent (1)	STATISTICAL CODE				Daily Minimum		Daily Maximum	S.U.
CBOD5 (80082)	LIMIT	1334	2000			20	30	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
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	LIMIT							
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**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

3800-FM-BCW0435 3/2012

Facility Name: Dover Township STP  
Municipality: Conewago Township County: York  
Watershed: 7-F  
Laboratories: on site Dover Township STP Laboratory

Month: 11 (select number) Year: 2022  
Permit No.: PA0020826 Outfall: 001  
Renewal application due 180 days prior to expiration.  
This permit will expire on: June 30, 2022

Week	Day	Date	Flow	Fecal Coliform	BOD5	TSS	Dissolved Oxygen	pH	CBOD5	TSS	Total Phosphorus	NH3-N	TKN	NO2-N + NO3-N	Total Nitrogen	UV Intensity		
			1	1	RI	RI	1	1	1	1	1	1	1	1	1	1	1	1
			MGD	CFU/100 ml	mg/L	mg/L	mg/L	S.U.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	%	
1	Sun	10/30/22	2.453				7.95	6.56									63.89	
	Mon	10/31/22	2.101	5.0	151.0	164.0	7.73	6.85	< 2.0	< 2.0	1.395	0.232	1.03	2.36	3.39	63.41		
	Tue	11/1/22	2.719	4.0	142.0	196.0	7.66	6.45	< 2.0	< 2.0	0.641	0.082	0.82	1.76	2.58	78.37		
	Wed	11/2/22	2.455		201.0	164.0	7.77	6.69	< 2.0	< 2.0	0.368	0.040	0.75	2.26	3.01	57.82		
	Thu	11/3/22	2.293	1.0			7.93	6.42								100.0		
	Fri	11/4/22	2.335		195.0	284.0	7.82	6.65	< 2.0	< 2.0	0.938	0.035	0.81	2.54	3.35	100.0		
	Sat	11/5/22	2.43		184.0	180.0	7.89	6.72	< 2.0	< 2.0	1.311	0.038	0.82	3.07	3.89	100.0		
2	Sun	11/6/22	2.405				7.76	6.60								100.0		
	Mon	11/7/22	2.065	3.0	216.0	184.0	7.47	6.73	< 2.0	< 2.0	1.254	0.375	1.17	2.73	3.90	90.95		
	Tue	11/8/22	1.899	4.0	193.0	200.0	7.78	6.98	< 2.0	< 2.0	0.633	0.110	0.83	1.85	2.68	91.73		
	Wed	11/9/22	1.957	4.0	189.0	376.0	8.05	6.58	< 2.0	< 2.0	0.479	0.111	0.94	3.55	4.49	89.75		
	Thu	11/10/22	2.059		181.0	272.0	8.10	6.73	< 2.0	< 2.0	1.089	0.176	0.87	6.57	7.44	87.82		
	Fri	11/11/22	2.836				8.01	6.64								73.72		
	Sat	11/12/22	3.381		230.0	180.0	7.90	6.89	< 2.0	< 2.0	1.983	0.483	1.23	5.71	6.94	87.76		
3	Sun	11/13/22	3.088				7.93	6.97								100.0		
	Mon	11/14/22	2.62	2.0	150.0	108.0	7.95	6.62	< 2.0	2.0	1.114	0.514	1.25	2.27	3.52	100.0		
	Tue	11/15/22	2.774		76.0	188.0	8.37	6.18	< 2.0	3.0	0.435	0.116	0.86	2.41	3.27	100.0		
	Wed	11/16/22	4.652	12.0			7.72	6.52								100.0		
	Thu	11/17/22	3.582	6.0	120.0	148.0	7.88	6.77	2.0	2.0	0.624	0.085	0.90	3.62	4.52	100.0		
	Fri	11/18/22	3.122		109.0	188.0	8.44	6.52	< 2.0	< 4.0	0.703	0.056	0.75	3.19	3.94	100.0		
	Sat	11/19/22	3.07		195.0	152.0	7.59	6.75	< 2.0	< 2.0	0.730	0.179	0.93	2.84	3.77	100.0		
4	Sun	11/20/22	2.976				8.59	6.73								99.86		
	Mon	11/21/22	2.754	5.0	165.0	180.0	8.56	6.79	< 2.0	< 2.0	1.562	2.355	3.11	0.86	3.97	100.0		
	Tue	11/22/22	2.658	8.0	167.0	220.0	8.59	6.24	< 2.0	2.0	0.825	4.164	5.14	0.71	5.85	100.0		
	Wed	11/23/22	2.681	4.0	208.0	256.0	9.28	6.58	< 2.0	2.0	0.191	2.248	3.01	1.52	4.53	100.0		
	Thu	11/24/22	2.837				9.41	6.74								100.0		
	Fri	11/25/22	2.482		431.0	568.0	8.11	6.96	< 2.0	3.0	0.639	2.369	3.14	0.88	4.02	100.0		
	Sat	11/26/22	2.507		222.0	332.0	8.40	6.72	< 2.0	< 2.0	0.318	1.750	2.69	1.26	3.95	100.0		
5	Sun	11/27/22	2.665				8.29	6.62								100.0		
	Mon	11/28/22	2.809		280.0	252.0	8.12	6.52	2.0	< 2.0	0.297	2.537	3.13	0.57	3.7	100.0		
	Tue	11/29/22	2.323	3.0			8.33	6.42								100.0		
	Wed	11/30/22	2.806	4.0	195.0	188.0	8.55	6.65	< 2.0	< 2.0	0.111	0.132	0.86	0.94	1.8	100.0		
	Thu	12/1/22	2.863	2.0	142.0	196.0	8.72	6.64	< 2.0	< 2.0	0.127	0.351	1.17	1.03	2.2	100.0		
	Fri	12/2/22	2.599		127.0	176.0	8.65	6.8	< 2.0	< 2.0	0.144	0.419	1.25	1.34	2.59	100.0		
	Sat	12/3/22	3.005		222.0	288.0	8.8	6.89	< 2.0	< 2.0	0.134	1.051	1.84	1.49	3.33	100.0		
<b>Statistics for DMR</b>																		
Daily Minimum (Conc.):			1		76	108	7.47	6.18	< 2	< 2	0.111	0.035	0.75	0.57	1.8	57.82		
Daily Maximum (Conc.):			12		431	568	9.41	6.98	2	< 4	1.983	4.164	5.14	6.57	7.44	100		
Max Avg Weekly (Conc.):					239	311	8.71		< 2	< 3	1.088	2.577	3.42	4.08	5.09	100		
Avg Monthly (Conc.):					< 193	229	8.14		< 2	< 2	0.8	0.9	1.62	2.43	4.05	95.26		
Geometric Mean (Conc.):			4															
Max Avg Weekly (Load):			3.273		5141	6687	217		< 51	< 66	23	56	75	82	101			
Avg Monthly (Load):			2.708		< 4171	4898	184		< 44	< 48	17	19	38	54	89			
Total Monthly (Load):			81.24		< 125139	146937	5517		< 1315	< 1452	513	569	1138	1607	2677			
Daily Minimum (Load):			1.899		1758	2360	123		< 32	< 32	3	0.7	15	13	42			
Daily Maximum (Load):			4.652		8922	11758	300		< 60	< 104	56	92	114	161	196			

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: Christian L. Jordan  
Title: Superintendent

License No.: S17213  
Date: 12-Dec-22

## INSTRUCTIONS FOR COMPLETING DAILY EFFLUENT MONITORING SUPPLEMENTAL REPORT

This spreadsheet is used for recording daily sample results for effluent (although other stages can be selected), and includes DEP-approved calculations and handling of rounding and significant figures for reporting\*. The calculations are provided for convenience and do not automatically populate into online eDMR reports.

The recommended sequence of data entry is as follows: 1) Enter parameter names, units of measurement, and permit limits into the **Limits** worksheet, and 2) Enter daily monitoring results into the **Daily** worksheet (for each outfall). The statistics for DMR reporting are presented at the bottom of the Daily table. You may then manually enter the statistics results into the eDMR report.

### Limits Worksheet

1. Enter the Outfall Number from your permit or eDMR report.
2. In the column named "Parameter / Stage", select each parameter and its associated stage (monitoring location) from your permit or eDMR report that corresponds to the selected Outfall. Parameter names include the Parameter Code in parentheses. Common parameters are listed first, and then are listed alphabetically. Up to 30 parameters, including Flow, can be selected per Outfall. Stage names include the Stage Code in parentheses. Codes are shown to help you match your selections with the eDMR data entry screen. In the event a parameter or stage on your eDMR report is not available, please contact DEP at (717) 787-6744. It is assumed that Flow - Final Effluent is in your permit. This assumption is necessary for loading calculations, where applicable. If you are not required to measure flow in your permit for the outfall, please ignore it. If you are required to monitor a bacterial parameter (e.g., Fecal Coliform), it is recommended that you select this parameter immediately below "Flow" as explained below (No. 3, Daily Effluent Monitoring Worksheet).
3. Paper and electronic DMRs contain five columns or fields for data entry. In the Limits worksheet, the columns are named "Load 1", "Load 2", "Conc 1", "Conc 2", and "Conc 3". Enter permit limit values in the row for "LIMIT" and the appropriate column. If there is a "Monitor & Report" requirement only, type "Report". If there is no limit or monitoring required for the column, leave it blank. You can also select Statistical Codes from the lists below each limit field, though this is not required.
4. If you have entered a limit value for either Load 1 or Load 2 for a parameter, you must select a value for Units in the "Quantity or Loading" column. If you have entered a limit value for either Conc 1, Conc 2 or Conc 3 for a parameter, you must select a value for Units in the "Quality or Concentration" column. If a parameter does not, for example, have a limit value (including "Report") for Load 1 or Load 2, the Units value may remain blank.

### Daily Worksheet

1. Enter Facility Name, Municipality, County (select from list), Watershed No., Month (select number from list), Year (select from list), Permit No., and Permit Expiration Date (leave blank if not applicable). Also, report all laboratories where samples were analyzed during the month, including on-site analysis.
2. The first week of each month begins on a Sunday and the last week of each month ends on a Saturday. The Week column identifies the start of each weekly period for the purpose of computing weekly statistics. The full calendar month is used for calculating monthly statistics. Days and dates are automatically populated following your entry of the numeric Month and Year in Step 1. If the permit does not contain a weekly statistical reporting requirement for a parameter, do not enter data outside of the calendar month. For example, if you must report minimum and maximum pH measurements (but not weekly average), enter data beginning on the first day of the month and ending on the last day of the month. If, for example, you have a weekly average limit for CBOD<sub>5</sub>, and if samples were collected on any date shown on the form that is outside the calendar month, enter the results.

3. Parameters (abbreviated), stages (stage code), and units will be displayed in the order selected on the Limits worksheet. The Qualifier ("Q") columns allow you to select the "<" symbol. In addition, the first "Q" column to the right of Flow allows you to select the "<" symbol as well as the ">" symbol. By policy, DEP accepts the use of the ">" symbol only for bacterial results. Therefore, if you have a bacterial parameter in your permit, it is recommended that you select it after Flow in the Limits worksheet.
4. On each day in which a sample is collected for analysis, enter the result in the column corresponding to the parameter analyzed. **Enter the result exactly as reported by the laboratory or determined by on-site equipment.** If the result is reported as a "non-detect" result, enter the laboratory's reporting limit for the result and select the "less than" (<) symbol from the lists in the "Q" columns. For bacteria, if the result is "0", enter "1".
5. Statistics are computed at the bottom of the form. If a limit value exists for the statistic, the decimal places of the statistic will match that of the limit. If a limit value does not exist, the statistic will present the maximum number of decimal places from the reported results. Note - for maximum weekly average results, week 5 is not included in the results unless week 5 is a full week (7 days).
6. Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**Notes:**

1. In the Daily worksheet, the pane has been "frozen" so that pertinent information can be viewed at all times. You can "unfreeze" the panes at any time by clicking on Window - Unfreeze Panes (Excel 2003) or select the "View" tab from the "Windows" group, choose "Freeze Panes", and select "Unfreeze Panes" from the pop-up (Excel 2007).
2. If your permit contains limits in terms of micrograms, nanograms or picograms per liter ( $\mu\text{g/l}$ ,  $\text{ng/l}$  or  $\text{pg/l}$ ), please convert this to  $\text{mg/l}$  for entry into the Limits worksheet.
3. Chesapeake Bay nutrient parameters for Total Monthly Loading statistics (e.g., Total Nitrogen, parameter code 51445) cannot be selected on the Limits worksheet. However, you can select the concentration-based parameter that is equivalent (e.g., Total Nitrogen, parameter code 600), enter flows and concentration values, and Total Monthly Loading statistics will be calculated.
4. If you have a requirement to report on the functioning of your ultraviolet disinfection (UV) system (i.e., "UV Functional" parameter), you should select units of "Y/N" in the Limits worksheet and report values of "1" for Yes (UV Functional) and "< 1" for No (UV Not Functional) in the Daily worksheet.

*\* All attempts have been made in developing this spreadsheet to follow procedures contained in "Discharge Monitoring Reports Overview and Summary" (3800-BK-DEP3047). Please check the Supplemental Forms website for updates to this spreadsheet periodically and contact DEP at 717-787-2137 with questions. If your permit requires that you follow different procedures, you must follow your permit.*

**Select Parameters and Stages (Monitoring Locations) and Enter Limits Contained in Your Permit**

(Note - Flow is assumed. If it does not apply, please ignore).

Outfall No. \_\_\_\_\_

PARAMETER / STAGE		QUANTITY OR LOADING			QUALITY OR CONCENTRATION			
		LOAD 1	LOAD 2	UNITS	CONC 1	CONC 2	CONC 3	UNITS
Flow (50050)	LIMIT	Report						
Final Effluent (1)	STATISTICAL CODE	Average Monthly		MGD	*****	*****	*****	*****
Fecal Coliform (74055)	LIMIT					2000	10000	
Final Effluent (1)	STATISTICAL CODE					Geometric Mean	Daily Maximum	CFU/100 ml
BOD5 (310)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Total Suspended Solids (530)	LIMIT	Report	Report			Report		
Raw Sewage Influent (RI)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly		mg/L
Dissolved Oxygen (300)	LIMIT				5.0			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			mg/L
pH (400)	LIMIT				6.0		9.0	
Final Effluent (1)	STATISTICAL CODE				Daily Minimum		Daily Maximum	S.U.
CBOD5 (80082)	LIMIT	1334	2000			20	30	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Suspended Solids (530)	LIMIT	2000	3000			30	45	
Final Effluent (1)	STATISTICAL CODE	Average Monthly	Weekly Average	lbs/day		Average Monthly	Weekly Average	mg/L
Total Phosphorus (665)	LIMIT	133				2.0		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Ammonia-Nitrogen (610)	LIMIT	300				4.5		
Final Effluent (1)	STATISTICAL CODE	Average Monthly		lbs/day		Average Monthly		mg/L
Total Kjeldahl Nitrogen (625)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Nitrate-Nitrite as N (630)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
Total Nitrogen (600)	LIMIT	Report	Report			Report		
Final Effluent (1)	STATISTICAL CODE	Total Monthly	Average	lbs/day		Average Monthly		mg/L
UV Intensity (49607)	LIMIT				Report			
Final Effluent (1)	STATISTICAL CODE				Daily Minimum			%
	LIMIT							
	STATISTICAL CODE							







## INSTRUCTIONS FOR COMPLETING DAILY EFFLUENT MONITORING SUPPLEMENTAL REPORT

This spreadsheet is used for recording daily sample results for effluent (although other stages can be selected), and includes DEP-approved calculations and handling of rounding and significant figures for reporting\*. The calculations are provided for convenience and do not automatically populate into online eDMR reports.

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**Notes:**

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**SUPPLEMENTAL REPORT - HAULED IN MUNICIPAL WASTES**

Facility Name: Dover Township STP  
 Municipality: Conewago County: York  
 Watershed: 7-F

Month: January Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: June 30, 2022

Day	SEPTAGE				SLUDGE				OTHER (specify): <b>Holding &amp; Supernatant</b>				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)	Disposal Location	Gallons	BOD <sub>5</sub> (lbs)
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12									10,000				10,000	0
13														
14									7,500				7,500	0
15														
16														
17														
18									7,500				7,500	0
19									15,000				15,000	0
20									10,000				10,000	0
21									20,000				20,000	0
22														
23														
24														
25														
26									20,000				20,000	0
27									12,500				12,500	0
28									7,500				7,500	0
29														
30														
31									12,500				12,500	0
Avg									12,250				Monthly Totals: 122,500	

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 3/1/2022

## INSTRUCTIONS FOR COMPLETING HAULED IN MUNICIPAL WASTES SUPPLEMENTAL REPORT

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

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For septage, sludge and other wastewaters (specify type in the space provided), record the daily volume received in gallons, the daily BOD<sub>5</sub> concentration (average), and the disposal location. The mass of BOD<sub>5</sub> introduced (lbs) is calculated automatically. Cells for disposal location have drop-down lists; you may select one of the options or type in your own description. Monthly average values and daily total values are calculated automatically.
- 3 Determine daily BOD<sub>5</sub> concentrations in mg/l by sampling loads in accordance with the permit or otherwise as determined by the facility. Periodic sampling of loads is encouraged to improve confidence in reported results.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - HAULED IN MUNICIPAL WASTES**

Facility Name: Dover Township STP  
 Municipality: Conewago County: York  
 Watershed: 7-F

Month: February Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due **180 days** prior to expiration.  
 This permit will expire on: June 30, 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)	Disposal Location	Gallons	BOD <sub>5</sub> (lbs)
1														
2									7,500			Headworks	7,500	0
3									7,500			Headworks	7,500	0
4														
5														
6														
7									5,000			Headworks	5,000	0
8									10,000			Headworks	10,000	0
9									17,500			Headworks	17,500	0
10									15,000			Headworks	15,000	0
11									10,000			Headworks	10,000	0
12														
13														
14									17,500			Headworks	17,500	0
15									5,000			Headworks	5,000	0
16									2,500			Headworks	2,500	0
17									20,000			Headworks	20,000	0
18														
19														
20														
21														
22									12,500			Headworks	12,500	0
23									5,000			Headworks	5,000	0
24									12,500			Headworks	12,500	0
25									22,500			Headworks	22,500	0
26														
27														
28									20,000			Headworks	20,000	0
29														
30														
31														
Avg									11,875			Monthly Totals:	190,000	

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 3/21/2022

## INSTRUCTIONS FOR COMPLETING HAULED IN MUNICIPAL WASTES SUPPLEMENTAL REPORT

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

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For septage, sludge and other wastewaters (specify type in the space provided), record the daily volume received in gallons, the daily BOD<sub>5</sub> concentration (average), and the disposal location. The mass of BOD<sub>5</sub> introduced (lbs) is calculated automatically. Cells for disposal location have drop-down lists; you may select one of the options or type in your own description. Monthly average values and daily total values are calculated automatically.
- 3 Determine daily BOD<sub>5</sub> concentrations in mg/l by sampling loads in accordance with the permit or otherwise as determined by the facility. Periodic sampling of loads is encouraged to improve confidence in reported results.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.



**SUPPLEMENTAL REPORT - HAULED IN MUNICIPAL WASTES**

Facility Name: Dover Township STP  
 Municipality: Conewago County: York  
 Watershed: 7-F

Month: March Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: June 30, 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)	Disposal Location	Gallons	BOD <sub>5</sub> (lbs)
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
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26														
27														
28														
29														
30														
31														
Avg													Monthly Totals:	

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 3/31/2022

## INSTRUCTIONS FOR COMPLETING HAULED IN MUNICIPAL WASTES SUPPLEMENTAL REPORT

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

- 1** Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2** For septage, sludge and other wastewaters (specify type in the space provided), record the daily volume received in gallons, the daily BOD<sub>5</sub> concentration (average), and the disposal location. The mass of BOD<sub>5</sub> introduced (lbs) is calculated automatically. Cells for disposal location have drop-down lists; you may select one of the options or type in your own description. Monthly average values and daily total values are calculated automatically.
- 3** Determine daily BOD<sub>5</sub> concentrations in mg/l by sampling loads in accordance with the permit or otherwise as determined by the facility. Periodic sampling of loads is encouraged to improve confidence in reported results.
- 4** Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - HAULED IN MUNICIPAL WASTES**

Facility Name: Dover Township STP  
 Municipality: Conewago County: York  
 Watershed: 7-F

Month: April Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due **180 days** prior to expiration.  
 This permit will expire on: June 30, 2022

Day	SEPTAGE				SLUDGE				OTHER (specify): <b>Holding &amp; Supernatant</b>				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)	Disposal Location	Gallons	BOD <sub>5</sub> (lbs)
1														
2														
3														
4														
5									15,000			Headworks	15,000	0
6	1,000			Headworks					14,000			Headworks	15,000	0
7									15,000			Headworks	15,000	0
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
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25														
26														
27														
28														
29														
30														
31														
Avg	1,000								14,667			Monthly Totals:	45,000	

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 5/23/2022

## INSTRUCTIONS FOR COMPLETING HAULED IN MUNICIPAL WASTES SUPPLEMENTAL REPORT

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

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For septage, sludge and other wastewaters (specify type in the space provided), record the daily volume received in gallons, the daily BOD<sub>5</sub> concentration (average), and the disposal location. The mass of BOD<sub>5</sub> introduced (lbs) is calculated automatically. Cells for disposal location have drop-down lists; you may select one of the options or type in your own description. Monthly average values and daily total values are calculated automatically.
- 3 Determine daily BOD<sub>5</sub> concentrations in mg/l by sampling loads in accordance with the permit or otherwise as determined by the facility. Periodic sampling of loads is encouraged to improve confidence in reported results.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - HAULED IN MUNICIPAL WASTES**

Facility Name: Dover Township STP  
 Municipality: Conewago County: York  
 Watershed: 7-F

Month: May Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due **180 days** prior to expiration.  
 This permit will expire on: June 30, 2022

Day	SEPTAGE				SLUDGE				OTHER (specify): <b>Holding &amp; Supernatant</b>				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)	Disposal Location	Gallons	BOD <sub>5</sub> (lbs)
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
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27														
28														
29														
30														
31														
Avg													Monthly Totals:	

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 6/15/2022

## INSTRUCTIONS FOR COMPLETING HAULED IN MUNICIPAL WASTES SUPPLEMENTAL REPORT

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

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For septage, sludge and other wastewaters (specify type in the space provided), record the daily volume received in gallons, the daily BOD<sub>5</sub> concentration (average), and the disposal location. The mass of BOD<sub>5</sub> introduced (lbs) is calculated automatically. Cells for disposal location have drop-down lists; you may select one of the options or type in your own description. Monthly average values and daily total values are calculated automatically.
- 3 Determine daily BOD<sub>5</sub> concentrations in mg/l by sampling loads in accordance with the permit or otherwise as determined by the facility. Periodic sampling of loads is encouraged to improve confidence in reported results.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - HAULED IN MUNICIPAL WASTES**

Facility Name: Dover Township STP  
 Municipality: Conewago County: York  
 Watershed: 7-F

Month: June Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due **180 days** prior to expiration.  
 This permit will expire on: June 30, 2022

Day	SEPTAGE				SLUDGE				OTHER (specify): <b>Holding &amp; Supernatant</b>				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)	Disposal Location	Gallons	BOD <sub>5</sub> (lbs)
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
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12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23	4,000			Headworks									4,000	0
24														
25														
26														
27														
28														
29														
30														
31														
Avg	4,000												Monthly Totals: 4,000	

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 7/15/2022

## INSTRUCTIONS FOR COMPLETING HAULED IN MUNICIPAL WASTES SUPPLEMENTAL REPORT

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

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For septage, sludge and other wastewaters (specify type in the space provided), record the daily volume received in gallons, the daily BOD<sub>5</sub> concentration (average), and the disposal location. The mass of BOD<sub>5</sub> introduced (lbs) is calculated automatically. Cells for disposal location have drop-down lists; you may select one of the options or type in your own description. Monthly average values and daily total values are calculated automatically.
- 3 Determine daily BOD<sub>5</sub> concentrations in mg/l by sampling loads in accordance with the permit or otherwise as determined by the facility. Periodic sampling of loads is encouraged to improve confidence in reported results.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.



**SUPPLEMENTAL REPORT - HAULED IN MUNICIPAL WASTES**

Facility Name: Dover Township STP  
 Municipality: Conewago County: York  
 Watershed: 7-F

Month: July Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due **180 days** prior to expiration.  
 This permit will expire on: June 30, 2022

Day	SEPTAGE				SLUDGE				OTHER (specify): <b>Holding &amp; Supernatant</b>				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)	Disposal Location	Gallons	BOD <sub>5</sub> (lbs)
1	2,000			Headworks									2,000	0
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15	4,000			Headworks					4,000			Headworks	8,000	0
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
Avg	3,000								4,000			Monthly Totals:	10,000	

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 8/16/2022

## INSTRUCTIONS FOR COMPLETING HAULED IN MUNICIPAL WASTES SUPPLEMENTAL REPORT

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

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For septage, sludge and other wastewaters (specify type in the space provided), record the daily volume received in gallons, the daily BOD<sub>5</sub> concentration (average), and the disposal location. The mass of BOD<sub>5</sub> introduced (lbs) is calculated automatically. Cells for disposal location have drop-down lists; you may select one of the options or type in your own description. Monthly average values and daily total values are calculated automatically.
- 3 Determine daily BOD<sub>5</sub> concentrations in mg/l by sampling loads in accordance with the permit or otherwise as determined by the facility. Periodic sampling of loads is encouraged to improve confidence in reported results.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - HAULED IN MUNICIPAL WASTES**

Facility Name: Dover Township STP  
 Municipality: Conewago County: York  
 Watershed: 7-F

Month: August Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: June 30, 2022

Day	SEPTAGE				SLUDGE				OTHER (specify): <b>Holding &amp; Supernatant</b>				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)	Disposal Location	Gallons	BOD <sub>5</sub> (lbs)
1														
2														
3														
4	5,500			Headworks									5,500	0
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19	4,000			Headworks									4,000	0
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
Avg	4,750												Monthly Totals: 9,500	

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 9/21/2022

## INSTRUCTIONS FOR COMPLETING HAULED IN MUNICIPAL WASTES SUPPLEMENTAL REPORT

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

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For septage, sludge and other wastewaters (specify type in the space provided), record the daily volume received in gallons, the daily BOD<sub>5</sub> concentration (average), and the disposal location. The mass of BOD<sub>5</sub> introduced (lbs) is calculated automatically. Cells for disposal location have drop-down lists; you may select one of the options or type in your own description. Monthly average values and daily total values are calculated automatically.
- 3 Determine daily BOD<sub>5</sub> concentrations in mg/l by sampling loads in accordance with the permit or otherwise as determined by the facility. Periodic sampling of loads is encouraged to improve confidence in reported results.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - HAULED IN MUNICIPAL WASTES**

Facility Name: Dover Township STP  
 Municipality: Conewago County: York  
 Watershed: 7-F

Month: September Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due **180 days** prior to expiration.  
 This permit will expire on: June 30, 2022

Day	SEPTAGE				SLUDGE				OTHER (specify): <b>Holding &amp; Supernatant</b>				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)	Disposal Location	Gallons	BOD <sub>5</sub> (lbs)
1														
2	3,500			Headworks									3,500	0
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15	1,500			Headworks									1,500	0
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
Avg	2,500												Monthly Totals: 5,000	

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 10/25/2022

## INSTRUCTIONS FOR COMPLETING HAULED IN MUNICIPAL WASTES SUPPLEMENTAL REPORT

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

- 1** Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2** For septage, sludge and other wastewaters (specify type in the space provided), record the daily volume received in gallons, the daily BOD<sub>5</sub> concentration (average), and the disposal location. The mass of BOD<sub>5</sub> introduced (lbs) is calculated automatically. Cells for disposal location have drop-down lists; you may select one of the options or type in your own description. Monthly average values and daily total values are calculated automatically.
- 3** Determine daily BOD<sub>5</sub> concentrations in mg/l by sampling loads in accordance with the permit or otherwise as determined by the facility. Periodic sampling of loads is encouraged to improve confidence in reported results.
- 4** Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - HAULED IN MUNICIPAL WASTES**

Facility Name: Dover Township STP  
 Municipality: Conewago County: York  
 Watershed: 7-F

Month: October Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: June 30, 2022

Day	SEPTAGE				SLUDGE				OTHER (specify): <b>Holding &amp; Supernatant</b>				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)	Disposal Location	Gallons	BOD <sub>5</sub> (lbs)
1														
2														
3														
4														
5														
6														
7	2,800			Headworks									2,800	0
8														
9														
10														
11														
12	4,400			Headworks									4,400	0
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24									2,200			Headworks	2,200	0
25														
26	1,000			Headworks									1,000	0
27														
28														
29														
30														
31														
Avg	2,733								2,200			Monthly Totals:	10,400	

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 11/22/2022

## INSTRUCTIONS FOR COMPLETING HAULED IN MUNICIPAL WASTES SUPPLEMENTAL REPORT

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

- 1** Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2** For septage, sludge and other wastewaters (specify type in the space provided), record the daily volume received in gallons, the daily BOD<sub>5</sub> concentration (average), and the disposal location. The mass of BOD<sub>5</sub> introduced (lbs) is calculated automatically. Cells for disposal location have drop-down lists; you may select one of the options or type in your own description. Monthly average values and daily total values are calculated automatically.
- 3** Determine daily BOD<sub>5</sub> concentrations in mg/l by sampling loads in accordance with the permit or otherwise as determined by the facility. Periodic sampling of loads is encouraged to improve confidence in reported results.
- 4** Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.



**SUPPLEMENTAL REPORT - HAULED IN MUNICIPAL WASTES**

Facility Name: Dover Township STP  
 Municipality: Conewago County: York  
 Watershed: 7-F

Month: November Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due **180 days** prior to expiration.  
 This permit will expire on: June 30, 2022

Day	SEPTAGE				SLUDGE				OTHER (specify): <b>Holding &amp; Supernatant</b>				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)	Disposal Location	Gallons	BOD <sub>5</sub> (lbs)
1	4,100			Headworks									4,100	0
2														
3														
4														
5														
6														
7														
8														
9	4,000			Headworks									4,000	0
10	7,200			Headworks									7,200	0
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
Avg	5,100												Monthly Totals: 15,300	

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 12/14/2022

## INSTRUCTIONS FOR COMPLETING HAULED IN MUNICIPAL WASTES SUPPLEMENTAL REPORT

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

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For septage, sludge and other wastewaters (specify type in the space provided), record the daily volume received in gallons, the daily BOD<sub>5</sub> concentration (average), and the disposal location. The mass of BOD<sub>5</sub> introduced (lbs) is calculated automatically. Cells for disposal location have drop-down lists; you may select one of the options or type in your own description. Monthly average values and daily total values are calculated automatically.
- 3 Determine daily BOD<sub>5</sub> concentrations in mg/l by sampling loads in accordance with the permit or otherwise as determined by the facility. Periodic sampling of loads is encouraged to improve confidence in reported results.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - HAULED IN MUNICIPAL WASTES**

Facility Name: Dover Township STP  
 Municipality: Conewago County: York  
 Watershed: 7-F

Month: December Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: June 30, 2022

Day	SEPTAGE				SLUDGE				OTHER (specify): <b>Holding &amp; Supernatant</b>				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)	Disposal Location	Gallons	BOD <sub>5</sub> (lbs)
1				Headworks										
2														
3														
4														
5														
6														
7	4,000			Headworks									4,000	0
8														
9														
10														
11														
12														
13									25,000			Headworks	25,000	0
14														
15														
16									2,500			Headworks	2,500	0
17														
18														
19									5,000			Headworks	5,000	0
20									2,500			Headworks	2,500	0
21									15,000			Headworks	15,000	0
22									7,500			Headworks	7,500	0
23														
24														
25														
26														
27									32,500			Headworks	32,500	0
28									10,000			Headworks	10,000	0
29									10,000			Headworks	10,000	0
30														
31														
Avg	4,000								12,222			Monthly Totals:	114,000	

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 1/13/2023

## INSTRUCTIONS FOR COMPLETING HAULED IN MUNICIPAL WASTES SUPPLEMENTAL REPORT

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

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For septage, sludge and other wastewaters (specify type in the space provided), record the daily volume received in gallons, the daily BOD<sub>5</sub> concentration (average), and the disposal location. The mass of BOD<sub>5</sub> introduced (lbs) is calculated automatically. Cells for disposal location have drop-down lists; you may select one of the options or type in your own description. Monthly average values and daily total values are calculated automatically.
- 3 Determine daily BOD<sub>5</sub> concentrations in mg/l by sampling loads in accordance with the permit or otherwise as determined by the facility. Periodic sampling of loads is encouraged to improve confidence in reported results.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL**

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

Month: January Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: June 30, 2022

Day	Influent					Process Control				
	Flow (MGD)	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	3.453						0.25			
2	5.317	233.0	10,332	268.0	11,884		0.5			
3	3.815						0.25	44,681.65		
4	3.407	131.0	3,722	146.0	4,148	3,475.0	0.25	71,998.0		
5	3.329	116.0	3,221	164.0	4,553		0.25	84,551.23		
6	3.195	131.0	3,491	144.0	3,837		0.25	100,796.16		
7	3.296	192.0	5,278	356.0	9,786		0.25	55,614.55		
8	3.214						0.25			
9	3.66	154.0	4,701	92.0	2,808		0.24			
10	3.957	182.0	6,006	198.0	6,534	3,190.0	0.23			
11	3.553						0.23	37,823.36		
12	3.5						0.22	72,005.73		
13	3.443	175.0	5,025	180.0	5,169		0.22	71,998.93		
14	3.388	207.0	5,849	172.0	4,860		0.29	23,361.14		
15	3.403	199.0	5,648	204.0	5,790		0.25			
16	3.345						0.25			
17	6.29	255.0	13,377	252.0	13,220		0.11			
18	5.044	101.0	4,249	168.0	7,067		0.11			
19	4.62	169.0	6,512	104.0	4,007		0.06			
20	5.717	171.0	8,153	128.0	6,103		0.06			
21	4.848						0.07	65,969.36		
22	4.558	68.0	2,585	148.0	5,626		0.05	172,791.19		
23	4.502						0.05	172,795.95		
24	4.141	300.0	10,361	316.0	10,913	4,190.0	0.06	108,741.98		
25	3.938	143.0	4,697	124.0	4,073		0.24	71,757.84		
26	3.759						0.25	117,277.87		
27	3.536	183.0	5,397	180.0	5,308		0.26	86,399.56		
28	3.432	149.0	4,265	208.0	5,954		0.26	86,392.2		
29	3.51	195.0	5,708	168.0	4,918		0.27	86,396.06		
30	3.393						0.25	32,377.7		
31	2.981	206.0	5,121	253.0	6,290	3,860.0	0.26	32,821.98		
Avg	3.921	174	5,890	189	6,326	3,679	0	79,828		
Max	6.29	300	13,377	356	13,220	4,190	1	172,796		

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 2/14/2022



## INSTRUCTIONS FOR COMPLETING INFLUENT & PROCESS CONTROL SUPPLEMENTAL REPORT

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For **Influent**, enter daily average Influent Flow (MGD) (if an influent flow meter is in use), daily influent BOD<sub>5</sub> (or CBOD<sub>5</sub>) concentrations (mg/l) and loads (lbs), and daily influent TSS concentrations (mg/l) and loads (lbs). BOD<sub>5</sub> and TSS loads are automatically calculated if Influent Flow and concentration values are entered. If an influent flow meter is not in use, you may use results from an effluent flow meter.
- 3 For **Process Control**, enter daily average Mixed Liquor Suspended Solids (MLSS) (mg/l) and daily average Aeration Dissolved Oxygen (DO) for aerobic biological treatment systems; total daily Sludge Wasted (removed from biological treatment), in gallons, for all treatment system types; Return Activated Sludge (RAS) Rate (in million gallons per day) for aerobic biological treatment systems; and Recirculation (Recirc) Rate (in million gallons per day) for fixed media biological treatment systems. If a parameter does not apply to your facility, leave the column blank. Information for other parameters such as Return Activated Sludge (RAS) Rate, Recirculation Rate (for fixed media treatment systems), Sludge Blanket Thickness, Sludge Volume Index, and others may be requested by the DEP office that issued the permit.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL**

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

Month: February Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: June 30, 2022

Day	Influent					Process Control				
	Flow (MGD)	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	2.871						0.26	86,407.23		
2	2.882	234.0	5,624	220.0	5,288		0.26	86,397.68		
3	5.18	173.0	7,474	208.0	8,986		0.24	54,777.29		
4	10.587	149.0	13,156	236.0	20,838		0.11	0.0		
5	8.281	67.0	4,627	76.0	5,249		0.15	0.0		
6	6.274						0.07	0.0		
7	4.947					3,570.0	0.06	0.0		
8	4.624	103.0	3,972	162.0	6,247		0.06	53,863.83		
9	4.443	114.0	4,224	134.0	4,965		0.17	99,787.59		
10	4.35	134.0	4,861	136.0	4,934		0.28	115,194.62		
11	4.171	130.0	4,522	136.0	4,731		0.28	115,202.48		
12	4.125	131.0	4,507	146.0	5,023		0.28	115,191.56		
13	4.113						0.26	115,201.88		
14	3.867	183.0	5,902	134.0	4,322	3,525.0	0.26	115,197.5		
15	3.506	130.0	3,801	140.0	4,094		0.27	115,197.45		
16	3.431	124.0	3,548	164.0	4,693		0.28	81,202.27		
17	3.778						0.25	57,606.18		
18	5.591	288.0	13,429	384.0	17,906		0.34	57,592.84		
19	4.507	67.0	2,518	108.0	4,060		0.38	57,603.61		
20	4.15						0.33	57,598.95		
21	3.921						0.28	57,605.33		
22	3.923	193.0	6,315	180.0	5,889	3,395.0	0.27	57,595.35		
23	4.065	95.0	3,221	168.0	5,696		0.26	57,596.4		
24	3.809	165.0	5,242	168.0	5,337		0.27	57,602.7		
25	6.263	145.0	7,574	150.0	7,835		0.25	79,569.16		
26	6.235	95.0	4,940	132.0	6,864		0.59	115,202.79		
27	5.386						0.47	115,193.86		
28	4.695	108.0	4,229	244.0	9,554		0.34	77,085.92		
29										
30										
31										
Avg	4.785	141	5,684	171	7,125	3,497	0	71,481		
Max	10.587	288	13,429	384	20,838	3,570	1	115,203		

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 3/16/2022



## INSTRUCTIONS FOR COMPLETING INFLUENT & PROCESS CONTROL SUPPLEMENTAL REPORT

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For **Influent**, enter daily average Influent Flow (MGD) (if an influent flow meter is in use), daily influent BOD<sub>5</sub> (or CBOD<sub>5</sub>) concentrations (mg/l) and loads (lbs), and daily influent TSS concentrations (mg/l) and loads (lbs). BOD<sub>5</sub> and TSS loads are automatically calculated if Influent Flow and concentration values are entered. If an influent flow meter is not in use, you may use results from an effluent flow meter.
- 3 For **Process Control**, enter daily average Mixed Liquor Suspended Solids (MLSS) (mg/l) and daily average Aeration Dissolved Oxygen (DO) for aerobic biological treatment systems; total daily Sludge Wasted (removed from biological treatment), in gallons, for all treatment system types; Return Activated Sludge (RAS) Rate (in million gallons per day) for aerobic biological treatment systems; and Recirculation (Recirc) Rate (in million gallons per day) for fixed media biological treatment systems. If a parameter does not apply to your facility, leave the column blank. Information for other parameters such as Return Activated Sludge (RAS) Rate, Recirculation Rate (for fixed media treatment systems), Sludge Blanket Thickness, Sludge Volume Index, and others may be requested by the DEP office that issued the permit.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.



**SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL**

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

Month: March Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due **180 days** prior to expiration.  
 This permit will expire on: June 30, 2022

Day	Influent					Process Control				
	Flow (MGD)	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	4.466	108.0	4,023	80.0	2,980		0.3	57,586.91		
2	4.317						0.29	57,633.64		
3	4.093	136.0	4,642	144.0	4,916		0.27	18,146.2		
4	3.777	156.0	4,914	150.0	4,725		0.28			
5	3.778	140.0	4,411	120.0	3,781		0.27			
6	3.926						0.25			
7	3.646	210.0	6,386	198.0	6,021		0.25			
8	3.469					3,345.0	0.25			
9	4.23	120.0	4,233	180.0	6,350		0.26	29,636.41		
10	4.499	132.0	4,953	106.0	3,977		0.26	109,392.53		
11	4.037	126.0	4,242	194.0	6,532		0.26	144,003.65		
12	4.722	120.0	4,726	184.0	7,246		0.2	49,397.71		
13	4.68						0.27			
14	4.4	104.0	3,816	134.0	4,917	3,510.0	0.26			
15	4.604	150.0	5,760	156.0	5,990		0.27	96,234.26		
16	4.0	87.0	2,902	104.0	3,469		0.26	107,957.75		
17	4.242	124.0	4,387	134.0	4,741		0.25	37,638.29		
18	3.988						0.26			
19	4.057	90.0	3,045	68.0	2,301		0.26			
20	4.026						0.25			
21	3.656	115.0	3,506	208.0	6,342	3,770.0	0.25	37,270.19		
22	3.435	125.0	3,581	104.0	2,979		0.25	91,034.39		
23	3.41	127.0	3,612	176.0	5,005		0.25	115,207.39		
24	4.3						0.25	115,198.71		
25	3.888	191.0	6,193	204.0	6,615		0.27	32,681.85		
26	3.715	111.0	3,439	156.0	4,833		0.25			
27	3.609						0.24			
28	3.304	127.0	3,500	164.0	4,519	3,765.0	0.25	37,621.34		
29	3.174	172.0	4,553	184.0	4,871		0.25	86,812.46		
30	3.046	189.0	4,801	200.0	5,081		0.26	115,199.73		
31	3.115						0.25	115,206.2		
Avg	3.923	135	4,347	152	4,918	3,598	0	76,519		
Max	4.722	210	6,386	208	7,246	3,770	0	144,004		

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 4/18/2022



## INSTRUCTIONS FOR COMPLETING INFLUENT & PROCESS CONTROL SUPPLEMENTAL REPORT

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For **Influent**, enter daily average Influent Flow (MGD) (if an influent flow meter is in use), daily influent BOD<sub>5</sub> (or CBOD<sub>5</sub>) concentrations (mg/l) and loads (lbs), and daily influent TSS concentrations (mg/l) and loads (lbs). BOD<sub>5</sub> and TSS loads are automatically calculated if Influent Flow and concentration values are entered. If an influent flow meter is not in use, you may use results from an effluent flow meter.
- 3 For **Process Control**, enter daily average Mixed Liquor Suspended Solids (MLSS) (mg/l) and daily average Aeration Dissolved Oxygen (DO) for aerobic biological treatment systems; total daily Sludge Wasted (removed from biological treatment), in gallons, for all treatment system types; Return Activated Sludge (RAS) Rate (in million gallons per day) for aerobic biological treatment systems; and Recirculation (Recirc) Rate (in million gallons per day) for fixed media biological treatment systems. If a parameter does not apply to your facility, leave the column blank. Information for other parameters such as Return Activated Sludge (RAS) Rate, Recirculation Rate (for fixed media treatment systems), Sludge Blanket Thickness, Sludge Volume Index, and others may be requested by the DEP office that issued the permit.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL**

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

Month: April Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: June 30, 2022

Day	Influent					Process Control				
	Flow (MGD)	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	5.162	255.0	10,978	280.0	12,054		0.25	58,387.34		
2	4.383	98.0	3,582	154.0	5,629		0.2			
3	4.133						0.26			
4	3.739	133.0	4,147	172.0	5,364	3,740.0	0.27			
5	3.56						0.25	64,517.55		
6	5.171	128.0	5,520	170.0	7,331		0.21	115,210.84		
7	8.883	94.0	6,964	134.0	9,927		0.2	115,199.78		
8	12.357	46.0	4,741	133.0	13,707		0.22	36,969.56		
9	9.038	38.0	2,864	41.0	3,090		0.43			
10	6.944						0.67			
11	5.186	89.0	3,849	74.0	3,201	3,060.0	0.49	75,294.31		
12	4.723	106.0	4,175	74.0	2,915		0.41	102,395.34		
13	4.548	84.0	3,186	138.0	5,234		0.37	86,393.73		
14	4.116	115.0	3,948	172.0	5,904		0.32	86,405.26		
15	3.84						0.31	66,402.21		
16	3.671	65.0	1,990	132.0	4,041		0.28	57,601.12		
17	3.606						0.26	57,602.27		
18	3.663	162.0	4,949	180.0	5,499	3,445.0	0.24	57,607.27		
19	5.355	124.0	5,538	140.0	6,252		0.39	57,589.82		
20	3.749						0.53	57,601.33		
21	3.489	96.0	2,793	96.0	2,793		0.3	57,600.67		
22	3.375	103.0	2,899	116.0	3,265		0.3	33,159.45		
23	3.444	76.0	2,183	158.0	4,538		0.25			
24	3.466						0.23			
25	3.22					3,660.0	0.23			
26	3.177	124.0	3,286	174.0	4,610		0.23			
27	3.152	163.0	4,285	168.0	4,416		0.23			
28	3.004	122.0	3,057	186.0	4,660		0.23	79,015.83		
29	2.808	139.0	3,255	184.0	4,309		0.23	101,091.34		
30	2.88	158.0	3,795	200.0	4,804		0.23	86,389.61		
31										
Avg	4.595	114	4,181	149	5,616	3,476	0	72,622		
Max	12.357	255	10,978	280	13,707	3,740	1	115,211		

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 5/18/2022



## INSTRUCTIONS FOR COMPLETING INFLUENT & PROCESS CONTROL SUPPLEMENTAL REPORT

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For **Influent**, enter daily average Influent Flow (MGD) (if an influent flow meter is in use), daily influent BOD<sub>5</sub> (or CBOD<sub>5</sub>) concentrations (mg/l) and loads (lbs), and daily influent TSS concentrations (mg/l) and loads (lbs). BOD<sub>5</sub> and TSS loads are automatically calculated if Influent Flow and concentration values are entered. If an influent flow meter is not in use, you may use results from an effluent flow meter.
- 3 For **Process Control**, enter daily average Mixed Liquor Suspended Solids (MLSS) (mg/l) and daily average Aeration Dissolved Oxygen (DO) for aerobic biological treatment systems; total daily Sludge Wasted (removed from biological treatment), in gallons, for all treatment system types; Return Activated Sludge (RAS) Rate (in million gallons per day) for aerobic biological treatment systems; and Recirculation (Recirc) Rate (in million gallons per day) for fixed media biological treatment systems. If a parameter does not apply to your facility, leave the column blank. Information for other parameters such as Return Activated Sludge (RAS) Rate, Recirculation Rate (for fixed media treatment systems), Sludge Blanket Thickness, Sludge Volume Index, and others may be requested by the DEP office that issued the permit.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL**

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

Month: May Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due **180 days** prior to expiration.  
 This permit will expire on: June 30, 2022

Day	Influent					Process Control				
	Flow (MGD)	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	2.946						0.23	86,405.83		
2	2.818	156.0	3,666	288.0	6,769	3,615.0	0.24	68,762.95		
3	2.625						0.23	86,399.7		
4	2.837	220.0	5,205	200.0	4,732		0.28	86,402.41		
5	2.737	129.0	2,945	160.0	3,652		0.22	86,542.92		
6	8.387	163.0	11,401	152.0	10,632		0.36	86,409.36		
7	18.539	98.0	15,152	120.0	18,554		0.18	86,405.5		
8	16.843						0.22	31,599.01		
9	10.513						0.64	0.0		
10	7.182	41.0	2,456	50.0	2,995		1.17	0.0		
11	5.643	51.0	2,400	55.0	2,588	2,900.0	0.74	0.0		
12	4.907	83.0	3,397	73.0	2,987		0.39	0.0		
13	4.416	70.0	2,578	79.0	2,910		0.27	0.0		
14	4.327	60.0	2,165	112.0	4,042		0.24	0.0		
15	4.342						0.22	0.0		
16	4.011	93.0	3,111	144.0	4,817	3,330.0	0.24	37,886.27		
17	3.797	91.0	2,882	146.0	4,623		0.23	86,393.38		
18	3.549	107.0	3,167	142.0	4,203		0.24	86,401.39		
19	4.586	135.0	5,163	194.0	7,420		0.23	86,398.46		
20	4.308						0.23	86,398.78		
21	4.303	62.0	2,225	118.0	4,235		0.24	86,401.49		
22	4.174						0.22	86,398.09		
23	4.315	151.0	5,434	174.0	6,262	3,265.0	0.3	47,089.09		
24	3.692	77.0	2,371	114.0	3,510		0.23	16,973.11		
25	3.524	107.0	3,145	122.0	3,586		0.23	60,393.29		
26	3.426						0.23	86,385.27		
27	3.449	153.0	4,401	248.0	7,134		0.23	38,500.06		
28	3.448	135.0	3,882	156.0	4,486		0.22	0.0		
29	3.164						0.23	0.0		
30	3.144						0.22	0.0		
31	2.888	162.0	3,902	164.0	3,950	3,740.0	0.22	60,310.91		
Avg	5.124	112	4,336	143	5,433	3,370	0	47,899		
Max	18.539	220	15,152	288	18,554	3,740	1	86,543		

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 6/15/2022



## INSTRUCTIONS FOR COMPLETING INFLUENT & PROCESS CONTROL SUPPLEMENTAL REPORT

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For **Influent**, enter daily average Influent Flow (MGD) (if an influent flow meter is in use), daily influent BOD<sub>5</sub> (or CBOD<sub>5</sub>) concentrations (mg/l) and loads (lbs), and daily influent TSS concentrations (mg/l) and loads (lbs). BOD<sub>5</sub> and TSS loads are automatically calculated if Influent Flow and concentration values are entered. If an influent flow meter is not in use, you may use results from an effluent flow meter.
- 3 For **Process Control**, enter daily average Mixed Liquor Suspended Solids (MLSS) (mg/l) and daily average Aeration Dissolved Oxygen (DO) for aerobic biological treatment systems; total daily Sludge Wasted (removed from biological treatment), in gallons, for all treatment system types; Return Activated Sludge (RAS) Rate (in million gallons per day) for aerobic biological treatment systems; and Recirculation (Recirc) Rate (in million gallons per day) for fixed media biological treatment systems. If a parameter does not apply to your facility, leave the column blank. Information for other parameters such as Return Activated Sludge (RAS) Rate, Recirculation Rate (for fixed media treatment systems), Sludge Blanket Thickness, Sludge Volume Index, and others may be requested by the DEP office that issued the permit.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL**

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

Month: June Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: June 30, 2022

Day	Influent					Process Control				
	Flow (MGD)	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	2.815	152.0	3,569	192.0	4,508		0.23	112,467.65		
2	2.763	180.0	4,148	328.0	7,558		0.23	115,198.81		
3	2.661	124.0	2,752	144.0	3,196		0.24	37,680.55		
4	2.564	150.0	3,208	152.0	3,250		0.23	0.0		
5	2.602						0.22	0.0		
6	2.504	193.0	4,030	180.0	3,759		0.23	0.0		
7	2.445	147.0	2,998	172.0	3,507	3,780.0	0.23	0.0		
8	2.46						0.22	94,588.57		
9	2.659	146.0	3,238	156.0	3,459	3,348.0	0.23	144,002.97		
10	2.458	330.0	6,765	356.0	7,298		0.23	144,259.16		
11	2.414	172.0	3,463	136.0	2,738		0.23	143,995.1		
12	2.781						0.23	143,965.23		
13	2.789	237.0	5,513	208.0	4,838	3,185.0	0.23	120,659.08		
14	2.976						0.23	116,529.6		
15	2.779	159.0	3,685	160.0	3,708		0.23	120,545.97		
16	2.604	154.0	3,344	192.0	4,170		0.23	111,718.3		
17	2.503	152.0	3,173	172.0	3,591		0.22	143,997.32		
18	2.465	129.0	2,652	144.0	2,960		0.21	143,997.03		
19	2.437						0.2	143,984.11		
20	2.193	152.0	2,780	212.0	3,877	2,610.0	0.21	144,029.17		
21	2.146						0.2	143,977.1		
22	2.176	208.0	3,775	212.0	3,847		0.2	124,324.32		
23	2.953	194.0	4,778	188.0	4,630		0.21	133,115.75		
24	2.498	116.0	2,417	152.0	3,167		0.21	162,855.64		
25	2.329	169.0	3,283	152.0	2,952		0.2	172,802.13		
26	2.386						0.2	48,614.3		
27	2.255	170.0	3,197	196.0	3,686		0.56	25,966.22		
28	2.168	171.0	3,092	228.0	4,122		0.21	57,633.6		
29	2.32						0.19	57,605.14		
30	2.225	166.0	3,080	260.0	4,825		0.21	57,598.76		
31										
Avg	2.511	171	3,588	195	4,075	3,231	0	98,870		
Max	2.976	330	6,765	356	7,558	3,780	1	172,802		

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 7/14/2022



## INSTRUCTIONS FOR COMPLETING INFLUENT & PROCESS CONTROL SUPPLEMENTAL REPORT

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For **Influent**, enter daily average Influent Flow (MGD) (if an influent flow meter is in use), daily influent BOD<sub>5</sub> (or CBOD<sub>5</sub>) concentrations (mg/l) and loads (lbs), and daily influent TSS concentrations (mg/l) and loads (lbs). BOD<sub>5</sub> and TSS loads are automatically calculated if Influent Flow and concentration values are entered. If an influent flow meter is not in use, you may use results from an effluent flow meter.
- 3 For **Process Control**, enter daily average Mixed Liquor Suspended Solids (MLSS) (mg/l) and daily average Aeration Dissolved Oxygen (DO) for aerobic biological treatment systems; total daily Sludge Wasted (removed from biological treatment), in gallons, for all treatment system types; Return Activated Sludge (RAS) Rate (in million gallons per day) for aerobic biological treatment systems; and Recirculation (Recirc) Rate (in million gallons per day) for fixed media biological treatment systems. If a parameter does not apply to your facility, leave the column blank. Information for other parameters such as Return Activated Sludge (RAS) Rate, Recirculation Rate (for fixed media treatment systems), Sludge Blanket Thickness, Sludge Volume Index, and others may be requested by the DEP office that issued the permit.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.



**SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL**

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

Month: July Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due **180 days** prior to expiration.  
 This permit will expire on: June 30, 2022

Day	Influent					Process Control				
	Flow (MGD)	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	2.036	206.0	3,498	188.0	3,192		0.19	19,657.57		
2	2.049	205.0	3,503	300.0	5,127		0.2			
3	2.206						0.2			
4	2.296						0.19			
5	2.231	213.0	3,963	236.0	4,391	3,145.0	0.2			
6	2.065	160.0	2,756	220.0	3,789		0.21	43,762.65		
7	2.419	172.0	3,470	260.0	5,245		0.2	86,931.08		
8	1.955	166.0	2,707	220.0	3,587		0.21	86,416.12		
9	1.779	151.0	2,240	236.0	3,501		0.22	86,397.44		
10	1.986						0.2	86,401.08		
11	2.255	296.0	5,567	180.0	3,385	2,745.0	0.2	86,400.26		
12	2.126	480.0	8,511	360.0	6,383		0.21	32,376.31		
13	2.25	330.0	6,192	428.0	8,031		0.21			
14	2.235						0.2	35,517.3		
15	2.225	154.0	2,858	140.0	2,598		0.18	86,399.33		
16	2.456	195.0	3,994	196.0	4,015		0.18	86,395.48		
17	2.646						0.17	86,403.58		
18	2.368	158.0	3,120	180.0	3,555	2,650.0	0.19	86,398.76		
19	2.283						0.19	26,663.53		
20	2.188	156.0	2,847	240.0	4,380		0.18			
21	2.096	166.0	2,902	200.0	3,496		0.18			
22	2.054	195.0	3,340	208.0	3,563	2,755.0	0.18			
23	2.199	253.0	4,640	552.0	10,123		0.17			
24	2.255						0.17			
25	2.155	195.0	3,505	260.0	4,673	3,040.0	0.18			
26	2.123	186.0	3,293	228.0	4,037		0.19			
27	2.08						0.18			
28	2.206	211.0	3,882	204.0	3,753		0.17			
29	2.218	210.0	3,885	200.0	3,700		0.18			
30	2.315	171.0	3,302	236.0	4,556		0.19			
31	2.557						0.17			
Avg	2.204	210	3,817	249	4,504	2,867	0	66,866		
Max	2.646	480	8,511	552	10,123	3,145	0	86,931		

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 8/15/2022



## INSTRUCTIONS FOR COMPLETING INFLUENT & PROCESS CONTROL SUPPLEMENTAL REPORT

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For **Influent**, enter daily average Influent Flow (MGD) (if an influent flow meter is in use), daily influent BOD<sub>5</sub> (or CBOD<sub>5</sub>) concentrations (mg/l) and loads (lbs), and daily influent TSS concentrations (mg/l) and loads (lbs). BOD<sub>5</sub> and TSS loads are automatically calculated if Influent Flow and concentration values are entered. If an influent flow meter is not in use, you may use results from an effluent flow meter.
- 3 For **Process Control**, enter daily average Mixed Liquor Suspended Solids (MLSS) (mg/l) and daily average Aeration Dissolved Oxygen (DO) for aerobic biological treatment systems; total daily Sludge Wasted (removed from biological treatment), in gallons, for all treatment system types; Return Activated Sludge (RAS) Rate (in million gallons per day) for aerobic biological treatment systems; and Recirculation (Recirc) Rate (in million gallons per day) for fixed media biological treatment systems. If a parameter does not apply to your facility, leave the column blank. Information for other parameters such as Return Activated Sludge (RAS) Rate, Recirculation Rate (for fixed media treatment systems), Sludge Blanket Thickness, Sludge Volume Index, and others may be requested by the DEP office that issued the permit.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL**

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

Month: August Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: June 30, 2022

Day	Influent					Process Control				
	Flow (MGD)	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	3.259	134.0	3,642	168.0	4,566	3,110.0	7.1	31,736.43		
2	2.94						6.92	72,012.37		
3	2.531	185.0	3,905	168.0	3,546		7.16	71,998.12		
4	2.392	204.0	4,070	192.0	3,830		7.03	71,982.45		
5	2.413	242.0	4,870	192.0	3,864		6.77	72,014.87		
6	2.279	145.0	2,756	184.0	3,497		6.59	71,998.98		
7	2.299						6.9	71,995.23		
8	2.137					2,955.0	6.63	71,986.56		
9	2.068	164.0	2,829	228.0	3,932		6.92	72,012.28		
10	2.011	231.0	3,874	268.0	4,495		6.76	71,986.75		
11	2.299	163.0	3,125	248.0	4,755		6.92	72,012.56		
12	2.049	138.0	2,358	204.0	3,486		6.98	51,019.78		
13	2.041	159.0	2,706	232.0	3,949		7.18	72,000.9		
14	2.195						7.14	71,998.25		
15	2.112	215.0	3,787	216.0	3,805	2,770.0	7.17	87,904.77		
16	2.085	177.0	3,078	200.0	3,478		7.2	100,804.2		
17	2.152	164.0	2,943	124.0	2,226		6.98	100,791.34		
18	2.057	265.0	4,546	180.0	3,088		7.06	100,803.92		
19	1.851						7.32	100,794.53		
20	1.916	197.0	3,148	276.0	4,410		6.95	100,799.98		
21	2.113						6.38	100,797.57		
22	2.182	246.0	4,477	172.0	3,130	1,980.0	6.88	29,461.19		
23	2.126	175.0	3,103	224.0	3,972		6.94			
24	2.047	191.0	3,261	216.0	3,688		6.95			
25	2.054						7.09			
26	2.011	155.0	2,600	268.0	4,495		6.93			
27	2.099	205.0	3,589	272.0	4,762		6.54			
28	2.218						6.71			
29	2.029	217.0	3,672	248.0	4,197		6.77			
30	1.978						6.96			
31	1.948	193.0	3,136	224.0	3,639		6.96			
Avg	2.19	189	3,431	214	3,855	2,704	7	75,860		
Max	3.259	265	4,870	276	4,762	3,110	7	100,804		

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 9/21/2022



## INSTRUCTIONS FOR COMPLETING INFLUENT & PROCESS CONTROL SUPPLEMENTAL REPORT

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For **Influent**, enter daily average Influent Flow (MGD) (if an influent flow meter is in use), daily influent BOD<sub>5</sub> (or CBOD<sub>5</sub>) concentrations (mg/l) and loads (lbs), and daily influent TSS concentrations (mg/l) and loads (lbs). BOD<sub>5</sub> and TSS loads are automatically calculated if Influent Flow and concentration values are entered. If an influent flow meter is not in use, you may use results from an effluent flow meter.
- 3 For **Process Control**, enter daily average Mixed Liquor Suspended Solids (MLSS) (mg/l) and daily average Aeration Dissolved Oxygen (DO) for aerobic biological treatment systems; total daily Sludge Wasted (removed from biological treatment), in gallons, for all treatment system types; Return Activated Sludge (RAS) Rate (in million gallons per day) for aerobic biological treatment systems; and Recirculation (Recirc) Rate (in million gallons per day) for fixed media biological treatment systems. If a parameter does not apply to your facility, leave the column blank. Information for other parameters such as Return Activated Sludge (RAS) Rate, Recirculation Rate (for fixed media treatment systems), Sludge Blanket Thickness, Sludge Volume Index, and others may be requested by the DEP office that issued the permit.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL**

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

Month: September Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due **180 days** prior to expiration.  
 This permit will expire on: June 30, 2022

Day	Influent					Process Control				
	Flow (MGD)	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	1.848	224.0	3,452	624.0	9,617		0.13			
2	1.769	273.0	4,028	260.0	3,836		0.12			
3	1.874	224.0	3,501	530.0	8,283		0.12			
4	1.858						0.11			
5	2.165						0.11			
6	3.53	169.0	4,975	360.0	10,598	4,130.0	0.11	57,620.12		
7	2.71	104.0	2,351	136.0	3,074		0.12	86,391.96		
8	2.611	127.0	2,766	132.0	2,874		0.14	73,099.18		
9	2.173	157.0	2,845	56.0	1,015		0.14	32,674.8		
10	2.181	128.0	2,328	112.0	2,037		0.14			
11	3.125						0.12			
12	2.883	105.0	2,525	172.0	4,136	4,180.0	0.12			
13	2.698	75.0	1,688	116.0	2,610		0.15			
14	2.276						0.19			
15	2.098	165.0	2,887	168.0	2,940		0.19			
16	1.979	210.0	3,466	216.0	3,565		0.17			
17	2.063	172.0	2,959	460.0	7,914		0.15			
18	2.356						0.13			
19	2.078	183.0	3,171	208.0	3,605	4,630.0	0.12	24,286.68		
20	1.969	163.0	2,677	224.0	3,678		0.12	82,482.77		
21	1.934	198.0	3,194	304.0	4,903		0.12	100,811.24		
22	1.959						0.12	113,286.2		
23	1.947	216.0	3,507	484.0	7,859		0.14	46,149.29		
24	2.124	204.0	3,614	284.0	5,031		0.19			
25	2.322					4,730.0	0.13			
26	2.232						0.53			
27	1.936	166.0	2,680	208.0	3,358	3,625.0	0.91			
28	1.801	184.0	2,764	180.0	2,704		3.01			
29	1.89	209.0	3,294	192.0	3,026	3,725.0	1.7			
30	2.0	241.0	4,020	180.0	3,002		0.23			
31										
Avg	2.213	177	3,122	255	4,530	4,170	0	68,534		
Max	3.53	273	4,975	624	10,598	4,730	3	113,286		

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 10/25/2022



## INSTRUCTIONS FOR COMPLETING INFLUENT & PROCESS CONTROL SUPPLEMENTAL REPORT

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For **Influent**, enter daily average Influent Flow (MGD) (if an influent flow meter is in use), daily influent BOD<sub>5</sub> (or CBOD<sub>5</sub>) concentrations (mg/l) and loads (lbs), and daily influent TSS concentrations (mg/l) and loads (lbs). BOD<sub>5</sub> and TSS loads are automatically calculated if Influent Flow and concentration values are entered. If an influent flow meter is not in use, you may use results from an effluent flow meter.
- 3 For **Process Control**, enter daily average Mixed Liquor Suspended Solids (MLSS) (mg/l) and daily average Aeration Dissolved Oxygen (DO) for aerobic biological treatment systems; total daily Sludge Wasted (removed from biological treatment), in gallons, for all treatment system types; Return Activated Sludge (RAS) Rate (in million gallons per day) for aerobic biological treatment systems; and Recirculation (Recirc) Rate (in million gallons per day) for fixed media biological treatment systems. If a parameter does not apply to your facility, leave the column blank. Information for other parameters such as Return Activated Sludge (RAS) Rate, Recirculation Rate (for fixed media treatment systems), Sludge Blanket Thickness, Sludge Volume Index, and others may be requested by the DEP office that issued the permit.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL**

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

Month: October Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: June 30, 2022

Day	Influent					Process Control				
	Flow (MGD)	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	2.761	187.0	4,306	224.0	5,158		0.26	0.0		
2	4.094						0.21	0.0		
3	3.307	155.0	4,275	164.0	4,523		0.26	30,736.62		
4	4.711						0.17	57,613.95		
5	4.767	60.0	2,385	88.0	3,499		0.24	57,726.13		
6	3.651	65.0	1,979	76.0	2,314		0.2	57,604.6		
7	3.141	104.0	2,724	92.0	2,410		0.18	57,594.53		
8	2.98	78.0	1,939	106.0	2,634		0.18	57,597.57		
9	2.916						0.18	57,596.51		
10	2.735	133.0	3,034	152.0	3,467	3,620.0	0.18	57,697.48		
11	2.555						0.18	57,603.38		
12	2.478	210.0	4,340	196.0	4,051		0.2	57,599.98		
13	2.685	165.0	3,695	220.0	4,926		0.18	57,598.48		
14	2.626	226.0	4,950	126.0	2,760		0.18	57,592.79		
15	2.495	86.0	1,790	152.0	3,163		0.19	57,605.06		
16	2.598						0.19	57,601.7		
17	2.348	200.0	3,916	192.0	3,760	3,510.0	0.18	57,596.68		
18	2.244	161.0	3,013	160.0	2,994		0.18	57,683.72		
19	2.052	189.0	3,234	200.0	3,423		0.18	64,945.38		
20	1.966	146.0	2,394	188.0	3,083		0.19	72,000.15		
21	1.951						0.22	28,372.96		
22	2.012	147.0	2,467	240.0	4,027		0.22	0.0		
23	2.245						0.18	0.0		
24	2.773	192.0	4,440	180.0	4,163	3,285.0	0.18	50,597.61		
25	2.384	130.0	2,585	160.0	3,181		0.17	72,001.16		
26	2.309	203.0	3,909	180.0	3,466		0.18	34,644.17		
27	2.112						0.17	0.0		
28	2.096	187.0	3,269	200.0	3,496		0.17	0.0		
29	2.238	193.0	3,602	196.0	3,658		0.18	0.0		
30	2.453						0.19	0.0		
31	2.101	151.0	2,646	164.0	2,874	3,815.0	0.18	19,175.25		
Avg	2.703	153	3,222	166	3,501	3,558	0	39,896		
Max	4.767	226	4,950	240	5,158	3,815	0	72,001		

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 11/17/2022



## INSTRUCTIONS FOR COMPLETING INFLUENT & PROCESS CONTROL SUPPLEMENTAL REPORT

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For **Influent**, enter daily average Influent Flow (MGD) (if an influent flow meter is in use), daily influent BOD<sub>5</sub> (or CBOD<sub>5</sub>) concentrations (mg/l) and loads (lbs), and daily influent TSS concentrations (mg/l) and loads (lbs). BOD<sub>5</sub> and TSS loads are automatically calculated if Influent Flow and concentration values are entered. If an influent flow meter is not in use, you may use results from an effluent flow meter.
- 3 For **Process Control**, enter daily average Mixed Liquor Suspended Solids (MLSS) (mg/l) and daily average Aeration Dissolved Oxygen (DO) for aerobic biological treatment systems; total daily Sludge Wasted (removed from biological treatment), in gallons, for all treatment system types; Return Activated Sludge (RAS) Rate (in million gallons per day) for aerobic biological treatment systems; and Recirculation (Recirc) Rate (in million gallons per day) for fixed media biological treatment systems. If a parameter does not apply to your facility, leave the column blank. Information for other parameters such as Return Activated Sludge (RAS) Rate, Recirculation Rate (for fixed media treatment systems), Sludge Blanket Thickness, Sludge Volume Index, and others may be requested by the DEP office that issued the permit.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.



**SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL**

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

Month: November Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: June 30, 2022

Day	Influent					Process Control				
	Flow (MGD)	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	2.719	142.0	3,220	196.0	4,445		0.18	57,595.95		
2	2.455	201.0	4,115	164.0	3,358		0.18	67,019.59		
3	2.293						0.17	71,998.27		
4	2.335	195.0	3,797	284.0	5,531		0.17	56,355.86		
5	2.43	184.0	3,729	180.0	3,648		0.18	71,992.63		
6	2.405						0.18	72,002.76		
7	2.065	216.0	3,720	184.0	3,169	3,175.0	0.18	71,981.87		
8	1.899	193.0	3,057	200.0	3,168		0.19	72,015.69		
9	1.957	189.0	3,085	376.0	6,137		0.22	63,346.48		
10	2.059	181.0	3,108	272.0	4,671		0.22	57,594.68		
11	2.836						0.21	18,390.72		
12	3.381	230.0	6,485	180.0	5,076		0.21			
13	3.088						0.19			
14	2.62	150.0	3,278	108.0	2,360	3,360.0	0.21			
15	2.774	76.0	1,758	188.0	4,349		0.23	20,951.08		
16	4.652						0.42	57,578.25		
17	3.582	120.0	3,585	148.0	4,421		0.3	57,621.77		
18	3.122	109.0	2,838	188.0	4,895		0.24	35,214.47		
19	3.07	195.0	4,993	152.0	3,892		0.22			
20	2.976						0.19			
21	2.754	165.0	3,790	180.0	4,134	3,495.0	0.17	38,066.66		
22	2.658	167.0	3,702	220.0	4,877		0.17	63,014.54		
23	2.681	208.0	4,651	256.0	5,724		0.17	72,004.66		
24	2.837						0.16	71,994.02		
25	2.482	431.0	8,922	568.0	11,758		0.17	72,004.22		
26	2.507	222.0	4,642	332.0	6,942		0.18	30,117.98		
27	2.665						0.16			
28	2.809	280.0	6,560	252.0	5,904	3,425.0	0.16			
29	2.323						0.18			
30	2.806	195.0	4,563	188.0	4,400		0.17			
31										
Avg	2.708	193	4,171	229	4,898	3,364	0	57,089		
Max	4.652	431	8,922	568	11,758	3,495	0	72,016		

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 12/12/2022



## INSTRUCTIONS FOR COMPLETING INFLUENT & PROCESS CONTROL SUPPLEMENTAL REPORT

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For **Influent**, enter daily average Influent Flow (MGD) (if an influent flow meter is in use), daily influent BOD<sub>5</sub> (or CBOD<sub>5</sub>) concentrations (mg/l) and loads (lbs), and daily influent TSS concentrations (mg/l) and loads (lbs). BOD<sub>5</sub> and TSS loads are automatically calculated if Influent Flow and concentration values are entered. If an influent flow meter is not in use, you may use results from an effluent flow meter.
- 3 For **Process Control**, enter daily average Mixed Liquor Suspended Solids (MLSS) (mg/l) and daily average Aeration Dissolved Oxygen (DO) for aerobic biological treatment systems; total daily Sludge Wasted (removed from biological treatment), in gallons, for all treatment system types; Return Activated Sludge (RAS) Rate (in million gallons per day) for aerobic biological treatment systems; and Recirculation (Recirc) Rate (in million gallons per day) for fixed media biological treatment systems. If a parameter does not apply to your facility, leave the column blank. Information for other parameters such as Return Activated Sludge (RAS) Rate, Recirculation Rate (for fixed media treatment systems), Sludge Blanket Thickness, Sludge Volume Index, and others may be requested by the DEP office that issued the permit.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

**SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL**

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

Month: December Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: June 30, 2022

Day	Influent					Process Control				
	Flow (MGD)	BOD <sub>5</sub> (mg/l)	BOD <sub>5</sub> (lbs)	TSS (mg/l)	TSS (lbs)	Aeration MLSS (mg/l)	Aeration DO (mg/l)	Sludge Wasted (gallons)		
1	2.863	142.0	3,391	196.0	4,680		0.18	38,465.54		
2	2.599	127.0	2,753	176.0	3,815		0.18	72,003.2		
3	3.005	222.0	5,564	288.0	7,218		0.18	71,998.04		
4	3.272						0.22	72,003.89		
5	2.856	224.0	5,335	220.0	5,240	3,210.0	0.31	71,978.89		
6	2.844	157.0	3,724	160.0	3,795		0.37	72,025.7		
7	3.008	181.0	4,541	153.0	3,838		0.38	65,116.09		
8	2.36						0.36	57,598.21		
9	1.857	83.0	1,285	124.0	1,920		0.38	57,589.12		
10	1.879	144.0	2,257	488.0	7,647		0.4	57,606.12		
11	1.962						0.35	57,601.54		
12	1.756	232.0	3,398	228.0	3,339	3,040.0	0.34	20,895.22		
13	1.696	210.0	2,970	220.0	3,112		0.36	28,351.65		
14	1.646						0.34	57,602.88		
15	4.451	174.0	6,459	195.0	7,239		0.36	32,928.85		
16	8.819	196.0	14,416	223.0	16,402		0.32			
17	5.317	70.0	3,104	72.0	3,193		0.31			
18	3.689						0.46			
19	2.82	109.0	2,564	89.0	2,093	3,295.0	0.27	35,781.04		
20	2.565	110.0	2,353	140.0	2,995		0.34	57,597.99		
21	2.435	89.0	1,807	130.0	2,640		0.31	57,601.73		
22	3.347						0.25	19,949.52		
23	9.466	69.0	5,447	50.0	3,947		0.22			
24	5.702	65.0	3,091	30.0	1,427		0.26			
25	4.157						0.52			
26	3.343						0.43	35,494.31		
27	2.871	201.0	4,813	108.0	2,586	3,365.0	0.35	57,597.09		
28	2.694	105.0	2,359	112.0	2,516		0.34	57,600.72		
29	2.559	177.0	3,778	142.0	3,031		0.34	57,594.56		
30	2.504	134.0	2,798	64.0	1,337		0.31	57,598.39		
31	2.49	96.0	1,994	124.0	2,575		30.0	57,603.15		
Avg	3.317	144	3,922	162	4,199	3,228	1	53,127		
Max	9.466	232	14,416	488	16,402	3,365	30	72,026		

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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 1/18/2023



## INSTRUCTIONS FOR COMPLETING INFLUENT & PROCESS CONTROL SUPPLEMENTAL REPORT

- 1 Enter Facility Name, Municipality, County, Watershed No., Month, Year, NPDES Permit No., and Permit Expiration Date.
- 2 For **Influent**, enter daily average Influent Flow (MGD) (if an influent flow meter is in use), daily influent BOD<sub>5</sub> (or CBOD<sub>5</sub>) concentrations (mg/l) and loads (lbs), and daily influent TSS concentrations (mg/l) and loads (lbs). BOD<sub>5</sub> and TSS loads are automatically calculated if Influent Flow and concentration values are entered. If an influent flow meter is not in use, you may use results from an effluent flow meter.
- 3 For **Process Control**, enter daily average Mixed Liquor Suspended Solids (MLSS) (mg/l) and daily average Aeration Dissolved Oxygen (DO) for aerobic biological treatment systems; total daily Sludge Wasted (removed from biological treatment), in gallons, for all treatment system types; Return Activated Sludge (RAS) Rate (in million gallons per day) for aerobic biological treatment systems; and Recirculation (Recirc) Rate (in million gallons per day) for fixed media biological treatment systems. If a parameter does not apply to your facility, leave the column blank. Information for other parameters such as Return Activated Sludge (RAS) Rate, Recirculation Rate (for fixed media treatment systems), Sludge Blanket Thickness, Sludge Volume Index, and others may be requested by the DEP office that issued the permit.
- 4 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.



11/15/21	3.855	1.329	42.7		0.034		1.1	0.8	25.7	5.3	170.4	6.10	196.1
11/16/21	3.566												
11/17/21	3.458	1.166	33.6	<	0.016	<	0.5	0.66	19.0	6.3	181.7	6.96	200.7
11/18/21	3.356	1.484	41.5	<	0.016	<	0.4	0.69	19.3	9.16	256.4	9.85	275.7
11/19/21	3.196	1.672	44.6		0.02		0.5	0.65	17.3	9.14	243.6	9.79	260.9
11/20/21	3.205	1.532	40.9	<	0.016	<	0.4	0.61	16.3	8.81	235.5	9.42	251.8
11/21/21	3.348												
11/22/21	3.21	0.831	22.2		0.486		13.0	1.22	32.7	7.24	193.8	8.46	226.5
11/23/21	2.945	0.419	10.3		0.26		6.4	1.11	27.3	6.51	159.9	7.62	187.2
11/24/21	3.023	0.318	8.0		0.265		6.7	1.02	25.7	7.12	179.5	8.14	205.2
11/25/21	3.161												
11/26/21	2.979	0.417	10.4		0.817		20.3	1.75	43.5	4.03	100.1	5.78	143.6
11/27/21	2.906	0.17	4.1		0.474		11.5	1.4	33.9	2.81	68.1	4.21	102.0
11/28/21	2.922												
11/29/21	2.801	0.119	2.8		0.292		6.8	0.83	19.4	3.23	75.5	4.06	94.8
11/30/21	2.665	0.082	1.8		0.04		0.9	1.07	23.8	3.1	68.9	4.17	92.7
12/1/21	2.615												
12/2/21	2.645	0.078	1.7		0.02		0.4	0.68	15.0	3.42	75.4	4.10	90.4
12/3/21	2.474	0.086	1.8	<	0.016	<	0.3	0.67	13.8	4.46	92.0	5.13	105.8
12/4/21	2.579	0.114	2.5	<	0.016	<	0.3	0.74	15.9	6.26	134.6	7.00	150.6
12/5/21	2.579												
12/6/21	2.505	0.195	4.1		0.062		1.3	0.9	18.8	5.38	112.4	6.28	131.2
12/7/21	2.425												
12/8/21	2.423	0.211	4.3		0.026		0.5	0.73	14.8	5.16	104.3	5.89	119.0
12/9/21	2.348	0.466	9.1		0.023		0.5	0.81	15.9	6.56	128.5	7.37	144.3
12/10/21	2.332	0.608	11.8		0.057		1.1	1.07	20.8	6.84	133.0	7.91	153.8
12/11/21	2.634	0.72	15.8		0.025		0.5	0.89	19.6	6.46	141.9	7.35	161.5
12/12/21	2.7												
12/13/21	2.356												
12/14/21	2.241	0.333	6.2		0.029		0.5	0.82	15.3	4.78	89.3	5.60	104.7
12/15/21	2.358	0.422	8.3		0.018		0.4	0.84	16.5	5.1	100.3	5.94	116.8
12/16/21	2.43	0.585	11.9		0.024		0.5	0.79	16.0	5.6	113.5	6.39	129.5
12/17/21	2.378	0.815	16.2		0.021		0.4	0.83	16.5	4.83	95.8	5.66	112.3
12/18/21	2.618	1.084	23.7		0.026		0.6	0.81	17.7	4.03	88.0	4.84	105.7
12/19/21	2.724												
12/20/21	2.58	1.212	26.1		0.039		0.8	1.29	27.8	3.4	73.2	4.69	100.9
12/21/21	2.493	0.518	10.8		0.031		0.6	0.86	17.9	2.9	60.3	3.76	78.2
12/22/21	2.446	0.372	7.6		0.025		0.5	0.78	15.9	2.97	60.6	3.75	76.5
12/23/21	2.554	0.441	9.4		0.017		0.4	0.88	18.7	3.53	75.2	4.41	93.9
12/24/21	2.554	0.485	10.3		0.017		0.4	0.93	19.8	3.89	82.9	4.82	102.7
12/25/21	2.596												
12/26/21	2.669	0.504	11.2		0.124		2.8	1.04	23.1	2.97	66.1	4.01	89.3
12/27/21	2.715												
12/28/21	2.953	0.157	3.9		0.027		0.7	0.92	22.7	2.92	71.9	3.84	94.6
12/29/21	2.827	0.153	3.6	<	0.016	<	0.4	0.82	19.3	4.24	100.0	5.06	119.3
12/30/21	3.043	0.19	4.8		0.02		0.5	0.82	20.8	4.73	120.0	5.55	140.9
12/31/21	2.903	0.236	5.7	<	0.016	<	0.4	0.9	21.8	4.71	114.0	5.61	135.8
1/1/22	3.453												
1/2/22	5.317	0.768	34.1		0.401		17.8	1.43	63.4	2.62	116.2	4.05	179.6
1/3/22	3.815												
1/4/22	3.407	0.911	25.9		1.394		39.6	2.53	71.9	2.08	59.1	4.61	131.0
1/5/22	3.329	0.105	2.9	<	0.016	<	0.4	0.75	20.8	4.64	128.8	5.39	149.6
1/6/22	3.195	0.058	1.5		0.016		0.4	0.86	22.9	5.9	157.2	6.76	180.1
1/7/22	3.296	0.104	2.9	<	0.016	<	0.4	0.73	20.1	6.53	179.5	7.26	199.6
1/8/22	3.214												
1/9/22	3.66	0.448	13.7	<	0.016	<	0.5	0.67	20.5	9.09	277.5	9.76	297.9
1/10/22	3.957	0.623	20.6		0.066		2.2	1.03	34.0	9.31	307.2	10.34	341.2



3/9/22	4.23	1.056	37.3		0.053		1.9		0.9		31.8		5.96		210.3		6.86		242.0
3/10/22	4.499	0.859	32.2		0.021		0.8		0.94		35.3		6.47		242.8		7.41		278.0
3/11/22	4.037	1.094	36.8		0.052		1.8		0.86		29.0		6.66		224.2		7.52		253.2
3/12/22	4.722	1.526	60.1		0.044		1.7		0.58		22.8		8.5		334.7		9.08		357.6
3/13/22	4.68																		
3/14/22	4.4	0.74	27.2		0.203		7.4		1.67		61.3		4.39		161.1		6.06		222.4
3/15/22	4.604	0.624	24.0		0.018		0.7		0.81		31.1		4.7		180.5		5.51		211.6
3/16/22	4	1.095	36.5		0.02		0.7		0.68		22.7		5.94		198.2		6.62		220.8
3/17/22	4.242	1.138	40.3	<	0.016	<	0.6		1.04		36.8		5.81		205.5		6.85		242.3
3/18/22	3.988																		
3/19/22	4.057	1.134	38.4	<	0.016	<	0.5		0.74		25.0		5.2		175.9		5.94		201.0
3/20/22	4.026																		
3/21/22	3.656	1.163	35.5		0.047		1.4		0.64		19.5		4.66		142.1		5.30		161.6
3/22/22	3.435	0.804	23.0		0.022		0.6		0.78		22.3		5.1		146.1		5.88		168.4
3/23/22	3.41	0.968	27.5		0.016		0.5		0.7		19.9		6.14		174.6		6.84		194.5
3/24/22	4.3																		
3/25/22	3.888	1.054	34.2	<	0.016	<	0.5		0.74		24.0		6.59		213.7		7.33		237.7
3/26/22	3.715	1.127	34.9	<	0.016	<	0.5		0.89		27.6		6.25		193.6		7.14		221.2
3/27/22	3.609																		
3/28/22	3.304	1.209	33.3		0.019		0.5		0.86		23.7		5.31		146.3		6.17		170.0
3/29/22	3.174	0.875	23.2		0.033		0.9		0.8		21.2		5.24		138.7		6.04		159.9
3/30/22	3.046	0.701	17.8	<	0.016	<	0.4		0.92		23.4		5.73		145.6		6.65		168.9
3/31/22	3.115																		
4/1/22	5.162	0.896	38.6		0.019		0.8		0.65		28.0		7.08		304.8		7.73		332.8
4/2/22	4.383	0.82	30.0		0.325		11.9		1.31		47.9		4.27		156.1		5.58		204.0
4/3/22	4.133																		
4/4/22	3.739	0.584	18.2		0.083		2.6		0.85		26.5		3.92		122.2		4.77		148.7
4/5/22	3.56																		
4/6/22	5.171	0.522	22.5	<	0.016	<	0.7		0.66		28.5		4.45		191.9		5.11		220.4
4/7/22	8.883	0.633	46.9		0.64		47.4		1.41		104.5		3.44		254.8		4.85		359.3
4/8/22	12.357	1.829	188.5		1.155		119.0		2.85		293.7		6.69		689.5		9.54		983.2
4/9/22	9.038	0.886	66.8		1.35		101.8		2.6		196.0		4.45		335.4		7.05		531.4
4/10/22	6.944																		
4/11/22	5.186	0.384	16.6		1.808		78.2		2.63		113.8		4.35		188.1		6.98		301.9
4/12/22	4.723	0.334	13.2		0.693		27.3		1.45		57.1		5.02		197.7		6.47		254.9
4/13/22	4.548	0.511	19.4		0.118		4.5		0.58		22.0		5.64		213.9		6.22		235.9
4/14/22	4.116	0.572	19.6		0.098		3.4		0.26		8.9		6.22		213.5		6.48		222.4
4/15/22	3.84																		
4/16/22	3.671	0.623	19.1		0.067		2.1		0.44		13.5		6.04		184.9		6.48		198.4
4/17/22	3.606																		
4/18/22	3.663	0.994	30.4		0.097		3.0		0.77		23.5		4.96		151.5		5.73		175.0
4/19/22	5.355	0.577	25.8		0.232		10.4		1.18		52.7		3.77		168.4		4.95		221.1
4/20/22	3.749																		
4/21/22	3.489	0.381	11.1		0.043		1.3		0.73		21.2		3.04		88.5		3.77		109.7
4/22/22	3.375	0.464	13.1		0.019		0.5		0.68		19.1		3.7		104.1		4.38		123.3
4/23/22	3.444	0.584	16.8		0.03		0.9		0.62		17.8		3.91		112.3		4.53		130.1
4/24/22	3.466																		
4/25/22	3.22																		
4/26/22	3.177	0.527	14.0		0.02		0.5		0.96		25.4		3.61		95.7		4.57		121.1
4/27/22	3.152	0.669	17.6		0.024		0.6		0.71		18.7		4.77		125.4		5.48		144.1
4/28/22	3.004	0.847	21.2		0.02		0.5		0.5		12.5		5.31		133.0		5.81		145.6
4/29/22	2.808	1.057	24.8	<	0.016	<	0.4		0.41		9.6		6.43		150.6		6.84		160.2
4/30/22	2.88	1.123	27.0	<	0.016	<	0.4		0.65		15.6		8.54		205.1		9.19		220.7
5/1/22	2.946																		
5/2/22	2.818	1.09	25.6	<	0.016	<	0.4		0.78		18.3		6.91		162.4		7.69		180.7
5/3/22	2.625																		
5/4/22	2.837	0.788	18.6		0.025		0.6		0.15		3.5		7.18		169.9		7.33		173.4



5/5/22	2.737	0.974	22.2	<	0.016	<	0.4	0.25	5.7	8.1	184.9	8.35	190.6
5/6/22	8.387	1.172	82.0	<	0.016	<	1.1	0.56	39.2	6.55	458.2	7.11	497.3
5/7/22	18.539	1.492	230.7		0.962		148.7	2.94	454.6	6.03	932.3	8.97	1,386.9
5/8/22	16.843												
5/9/22	10.513												
5/10/22	7.182	0.184	11.0		0.784		47.0	1.34	80.3	4.38	262.4	5.72	342.6
5/11/22	5.643	0.07	3.3		0.061		2.9	0.61	28.7	4.97	233.9	5.58	262.6
5/12/22	4.907	0.13	5.3		0.037		1.5	0.68	27.8	4.83	197.7	5.51	225.5
5/13/22	4.416	0.219	8.1	<	0.016	<	0.6	0.7	25.8	4.75	174.9	5.45	200.7
5/14/22	4.327	0.567	20.5	<	0.016	<	0.6	0.37	13.4	4.68	168.9	5.05	182.2
5/15/22	4.342												
5/16/22	4.011	0.633	21.2	<	0.016	<	0.5	0.7	23.4	2.67	89.3	3.37	112.7
5/17/22	3.797	0.685	21.7	<	0.016	<	0.65	0.56	17.7	3.6	114.0	4.16	131.7
5/18/22	3.549	1.037	30.7	<	0.016	<	0.5	0.47	13.9	4.82	142.7	5.29	156.6
5/19/22	4.586	1.156	44.2	<	0.016	<	0.6	0.27	10.3	4.43	169.4	4.70	179.8
5/20/22	4.308												
5/21/22	4.303	0.903	32.4	<	0.016	<	0.6	0.4	14.4	3.89	139.6	4.29	154.0
5/22/22	4.174												
5/23/22	4.315	0.911	32.8	<	0.016	<	0.6	0.67	24.1	3.53	127.0	4.20	151.1
5/24/22	3.692	0.823	25.3		0.032		1.0	0.64	19.7	4.27	131.5	4.91	151.2
5/25/22	3.524	1.32	38.8	<	0.016	<	0.5	0.37	10.9	5.58	164.0	5.95	174.9
5/26/22	3.426												
5/27/22	3.449	1.565	45.0		0.018		0.5	0.49	14.1	5.0	143.8	5.49	157.9
5/28/22	3.448	0.945	27.2		0.016		0.5	0.52	15.0	4.8	138.0	5.32	153.0
5/29/22	3.164												
5/30/22	3.144												
5/31/22	2.888	0.646	15.6		0.037		0.9	0.72	17.3	3.69	88.9	4.41	106.2
6/1/22	2.815	0.351	8.2		0.044		1.0	0.6	14.1	3.26	76.5	3.86	90.6
6/2/22	2.763	0.344	7.9		0.028		0.6	0.74	17.1	3.57	82.3	4.31	99.3
6/3/22	2.661	0.354	7.9		0.03		0.7	0.57	12.6	4.19	93.0	4.76	105.6
6/4/22	2.564	0.384	8.2		0.021		0.4	0.57	12.2	5.15	110.1	5.72	122.3
6/5/22	2.602												
6/6/22	2.504	0.486	10.1		0.035		0.7	0.78	16.3	5.81	121.3	6.59	137.6
6/7/22	2.445	0.365	7.4		0.045		0.9	0.82	16.7	5.07	103.4	5.89	120.1
6/8/22	2.46												
6/9/22	2.659	0.805	17.9		0.024		0.5	0.58	12.9	6.62	146.8	7.20	159.7
6/10/22	2.458	1.217	24.9		0.026		0.5	0.25	5.1	7.47	153.1	7.72	158.3
6/11/22	2.414	1.185	23.9		0.02		0.4	0.5	10.1	7.35	148.0	7.85	158.0
6/12/22	2.781												
6/13/22	2.789	0.998	23.2		0.018		0.4	0.55	12.8	7.61	177.0	8.16	189.8
6/14/22	2.976												
6/15/22	2.779	0.917	21.3		0.079		1.8	0.08	1.9	7.71	178.7	7.79	180.5
6/16/22	2.604	1.116	24.2	<	0.016	<	0.3	0.07	1.5	7.38	160.3	7.45	161.8
6/17/22	2.503	1.465	30.6		0.017		0.4	0.07	1.5	7.86	164.1	7.93	165.5
6/18/22	2.465	1.724	35.4	<	0.016	<	0.3	0.33	6.8	8.57	176.2	8.90	183.0
6/19/22	2.437												
6/20/22	2.193	1.635	29.9	<	0.016	<	0.3	0.61	11.2	7.42	135.7	8.03	146.9
6/21/22	2.146												
6/22/22	2.176	0.975	17.7		0.024		0.4	0.68	12.3	6.81	123.6	7.49	135.9
6/23/22	2.953	0.925	22.8		0.016		0.4	0.55	13.5	7.04	173.4	7.59	186.9
6/24/22	2.498	1.014	21.1	<	0.016	<	0.3	0.4	8.3	7.3	152.1	7.70	160.4
6/25/22	2.329	1.138	22.1	<	0.016	<	0.3	1.06	20.6	7.67	149.0	8.73	169.6
6/26/22	2.386												
6/27/22	2.255	0.92	17.3		0.02		0.4	0.63	11.8	7.3	137.3	7.93	149.1
6/28/22	2.168	0.094	1.7		0.094		1.7	0.79	14.3	5.33	96.4	6.12	110.7
6/29/22	2.32												
6/30/22	2.225	0.106	2.0		0.106		2.0	0.78	14.5	8.09	150.1	8.87	164.6

7/1/22	2.036	0.186	3.2	0.028	0.5	0.62	10.5	8.16	138.6	8.78	149.1
7/2/22	2.049	0.305	5.2	0.025	0.4	0.29	5.0	8.17	139.6	8.46	144.6
7/3/22	2.206										
7/4/22	2.296										
7/5/22	2.231	0.24	4.5	0.027	0.5	0.43	8.0	7.41	137.9	7.84	145.9
7/6/22	2.065	0.219	3.8	0.06	1.0	< 0.05	< 0.9	7.9	136.1	< 7.95	< 136.9
7/7/22	2.419	0.331	6.7	0.032	0.6	0.046	0.9	9.8	197.7	9.85	198.6
7/8/22	1.955	0.641	10.5	0.029	0.5	0.13	2.1	11.64	189.8	11.77	191.9
7/9/22	1.779	1.101	16.3	0.028	0.4	< 0.05	< 0.7	11.79	174.9	< 11.84	< 175.7
7/10/22	1.986										
7/11/22	2.255	1.234	23.2	0.032	0.6	< 0.05	< 0.9	9.89	186.0	< 9.94	< 186.9
7/12/22	2.126	0.685	12.1	0.036	0.6	0.5	8.9	6.55	116.1	7.05	125.0
7/13/22	2.25	0.494	9.3	0.037	0.7	0.66	12.4	6.09	114.3	6.75	126.7
7/14/22	2.235										
7/15/22	2.225	0.505	9.4	0.032	0.6	0.62	11.5	6.53	121.2	7.15	132.7
7/16/22	2.456	0.656	13.4	0.032	0.7	0.69	14.1	6.07	124.3	6.76	138.5
7/17/22	2.646										
7/18/22	2.368	0.44	8.7	0.027	0.5	0.68	13.4	4.39	86.7	5.07	100.1
7/19/22	2.283										
7/20/22	2.188	0.331	6.0	0.037	0.7	0.74	13.5	4.14	75.5	4.88	89.0
7/21/22	2.096	0.617	10.8	0.027	0.5	0.65	11.4	5.47	95.6	6.12	107.0
7/22/22	2.054	1.912	32.8	0.026	0.4	0.56	9.6	7.15	122.5	7.71	132.1
7/23/22	2.199	2.172	39.8	0.062	1.1	0.67	12.3	5.61	102.9	6.28	115.2
7/24/22	2.255										
7/25/22	2.155	0.233	4.2	0.191	3.4	0.94	16.9	2.76	49.6	3.70	66.5
7/26/22	2.123	0.131	2.3	0.05	0.9	0.7	12.4	2.12	37.5	2.82	49.9
7/27/22	2.08										
7/28/22	2.26	0.144	2.7	0.034	0.6	0.8	15.1	4.23	79.7	5.03	94.8
7/29/22	2.218	0.206	3.8	0.037	0.7	0.68	12.6	5.05	93.4	5.73	106.0
7/30/22	2.315	0.18	3.5	0.025	0.5	0.7	13.5	5.13	99.0	5.83	112.6
7/31/22	2.557										
8/1/22	3.259	0.235	6.4	0.025	0.7	1.05	28.5	4.56	123.9	5.61	152.5
8/2/22	2.94										
8/3/22	2.531	0.106	2.2	0.025	0.5	0.76	16.0	3.35	70.7	4.11	86.8
8/4/22	2.392	0.315	6.3	0.021	0.4	0.75	15.0	3.42	68.2	4.17	83.2
8/5/22	2.413	0.399	8.0	0.023	0.5	0.95	19.1	5.13	103.2	6.08	122.4
8/6/22	2.279	0.216	4.1	0.029	0.6	0.52	9.9	5.44	103.4	5.96	113.3
8/7/22	2.299										
8/8/22	2.137										
8/9/22	2.068	0.175	3.0	0.04	0.7	0.62	10.7	4.65	80.2	5.27	90.9
8/10/22	2.011	0.124	2.1	0.028	0.5	0.5	8.4	4.72	79.2	5.22	87.5
8/11/22	2.229	0.144	2.7	0.027	0.5	0.42	7.8	4.7	87.4	5.12	95.2
8/12/22	2.049	0.167	2.9	0.022	0.4	0.54	9.2	5.09	87.0	5.63	96.2
8/13/22	2.041	0.175	3.0	0.021	0.4	0.52	8.9	5.49	93.5	6.01	102.3
8/14/22	2.195										
8/15/22	2.112	0.195	3.4	0.017	0.3	0.62	10.9	5.72	100.8	6.34	111.7
8/16/22	2.085	0.102	1.8	0.031	0.5	0.59	10.3	5.35	93.0	5.94	103.3
8/17/22	2.152	0.118	2.1	0.023	0.4	0.62	11.1	5.59	100.3	6.21	111.5
8/18/22	2.057	0.168	2.9	0.025	0.4	0.4	6.9	6.24	107.0	6.64	113.9
8/19/22	1.851										
8/20/22	1.916	0.184	2.9	0.039	0.6	0.86	13.7	6.66	106.4	7.52	120.2
8/21/22	2.113										
8/22/22	2.182	0.23	4.2	0.044	0.8	0.62	11.3	6.1	111.0	6.72	122.3
8/23/22	2.126	0.106	1.9	0.051	0.9	0.77	13.7	5.0	88.7	5.77	102.3
8/24/22	2.047	0.085	1.5	0.045	0.8	0.74	12.6	4.31	73.6	5.05	86.2
8/25/22	2.054										
8/26/22	2.011	0.109	1.8	0.045	0.8	0.74	12.4	5.26	88.2	6.00	100.6

8/27/22	2.099		0.116		2.0		0.037		0.6		0.75		13.1		5.81		101.7		6.56		114.8
8/28/22	2.218																				
8/29/22	2.029		0.215		3.6		0.042		0.7		0.66		11.2		5.74		97.1		6.40		108.3
8/30/22	1.978																				
8/31/22	1.948		1.636		26.6		0.727		11.8		2.85		46.3		4.08		66.3		6.93		112.6
9/1/22	1.848		2.447		37.7		0.635		9.8		1.44		22.2		1.58		24.4		3.02		46.5
9/2/22	1.769		2.512		37.1		0.818		12.1		1.58		23.3		0.1		1.5		1.68		24.8
9/3/22	1.874		2.015		31.5		1.556		24.3		2.78		43.4	<	0.06	<	0.9	<	2.84	<	44.4
9/4/22	1.858																				
9/5/22	2.165																				
9/6/22	3.53		2.471		72.7		5.94		174.9		7.34		216.1	<	0.06	<	1.8	<	7.40	<	217.9
9/7/22	2.71		1.04		23.5		4.313		97.5		5.41		122.3	<	0.06	<	1.4	<	5.47	<	123.6
9/8/22	2.611		0.386		8.4		0.957		20.8		1.79		39.0	<	0.06	<	1.3	<	1.85	<	40.3
9/9/22	2.173		0.18		3.3		0.542		9.8		1.22		22.1		0.12		2.2		1.34		24.3
9/10/22	2.181		0.246		4.5		0.383		7.0		0.93		16.9		0.18		3.3		1.11		20.2
9/11/22	3.125																				
9/12/22	2.883		0.662		15.9		2.889		69.5		3.67		88.2	<	0.06	<	1.4	<	3.73	<	89.7
9/13/22	2.698		0.547		12.3		2.238		50.4		3.13		70.4	<	0.06	<	1.4	<	3.19	<	71.8
9/14/22	2.276																				
9/15/22	2.098		0.12		2.1		0.25		4.4		0.91		15.9		1.41		24.7		2.32		40.6
9/16/22	1.979		0.095		1.6		0.208		3.4		0.88		14.5		2.59		42.7		3.47		57.3
9/17/22	2.063		0.103		1.8		0.564		9.7		1.25		21.5		2.1		36.1		3.35		57.6
9/18/22	2.356																				
9/19/22	2.078		1.401		24.3		3.008		52.1		3.71		64.3	<	0.06	<	1.0	<	3.77	<	65.3
9/20/22	1.969		1.22		20.0		3.267		53.6		4.57		75.0	<	0.06	<	1.0	<	4.63	<	76.0
9/21/22	1.934		0.847		13.7		3.213		51.8		3.47		56.0	<	0.06	<	1.0	<	3.53	<	56.9
9/22/22	1.959																				
9/23/22	1.947		0.581		9.4		2.273		36.9		3.11		50.5		0.09		1.5		3.20		52.0
9/24/22	2.124		0.303		5.4		1.381		24.5		1.98		35.1		0.15		2.7		2.13		37.7
9/25/22	2.322																				
9/26/22	2.232																				
9/27/22	1.936		0.364		5.9		1.962		31.7		2.6		42.0		1.19		19.2		3.79		61.2
9/28/22	1.801		0.082		1.2		0.211		3.2		0.95		14.3		3.24		48.7		4.19		62.9
9/29/22	1.89		0.052		0.8		0.067		1.1		0.87		13.7		4.97		78.3		5.84		92.1
9/30/22	2		0.047		0.8		0.041		0.7		0.51		8.5		8.06		134.4		8.57		142.9
<b>Avg</b>	<b>3.395</b>	<b>&lt;</b>	<b>0.657</b>	<b>&lt;</b>	<b>20.2</b>	<b>&lt;</b>	<b>0.446</b>	<b>&lt;</b>	<b>15.9</b>	<b>&lt;</b>	<b>1.156</b>	<b>&lt;</b>	<b>37.9</b>	<b>&lt;</b>	<b>5.03</b>	<b>&lt;</b>	<b>142.2</b>	<b>&lt;</b>	<b>6.181</b>	<b>&lt;</b>	<b>180.1</b>
<b>Annual Total Mass Loads (lbs):</b>	<b>&lt;</b>	<b>7387</b>	<b>&lt;</b>	<b>5813</b>	<b>&lt;</b>	<b>13820</b>	<b>&lt;</b>	<b>51901</b>	<b>&lt;</b>	<b>65721</b>											

**P Credits Generated: 145**

**No N Credits Generated**

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: **Christian L. Jordan**  
 Title: **Superintendent**

License No.: **S17213**  
 Date: **10/27/2022**

**Monthly Statistics**

**Monthly Total Mass Loads (lbs)**

<u>Month</u>	<u>Total Phosphorus (TP)</u>	<u>NH<sub>3</sub>-N</u>	<u>TKN</u>	<u>NO<sub>2</sub>+NO<sub>3</sub> as N</u>	<u>Total Nitrogen (TN)</u>
October	522.8	< 145.9	767.3	3906.1	4673.4
November	616.8	< 132.8	752.7	5936.4	6689.2
December	283.9	< 20	572	3010	3582
January	< 867	< 2287.6	3174	< 4125.4	< 7299.3

February	587.5	< 1270.1	2355.1	5299.9	7655
March	1025.1	< 56.6	908	6041.8	6949.8
April	955.7	< 569.9	1577.1	5983.1	7560.2
May	1125.1	< 310.5	1296.2	6485.9	7782.1
June	526.1	< 20.5	338.2	4102.2	4440.5
July	327.1	23.3	< 291.1	3690.4	< 3981.5
August	134.4	33.4	432.6	2861.7	3294.2
September	455.2	1021.4	1466.3	< 587.4	< 2053.7

**Average Monthly Concentrations (mg/L)**

<u>Month</u>	<u>Total Phosphorus (TP)</u>	<u>NH<sub>3</sub>-N</u>	<u>TKN</u>	<u>NO<sub>2</sub>+NO<sub>3</sub> as N</u>	<u>Total Nitrogen (TN)</u>
October	0.56	< 0.103	0.826	4.57	5.395
November	0.691	< 0.158	0.867	6.67	7.538
December	0.434	< 0.03	0.862	4.57	5.433
January	< 0.745	< 1.966	2.81	< 4.26	< 7.067
February	0.41	< 0.918	1.715	4.74	6.455
March	1.015	< 0.055	0.893	5.95	6.847
April	0.719	< 0.313	1.041	4.98	6.023
May	0.824	< 0.103	0.676	4.98	5.66
June	0.842	< 0.033	0.546	6.57	7.118
July	0.589	0.042	< 0.512	6.64	< 7.15
August	0.242	0.063	0.766	5.11	5.875
September	0.806	1.669	2.459	< 1.2	< 3.655

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F  
 Were **Credits Purchased** During Compliance Year? No  
 Were **Credits Sold** During Compliance Year? No  
 Were **Offsets Generated** During Compliance Year? No

Compliance Year: 2022 Outfall: 001  
 NPDES Permit No.: PA0020826  
 This permit will expire on: June 30, 2022  
 TN Delivery Ratio: 0.543  
 TP Delivery Ratio: 0.185

**SUMMARY**

	TN	TP
Annual Total Mass Load (lbs)	< 65721	< 7387
Lbs from Credits Purchased	0	0
Lbs from Credits Sold	0	0
Lbs from Offsets Generated	0	0
Annual Net Mass Load (lbs)	< 65721	< 7387
Cap Load (lbs)	146,117	19,482

(Annual Total Mass Load + Lbs from Credits Sold - Lbs from Credits Purchased - Offsets)

**Compliance Compliance**

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: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: 10/27/2022

**INSTRUCTIONS FOR COMPLETING  
ANNUAL CHESAPEAKE BAY SPREADSHEET**

The Annual Chesapeake Bay Spreadsheet is intended to replace all prior forms of supplemental reporting for facilities with "cap loads" in NPDES permits, and is required by DEP's Nutrient Trading Program if a facility intends to generate nutrient credits. Attach this completed spreadsheet to the Annual DMR due by November 28th each year. **Cells that are available for data entry are highlighted in yellow throughout the spreadsheet; all other cells are locked. The spreadsheet is formatted to allow users to hit the Tab key to move between editable cells.** For questions concerning this spreadsheet, contact DEP at (717) 787-2137.

**ANNUAL NUTRIENT MONITORING WORKSHEET**

- 1 Continuous Discharge Checkbox** - By default this box is checked. **DO NOT UNCHECK this box unless there is no (0) discharge from the outfall for an entire day during the Compliance Year.** Flow values must be entered every day if the Continuous Discharge Checkbox is not checked (if the Continuous Discharge Checkbox is checked, flow may only be reported on days in which samples were collected). If there is any day in which there is no discharge, un-check this box and enter a flow of "0" into the appropriate cell in the table. When this box is not checked, the spreadsheet calculates Monthly and Annual Total Mass Loads based on the actual number of days in which there is a discharge > 0, rather than assuming there is a discharge every day.  
 Continuous Discharge
- 2 Header Information** - Enter Facility Name, Municipality, County, Watershed No., NPDES Permit No., Outfall No., and Permit Expiration Date. Select Compliance Year from the drop-down list. Enter the TN and TP Delivery Ratios for the facility - Delivery Ratios are found in the Phase 2 WIP Wastewater Supplement, available on DEP's website at [www.dep.pa.gov/npdes-bay](http://www.dep.pa.gov/npdes-bay). Enter cap loads (Annual Net Mass Load limits) for TN and TP from the NPDES permit. If the selected outfall discharges industrial waste instead of sewage, select the radio button for "Industrial Waste". Note that when Industrial Waste is selected, nutrient credit calculations are disabled and the Credits Sold table on the Nutrient Budget worksheet becomes disabled.
- 3** Enter the average daily effluent Flow, in million gallons per day (MGD) and nutrient parameter concentrations (mg/L) for the entire Compliance Year. **Enter results exactly as received from the laboratory.** The worksheet will automatically calculate the daily loading (lbs/day) for all parameters and Total Nitrogen concentrations (in blue). If no monitoring data are available for the day, leave the row blank. Use the drop-down list in the "Q" (Qualifier) column to select the less than symbol ("<") for any result reported as "non-detect."
- 4** Average annual concentrations and mass loadings are automatically calculated. Daily concentrations for Total Nitrogen are computed by summing the concentrations for TKN and NO<sub>2</sub> + NO<sub>3</sub> as N.

Annual Total Mass Loads (lbs/yr) for TN and TP are calculated and shown at the bottom of the table. **Prior to the end of the Compliance Year, the value displayed is an estimate based on the data entered thus far.** In addition, if TP and/or TN credits were generated, the amount of credits that may be verified and registered by DEP are shown. The formula for calculating credit values is contained within DEP's Phase II WIP Wastewater Supplement (see [www.dep.pa.gov/npdes-bay](http://www.dep.pa.gov/npdes-bay)).

**NOTE** - The sum of Monthly Total Mass Loads will generally not match the Annual Total Mass Load because of how the calculations are performed. Monthly Total statistics consider the number of days in the month, and loads associated with longer months are weighted more heavily than loads associated with shorter months. Annual Total statistics consider the number of days in the year and smooth the variability in the number of days in each month. However, both statistics are appropriate for the type of DMR associated with the statistics - Monthly Totals for monthly DMRs and Annual Totals for annual DMRs.

- 5** Enter the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

Below the form is a table of Monthly Total Mass Loads and Average Monthly Concentrations that is calculated upon entry of flow and nutrient concentrations. These calculated loads and concentrations may be used to report required data on Monthly DMRs.

**ANNUAL NUTRIENT BUDGET WORKSHEET**

- 1** Most header information is automatically populated when entered on the Annual Nutrient Monitoring sheet. Answer each question concerning whether credits were purchased or sold or offsets were generated during the compliance year by selecting "Yes" or "No" from the drop-down menus. If "Yes" is selected, a corresponding table is made available for data entry.
- 2** Use the tables "**Credits Purchased**" and "**Credits Sold**" to report all credits that were purchased and sold, respectively during the Compliance Year AND Truing Period (Oct 1 - Nov 28). Select the Credit Type ("Nitrogen" or "Phosphorus"), and enter the Registry Number, Contract Effective Date, DEP Approval Date (date of DEP's letter or email registering credits), and the number of credits purchased or sold during the Compliance Year. Each purchase or sale transaction should be reported on a separate line. Credits purchased and sold are adjusted by dividing the credits by the TN/TP Delivery Ratio (entered on the Annual Nutrient Monitoring sheet). Click the box for "Add Rows" if additional lines are needed to report credits purchased or sold.
- 3** Use the table "**Offsets**" to report all offsets for the Compliance Year. Select the Offset Type ("Nitrogen" or "Phosphorus"), the Source of Offsets and enter the number of offsets claimed (lbs). For septage (only septage, not holding tank or other hauled in wastes), divide the total gallons of septage received by 1,000 and multiply by 3 to determine the total amount (lbs) of offsets to report in the Offsets table. Enter the DEP Approval Date for the Offsets and the method of the approval. For Offsets identified and approved in permits, list the date of permit issuance, otherwise list the date of written DEP approval.

A summary table is provided to allow tracking of a facility's compliance with cap loads.

- 4** Enter the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

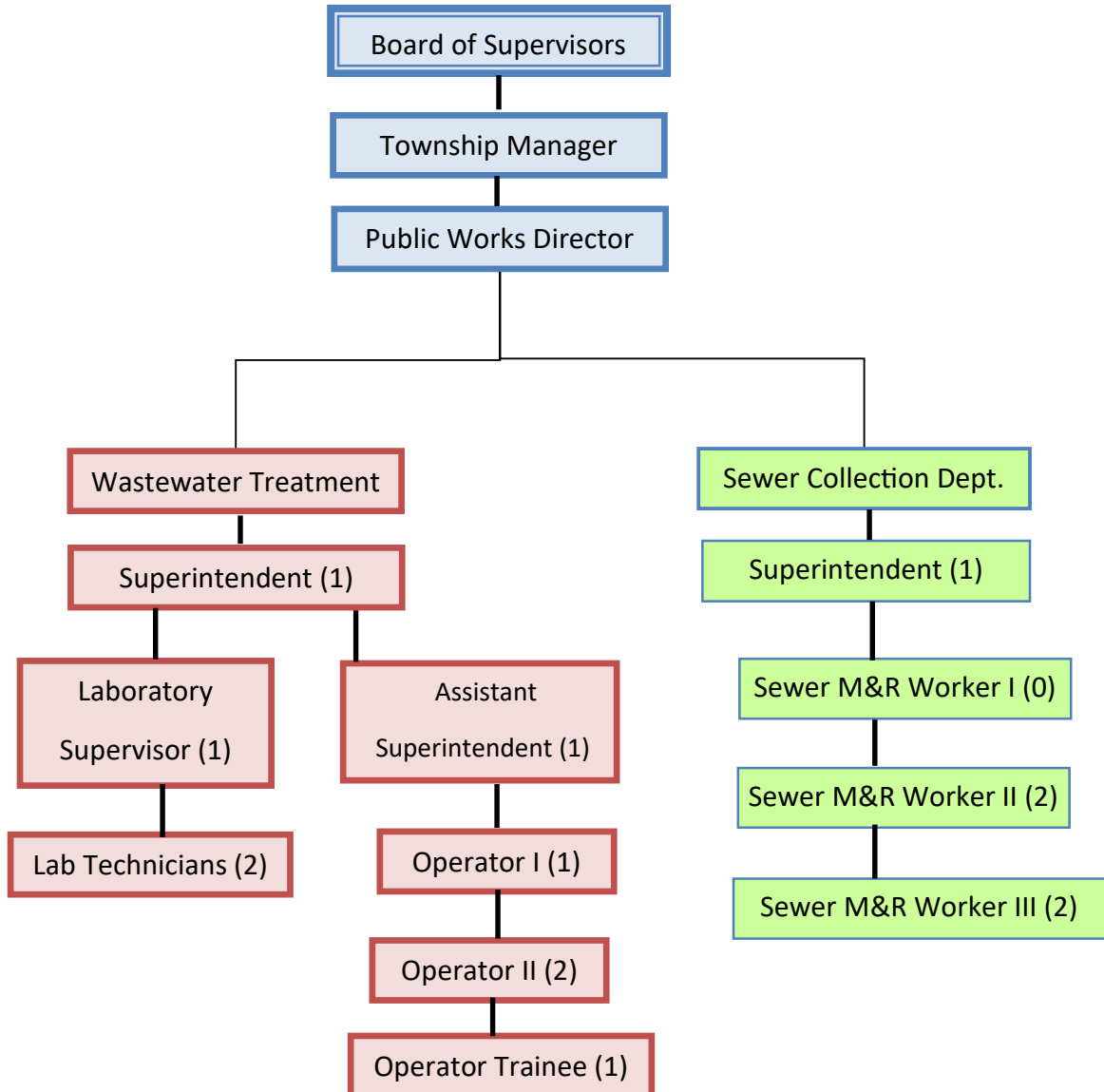
**EDU CONNECTED FOR NUTRIENT CREDITS\***

Year	Manchester Twp	West Manchester Township	Conewago Township	Dover Township
2003	4	0	19	0
2004	0	0	13	0
2005	0	0	1	5
2006	2	2	0	3
2007	8	2	1	0
2008	1	0	0	3
2009	11	1	0	0
2010	23	0	1	0
2011	1	0	0	0
2012	2	0	1	0
2013	0	0	0	0
2014	0	0	0	0
2015	0	1	0	0
2016	0	0	0	0
2017	0	0	0	0
2018	0	0	0	0
2019	0	0	0	0
2020	0	0	0	0
2021	0	0	0	0
2022	0	0	0	0

\*Number of septic tanks permanently decommissioned and EDU then connected to sewer system.

ORGANIZATIONAL CHART: 2022

(#) = Number of employees





## Wastewater Treatment Plant Certified Operators

NAME	PA DEP ID#	CLASS	ISSUED	EXPIRATION
Christian Jordan	293816	A,E 1,4	4/1/2021	3/31/2024
Dan Gembe	197533	A,E 1,2,3,4	1/1/2021	12/31/2023
Ryan Gentzler	267278	A 1, 5	10/2/2020	9/30/2023
Beverly Root	267285	A 1	10/1/2017	9/30/2023
Tom Holdsworth	267280	A,E 1	10/1/2021	9/30/2024
Chase Billet	359042	A,E 1,2,3,4	4/15/2021	3/31/2024
Aaron Laird	299287	A,E 1	10/1/2020	9/30/2023

## **2022 SEWER EXTENSIONS**

**1.** Bupp McNaughton Phase II is a small section to an existing development where 18 Dwelling Units will eventually be constructed. The sewer extension consists of approximately 450 linear feet of 8" SDR pipe and 3 precast concrete manholes.

**2.** Seasons Phase II is an extension to an existing development where 52 Dwelling Units will eventually be constructed. The sewer extension consists of approximately 2,482 linear feet of 8" SDR pipe and 15 precast concrete manholes.

**3.** Brownstown Phase 4B is an extension to an existing development where 96 Dwelling Units will eventually be constructed. The sewer extension consists of approximately 1,640 linear feet of 8" SDR pipe and 11 precast concrete manholes.

**2022 ANNUAL REPORT OF PERMITS & CONNECTIONS CONTRIBUTING TO THE DOVER TOWNSHIP WASTEWATER TREATMENT FACILITY**

**PERMITS (EDU) 2022**

	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
DOVER New permits	5	0	5	2	5	5	2	5	7	10	7	3	56

**NEW CONNECTIONS FROM EACH TOWNSHIP (EDU) 2022**

	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
DOVER	4	68	21	6	35	14	7	3	2	2	0	4	166
MANCHESTER	0	1	0	0	0	2	0	0	0	1	2	0	6
WEST MANCHESTER, TOTAL MONTHLY	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>WEST MANCHESTER, UNMETERED</i>	0	0	0	0	0	0	0	1	0	0	0	0	1
CONEWAGO, TOTAL MONTHLY	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>CONEWAGO, UNMETERED</i>													0
<b>TOTAL:</b>	4	69	21	6	35	16	7	4	2	3	2	4	173



**2022 ANNUAL REPORT OF PROJECTED CONNECTIONS CONTRIBUTING TO THE DOVER TOWNSHIP WASTEWATER TREATMENT FACILITY**

**CALCULATED PROJECTIONS (EDU) 2023-2027**

**PROJECTED TOTAL ADDITIONAL EDU PER YEAR NOT PEAKING FACTOR**

	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>
<b>DOVER</b>	195	224	262	229	210
<b>WEST MANCHESTER</b>	7	5	6	6	6
<b>MANCHESTER</b>	7	9	6	5	5
<b>CONEWAGO</b>	0	40	40	40	9
<b>TOTAL PROJECTED EDU:</b>	<b>209</b>	<b>278</b>	<b>314</b>	<b>280</b>	<b>230</b>

USED 300 GAL/EDU

# 2022 SEWER CONNECTIONS

CONNECTION								EQUIV.FLOW	MONTHLY TOTALS
DATE	PERMIT	STREET #	STREET NAME	SUBDIVISION	DEVELOPER	TYPE	#EDU	G.P.D.	CONNECTIONS
1/12/2022	21-0128	3811	Country Drive	Donwood I	Millwood	R	1	230	
1/13/2022	21-0424	3410	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
1/18/2022	21-0416	4032	Country Drive	Donwood	Berks at Donwood Estates, LLC	R	1	230	
1/21/2022	21-0469	3400	Winter Drive	The Seasons III	Berks at the Seasons	R	1	230	<b>4</b>
2/1/2022	21-0482	4060	Country Drive	Donwood IIA	Berks at Donwood Estates, LLC	R	1	230	
2/2/2022	21-0425	3375	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
2/4/2022	21-0362	951	Shadowbrooke Drive	Sagebrook	EG Stoltzfus LLC	R	1	230	
2/8/2022	21-0470	3360	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
2/10/2022	20-0474	Bldg #1	Emig Mill Rd	The Reserve at Copper Chase	Reserve at Copper Chase, LLC	R	9	2,070	
2/11/2022	20-0476	Bldg #3	Emig Mill Rd	The Reserve at Copper Chase	Reserve at Copper Chase, LLC	R	9	2,070	
2/12/2022	20-0393	Bldg #4	Emig Mill Rd	The Reserve at Copper Chase	Reserve at Copper Chase, LLC	R	9	2,070	
2/13/2022	20-0394	Bldg #5	Emig Mill Rd	The Reserve at Copper Chase	Reserve at Copper Chase, LLC	R	9	2,070	
2/14/2022	20-0314	Bldg #7	Emig Mill Rd	The Reserve at Copper Chase	Reserve at Copper Chase, LLC	R	9	2,070	
2/15/2022	20-0315	Bldg #8	Emig Mill Rd	The Reserve at Copper Chase	Reserve at Copper Chase, LLC	R	9	2,070	
2/16/2022	20-0199	Bldg #10	Emig Mill Rd	The Reserve at Copper Chase	Reserve at Copper Chase, LLC	R	9	2,070	
2/17/2022	21-0471	3370	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	<b>68</b>
3/2/2022	21-0503	4024	Country Drive	Donwood	Berks at Donwood Estates, LLC	R	1	230	
3/10/2022	21-0599	3365	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
3/17/2022	21-0573	4064	Country Drive	Donwood	Berks at Donwood Estates, LLC	R	1	230	
3/22/2022	21-0489	967	Shadowbrooke Drive	Sagebrook	EG Stoltzfus LLC	R	1	230	
3/28/2022	21-0558	3350	Pebble Run Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
3/24/2022	21-0584	4056	Country Drive	Donwood IIA	Berks at Donwood Estates, LLC	R	1	230	
3/25/2022	21-0586	3495	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
3/28/2022	21-0609	3485	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
3/29/2022	21-0625	4072	Country Drive	Donwood IIA	Berks at Donwood Estates, LLC	R	1	230	
3/31/2022	19-0165	3795	Davidsburg Road	Terra Vista	Boyd Hess Dover LLC	R	12	2,760	<b>21</b>
4/13/2022	21-0596	3385	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
4/19/2022	21-0477	3616	Kortni Drive	Creekside	Burkentine Builders	R	1	230	
4/19/2022	21-0476	3618	Kortni Drive	Creekside	Burkentine Builders	R	1	230	
4/27/2022	21-0635	3415	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
4/27/2022	21-0624	3395	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
4/27/2022	21-0627	4052	Country Drive	Donwood Phase IIA	Berks at Donwood Estates, LLC	R	1	230	<b>6</b>
5/11/2022	22-0026	1602	Fountain Rock Drive	Fountain Rock	EG Stoltzfus LLC	R	1	230	
5/13/2022	21-0194	3440	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
5/13/2022	21-0197	3430	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	

# 2022 SEWER CONNECTIONS

CONNECTION								EQUIV.FLOW	MONTHLY TOTALS
DATE	PERMIT	STREET #	STREET NAME	SUBDIVISION	DEVELOPER	TYPE	#EDU	G.P.D.	CONNECTIONS
5/13/2022	21-0330	4065	Country Drive	Donwood	Berks at Donwood Estates, LLC	R	1	230	
5/13/2022	21-0328	4053	Country Drive	Donwood	Berks at Donwood Estates, LLC	R	1	230	
5/17/2022	21-0569	2646	Brownstone Drive	Brownstonw Manor	Ashley Hawkins JA Myers Homes	R	1	230	
5/19/2022	21-0626	4012	Country Drive	Donwood IIA	Berks at Donwood Estates, LLC	R	1	230	
5/13/2022	21-0419	3380	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
5/31/2022	21-0565	2644	Brownstone Drive	Brownstonw Manor	Ashley Hawkins JA Myers Homes	R	1	230	
5/13/2022	21-0182	3470	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
5/31/2022	21-0363	947	Shadowbrooke Drive	Sagebrooke	EG Stoltzfus LLC	R	1	230	
5/24/2022	20-0548	Bldg #1/Comm.	Sparrow's Way 3	Sparrow's Way	Sparrow's Way LP	R	9	2070	
5/24/2022	20-0549	Bldg #2	Sparrow's Way 3	Sparrow's Way	Sparrow's Way LP	R	8	1840	
5/24/2022	20-0550	Bldg #3	Sparrow's Way 3	Sparrow's Way	Sparrow's Way LP	R	7	1610	<b>35</b>
6/1/2022	21-0560	3827	Country Drive	Donwood I	Jeffrey A Nadu, Sr	R	1	230	
6/1/2022	21-0361	1808	Fountain Rock Drive	Fountain Rock	EG Stoltzfus LLC	R	1	230	
6/1/2022	21-0365	943	Shadowbrooke Drive	Sagebrooke	EG Stoltzfus LLC	R	1	230	
6/2/2022	21-0364	939	Shadowbrooke Drive	Sagebrooke	EG Stoltzfus LLC	R	1	230	
6/1/2022	21-0369	1822	Fountain Rock Drive	Fountain Rock	EG Stoltzfus LLC	R	1	230	
6/2/2022	21-0571	2633	Brownstone Drive	Brownstone Manor	Ashley Hawkins JA Myers Homes	R	1	230	
6/6/2022	21-0488	963	Shadowbrooke Drive	Sagebrook	EG Stoltzfus LLC	R	1	230	
6/6/2022	21-0529	3700	Belmont Avnue	Ashcome Farms South	Lancaster Home Builders, Joe Nadu	R	1	230	
6/8/2022	21-0570	2631	Brownstone Drive	Brownstone Manor	Ashley Hawkins JA Myers Homes	R	1	230	
6/8/2022	21-0585	955	Shadowbrooke Drive	Sagebrook	EG Stoltzfus LLC Larry Sheckler	R	1	230	
6/9/2022	21-0567	2637	Brownstone Drive	Brownstone Manor	Ashley Hawkins JA Myers Homes	R	1	230	
6/9/2022	21-0568	2635	Brownstone Drive	Brownstone Manor	Ashley Hawkins JA Myers Homes	R	1	230	
6/10/2022	21-0152	3480	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
6/20/2022	21-0583	959	Shadowbrooke Drive	Sagebrook	EG Stoltzfus Homes Larry Sheckler	R	1	230	<b>14</b>
7/1/2022	21-0531	3293	Alta Vista Road	Individual Lot	Ashley Hawkins JA Myers Homes	R	1	230	
7/1/2022	21-0629	2632	Victorian Drive	Brownstone Manor	Ashley Hawkins JA Myers Homes	R	1	230	
7/5/2022	22-0001	3960	Country Drive	Donwood	Berks at Donwood Estates, LLC	R	1	230	
7/5/2022	22-0096	3310	Walker Avenue	Fountain Rock	EG Stoltzfus Jr. Inc Mike Wetherhold	R	1	230	
7/6/2022	22-0089	3405	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
7/11/2022	22-0088	3425	Winter Drive	The Seasons III	Berks at the Seasons, LLC	R	1	230	
7/21/2022	22-0090	4041	Chapman Court	Palomino Heights	onshine III LP/Keystone Custom Home	R	1	230	<b>7</b>
8/3/2022	22-0219	1703	Fountain Rock Drive	Fountain Rock	EG Stoltzfus LLC	R	1	230	
8/11/2022	21-0628	2628	Victorian Drive	Brownstone Manor	J A Myers Homes Ashley Hawkins	R	1	230	
8/23/2022	22-0012	3809	Stonehouse Lane	Brownstone Manor	J A Myers Homes Ashley Hawkins	R	1	230	<b>3</b>

# 2022 SEWER CONNECTIONS

CONNECTION DATE	PERMIT	STREET #	STREET NAME	SUBDIVISION	DEVELOPER	TYPE	#EDU	EQUIV.FLOW G.P.D.	MONTHLY TOTALS CONNECTIONS
9/6/2022	22-0086	3820	Country Drive	Donwood Phase I	Jeffrey A Nadu, Sr	R	1	230	
9/26/2022	22-0147	988	Shadowbrooke Drive	Sagebrook	EG Stoltzfus Homes Larry Sheckler	R	1	230	2
10/20/2022	22-0221	971	Shadowbrooke Drive	Sagebrook	EG Stoltzfus Homes Larry Sheckler	R	1	230	
10/20/2022	22-0222	975	Shadowbrooke Drive	Sagebrook	EG Stoltzfus Homes Larry Sheckler	R	1	230	2
12/2/2022	22-0349	3300	Walker Avenue	Fountain Rock	EG Stoltzfus Homes Mike Wetherhold	R	1	230	
12/20/2022	22-0391	1622	Fountain Rock Drive	Fountain Rock	EG Stoltzfus Homes Mike Wetherhold	R	1	230	
12/21/2022	22-0413	2634	Brownstone Drive	Brownstone Manor	Ashley Hawkins JA Myers Homes	R	1	230	
12/28/2022	22-0438	1644	Fountain Rock Drive	Fountain Rock	EG Soltzfus Homes	R	1	230	4
<b>TOTAL</b>									<b>166</b>



**DOVER TOWNSHIP permits issued between 1/1/2022 and 1/31/2022**

Permit No.	Issued Date	Owner	Project Addr.	Description	Applicant	Est. Cost	Fee
<b>Building Permit</b>							
<b>Mechanical</b>							
22-0005	1/10/2022	PIHL, JEFFREY M	2942 VILLAGE SQ...	Replace meter box & base	PIHL, JEFFREY M	\$550.00	\$130.00
22-0030	1/26/2022	HUNT, JARED E & COLLE...	3660 ROCK CREE...	Replacement of gas boiler	Haller Enterprises, Tammy...	\$10,789.33	\$190.00
22-0031	1/26/2022	WITHAM, KATHLEEN	3785 MAZELAND CT	Replace Heat Pump & Air...	Haller Enterprises, Tammy...	\$9,047.04	\$190.00
<b>Total Mechanical:</b>						<b>3</b>	<b>\$510.00</b>
<b>SFD</b>							
22-0001	1/4/2022	WALSH, STERLING E JR...	3960 Country Drive	Build New Single Family H...	PHIL CARPENTER CUST...	\$575,000.00	\$14,140.19
22-0012	1/12/2022	BROWNSTONE DRIVE LLC	3809 STONEHOUS...	Build New Single Family H...	Ashley Hawkins JA Myers...	\$275,000.00	\$13,976.13
22-0026	1/24/2022	EG Stoltzfus Homes, LLC	1602 FOUNTAIN R...	Build New Single Family H...	EG Stoltzfus Homes, LLC	\$210,700.00	\$11,338.00
22-0027	1/25/2022	NADU SR, JEFFREY A	3835 COUNTRY DR	Build New Single Family H...	NADU SR, JEFFREY A	\$148,000.00	\$13,400.68
22-0028	1/25/2022	NADU SR, JEFFREY A	3816 COUNTRY DR	Build New Single Family H...	NADU SR, JEFFREY A	\$148,000.00	\$13,390.18
<b>Total SFD:</b>						<b>5</b>	<b>\$66,245.18</b>
<b>Solar Panels</b>							
22-0014	1/14/2022	FULTZ, STEPHEN G & VI...	5597 PINCHTOWN...	Install Roof Mount Solar P...	Tsang - Vision Solar LLC,...	\$20,000.00	\$731.00
22-0015	1/14/2022	MVULA, KACOB & JENNI...	4201 BEAUMONT RD	Install Roof Mount Solar P...	Thomas Pollock Trinity Solar	\$24,972.77	\$596.78
22-0029	1/25/2022	ALLEN, ROBERT JR & CR...	2923 VILLAGE SQ...	Install Roof Mount Solar P...	Baer Sunrun Installation S...	\$17,306.00	\$0.00
<b>Total Solar Panels:</b>						<b>3</b>	<b>\$1,327.78</b>
<b>Total Building Permit:</b>						<b>11</b>	<b>\$68,082.96</b>
<b>Demolition Permit Removal</b>							
22-0022	1/21/2022	NEBULA REALTY TRUST/...	196 FOX RUN RD	193 Shawnee Ave - Remo...	Delp, John	\$13,000.00	\$150.00
<b>Total Removal:</b>						<b>1</b>	<b>\$150.00</b>
<b>Total Demolition Permit:</b>						<b>1</b>	<b>\$150.00</b>
<b>Plumbing Permit (Unclassified)</b>							
22-0016	1/17/2022	SPAHR, DALE L & LINDA L	6460 OLD CARLISL...	Hook Up to Township Water	SPAHR, DALE L & LINDA L	\$5,250.00	\$5,250.00
<b>Total (Unclassified):</b>						<b>1</b>	<b>\$5,250.00</b>
<b>Repair</b>							
22-0004	1/6/2022	LINTON, CLARENCE L &...	3035 MUIRFIELD RD	Sewer Lateral Repair-Instal...	LINTON, CLARENCE L &...	\$15,176.00	\$70.00
22-0013	1/13/2022	HITTIE, TEENA MARIE	4760 CARLISLE RD	Water/Sewer Lateral Repair	HITTIE, TEENA MARIE	\$1,200.00	\$150.00
22-0017	1/20/2022	ECKROTE, ALLEN E & SH...	1625 E CANAL RD	Installing a 2way cleanout	ECKROTE, ALLEN E & SH...	\$5,500.00	\$100.00
22-0025	1/24/2022	KESLAR, JANET E	4070 MULBERRY LN	Repair Water Service	Brent Kling - F.F. Kling & S...	\$0.00	\$150.00
22-0032	1/27/2022	SEPI, PAMELA	3430 CARDINAL LN	Sewer Lateral Repair	SEPI, PAMELA	\$3,200.00	\$100.00
<b>Total Repair:</b>						<b>5</b>	<b>\$570.00</b>
<b>Total Plumbing Permit:</b>						<b>6</b>	<b>\$5,820.00</b>

Permit No.	Issued Date	Owner	Project Addr.	Description	Applicant	Est. Cost	Fee
<b>Use Permit</b>							
<b>Use Certificate</b>							
22-0008	1/11/2022	FIGDORE, GREGORY A	2939 VILLAGE SQ...	Accessory Family Dwelling...	FIGDORE, GREGORY A	\$0.00	\$50.00
22-0007	1/11/2022	RACKSON, JAMES T II &...	4076 COUNTRY D...	Lifecycles Maternity LLC	RACKSON, JAMES T II &...	\$0.00	\$50.00
<b>Total Use Certificate:</b>						<b>2</b>	<b>\$100.00</b>
<b>Total Use Permit:</b>						<b>2</b>	<b>\$100.00</b>
<b>Zoning Permit</b>							
<b>Accessory Structure</b>							
22-0003	1/6/2022	SAMBUCA, JASON & ME...	3280 PEBBLE RUN...	Install 28'x16' Shed & Fence	SAMBUCA, JASON & ME...	\$10,000.00	\$50.00
22-0010	1/11/2022	NOLL, LARRY E	3236 PARTRIDGE DR	Install 20x24 Detached Gar...	NOLL, LARRY E	\$16,000.00	\$223.90
<b>Total Accessory Structure:</b>						<b>2</b>	<b>\$273.90</b>
<b>Assessory Structure</b>							
22-0011	1/12/2022	LEIB, JAMES H & DAWN Y	4471 DAVIDSBUR...	Install 28' x 14' Shed	LEIB, JAMES H & DAWN Y	\$4,500.00	\$237.20
<b>Total Assessory Structure:</b>						<b>1</b>	<b>\$237.20</b>
<b>Deck</b>							
22-0006	1/11/2022	PARELLA, BLAIR C JR &...	3470 WINTER DR	Build Deck (not attached to...	PARELLA, BLAIR C JR &...	\$10,951.00	\$100.00
<b>Total Deck:</b>						<b>1</b>	<b>\$100.00</b>
<b>Fence</b>							
22-0009	1/11/2022	LONG, KEVIN M	1918 POPLARS RD	Install Fence	LONG, KEVIN M	\$12,000.00	\$50.00
22-0018	1/21/2022	ARNOLD, GERALD P & J...	2131 POPLARS RD	Install Fence	Whitman Security Fence, A...	\$1,900.00	\$100.00
22-0021	1/21/2022	BROGAN, CYNTHIA M	1940 ALDON DR	Install Fence	Whitman Security Fence, A...	\$3,000.00	\$100.00
22-0020	1/21/2022	RYAN, DOLORES A	3440 WINTER DR	Install Fence	Whitman Security Fence, A...	\$8,250.00	\$100.00
<b>Total Fence:</b>						<b>4</b>	<b>\$350.00</b>
<b>Shed</b>							
22-0024	1/21/2022	FIRESTONE, JEFFREY A...	2400 OAKMONT RD	Install 20'x24' Shed	FIRESTONE, JEFFREY A...	\$2,500.00	\$268.00
22-0023	1/21/2022	FIRESTONE, JEFFREY A...	CLEARVIEW RD	Install 20'x24' Shed	FIRESTONE, JEFFREY A...	\$2,500.00	\$268.00
22-0019	1/21/2022	LAUBACH, BROOKE E &...	4611 APPALOOSA...	Build 20 x 12 Shed	LAUBACH, BROOKE E &...	\$12,000.00	\$184.00
<b>Total Shed:</b>						<b>3</b>	<b>\$720.00</b>
<b>Sign</b>							
22-0002	1/4/2022	MARTIN , CHERYL	2590 CARLISLE RD	Replace Existing Sign	Heather Weikel - Strickler...	\$4,425.00	\$50.00
<b>Total Sign:</b>						<b>1</b>	<b>\$50.00</b>
<b>Total Zoning Permit:</b>						<b>12</b>	<b>\$1,731.10</b>
<b>Total Permits:</b>						<b>32</b>	<b>\$75,884.06</b>

## DOVER TOWNSHIP permits issued between 2/1/2022 and 2/28/2022

Permit No.	Issued Date	Owner	Project Addr.	Description	Applicant	Est. Cost	Fee
<b>Building Permit</b>							
<b>Commercial</b>							
22-0037	2/3/2022	MARTIN , CHERYL	2590 CARLISLE RD	Replace Signs	Heather Weikel - Strickler...	\$30,070.00	\$599.56
22-0059	2/24/2022	4830 CARLISLE ROAD LA...	4840 CARLISLE RD	Enlarge & Replace Garage...	John Hartley - Total Wash...	\$15,989.00	\$372.91
<b>Total Commercial:</b>						<b>2</b>	<b>\$972.47</b>
<b>Deck</b>							
22-0056	2/24/2022	BRUNO, CHRISTINA N	4314 WINCHESTE...	Install Pool Deck	BRUNO, CHRISTINA N	\$14,000.00	\$312.00
<b>Total Deck:</b>						<b>1</b>	<b>\$312.00</b>
<b>Electrical</b>							
22-0035	2/2/2022	FAIRCHILD, JAMES J & B...	2790-2792 PINEVIE...	100 amp Electrical Panel R...	Heather Fekete - Mister S...	\$5,800.00	\$130.00
22-0043	2/10/2022	LEON, NADIA & ALVARA...	1737 ROCKY RD	200 amp panel replacement	Heather Fekete - Mister S...	\$9,195.00	\$130.00
<b>Total Electrical:</b>						<b>2</b>	<b>\$260.00</b>
<b>Garage-Attached</b>							
22-0060	2/25/2022	BURKE, WILLIAM & MAA...	3110 CARDINAL LA...	Construct 24'x20' Garage a...	BURKE, WILLIAM & MAA...	\$45,000.00	\$1,234.30
<b>Total Garage-Attached:</b>						<b>1</b>	<b>\$1,234.30</b>
<b>Generator</b>							
22-0053	2/24/2022	GENTZLER, JOHN JR & L...	2512 WILLAPA DR	Install Generator	J.K. Mechanical Inc, Charit...	\$12,668.64	\$200.00
<b>Total Generator:</b>						<b>1</b>	<b>\$200.00</b>
<b>Mechanical</b>							
22-0042	2/10/2022	CORVINO, KATRINA L	3103 JODI LN	Replace Gas Furnace	Haller Enterprises, Tammy...	\$6,118.23	\$190.00
<b>Total Mechanical:</b>						<b>1</b>	<b>\$190.00</b>
<b>Pole Building</b>							
22-0055	2/24/2022	BURNHAM, COREY B & C...	5781 CLEARVIEW...	Replace 70'x20' garage wit...	BURNHAM, COREY B & C...	\$27,000.00	\$596.00
<b>Total Pole Building:</b>						<b>1</b>	<b>\$596.00</b>
<b>Pool-Above Ground</b>							
22-0041	2/10/2022	NEAL, MARK & JENNIFE...	3302 JODI LN	Install Above Ground Pool	NEAL, MARK & JENNIFE...	\$5,000.00	\$360.00
22-0057	2/24/2022	SCHRADE, DONALD R JR	5240 CARLISLE RD	Install Above Ground Pool	SCHRADE, DONALD R JR	\$13,029.00	\$414.23
<b>Total Pool-Above Ground:</b>						<b>2</b>	<b>\$774.23</b>
<b>Pool-In Ground</b>							
22-0046	2/18/2022	HUMMEL, JESSICA M & L...	4073 COUNTRY D...	Install in-ground pool 28' x...	Blue Haven Pools by Calvit...	\$45,400.00	\$971.20
<b>Total Pool-In Ground:</b>						<b>1</b>	<b>\$971.20</b>
<b>Repair/Replace</b>							
22-0038	2/7/2022	STINE, JOSEPH A	2785 ADMIRE SPRI...	Repair Fire Damage	Wertz, Christopher	\$110,000.00	\$1,630.00
22-0058	2/24/2022	WOLZ, CHRISTOPHER J...	2768 ANITA DR	Repair Basement Wall	WOLZ, CHRISTOPHER J...	\$32,000.00	\$456.00

Permit No.	Issued Date	Owner	Project Addr.	Description	Applicant	Est. Cost	Fee
<b>Building Permit</b>							
<b>Repair/Replace</b>							
<b>Total Repair/Replace:</b>						<b>2</b>	<b>\$2,086.00</b>
<b>Solar Panels</b>							
22-0054	2/24/2022	SHELLY, GEOFFREY L &...	1830 POPLAR RD	Install Roof Mount Solar P...	Thomas Pollock Trinity Solar	\$17,769.25	\$467.15
<b>Total Solar Panels:</b>						<b>1</b>	<b>\$467.15</b>
<b>Total Building Permit:</b>						<b>15</b>	<b>\$8,063.35</b>
<b>Plumbing Permit</b>							
<b>Repair</b>							
22-0044	2/15/2022	CUFFARO, ANTHONY W...	3341 DAVIDSBUR...	Sewer Lateral Repair	CUFFARO, ANTHONY W...	\$2,000.00	\$100.00
<b>Total Repair:</b>						<b>1</b>	<b>\$100.00</b>
<b>Total Plumbing Permit:</b>						<b>1</b>	<b>\$100.00</b>
<b>Use Permit</b>							
<b>Use Certificate</b>							
22-0062	2/28/2022	Prendergast, Michael & Misty	4350 BULL RD	Retail Clothing & Acc for S...	Prendergast, Michael & Misty	\$0.00	\$50.00
22-0061	2/28/2022	MINNICH, MARK F & AMY A	4091 ADMIRE RD	Small Engine Repair	MINNICH, MARK F & AMY A	\$0.00	\$50.00
<b>Total Use Certificate:</b>						<b>2</b>	<b>\$100.00</b>
<b>Total Use Permit:</b>						<b>2</b>	<b>\$100.00</b>
<b>Zoning Permit</b>							
<b>Driveway</b>							
22-0039	2/8/2022	VANBOURGONDIE, HE...	2567 BERKSHIRE LN	Repair & Extend Driveway	VANBOURGONDIE, HE...	\$5,000.00	\$240.00
<b>Total Driveway:</b>						<b>1</b>	<b>\$240.00</b>
<b>Driveway Extension</b>							
22-0045	2/16/2022	AMBRASS, CHARLES E JR	3601 MIDDLEBOR...	Extend Driveway	AMBRASS, CHARLES E JR	\$2,200.00	\$153.20
<b>Total Driveway Extension:</b>						<b>1</b>	<b>\$153.20</b>
<b>Fence</b>							
22-0034	2/2/2022	HOACHLANDER, JEFFRE...	4116 STRAWBRID...	Install Fence	HOACHLANDER, JEFFRE...	\$2,500.00	\$100.00
22-0033	2/2/2022	AMBROSE, BEAU A	3703 WHEATLAND...	Install Fence	AMBROSE, BEAU A	\$3,500.00	\$100.00
22-0036	2/3/2022	LYLE, CRAIG STEVEN &...	2457 BERKSHIRE LN	Install Fence	Security Fence, Adam Whit...	\$9,465.00	\$100.00
22-0040	2/8/2022	FORBES, JOSHUEN LEE...	4324 BEAUMONT RD	Install 6' Fence	FORBES, JOSHUEN LEE...	\$9,800.00	\$100.00
22-0047	2/22/2022	PRESTON, DONTE M & N...	3465 Winter Drive	Install Fence	PRESTON, DONTE M & N...	\$0.00	\$100.00
22-0049	2/24/2022	LAUREANO, HECTOR L JR	3251 ALTA VISTA RD	Install Fence	Security Fence, Adam Whit...	\$7,535.00	\$100.00
22-0050	2/24/2022	KIOUSSIS, STEPHEN A &...	2942 MILKY WAY RD	Install Fence	KIOUSSIS, STEPHEN A &...	\$4,828.00	\$100.00
22-0052	2/24/2022	ROGERS, GERALD W & S...	2911 MONTICELLO...	Install Fence	KEVIN WEAVER BUILDIN...	\$4,500.00	\$100.00
22-0051	2/24/2022	RINEHOLT, OWEN M	2830 SHERWOOD LN	Install Fence	RINEHOLT, OWEN M	\$2,100.00	\$100.00
<b>Total Fence:</b>						<b>9</b>	<b>\$900.00</b>
<b>Shed</b>							
22-0048	2/23/2022	MOTTER, CHRISTOPHER...	2052 WYATT CIR	install 10'x10' Shed	MOTTER, CHRISTOPHER...	\$2,330.94	\$100.00

Permit No.	Issued Date	Owner	Project Addr.	Description	Applicant	Est. Cost	Fee
------------	-------------	-------	---------------	-------------	-----------	-----------	-----

**Zoning Permit  
Shed**

<b>Total Shed:</b>	<b>1</b>	<b>\$100.00</b>
<b>Total Zoning Permit:</b>	<b>12</b>	<b>\$1,393.20</b>

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<b>Total Permits:</b>	<b>30</b>	<b>\$9,656.55</b>
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## DOVER TOWNSHIP permits issued between 3/1/2022 and 3/31/2022

### Building Permit

#### SFD

Permit No.	Issued Date	Owner	Project Address	Description	Applicant Est.	Cost
22-0089 \$12,882.43	3/21/2022	BERKS AT THE SEASONS	3405 WINTER DR	New SFD	BERKS AT THE SEASONS	\$185,400.00
22-0088 \$13,634.57	3/21/2022	BERKS AT THE SEASON	3425 WINTER DR	New SFD	BERKS AT THE SEASONS	\$219,500.00
22-0086 \$13,581.98	3/21/2022	NADU SR, JEFFREY A	3820 COUNTRY DR	New SFD	NADU SR, JEFFREY A	\$118,000.00
22-0090 \$5,391.04	3/22/2022	SONSHINE III LP/KEYST	4041 CHAPMAN CT	New SFD	SONSHINE III LP/KEYS	\$239,025.00
22-0096 \$12,285.58	3/22/2022	EG Stoltzfus Homes, LLC	3310 WALKER AVE	New SFD	EG STOLTZFUS JR INC	\$231,800.00

#### Total SFD: 5

\$57,775.60

Permit_Nu	Issued_Date	Owner	Property_A	Permit_De:Applicant	Estimated_Co	Permit_Fees
22-0147	4/18/2022	BULL ROAC 988	SHADC	Build New ! EG Stoltzfu	\$210,000.00	\$13,709.40
22-0148	4/18/2022	BULL ROAC 994	SHADC	Build New ! EG Stoltzfu	\$215,000.00	\$14,333.32

**DOVER TOWNSHIP permits issued between 5/1/2022 and 5/31/2022**

<i>Permit No.</i>	<i>Issued Date</i>	<i>Owner</i>	<i>Project Address</i>	<i>Description</i>	<i>Applicant</i>
<i>Est. Cost</i>	<i>Fee</i>				
<b>SFD</b>					
22-0201	5/13/2022	Rodgers, Keith E, Sherry L...	1204 Conewago Rd	Build New Single-Family Home	Rodgers, Keith E, Sherry L
\$400,000.00	\$9,559.30				
22-0211	5/24/2022	HAKE, VINCENT	5170 BULL RD	Build New Single-Family Home	WSL Inc., Josh Leshar
\$379,287.00	\$6,228.75				
22-0219	5/27/2022	EG Stoltzfus Homes, LLC	1703 FOUNTAIN R...	Build New Single-Family Home	EG STOLTZFUS JR INC,
\$289,500.00	\$12,155.25				
22-0221	5/31/2022	BULL ROAD ASSOCIATE...	971 SHADOWBROOKE DR	Build New Single-Family Home	EG Stoltzfus
\$215,000.00	\$14,156.55				
22-0222	5/31/2022	BULL ROAD ASSOCIATE...	975 SHADOWBROOOKE DR.	Build New Single-Family Home	EG Stoltzfus
\$265,000.00	\$14,452.00				
<b>Total SFD: 5</b>	Est. Cost: \$1,548,787.00 Fees: \$56,551.85				



**SFD**

22-0229 6/3/2022 SPINKS, CHRISTOPHER... 5481 ROBIN RD Build New Single-Family H... Custom Creations Building... \$450,000.00 \$8,166.90

**Commercial**

22-0267 6/27/2022 DOVER HIGHLANDS STONY LN 12-UNIT APARTMENT BU... Mark Stambaugh - Kinsley... \$784,665.00 \$84,440.63

22-0268 6/27/2022 DOVER HIGHLANDS STONY LN 12-UNIT APARTMENT BU... Mark Stambaugh - Kinsley... \$784,665.00 \$86,349.07

22-0269 6/27/2022 DOVER HIGHLANDS STONY LN 12-UNIT APARTMENT BU... Mark Stambaugh - Kinsley... \$784,665.00 \$86,349.07

22-0276 6/29/2022 Posh Properties No. 49 Do... 3160 CARLISLE RD Starbucks Tenant Fitup Brennan Starbucks Permit... \$300,000.00 \$5,825.00

Total Commercial: 5 Est. Cost: \$2,658,995.00 Fees: \$263,372.77

Permit_Nu	Issued_Dat	Owner	Property_A	Permit_De	Applicant	Estimated_	Permit_Fees
22-0292	7/1/2022	NADU SR, J	3812 COUN	Build New	NADU SR, J	148000	10447.19
22-0335	#####	EG Stoltzfu	1705 FOUN	Build New	EG STOLTZI	258800	11300.7

Permit_Nun	Issued_Date	Owner	Property_Address	Permit_Description	Applicant	Estimated_Const	Permit_Fees
22-0349	8/5/2022	EG Stoltzfus Homes, LLC	3300 WALKER AVE	Build New Single Family Home	EG STOLTZFUS JR INC, Mike Wetherhold	\$244,800.00	\$11,761.58
22-0352	8/9/2022	SANTIAGO, GUSTAVO	3085 EMIG MILL RD	Build New Single Family Home	SANTIAGO, GUSTAVO	\$100,000.00	\$3,396.60
22-0353	8/11/2022	CLYMER, GREGG & CARPENTER PHIL	3010 ENGLEWOOD CT	Build New Single Family Home	CLYMER, GREGG & CARPENTER PHIL	\$185,000.00	\$12,873.47
22-0391	8/26/2022	EG Stoltzfus Homes, LLC	1622 FOUNTAIN ROCK DR	Build New Single Family Home	EG STOLTZFUS JR INC, Mike Wetherhold	\$325,600.00	\$12,065.47
22-0393	8/29/2022	INTEGRITY FIRST HOME BUYERS LLC	2616 MUNICIPAL RD	Build New Single Family Home	INTEGRITY FIRST HOME BUYERS LLC	\$230,000.00	\$5,736.83

Permit_Number	Issued_Date	Owner	Property_Address
22-0394	9/1/2022	YORK HABITAT FOR HUMANITY INC	3550 PARTRIDGE DR
22-0413	9/16/2022	BROWNSTONE DRIVE LLC	2634 BROWNSTONE DR
22-0419	9/16/2022	BROWNSTONE DRIVE LLC	2630 BROWNSTONE DR
22-0425	9/20/2022	BROWNSTONE DRIVE LLC	2628 BROWNSTOWN DR
22-0426	9/20/2022	BROWNSTONE DRIVE LLC	2632 BROWNSTONE DR
22-0428	9/20/2022	BUCHANAN, CASEY P	6160 MOUNTAIN RD
22-0438	9/22/2022	EG Stoltzfus Homes, LLC	1644 FOUNTAIN ROCK DR

Permit\_Description

Build New Single Family Home

Build New Single Family Home (Attached)

Build New Single Family Home (Attached)

Build New Single Family Home (Attached)

Build New Single Family Home (Attached)

New Industrialized Home

Build New Single Family Home

Applicant	Estimated_Construction_Cost	Permit_Fees
YORK HABITAT FOR HUMANITY INC	150000	1140
Ashley Hawkins JA Myers Homes	180000	12986.24
Ashley Hawkins JA Myers Homes	180000	12982.08
Ashley Hawkins JA Myers Homes	180000	12982.07
Ashley Hawkins JA Myers Homes	180000	12989.74
BUCHANAN, CASEY P	222500	2538.5
EG Stoltzfus Homes, LLC	229000	10826.5

**DOVER TOWNSHIP permits issued between 10/1/2022 and 10/31/2022**

Permit No.	Issued Date	Owner Project	Address	Description	Applicant	Est. Cost	Fee
SFD							
22-0455	10/6/2022	BROWNSTONE DRIVE LLC	2636 BROWNSTO...	Build New Single Family H...	Ashley Hawkins JA Myers...	\$180,000.00	\$13,027.39
22-0454	10/6/2022	BROWNSTONE DRIVE LLC	2638 BROWNSTO...	Build New Single Family H...	Ashley Hawkins JA Myers...	\$180,000.00	\$13,029.49
22-0457	10/6/2022	BROWNSTONE DRIVE LLC	2640 BROWNSTO...	Build New Single Family H...	Ashley Hawkins JA Myers...	\$180,000.00	\$13,027.39
22-0456	10/6/2022	BROWNSTONE DRIVE LLC	2642 BROWNSTO...	Build New Single Family H...	Ashley Hawkins JA Myers...	\$180,000.00	\$13,029.49
22-0473	10/13/2022	STOUGH, LISA A & KEVA...	1740 VIRGINIA AVE	Build New Single Family H...	Bahn, Bob	\$430,000.00	\$5,579.20

Commercial

22-0453	10/6/2022	DOVER HIGHLANDS, LP	STONY LN	8-UNIT APARTMENT BUI...	Craig Campbell - Warehaus	\$866,500.00	\$13,721.34
22-0487	10/25/2022	DOVER HIGHLANDS, LP	STONY LN	8-UNIT APARTMENT BUI...	Craig Campbell - Warehaus	\$866,500.00	\$61,175.70
22-0488	10/25/2022	DOVER HIGHLANDS, LP	STONY LN	8-UNIT APARTMENT BUI...	Craig Campbell - Warehaus	\$866,500.00	\$85,404.47
22-0503	10/31/2022	DOVER HIGHLANDS, LP	STONY LN	8-UNIT APARTMENT BUI...	Craig Campbell - Warehaus	\$866,500.00	\$22,850.20
22-0504	10/31/2022	DOVER HIGHLANDS, LP	STONY LN	8-UNIT APARTMENT BUI...	Craig Campbell - Warehaus	\$866,500.00	\$22,850.20

Permit_Number	Issued_Date	Owner	Property_Address
22-0505	11/3/2022	Millford, Zachary F & Jennifer M	1690 Palomino Rd
22-0521	11/18/2022	BRH at The Seasons, LLC	3501 Summer Dr
22-0522	11/18/2022	BRH at The Seasons, LLC	3515 Winter Dr
22-0523	11/18/2022	BRH at The Seasons, LLC	3515 Summer Dr
22-0524	11/18/2022	BRH at The Seasons, LLC	3535 Summer Dr
22-0525	11/18/2022	BRH at The Seasons, LLC	3505 Summer Dr
22-0526	11/18/2022	BRH at The Seasons, LLC	3500 Winter Dr





Estimated_Construction_Cost		Permit_Fees
294900		17264.67
240000		13671.35
196500		12860.36
230950		13998.78
252150		13690.79
231500		12933.99
213500		13087.72

**SFD**

22-0547 12/14/2022 BRH at The Seasons, LLC **3525 Summer Dr** Build New SFD, Berks at **The Seasons**  
LLC... \$187,165.00 \$12,800.02

22-0548 12/16/2022 BRH at The Seasons, LLC **3510 Winter Dr** Build New SFD, Berks at **The Seasons**  
LLC... \$215,000.00 \$13,315.83

22-0557 12/28/2022 BRH at The Seasons, LLC **3530 Winter Dr** Build New SFD, Berks at **The Seasons**  
LLC... \$196,950.00 \$12,927.85

**SEWER CONNECTION PROJECTIONS FOR DOVER TOWNSHIP**

Development	Sewer status	2022 Actual	2023	2024	2025	2026	2027	Total Possible EDUs
Alda Ketterman	Paid in full	0	0	0	0	0	0	3
Ashcombe South	Approved	1	0	0	0	0	0	0
Bonsell on Grenway	Paid in full	0	0	0	0	0	0	3
Brownstone Ph 3	In Approval Process	0	0	0	24	24	24	99
Brownstone 4A	Paid in full	8	0	0	0	0	0	0
Brownstone 4B		0	24	24	24	24	0	96
Bupp/McNaughton Farm (Sagebrook)	Approved	0	15	15	15	15	15	196
Norma Ridge	Approved	0	27	28	0	0	0	55
Cornerstone Bible Church	Paid in full	0	0	0	0	0	0	5
Creekside Village	Paid in full	2	0	0	0	0	5	5
Donwood	Paid in full	8	4	0	0	0	0	4
Donwood Ext./Don Ziegler/ IIC	Paid in full	0	0	0	0		0	2
Donwood IIA	Paid in full	6	0	0	0	0	0	0
Donwood IIB		0	11	11	11	11	10	54
Dover Highlands	Planning Stage	0	36	36	36	36	36	180
Fountain Rock Phase 1	Approved	0	9	0	0	0	0	9
Fountain Rock Phase 2	Early Planning	0	0	0	23	23	23	115
Fox Run Apartments		0	27	27	0	0	0	54
Grandview Golf Course	Paid in full	0	0	0	0	0	0	11
Kinsley/Dover Industrial	Paid in full	0	1	1	1	0	0	34
Ort farm on D-burg Rd.	Approved	0	1	1	1	0	0	5
Palomino Heights	Approved	1	0	0	0	0	0	0
		0	0	0	0	0	0	
Providence Place	Planing stage	0	0	0	0	0	0	0
Spang's, Inc./Ethel Shaffer	Paid in full	0	0	0	0	0	0	3
Tall Oak Estates/Dr. Chadaga	Planing stage		0	0	0	0	0	0
							0	
Terra Vista	Approved	12	0	0	0	0	0	0
The Seasons/Pasch/Ryan	Approved	0	26		0	0	0	0
The Seasons III	Approved	0	0	0	0	29	30	59
Thunderbird MHP Expansion	Approved	0	0	0	0	0	0	58
Copperchase Apartments	Paid in full		0	0	0	0	0	0



# DOVER TOWNSHIP SANITARY SEWER SYSTEM MAINTENANCE PROGRAM 2022

1. As of February 27, 2023, the Dover Township Sanitary Sewer System consists of 78 miles of sewer collector lines and 15 miles of interceptor lines. These lines range in size from 6 inch to 60 inch. Dover Township Sanitary Sewer System also consists of 2,273 Manholes. Almost all of Dover Township's sewage goes to the Dover Township Wastewater Facility. Only 35 EDUs flow to the Dover Borough system by sewer lines that predate the township system.
2. The Dover Township Sewer Department has (3) full time licensed employees and a new hire that will be licensed. They are responsible for daily maintenance of the 93 miles of sanitary sewer lines and 2,217 manholes. They are also responsible for marking routine PA ONE Calls and any emergency PA ONE CALL. In the year of 2022, they responded to 1,747 requests.
3. Wastewater Collection System Operators and Certificate Information

Name	Client ID #	Exp. Date
Chris Hamme	290067	12/31/2024
Brian Keener	358187	9/30/2024
Shawn Appler	251818	6/30/2025
Matt Miller	N/A	N/A

4. Dover Township's sewer department has the following tools on hand to perform their daily tasks.
  - a. 2012 Chevrolet 2500 Silverado (various hand tools)
  - b. 2011 Ford F-350 Crew Cab Utility Bed (various hand tools, clean out caps, safety equipment)
  - c. 2020 Ford F550 which contains a Cues mainline and lateral launch system with Granite software.
  - d. 2003 Sterling Vactor 2100
  - e. Polaris ATV which is used to navigate muddy or wet right-of-ways.
  - f. Various pumps and generators
  - g. Mr. Manhole Six Shooter
  - h. Easement Machine

5. Dover Township's sewer maintenance activities during 2022 included.
  - a. 360 manholes inspected.
  - b. 0 basement and downspout inspections
  - c. 178 cleanouts inspected.
  - d. 123 cleanouts repaired.
  - e. 14,371.40 linear feet mainline inspections
  - f. 8,549.10 linear feet lateral inspections
  - g. 40 installed watertight frame and covers.

See attached charts, tables, and maps.

### **Pipe Replacement Projects:**

#### **Project 1 Andover Utility Replacement Project (Completed in 2022)**

On December 14, 2020, the Dover Township Supervisors approved a proposal for Spotts, Stevens, and McCoy to design, bid, and award the sanitary sewer and water replacement in Andover. This is one of Dover Townships older developments. The goal is for construction to begin in September 2021 and be substantially completed in March of 2022. This project will include the replacing of all sanitary sewer and water mainlines. This project will also include the replacement of all sanitary sewer laterals and water service lines to the township right-of-way. This project took the place of our annually cured in place project.

#### **Project 2 Joint Interceptor Replacement Project Phase II/III**

This project is an extension of phase one. It starts just east of Bull Rd and extends west past Carlisle Rd. The replacement includes approximately 10,000 linear feet of 42-inch pipe with 60-inch pipe and 36 manholes. This project is currently being designed with construction in 2024.

#### **Project 3 Fox Run Interceptor Replacement Project Phases I**

The first phase is immediately upstream of the Dover Wastewater Treatment Plant. The replacement includes approximately 7,560 linear feet of 24-inch pipe with 36-inch pipe, and 25 manholes. This project is scheduled to be designed in 2024, with construction to follow. Currently there are no known overflows on the Fox Run Interceptor since the completion of phase one of the Joint Interceptor. Dover does not know the conditions under which the interceptor was in during the hurricane/tropical storm, as the interceptor was under water.

See attached charts, tables, and maps.

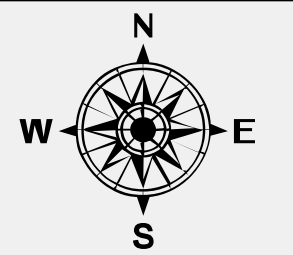
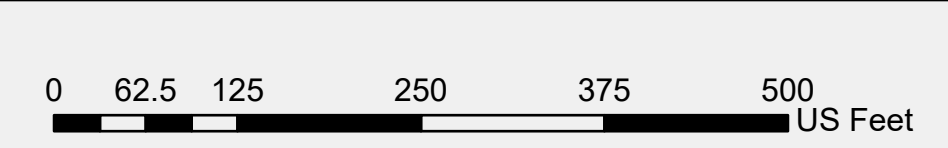


# Dover Township Andover Sanitary Sewer Replacement

Created For: Chris Hamme

Creation Date: 03/09/2022

File Save Location: R:\SEWER\Chapter 94\2022\Andover Sanitary Sewer Replacement.pdf



Nathan W. Stone  
Technology Specialist  
2480 W Canal Rd  
Dover, PA 17315  
Phone: (717) 292-3634  
Fax: (717) 292-1136  
nstone@dovertownship.org

## GIS Map Legend

- INTERCEPTORS**
- Interceptor Manholes
- Interceptor Lines
- Conveyance**
- Fox Run
- Joint
- Palomino
- COLLECTORS**
- Collector Lines
- Collector Manholes
- Andover Sewer Lines







# Dover Township Fox Run Interceptor Replacement Phase I

Created For: Chris Hamme  
 Creation Date: 2/27/2023  
 File Save Location: R:\SEWER\Chapter 94\2023\Fox Run Interceptor Replacement Phase I.pdx

0 135 270 540 810 1,080 US Feet

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 Technology Specialist  
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 Dover, PA 17315  
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 nstone@dovertownship.org

## GIS Map Legend

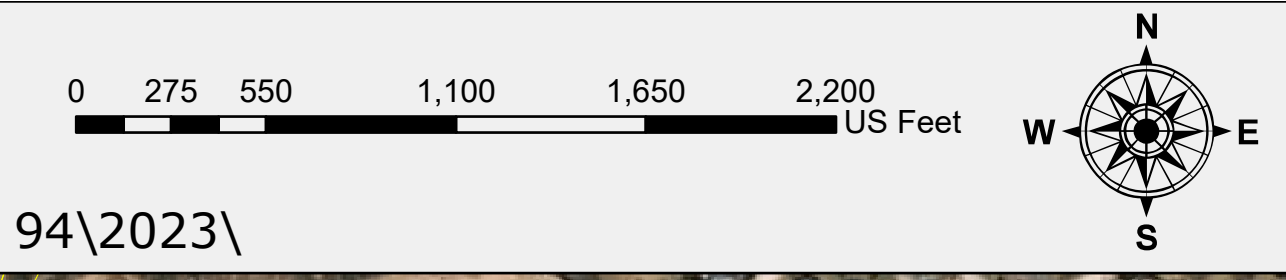
- BASE
- Parcels for Sewer I&I Inspections
- SEWER\_INSP
  - No
  - Yes
- Municipal Boundary
- Cleanouts
  - No
  - Yes
- OWNER
  - Dover Township
  - Private
- Fox Run Interceptor Replacement
- Does the Manhole need Maintenance or Repair?
  - No
  - Yes
  - <all other values>
- Laterals
- Other Manholes
  - Conewago Township
  - Manchester Township
  - WWTP
  - West Manchester Township
  - Other
  - Other Sewer Lines
  - End of Line (AEP)
- Collector Lines
- Inspections
  - Completed TV
  - No TV
  - Interceptor Manholes
- Interceptor Lines
- Conveyance
  - Fox Run
  - Joint
  - Palomino
  - Collector Manholes
  - 20 Ft Buffer (10 ft both sides)
  - 50 Ft Buffer (25 ft both sides)





# Dover Township Joint Interceptor Phases II/III

Created For: Chris Hamme  
Creation Date: 2/27/2023  
File Save Location: R:\SEWER\Chapter 94\2023\

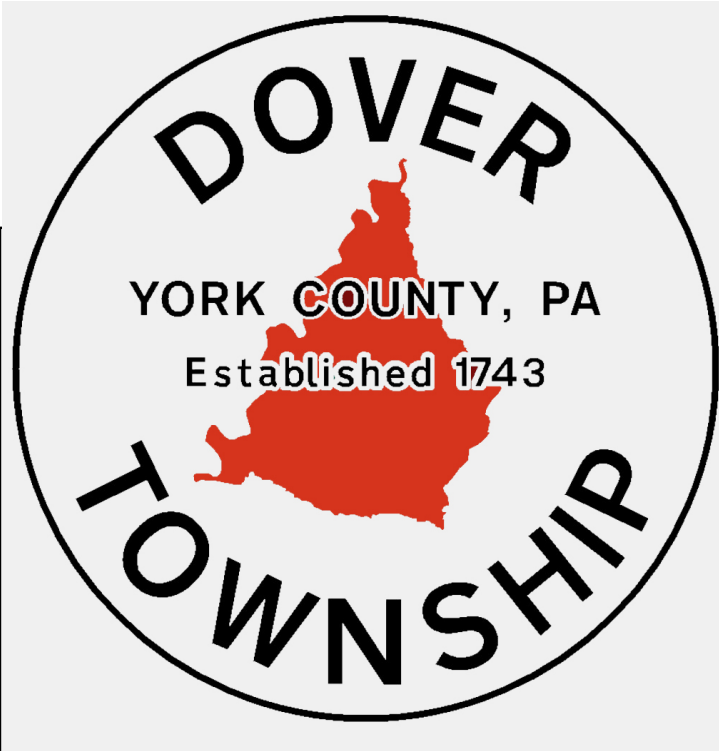


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## GIS Map Legend

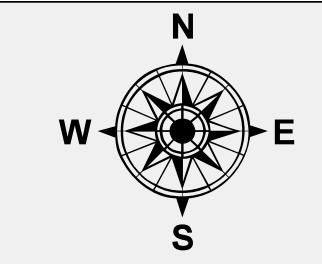
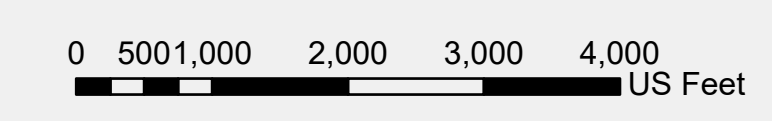
- BASE**
- Parcels for Sewer I&I Inspections
- SEWER\_INSP
  - No
  - Yes
- Municipal Boundary
- Cleanouts**
  - No
  - Yes
- OWNER**
  - Dover Township
  - Private
- Does the Manhole need Maintenance or Repair?
  - No
  - Yes
  - <all other values>
  - Laterals
- Other Manholes**
  - Conewago Township
  - Manchester Township
  - WWTP
  - West Manchester Township
  - Other
  - Other Sewer Lines
  - End of Line (AEP)
- Collector Lines**
- Inspections**
  - Completed TV
  - No TV
  - Interceptor Manholes
- Interceptor Lines**
  - Conveyance
    - Fox Run
    - Joint
    - Palomino
    - Collector Manholes
  - 20 Ft Buffer (10 ft both sides)
  - 50 Ft Buffer (25 ft both sides)
  - York County Parcels
  - Dover Cleanout Inspection Form Survey Data Locations
- Dover Manhole Form**
  - MH Repair Necessary?
    - No
    - Yes
  - Road Names (AGOL)





# Dover Township Manhole Inspections

Created For: Chris Hamme  
Creation Date: 2/27/2023  
File Save Location: R:\SEWER\Chapter 94\2023\



Nathan W. Stone  
Technology Specialist  
2480 W Canal Rd  
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## GIS Map Legend

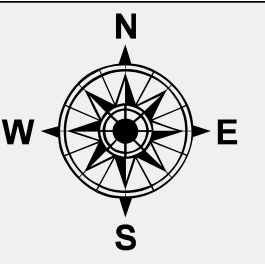
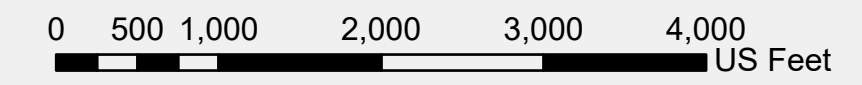
- BASE**
- Parcels for Sewer I&I Inspections
- SEWER\_INSP
  - No
  - Yes
- Municipal Boundary
- Does the Manhole need Maintenance or Repair?**
- No
- Yes
- <all other values>
- Laterals
- Other Manholes**
- Conewago Township
- Manchester Township
- WWTP
- West Manchester Township
- Other
- Other Sewer Lines
- Collector Lines**
- Inspections**
- Completed TV
- No TV
- Interceptor Manholes
- Interceptor Lines**
- Conveyance
  - Fox Run
  - Joint
  - Palomino
- Collector Manholes
- York County Parcels
- Road Names (AGOL)
- Dover Manhole Form**
- MH Repair Necessary?
  - No
  - Yes





# Dover Township Cleanout Inspections

Created For: Chris Hamme  
 Creation Date: 2/27/2023  
 File Save Location: R:\SEWER\Chapter 94\2023\



Nathan W. Stone  
 Technology Specialist  
 2480 W Canal Rd  
 Dover, PA 17315  
 Phone: (717) 292-3634  
 Fax: (717) 292-1136  
 nstone@dovertownship.org

## GIS Map Legend

- BASE
- Parcels for Sewer I&I Inspections
- SEWER\_INSP
  - No
  - Yes
- Municipal Boundary
- Cleanouts
  - No
  - Yes
- Other Manholes
  - Conewago Township
  - Manchester Township
  - WWTP
  - West Manchester Township
  - Other
- Other Sewer Lines
- York County Parcels
- Dover Cleanout Inspection Form Survey Data Locations
- Road Names (AGOL)



## **2022 SANITARY SEWER OVERFLOWS:**

There were no reported Sanitary Sewer Overflows (SSO) for the 2022 calendar year.

March 20, 2023

Erick Ammon  
Environmental Protection Compliance Specialist  
Pennsylvania Department of Environmental Protection  
Southcentral Regional Office  
Bureau of Clean Water  
909 Elmerton Avenue  
Harrisburg, PA 17110

RE Dover Township SSO Report  
Dover Township Sewer Authority  
NPDES Permit No. PA0020826  
Dover Township, York County

Dear Mr. Ammon;

First and foremost, there were no sanitary sewer overflows (SSO) in the Dover Township Sewer Authority's collection and during 2022.

Dover Township and the Dover Township Sewer Authority (DTSA) submitted their NPDES renewal application to PADEP in December 2021. One item that is provided with the NPDES permit is a listing of SSO's that have occurred during the past permit period. During subsequent discussions with the Department, it was requested that we provide an updated report of SSO's that occurred from 2017 to 2022 as part of the 2022 Chapter 94 Report.

The identified SSO's over the last 5 years can be grouped into three categories. SSO's that have been corrected by collection and conveyance system improvements, SSO's that occurred during peak events and are being monitored, and SSO's that have occurred more than once and will be eliminated through future system improvements. Refer to Table A-1 for a complete listing of the SSO events. Table A-1 also uses color to classify the events as listed above. Exhibit 1 shows the location of each SSO event as identified in Table A-1

***SSO's that have been corrected by collection and conveyance system improvements***

There have been eight previous SSO manhole locations that have been eliminated by conveyance system improvements. The manholes P01027, P01030, and P01035 are located on the section of the Palomino Interceptor which was upgraded to an 18-inch interceptor in 2019 and 2020. The manholes J01003, J01013, J01014, J01015, and J01016 are located along the Joint Interceptor which was upgraded from a 48-inch to a 60-inch interceptor in 2020 and 2021. Neither interceptor had an SSO during the September 2021 Ida Storm Event.

There were two SSO manhole locations were caused by downstream clogs. At both locations, P06002 and J06013 the blockage was removed, and on-going maintenance is preformed to eliminate the potential for future blockages.

***SSO's that occurred during peak events and are being monitored***

An SSO occurred during the September 2021 Ida Storm Event at each of the following manholes: J06009, J06036, J16007, F12003, P01005, P04146, P07011, P04174, and P07012. During this event, the area received over 6.71 inches of rain during a 12-hour period. The NOAA precipitation frequency for this event is greater than a 100-year frequency.

An SSO occurred during the July 25, 2018 storm event at each of the following manholes: J06009, P01005, and P04174. During this event, the area received over 9.41 inches of rain during a 24-hour period. The NOAA precipitation frequency for this event is greater than a 100-year frequency.

These manhole did not have an SSO for lesser events. Therefore, the Dover Township staff is continuing to monitor these manholes.

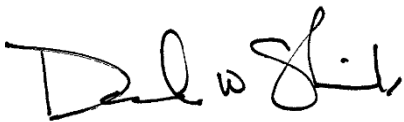
***SSO's that have occurred more than once and will be eliminated through future system improvements***

There have been SSO's at F01035, F01038 and F08001 during storm events with shorter precipitation frequencies. While there is only one event during the last 5 years, there have been reported events at these locations in the past. These manholes are located on the Fox Run Interceptor. This interceptor was identified as a future replacement project during 2014 and 2015 master planning efforts by the Dover Township staff. The Township has identified this interceptor project in it's latest 5-year Plan. The Township has indicated that the design for the interceptor replacement will begin in late 2023. The construction for replacement of the interceptor is expected to begin in 2024 and carry over into 2025.

If you have any additional questions or concerns, please feel free to contact me at [dshirk@bucharthorn.com](mailto:dshirk@bucharthorn.com).

Very truly yours,

**BUCHART HORN, INC.**



David W Shirk, PE

Senior Engineer

**Table A-1  
Summary of SSO's  
from  
2017 through 2022**

**COLOR CODING**

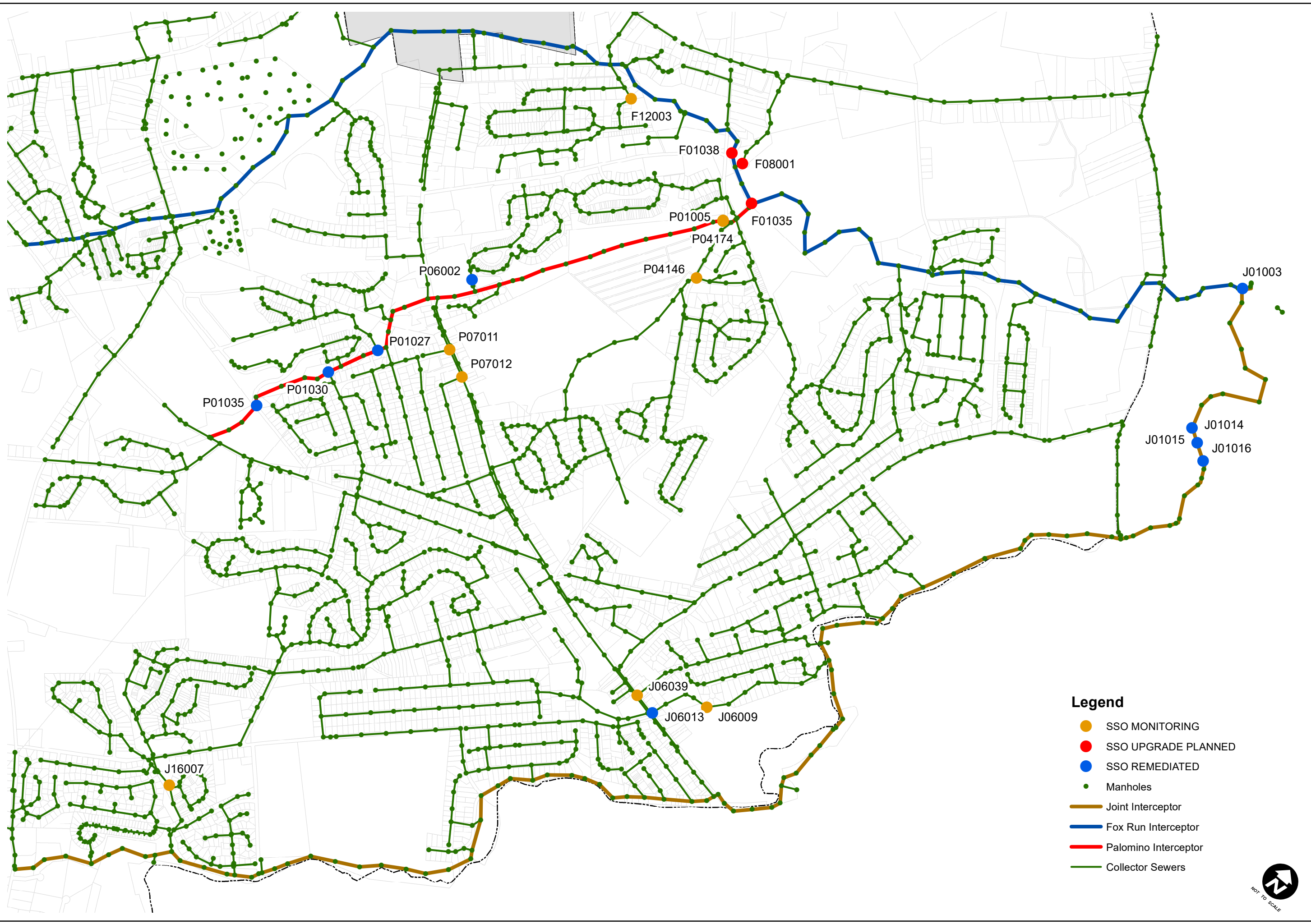
	SSO's that have been corrected by collection and conveyance system improvements These SSO's have been remediated by cleaning, blockage removal or interceptor pipe improvements. SSO's are not expected at these manholes in the future.
	SSO's that occurred during peak events and are being monitored Future SSO's are not likely due to subsequent maintenance. However, mitigating conditions such as low rim elevations or downstream segments prone to blockages require continued monitoring.
	SSO's that have occurred more than once and will be eliminated through future system improvements SSO's are likely to occur during peak wet weather flow events which exceed a 25-year precipitation frequency. Future improvements are required.

Manhole	SSO Date	Event Notes	Recommended Action	
J01003	6/3/2018	The collection system received 2.52 inches of rain over a duration of 1 hour	No action is recommended. The Joint Interceptor and the confluence with the Fox Run Interceptor was replaced 2021.	
J01003	7/25/2018	9.41 inches of rain fell during a 24 hour period	The Joint Interceptor was reconstructed with 60-inch pipe from the WWTP Headworks to Bull Road. The reconstruction included: 6500 LF of the Joint Interceptor was increased in size from 48-inch pipe to 60-inch pipe from MH J01001 to J01022.  The confluence of the Fox Run and Joint Interceptors was realigned, and 73 LF of the Fox Run Interceptor was increased from 30-inch pipe to 36-inch pipe from MH J01003 to MH F01000.  During the Ida tropical storm event in September of 2021, these manholes did not surcharge.	
J01003	3/22/2019	2.70 inches of rain in addition to the snow melt from a 9-inch snowfall event		
J01014	7/25/2018	9.41 inches of rain fell during a 24 hour period		
J01014	3/22/2019	2.70 inches of rain in addition to the snow melt from a 9-inch snowfall event		
J01015	7/25/2018	9.41 inches of rain fell during a 24 hour period		
J01015	3/22/2019	2.70 inches of rain in addition to the snow melt from a 9-inch snowfall event		
J01016	7/25/2018	9.41 inches of rain fell during a 24 hour period		
J01016	3/22/2019	2.70 inches of rain in addition to the snow melt from a 9-inch snowfall event		
J06009	7/25/2018	9.41 inches of rain fell during a 24 hour period		Continued monitoring is recommended. Both storm events were 100-year or greater precipitation frequency events. This manhole and the sewers downstream will be further assessed to determine if repairs or modification work is needed.
J06009	9/1/2021	WWTP received 6.71 inches of rain		
J06013	8/19/2021	Blockage occurred on this date	The manhole insert fell into the manhole and blocked the outlet of the manhole. The insert was removed and replaced after being inspected for any damage or insufficiencies to reduce any possibility of recurrence.	
J06039	9/1/2021	WWTP received 6.71 inches of rain in a 12-hour period	Continued monitoring is recommended. This storm event was 100-year or greater precipitation frequency event. The peak flows sanitary sewer during the Ida storm event caused a very high peak flow throughout the collection and conveyance system. This manhole has not previously surcharge and it will be monitored for future surcharge events.	
J16007	9/1/2021	WWTP received 6.71 inches of rain in a 12-hour period	Continued monitoring is recommended. This storm event was 100-year or greater precipitation frequency event. The peak sanitary sewer flows during the Ida storm event caused a very high peak flow throughout the collection and conveyance system. This manhole has not previously surcharge and it will be monitored for future surcharge events.	



**Table A-1**  
**Summary of SSO's**  
**from**  
**2017 through 2022**

Manhole	SSO Date	Event Notes	Recommended Action
F01035	3/22/2019	2.70 inches of rain in addition to the snow melt from a 9-inch snowfall event	The Fox Run Interceptor is expected to be the next interceptor improvement project. The current Dover Township's current 5-year plan includes the design of the new Fox Run Interceptor in 2023. The construction of the new Fox Run interceptor starting in 2024 and completing in 2025.
F01038	3/22/2019	2.70 inches of rain in addition to the snow melt from a 9-inch snowfall event	
F08001	3/22/2019	2.70 inches of rain in addition to the snow melt from a 9-inch snowfall event	
F12003	9/1/2021	WWTP received 6.71 inches of rain in a 12-hour period	This storm event was 100-year or greater precipitation frequency event. The peak sanitary sewer flows during the Ida storm event caused a very high peak flow throughout the collection and conveyance system. This manhole has not previously surcharge and it will be monitored for future surcharge events.
P01005	7/25/2018	9.41 inches of rain fell during a 24 hour period	
P01005	9/1/2021	WWTP received 6.71 inches of rain	
P01027	6/3/2018	WWTP received 2.52 inches of rain over a duration of 1 hour	No action is recommended. The upper portion of the Palomino Interceptor was replaced 2020.
P01027	7/25/2018	9.41 inches of rain fell during a 24 hour period	The Palomino Interceptor was reconstructed with 18-inch pipe from the western end of the interceptor at P01038 to P01021 just west of Carlisle Road.  During the Ida tropical storm event in September of 2021, these manholes did not surcharge.
P01030	7/25/2018	9.41 inches of rain fell during a 24 hour period	
P01035	7/25/2018	9.41 inches of rain fell during a 24 hour period	
P04146	9/1/2021	WWTP received 6.71 inches of rain in a 12-hour period	This storm event was 100-year or greater precipitation frequency event. The peak sanitary sewer flows during the Ida storm event caused a very high peak flow throughout the collection and conveyance system. This manhole has not previously surcharge and it will be monitored for future surcharge events.
P04174	7/25/2018	9.41 inches of rain fell during a 24 hour period	
P04174	9/1/2021	WWTP received 6.71 inches of rain in a 12-hour period	
P06002	5/13/2020	Township staff provided immediate response	The SSO was caused by a clog in the pipe downstream of the manhole. The clog was jetted, and normal flow was restored. This main line will be jetted on a quarterly basis.
P07011	9/1/2021	WWTP received 6.71 inches of rain in a 12-hour period	This storm event was 100-year or greater precipitation frequency event. The peak sanitary sewer flows during the Ida storm event caused a very high peak flow throughout the collection and conveyance system. This manhole has not previously surcharge and it will be monitored for future surcharge events.
P07012	9/1/2021	WWTP received 6.71 inches of rain in a 12-hour period	



- Legend**
- SSO MONITORING
  - SSO UPGRADE PLANNED
  - SSO REMEDIATED
  - Manholes
  - Joint Interceptor
  - Fox Run Interceptor
  - Palomino Interceptor
  - Collector Sewers



J:\PROJECTS\90021-RT\GIS\Project\2023\0001 DTSA Map.mxd

## **SEWAGE PUMPING STATIONS**

As of December 31, 2022, the Dover Township sewage collection system had no pumping stations on-line, or being constructed.

# 2022 INDUSTRIAL WASTE

No problems have been observed with the system resulting from industry as of 12/31/2022, there were no industrial wastes discharged within the system. Dover Township and the contributing townships are unaware of any significant dischargers of industrial waste into the system at this time. An industrial pretreatment ordinance was adopted by three municipalities in 1998, and Conewago Township adopted this ordinance in 2001.

With the completion of the Northern Interceptor in 1999, several light, non-impacting industries were transferred to the Dover Township wastewater system and removed from the Dover Borough system. The only permitted industrial user within the system, Pfaltzgraff, sold its property in Dover Township in mid-2003. The current owners have no industrial discharge. Industrial waste surveys have been completed and no industrial permits are in use. EPA has sent a notice that we are exempt from filing an annual industrial report until further notice or until there is an industrial discharger brought online to this system.

# Solids Management (Sludge) Calculator

This worksheet calculates the expected sludge volume that should be produced by various treatment processes over a one-year period.  
Enter data into green cells - hit the Tab key to move between cells. Red cells are calculated.

Facility Name: **Dover Township Wastewater Treatment Facility** Permit No.: **PA0020826**  
Enter Date Enter Date

Evaluation Period: **1/1/2022** to **12/31/2022**

Design Flow: **8** MGD Actual Annual Average Flow: **3.35** MGD

Type of Biological Treatment Process: **Oxidation Ditch** Treatment Factor: **0.65**

Type of Digestion Process: **Aerobic Digestion, HDT = 15** Digestion Factor: **0.8**

Total Population Served by Treatment Plant: **52,080**

Average Annual Influent BOD5 Load (per Ch. 94 Report): **4,142.0** lbs/day

Average Annual Influent BOD5 Load (Expected based on Population): **8,853.6** lbs/day *(Population x 0.17)*

% of Influent BOD5 Load per Ch. 94 Report / Influent Load Expected: **46.8%** *(Influent Load per Ch. 94 Report / Influent Load based on Population)*

Average Annual Effluent Concentration of **CBOD5**: **2** mg/L **Assume 2.4 mg/L BOD5**

Average Annual Pounds (lbs) of BOD5 Discharged: **67.05** lbs/day *(Actual Flow x Effluent BOD5 Concentration x 8.34)*

Influent BOD5 Load per Person per Day (based on Ch. 94): **0.080** *(Influent BOD5 Load per Ch. 94 Report / Population - 0.17 to 0.22 is typical)*

Pounds of BOD5 Removed (based on Ch. 94): **4,074.9** lbs/day *(Influent BOD5 Load per Ch. 94 Report - BOD5 Discharged)*

Pounds of BOD5 Removed (based on Population): **8,786.5** lbs/day *(Influent BOD5 Load Expected based on Population - BOD5)*

Sludge Removed from Treatment Plant (Previous Year): **490.2** Dry Tons = **980,420** Dry lbs

## Sludge Production and Wasting Calculations

### Based on Chapter 94 Report

	<b>4,074.9</b>	BOD5 Removed / Day (lbs)
X	<b>0.65</b>	Treatment Factor
	<b>2,648.72</b>	Daily Solids Production (lbs)
X	<b>0.8</b>	Digestion Factor
	<b>2,118.97</b>	Daily Digested Solids (lbs)
X	<b>365</b>	Days per Year
	<b>773,425</b>	Solids Generated / Year (lbs)
-	<b>980,420</b>	Solids Actually Wasted / Year (lbs)
	<b>-206,995</b>	Difference (lbs)
	<b>127%</b>	% of Expected Volume Wasted <i>(85 - 115% is generally acceptable)</i>
	<b>19.5%</b>	Percent Solids of Wasted Solids
	<b>476,551</b>	Volume of Solids to Remove Annually (gallons)
-	<b>604,092</b>	Volume of Solids Actually Removed Annually (gallons)
	<b>-127,541</b>	Difference (gallons)

### Based on Population

	<b>8,786.5</b>	BOD5 Removed / Day (lbs)
X	<b>0.65</b>	Treatment Factor
	<b>5,711.26</b>	Daily Solids Production (lbs)
X	<b>0.8</b>	Digestion Factor
	<b>4,569.00</b>	Daily Digested Solids (lbs)
X	<b>365</b>	Days per Year
	<b>1,667,687</b>	Solids Generated / Year (lbs)
-	<b>980,420</b>	Solids Actually Wasted / Year (lbs)
	<b>687,267</b>	Difference (lbs)
	<b>59%</b>	% of Expected Volume Wasted <i>(85 - 115% is generally acceptable)</i>
	<b>19.5%</b>	Percent Solids of Removed Solids
	<b>1,027,556</b>	Volume of Solids to Remove Annually (gallons)
-	<b>604,092</b>	Volume of Solids Actually Removed Annually (gallons)
	<b>423,464</b>	Difference (gallons)

# Alkalinity Required for Nitrification

*Alkalinity is needed for nitrification to meet effluent limits for Ammonia-Nitrogen (NH3-N). For every pound of NH3-N that must be removed / nitrified, 7.2 lbs of alkalinity is required. A residual alkalinity of 50 mg/L is assumed for final effluent to meet pH limits but this value can be adjusted.*

Check box if treatment plant has primary clarifier(s):

Influent Flow (MGD)	Influent NH3-N Concentration (mg/L)	Influent Alkalinity Concentration (mg/L)	Average Monthly NH3-N Effluent Limit (mg/L)	Alkalinity Desired in Final Effluent (mg/L)
6.4969	9.662	206	0.805	50

**NH3-N that must be removed / nitrified:**

$$(9.662 \text{ mg/L} - 0.805 \text{ mg/L}) \times 6.4969 \text{ MGD} \times 8.34 = 479.908981122 \text{ lbs/day}$$

**Alkalinity needed for nitrification:**

$$479.908981122 \text{ lbs/day} \times 7.2 = 3455.3446640784 \text{ lbs/day}$$

**Alkalinity available for nitrification:**

$$(206 \text{ mg/L} - 50 \text{ mg/L}) \times 6.4969 \text{ MGD} \times 8.34 = 8452.726776 \text{ lbs/day}$$

**There is sufficient alkalinity for nitrification to achieve NH3-N effluent limits**



## INSTRUCTIONS FOR COMPLETING SEWAGE SLUDGE / BIOSOLIDS SUPPLEMENTAL REPORT

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

### Biosolids Production Information

- 2 For each off-site removal event for liquid sewage sludge or biosolids and for dewatered sewage sludge or biosolids, and for each event where dewatered sewage sludge or biosolids are incinerated on-site, list the date of the event, identify the gallons (liquid) or tons (dewatered) removed or incinerated and the percent solids (without moving the decimal point, e.g., 10, 20, etc.). Dry tons is automatically calculated. If more rows are needed to document removal or incineration events, you should insert more rows in the spreadsheet. Report only sewage sludge or biosolids that have been removed from the plant digesters and other solids which have been **permanently** removed from the treatment process. Do **not** include sewage sludge or biosolids from other facilities that are processed at your facility. (If there were no off-site removal events during the month, check the box above the table).
- 3 The % Solids of liquid or dewatered sewage sludge or biosolids must be determined periodically through laboratory testing. Do not estimate or guess this value. An acceptable test method is method 2540B in Standard Methods for the Examination of Water and Wastewater, 18th edition, where samples are dried at 103-105°C. Other standard methods may be acceptable.

### Biosolids and Incinerator Ash Disposal and Beneficial Use Information

- 4 Report sewage sludge, biosolids and ash disposal and beneficial use information by disposal/application site. There are columns for four possible sites per month - if more sites are needed, it is suggested that you create a new worksheet to add sites (right click on worksheet tab, select Move or Copy, and copy into the same spreadsheet). For each Site Name, listed at the top of the column, enter the Municipality and County of the site, the DEP Permit No. (i.e., Biosolids permit number for land application, landfill waste management permit number, etc.), Type of Material (sewage sludge, biosolids or incinerator ash), Dry Tons Applied/Disposed at the site for the month, Type of Disposal/Use (e.g., reed beds, agricultural utilization, composting, landfill, other treatment plant, etc.) and the name of the hauler (company or individual name).
- 5 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.





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**SUPPLEMENTAL REPORT**  
**SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL**

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

Month: May Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration  
 This permit will expire on: June 30, 2022

**SEWAGE SLUDGE / BIOSOLIDS PRODUCTION INFORMATION (Identify each off-site removal event and incineration event)**

Check here if there were no off-site removal events during the month

Date	Liquid Sewage Sludge/Biosolids			Dewatered Sewage Sludge/Biosolids			Sewage Sludge/Biosolids		
	Hauled Off-site			Hauled Off-site			Dewatered and Incinerated On-site		
	Gallons	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons
5/3/22				23.97	20.91	5.01			
5/5/22				23.15	20.91	4.84			
5/5/22				22.20	20.91	4.64			
5/6/22				22.52	20.91	4.71			
5/6/22				23.15	20.91	4.84			
5/6/22				23.11	20.91	4.83			
5/9/22				23.28	20.91	4.87			
5/17/22				23.16	20.91	4.84			
5/18/22				23.97	20.91	5.01			
5/24/22				23.06	20.91	4.82			
5/24/22				23.58	20.91	4.93			
5/25/22				23.85	20.91	4.99			

TOTAL:

TOTAL: **58.340**

TOTAL:

**SEWAGE SLUDGE / BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION**

(Identify all sites where biosolids or ash were disposed or land applied)

Site Name	Koepper(Wallace Rd)	Koepper(Norris Rd)	Shughart Farm	Crowl Fram
Municipality	Chanceford	Lower Chanceford	Monroe	Lower Chanceford
County	York	York	Cumberland	York
DEP Permit No.	PA-YR-00009-0-0038	PA-YR-00010-0-0018	PA-CU-00003-0-0003	PA-YR-00019-0-00A2
Type of Material*	biosolids	biosolids	biosolids	biosolids
Dry Tons Applied/Disposed	46.80	15.54	5.01	4.84
Type of Disposal/Use*	agricultural utilization	agricultural utilization	agricultural utilization	agricultural utilization
Hauler Name	Synagro	Synagro	Synagro	Synagro

\* See Instructions for explanation.

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: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: June 22, 2022





## INSTRUCTIONS FOR COMPLETING SEWAGE SLUDGE / BIOSOLIDS SUPPLEMENTAL REPORT

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

### Biosolids Production Information

- 2 For each off-site removal event for liquid sewage sludge or biosolids and for dewatered sewage sludge or biosolids, and for each event where dewatered sewage sludge or biosolids are incinerated on-site, list the date of the event, identify the gallons (liquid) or tons (dewatered) removed or incinerated and the percent solids (without moving the decimal point, e.g., 10, 20, etc.). Dry tons is automatically calculated. If more rows are needed to document removal or incineration events, you should insert more rows in the spreadsheet. Report only sewage sludge or biosolids that have been removed from the plant digesters and other solids which have been **permanently** removed from the treatment process. Do **not** include sewage sludge or biosolids from other facilities that are processed at your facility. (If there were no off-site removal events during the month, check the box above the table).
- 3 The % Solids of liquid or dewatered sewage sludge or biosolids must be determined periodically through laboratory testing. Do not estimate or guess this value. An acceptable test method is method 2540B in Standard Methods for the Examination of Water and Wastewater, 18th edition, where samples are dried at 103-105°C. Other standard methods may be acceptable.

### Biosolids and Incinerator Ash Disposal and Beneficial Use Information

- 4 Report sewage sludge, biosolids and ash disposal and beneficial use information by disposal/application site. There are columns for four possible sites per month - if more sites are needed, it is suggested that you create a new worksheet to add sites (right click on worksheet tab, select Move or Copy, and copy into the same spreadsheet). For each Site Name, listed at the top of the column, enter the Municipality and County of the site, the DEP Permit No. (i.e., Biosolids permit number for land application, landfill waste management permit number, etc.), Type of Material (sewage sludge, biosolids or incinerator ash), Dry Tons Applied/Disposed at the site for the month, Type of Disposal/Use (e.g., reed beds, agricultural utilization, composting, landfill, other treatment plant, etc.) and the name of the hauler (company or individual name).
- 5 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.



**SUPPLEMENTAL REPORT**  
**SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL**

Facility Name: Dover Township STP  
Municipality: Conewago Township County: York  
Watershed: 7-F

Month: June Year: 2022  
NPDES Permit No.: \_\_\_\_\_  
Renewal application due 180 days prior to expiration  
This permit will expire on: June 30, 2022

**SEWAGE SLUDGE / BIOSOLIDS PRODUCTION INFORMATION (Identify each off-site removal event and incineration event)**

Check here if there were no off-site removal events during the month

Date	Liquid Sewage Sludge/Biosolids			Dewatered Sewage Sludge/Biosolids			Sewage Sludge/Biosolids		
	Hauled Off-site			Hauled Off-site			Dewatered and Incinerated On-site		
	Gallons	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons
6/9/22				23.28	20.91	4.87			
6/10/22				23.86	20.91	4.99			
6/14/22				22.50	20.91	4.70			
6/14/22				23.13	20.91	4.84			
6/15/22				23.43	20.91	4.90			
6/15/22				23.71	20.91	4.96			
6/21/22				23.58	20.91	4.93			
6/21/22				23.87	20.91	4.99			
6/22/22				23.80	20.91	4.98			
6/22/22				24.41	20.91	5.10			
6/23/22				22.98	20.91	4.81			
6/27/22				24.05	20.91	5.03			
6/30/22				23.11	20.91	4.83			
6/30/22				23.98	20.91	5.01			

TOTAL:

TOTAL: **68.938**

TOTAL:

**SEWAGE SLUDGE / BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION**  
(Identify all sites where biosolids or ash were disposed or land applied)

Site Name	Barbara Mellott	Barbara Mellot	Jeff Mowrer	Jeff Mowrer
Municipality	Licking Creek	Licking Creek	Centre/Savile/Spring	Centre/Savile/Spring
County	Fulton	Fulton	Perry	Perry
DEP Permit No.	PA-FU-00019-0-0013	PA-FU-00019-0-0001	PA-PE-00001-0-0006-B	PA-PE-00001-0-0003
Type of Material*	biosolids	biosolids	biosolids	biosolids
Dry Tons Applied/Disposed	4.87	9.86	9.92	9.84
Type of Disposal/Use*	agricultural utilization	agricultural utilization	agricultural utilization	agricultural utilization
Hauler Name	Synagro	Synagro	Synagro	Synagro

\* See Instructions for explanation.

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: Christian L. Jordan  
Title: Superintendent

License No.: S17213  
Date: July 21, 2022


**SUPPLEMENTAL REPORT  
 SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL**

 Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

 Month: June Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due 180 days prior to expiration  
 This permit will expire on: June 30, 2022
**SEWAGE SLUDGE / BIOSOLIDS PRODUCTION INFORMATION (Identify each off-site removal event and incineration event)**
 Check here if there were no off-site removal events during the month

Date	Liquid Sewage Sludge/Biosolids			Dewatered Sewage Sludge/Biosolids			Sewage Sludge/Biosolids		
	Hauled Off-site			Hauled Off-site			Dewatered and Incinerated On-site		
	Gallons	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons
	<b>TOTAL:</b>			<b>TOTAL:</b>			<b>TOTAL:</b>		

**SEWAGE SLUDGE / BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION  
 (Identify all sites where biosolids or ash were disposed or land applied)**

Site Name	Eric Buterbaugh			
Municipality	Licking Creek			
County	Fulton			
DEP Permit No.	PA-FU-00019-0-0009			
Type of Material*	biosolids			
Dry Tons Applied/Disposed	4.99			
Type of Disposal/Use*	agricultural utilization			
Hauler Name	Synagro			

\* See Instructions for explanation.

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: Christian L. Jordan  
 Title: Superintendent

 License No.: S17213  
 Date: July 21, 2022

## INSTRUCTIONS FOR COMPLETING SEWAGE SLUDGE / BIOSOLIDS SUPPLEMENTAL REPORT

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

### Biosolids Production Information

- 2 For each off-site removal event for liquid sewage sludge or biosolids and for dewatered sewage sludge or biosolids, and for each event where dewatered sewage sludge or biosolids are incinerated on-site, list the date of the event, identify the gallons (liquid) or tons (dewatered) removed or incinerated and the percent solids (without moving the decimal point, e.g., 10, 20, etc.). Dry tons is automatically calculated. If more rows are needed to document removal or incineration events, you should insert more rows in the spreadsheet. Report only sewage sludge or biosolids that have been removed from the plant digesters and other solids which have been **permanently** removed from the treatment process. Do **not** include sewage sludge or biosolids from other facilities that are processed at your facility. (If there were no off-site removal events during the month, check the box above the table).
- 3 The % Solids of liquid or dewatered sewage sludge or biosolids must be determined periodically through laboratory testing. Do not estimate or guess this value. An acceptable test method is method 2540B in Standard Methods for the Examination of Water and Wastewater, 18th edition, where samples are dried at 103-105°C. Other standard methods may be acceptable.

### Biosolids and Incinerator Ash Disposal and Beneficial Use Information

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- 5 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.







## INSTRUCTIONS FOR COMPLETING SEWAGE SLUDGE / BIOSOLIDS SUPPLEMENTAL REPORT

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## INSTRUCTIONS FOR COMPLETING SEWAGE SLUDGE / BIOSOLIDS SUPPLEMENTAL REPORT

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

### Biosolids Production Information

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**SUPPLEMENTAL REPORT**  
**SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL**

Facility Name: Dover Township STP  
 Municipality: Conewago Township County: York  
 Watershed: 7-F

Month: November Year: 2022  
 NPDES Permit No.: \_\_\_\_\_  
 Renewal application due **180 days** prior to expiration  
 This permit will expire on: June 30, 2022

**SEWAGE SLUDGE / BIOSOLIDS PRODUCTION INFORMATION (Identify each off-site removal event and incineration event)**

Check here if there were no off-site removal events during the month

Date	Liquid Sewage Sludge/Biosolids			Dewatered Sewage Sludge/Biosolids			Sewage Sludge/Biosolids		
	Hauled Off-site			Hauled Off-site			Dewatered and Incinerated On-site		
	Gallons	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons
10/10/22				24.32	20.77	5.05			
10/10/22				24.15	20.77	5.02			
10/19/22				23.67	20.77	4.92			
10/31/22				21.92	20.77	4.55			
10/31/22				23.64	20.77	4.91			

TOTAL:

TOTAL: **24.446**

TOTAL:

**SEWAGE SLUDGE / BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION**

(Identify all sites where biosolids or ash were disposed or land applied)

Site Name	Alan Landers	Alan Landers		
Municipality	Thompson	Thompson		
County	Fulton	Fulton		
DEP Permit No.	PA-FU-00022-0-0004	PA-FU-00022-0-0001		
Type of Material*	biosolids	biosolids		
Dry Tons Applied/Disposed	10.07	4.92		
Type of Disposal/Use*	agricultural utilization	agricultural utilization		
Hauler Name	Synagro	Synagro		

\* See Instructions for explanation.

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Prepared By: Christian L. Jordan  
 Title: Superintendent

License No.: S17213  
 Date: November 22, 2022



## INSTRUCTIONS FOR COMPLETING SEWAGE SLUDGE / BIOSOLIDS SUPPLEMENTAL REPORT

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

### Biosolids Production Information

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## INSTRUCTIONS FOR COMPLETING SEWAGE SLUDGE / BIOSOLIDS SUPPLEMENTAL REPORT

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

### Biosolids Production Information

- 2 For each off-site removal event for liquid sewage sludge or biosolids and for dewatered sewage sludge or biosolids, and for each event where dewatered sewage sludge or biosolids are incinerated on-site, list the date of the event, identify the gallons (liquid) or tons (dewatered) removed or incinerated and the percent solids (without moving the decimal point, e.g., 10, 20, etc.). Dry tons is automatically calculated. If more rows are needed to document removal or incineration events, you should insert more rows in the spreadsheet. Report only sewage sludge or biosolids that have been removed from the plant digesters and other solids which have been **permanently** removed from the treatment process. Do **not** include sewage sludge or biosolids from other facilities that are processed at your facility. (If there were no off-site removal events during the month, check the box above the table).
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## SUPPLEMENTAL REPORT SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

Facility Name: Dover Township STP  
Municipality: Conewago Township County: York  
Watershed: 7-F

Month: December Year: 2022  
NPDES Permit No.: \_\_\_\_\_  
Renewal application due 180 days prior to expiration  
This permit will expire on: June 30, 2022

### SEWAGE SLUDGE / BIOSOLIDS PRODUCTION INFORMATION (Identify each off-site removal event and incineration event)

Check here if there were no off-site removal events during the month

Date	Liquid Sewage Sludge/Biosolids			Dewatered Sewage Sludge/Biosolids			Sewage Sludge/Biosolids		
	Hauled Off-site			Hauled Off-site			Dewatered and Incinerated On-site		
	Gallons	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons	Tons Dewatered	% Solids	Dry Tons
12/6/22				23.08	20.77	4.79			
12/6/22				23.11	20.77	4.80			
12/6/22				23.61	20.77	4.90			
12/8/22				23.06	20.77	4.79			
12/12/22				23.68	20.77	4.92			
12/12/22				23.68	20.77	4.92			
12/19/22				23.69	20.77	4.92			
12/19/22				23.85	20.77	4.95			
12/21/22				22.90	20.77	4.76			

TOTAL: TOTAL: **43.754** TOTAL:

### SEWAGE SLUDGE / BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION (Identify all sites where biosolids or ash were disposed or land applied)

Site Name	Spahr Family Farms	Spahr Family Farms	Spahr Family Farms	Ken Moore
Municipality	Reading	Reading	Reading	Fawn
County	Adams	Adams	Adams	York
DEP Permit No.	PA-AD-00027-0-0008	PA-AD-00027-0-0006	PA-AD-00027-0-0007	PA-YR-00034-0-0007
Type of Material*	biosolids	biosolids	biosolids	biosolids
Dry Tons Applied/Disposed	9.56	4.80	9.60	9.70
Type of Disposal/Use*	agricultural utilization	agricultural utilization	agricultural utilization	agricultural utilization
Hauler Name	Synagro	Synagro	Synagro	Synagro

\* See Instructions for explanation.

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: Christian L. Jordan  
Title: Superintendent

License No.: S17213  
Date: January 23, 2023

## INSTRUCTIONS FOR COMPLETING SEWAGE SLUDGE / BIOSOLIDS SUPPLEMENTAL REPORT

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

### Biosolids Production Information

- 2 For each off-site removal event for liquid sewage sludge or biosolids and for dewatered sewage sludge or biosolids, and for each event where dewatered sewage sludge or biosolids are incinerated on-site, list the date of the event, identify the gallons (liquid) or tons (dewatered) removed or incinerated and the percent solids (without moving the decimal point, e.g., 10, 20, etc.). Dry tons is automatically calculated. If more rows are needed to document removal or incineration events, you should insert more rows in the spreadsheet. Report only sewage sludge or biosolids that have been removed from the plant digesters and other solids which have been **permanently** removed from the treatment process. Do **not** include sewage sludge or biosolids from other facilities that are processed at your facility. (If there were no off-site removal events during the month, check the box above the table).
- 3 The % Solids of liquid or dewatered sewage sludge or biosolids must be determined periodically through laboratory testing. Do not estimate or guess this value. An acceptable test method is method 2540B in Standard Methods for the Examination of Water and Wastewater, 18th edition, where samples are dried at 103-105°C. Other standard methods may be acceptable.

### Biosolids and Incinerator Ash Disposal and Beneficial Use Information

- 4 Report sewage sludge, biosolids and ash disposal and beneficial use information by disposal/application site. There are columns for four possible sites per month - if more sites are needed, it is suggested that you create a new worksheet to add sites (right click on worksheet tab, select Move or Copy, and copy into the same spreadsheet). For each Site Name, listed at the top of the column, enter the Municipality and County of the site, the DEP Permit No. (i.e., Biosolids permit number for land application, landfill waste management permit number, etc.), Type of Material (sewage sludge, biosolids or incinerator ash), Dry Tons Applied/Disposed at the site for the month, Type of Disposal/Use (e.g., reed beds, agricultural utilization, composting, landfill, other treatment plant, etc.) and the name of the hauler (company or individual name).
- 5 Type the name of the person who prepared the form, the person's job title, DEP License No. (if applicable), and date the form was completed after reading the certification statement.

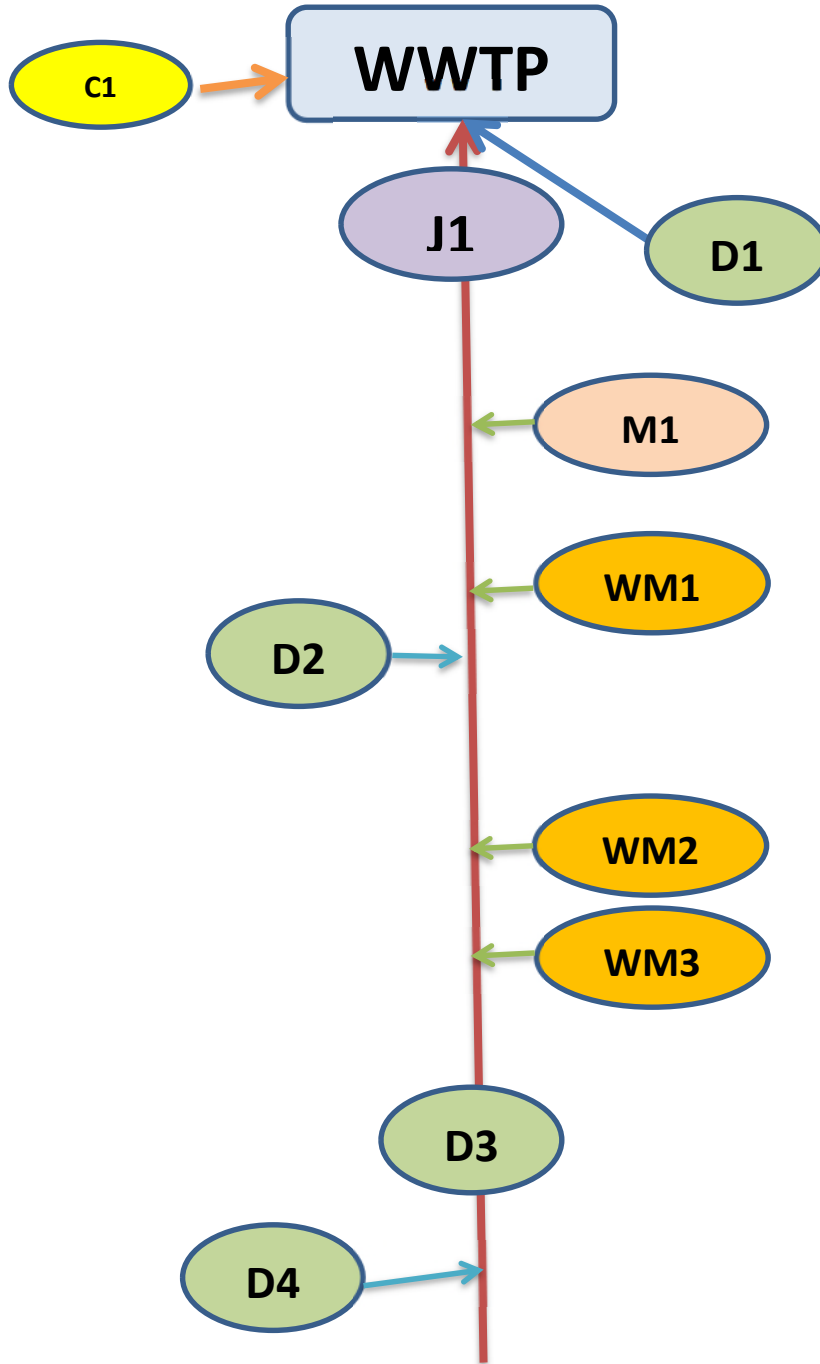
**BIOSOLIDS MONTHLY REMOVAL 2022**

2022 MONTH	BIOSOLIDS REMOVED, MONTHLY TOTAL	BIOSOLIDS REMOVED, MONTHLY TOTAL	Quarterly Removal Total	Removal Total	BIOSOLIDS TO LANDFILL	BIOSOLIDS TO LANDFILL	QUARTERLY BIOSOLIDS TO LANDFILL
	WET TONS	DRY TONS	DRY TONS	DRY METRIC TONS	WET TONS	DRY TONS	DRY METRIC
JAN	97.64	21.1			0.00	0.00	0.00
FEB	167.63	36.2					
MAR	309.37	66.9	124.2	112.7			
APR	139.84	29.2			0.00	0.00	0.00
MAY	279.00	58.3					
JUN	329.69	68.9	156.5	142.0			
JUL	140.88	29.5			0.00	0.00	0.00
AUG	142.35	29.8					
SEP	185.45	38.8	98.0	88.9			
OCT	117.70	24.5			0.00	0.00	0.00
NOV	208.45	43.3					
DEC	210.66	43.8	111.5	101.2			
TOTAL	2328.66	490.2	490.2	444.7	0.00	0.00	0.00

**TOTAL 2022 BIOSOLIDS PRODUCTIONS:** 2328.66 WET TONS  
490.2 DRY TONS  
444.7 METRIC DRY TONS



# FLOW METER SCHEMATIC





# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71038

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-001

**Description** Influent Train 2  
**Manufacturer** Siemens  
**Model Number** Mag 5000  
**Serial Number** 96W027320  
**Location** N/A  
**Building** N/A  
**Department** WWTP

**Status** Active  
**Temp °F** 70  
**Cal Proc** 4.9  
**Adjusted To Improve** No  
**Calibration Frequency** Annual  
**Calibrated** 11/18/2022  
**Next Due Date** 11/30/2023

### Calibration Specifications

<u>Test Point</u>	<u>Ref Standard</u>	<u>Tol</u>	<u>UUT As Found</u>	<u>P/F</u>	<u>UUT As Left</u>	<u>P/F</u>	<u>Dev</u>
<b>Group Name</b> Transmitter Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0
<b>Group Name</b> Insulation Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0
<b>Group Name</b> Magnetic Circuit Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0

### Calibration Standards Used

<u>Test Instrument ID</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Next Cal Date</u>
SITRANS	Siemens	MAGFLO 083F5061	100116N230	5/31/2023

Equipment listed on this cert is certified in reference to our current work instructions as part of our quality system.

Where applicable and noted calibrations were performed using standards whose calibration is traceable through NIST or another National Metrology Institute to the International System of Units (SI units).

Control Systems 21 utilizes the comparison method of calibration. Results are reviewed, when applicable, and any results exceeding the agreed upon specifications are indicated by red and/or bold print

All results with this certification relate only to the item(s) calibrated. This certificate shall not be reproduced except in full and with written consent of Control Systems 21. Unless otherwise noted all calibrations were performed in the field at the customers location.

**Please note:** any number of factors may cause the calibration item to drift out of tolerance before the calibration interval has expired.

### Remarks or Special Requirements:



# Control Systems 21

**"Your Process Control Specialists"**

## *CERTIFICATE of CALIBRATION*

Cal Certificate # 71038

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 18 November 2022 7:57:16AM



# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71039

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-002

**Description** Influent Train 1  
**Manufacturer** Siemens  
**Model Number** Mag-5000  
**Serial Number** N/A  
**Location** N/A  
**Building** N/A  
**Department** WWTP

**Status** Active  
**Temp °F** 70  
**Cal Proc** 4.9  
**Adjusted To Improve** No  
**Calibration Frequency** Annual  
**Calibrated** 11/18/2022  
**Next Due Date** 11/30/2023

### Calibration Specifications

<u>Test Point</u>	<u>Ref Standard</u>	<u>Tol</u>	<u>UUT As Found</u>	<u>P/F</u>	<u>UUT As Left</u>	<u>P/F</u>	<u>Dev</u>
<b>Group Name</b> Transmitter Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0
<b>Group Name</b> Insulation Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0
<b>Group Name</b> Magnetic Circuit Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0

### Calibration Standards Used

<u>Test Instrument ID</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Next Cal Date</u>
SITRANS	Siemens	MAGFLO 083F5061	100116N230	5/31/2023

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### Remarks or Special Requirements:



# Control Systems 21

**"Your Process Control Specialists"**

## *CERTIFICATE of CALIBRATION*

Cal Certificate # 71039

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 18 November 2022 7:33:40AM



# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71040

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-003

**Description** Return Sludge Clarifier No. 4  
**Manufacturer** ABB  
**Model Number** 50XM1000  
**Serial Number** N/A  
**Location** R.A.S.  
**Building** 1  
**Department** WWTP

**Status** Active  
**Temp °F** 70  
**Cal Proc** 4.9  
**Adjusted To Improve** No  
**Calibration Frequency** Annual  
**Calibrated** 11/18/2022  
**Next Due Date** 11/30/2023

### Calibration Specifications

<u>Test Point</u>	<u>Group Name</u>	<u>Ref Standard</u>	<u>Tol</u>	<u>UUT As Found</u>	<u>P/F</u>	<u>UUT As Left</u>	<u>P/F</u>	<u>Dev</u>
1	Flow Meter	0 GPM	+/-14.0	0.0 GPM	P	0.0 GPM	P	0.0
2		700 GPM	+/-14.0	698.0 GPM	P	698.0 GPM	P	-2.0
3		1,400 GPM	+/-14.0	1,397.0 GPM	P	1,397.0 GPM	P	-3.0

### Calibration Standards Used

<u>Test Instrument ID</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Next Cal Date</u>
COPA X	ABB	55XC4130A	9603N8184/C4	10/31/2023

Equipment listed on this cert is certified in reference to our current work instructions as part of our quality system.

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**Please note:** any number of factors may cause the calibration item to drift out of tolerance before the calibration interval has expired.

### Remarks or Special Requirements:

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 18 November 2022 9:21:44AM



# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71041

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-004

**Description** Return Sludge Clarifier No. 3  
**Manufacturer** ABB  
**Model Number** 50XM1000  
**Serial Number** 98W016731  
**Location** R.A.S.  
**Building** 1  
**Department** WWTP

**Status** Active  
**Temp °F** 70  
**Cal Proc** 4.9  
**Adjusted To Improve** No  
**Calibration Frequency** Annual  
**Calibrated** 11/18/2022  
**Next Due Date** 11/30/2023

### Calibration Specifications

<b>Group Name</b> Flow Meter		<b>Tol</b>	<b>UUT As Found</b>	<b>P/F</b>	<b>UUT As Left</b>	<b>P/F</b>	<b>Dev</b>
<b>Test Point</b>	<b>Ref Standard</b>						
1	0 GPM	+/-14.00	0.00 GPM	P	0.00 GPM	P	0.00
2	700 GPM	+/-14.00	698.00 GPM	P	698.00 GPM	P	-2.00
3	1,400 GPM	+/-14.00	1,396.00 GPM	P	1,396.00 GPM	P	-4.00

### Calibration Standards Used

<b>Test Instrument ID</b>	<b>Manufacturer</b>	<b>Model Number</b>	<b>Serial Number</b>	<b>Next Cal Date</b>
COPA X	ABB	55XC4130A	9603N8184/C4	10/31/2023

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**Please note:** any number of factors may cause the calibration item to drift out of tolerance before the calibration interval has expired.

### Remarks or Special Requirements:

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 18 November 2022 9:29:38AM



# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71042

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-005

**Description** Return Sludge Clarifier No. 5  
**Manufacturer** ABB  
**Model Number** 50XM1000  
**Serial Number** 96W027393  
**Location** R.A.S.  
**Building** 2  
**Department** WWTP

**Status** Active  
**Temp °F** 70  
**Cal Proc** 4.9  
**Adjusted To Improve** No  
**Calibration Frequency** Annual  
**Calibrated** 11/18/2022  
**Next Due Date** 11/30/2023

### Calibration Specifications

<b>Group Name</b> Flow Meter		<b>Tol</b>	<b>UUT As Found</b>	<b>P/F</b>	<b>UUT As Left</b>	<b>P/F</b>	<b>Dev</b>
<b>Test Point</b>	<b>Ref Standard</b>						
1	0 GPM	+/-16.00	0.00 GPM	P	0.00 GPM	P	0.00
2	800 GPM	+/-16.00	803.00 GPM	P	803.00 GPM	P	3.00
3	1,600 GPM	+/-16.00	1,601.00 GPM	P	1,601.00 GPM	P	1.00

### Calibration Standards Used

<b>Test Instrument ID</b>	<b>Manufacturer</b>	<b>Model Number</b>	<b>Serial Number</b>	<b>Next Cal Date</b>
COPA X	ABB	55XC4130A	9603N8184/C4	10/31/2023

Equipment listed on this cert is certified in reference to our current work instructions as part of our quality system.

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**Please note:** any number of factors may cause the calibration item to drift out of tolerance before the calibration interval has expired.

### Remarks or Special Requirements:

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 18 November 2022 12:08:57PM





# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71043

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-006

**Description** Return Sludge Clarifier No. 6  
**Manufacturer** ABB  
**Model Number** 50XM1000  
**Serial Number** 96W027394  
**Location** R.A.S.  
**Building** 2  
**Department** WWTP

**Status** Active  
**Temp °F** 70  
**Cal Proc** 4.9  
**Adjusted To Improve** No  
**Calibration Frequency** Annual  
**Calibrated** 11/18/2022  
**Next Due Date** 11/30/2023

### Calibration Specifications

Test Point	Group Name	Ref Standard	Tol	UUT As Found	P/F	UUT As Left	P/F	Dev
1	Flow Meter	0 GPM	+/-16.00	0.00 GPM	P	0.00 GPM	P	0.00
2		800 GPM	+/-16.00	808.20 GPM	P	808.20 GPM	P	8.20
3		1,600 GPM	+/-16.00	1,597.00 GPM	P	1,597.00 GPM	P	-3.00

### Calibration Standards Used

Test Instrument ID	Manufacturer	Model Number	Serial Number	Next Cal Date
COPA X	ABB	55XC4130A	9603N8184/C4	10/31/2023

Equipment listed on this cert is certified in reference to our current work instructions as part of our quality system.

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Control Systems 21 utilizes the comparison method of calibration. Results are reviewed, when applicable, and any results exceeding the agreed upon specifications are indicated by red and/or bold print

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**Please note:** any number of factors may cause the calibration item to drift out of tolerance before the calibration interval has expired.

### Remarks or Special Requirements:

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 18 November 2022 11:55:40AM



# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71044

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-011

**Description** Effluent Flow  
**Manufacturer** Pulsar  
**Model Number** OCM  
**Serial Number** 1701110000XP-X0P  
**Location** UV Building  
**Building** N/A  
**Department** WWTP

**Status** Active  
**Temp °F** 70  
**Cal Proc** 4.8  
**Adjusted To Improve** No  
**Calibration Frequency** Annual  
**Calibrated** 11/18/2022  
**Next Due Date** 11/30/2023

### Calibration Specifications

**Group Name** Flow Meter

<u>Test Point</u>	<u>Ref Standard</u>	<u>Tol</u>	<u>UUT As Found</u>	<u>P/F</u>	<u>UUT As Left</u>	<u>P/F</u>	<u>Dev</u>
1	7.280 Inches	+/-0.125	7.375 Inches	P	7.375 Inches	P	0.095

### Calibration Standards Used

<u>Test Instrument ID</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Next Cal Date</u>
TAPE MEASURE	N/A	N/A	N/A	

*Equipment listed on this cert is certified in reference to our current work instructions as part of our quality system.*

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*Control Systems 21 utilizes the comparison method of calibration. Results are reviewed, when applicable, and any results exceeding the agreed upon specifications are indicated by red and/or bold print*

*All results with this certification relate only to the item(s) calibrated. This certificate shall not be reproduced except in full and with written consent of Control Systems 21. Unless otherwise noted all calibrations were performed in the field at the customers location.*

**Please note:** any number of factors may cause the calibration item to drift out of tolerance before the calibration interval has expired.

### Remarks or Special Requirements:

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 18 November 2022 1:06:05PM



# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71045

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-012

**Description** Drexelbrook Level Meter (6000 Gallon Tank)

**Status** Active

**Manufacturer** Drexel Brook

**Temp °F** 70

**Model Number** N/A

**Cal Proc** 4.9

**Serial Number** N/A

**Adjusted To Improve** No

**Location** N/A

**Calibration Frequency** Annual

**Building** Ferric Chloride Building

**Calibrated** 11/18/2022

**Department** WWTP

**Next Due Date** 11/30/2023

### Calibration Specifications

Test Point	Group Name	Level Meter	Ref Standard	Expected	Tol	UUT As Found	P/F	UUT As Left	P/F	Dev
1			0 FT	0.00 %	+/-2.00	0.30 %	P	0.30 %	P	0.30
2			7 FT	50.00 %	+/-2.00	50.90 %	P	50.90 %	P	0.90
3			14 FT	100.00 %	+/-2.00	101.30 %	P	101.30 %	P	1.30

### Calibration Standards Used

Test Instrument ID	Manufacturer	Model Number	Serial Number	Next Cal Date
161	Fluke	79 III	74330730	3/31/2023

Equipment listed on this cert is certified in reference to our current work instructions as part of our quality system.

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Control Systems 21 utilizes the comparison method of calibration. Results are reviewed, when applicable, and any results exceeding the agreed upon specifications are indicated by red and/or bold print

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**Please note:** any number of factors may cause the calibration item to drift out of tolerance before the calibration interval has expired.

### Remarks or Special Requirements:

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 20 November 2022 11:24:01PM



# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71046

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-013

**Description** Sludge Transfer  
**Manufacturer** ABB  
**Model Number** N/A  
**Serial Number** N/A  
**Location** R.A.S.  
**Building** 2  
**Department** WWTP

**Status** Active  
**Temp °F** 70  
**Cal Proc** 4.9  
**Adjusted To Improve** No  
**Calibration Frequency** Annual  
**Calibrated** 11/18/2022  
**Next Due Date** 11/30/2023

### Calibration Specifications

Test Point	Group Name	Ref Standard	Tol	UUT As Found	P/F	UUT As Left	P/F	Dev
1	Flow Meter	0 GPM	+/-3.0	0.0 GPM	P	0.0 GPM	P	0.0
2		150 GPM	+/-3.0	152.0 GPM	P	152.0 GPM	P	2.0
3		300 GPM	+/-3.0	300.0 GPM	P	300.0 GPM	P	0.0

### Calibration Standards Used

Test Instrument ID	Manufacturer	Model Number	Serial Number	Next Cal Date
COPA X	ABB	55XC4130A	9603N8184/C4	10/31/2023

Equipment listed on this cert is certified in reference to our current work instructions as part of our quality system.

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**Please note:** any number of factors may cause the calibration item to drift out of tolerance before the calibration interval has expired.

### Remarks or Special Requirements:

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 18 November 2022 11:45:54AM



# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71047

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-014

**Description** WAS Train 1  
**Manufacturer** Siemens  
**Model Number** Mag5000  
**Serial Number** 7ME6910-1AA10-1AA0  
**Location** N/A  
**Building** Grit  
**Department** WWTP

**Status** Active  
**Temp °F** 70  
**Cal Proc** 4.9  
**Adjusted To Improve** No  
**Calibration Frequency** Annual  
**Calibrated** 11/18/2022  
**Next Due Date** 11/30/2023

### Calibration Specifications

<b>Group Name</b> Transmitter Test (1=PASS, 0=FAIL)							
<u>Test Point</u>	<u>Ref Standard</u>	<u>Tol</u>	<u>UUT As Found</u>	<u>P/F</u>	<u>UUT As Left</u>	<u>P/F</u>	<u>Dev</u>
1	1.00 PASS/FAIL	+/-0.00	1.00 PASS/FAIL	P	1.00 PASS/FAIL	P	0.00

<b>Group Name</b> Insulation Test (1=PASS, 0=FAIL)							
<u>Test Point</u>	<u>Ref Standard</u>	<u>Tol</u>	<u>UUT As Found</u>	<u>P/F</u>	<u>UUT As Left</u>	<u>P/F</u>	<u>Dev</u>
1	1.00 PASS/FAIL	+/-0.00	1.00 PASS/FAIL	P	1.00 PASS/FAIL	P	0.00

<b>Group Name</b> Magnetic Circuit Test (1=PASS, 0=FAIL)							
<u>Test Point</u>	<u>Ref Standard</u>	<u>Tol</u>	<u>UUT As Found</u>	<u>P/F</u>	<u>UUT As Left</u>	<u>P/F</u>	<u>Dev</u>
1	1.00 PASS/FAIL	+/-0.00	1.00 PASS/FAIL	P	1.00 PASS/FAIL	P	0.00

### Calibration Standards Used

<u>Test Instrument ID</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Next Cal Date</u>
SITRANS	Siemens	MAGFLO 083F5061	100116N230	5/31/2023

Equipment listed on this cert is certified in reference to our current work instructions as part of our quality system.

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**Please note:** any number of factors may cause the calibration item to drift out of tolerance before the calibration interval has expired.

### Remarks or Special Requirements:



# Control Systems 21

**"Your Process Control Specialists"**

## *CERTIFICATE of CALIBRATION*

Cal Certificate # 71047

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 18 November 2022 12:42:50PM



# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71048

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-015

**Description** Clarifier 7 RAS  
**Manufacturer** Siemens  
**Model Number** Mag5000  
**Serial Number** 7ME6910  
**Location** Basement  
**Building** Utility Water Pump Room  
**Department** WWTP

**Status** Active  
**Temp °F** 70  
**Cal Proc** 4.9  
**Adjusted To Improve** No  
**Calibration Frequency** Annual  
**Calibrated** 11/18/2022  
**Next Due Date** 11/30/2023

### Calibration Specifications

<u>Test Point</u>	<u>Ref Standard</u>	<u>Tol</u>	<u>UUT As Found</u>	<u>P/F</u>	<u>UUT As Left</u>	<u>P/F</u>	<u>Dev</u>
<b>Group Name</b> Transmitter Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0
<b>Group Name</b> Insulation Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0
<b>Group Name</b> Magnetic Circuit Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0

### Calibration Standards Used

<u>Test Instrument ID</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Next Cal Date</u>
SITRANS	Siemens	MAGFLO 083F5061	100116N230	5/31/2023

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### Remarks or Special Requirements:



# Control Systems 21

**"Your Process Control Specialists"**

## *CERTIFICATE of CALIBRATION*

Cal Certificate # 71048

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 18 November 2022 9:06:41AM





# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71049

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-017

**Description** Utility Water Flow  
**Manufacturer** Siemens  
**Model Number** Mag5000  
**Serial Number**

**Location** Basement  
**Building** Utility Water Pump Room  
**Department** WWTP

**Status** Active  
**Temp °F** 70  
**Cal Proc** 4.9  
**Adjusted To Improve** No  
**Calibration Frequency** Annual  
**Calibrated** 11/18/2022  
**Next Due Date** 11/30/2023

### Calibration Specifications

<u>Test Point</u>	<u>Ref Standard</u>	<u>Tol</u>	<u>UUT As Found</u>	<u>P/F</u>	<u>UUT As Left</u>	<u>P/F</u>	<u>Dev</u>
<b>Group Name</b> Transmitter Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0
<b>Group Name</b> Insulation Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0
<b>Group Name</b> Magnetic Circuit Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0

### Calibration Standards Used

<u>Test Instrument ID</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Next Cal Date</u>
SITRANS	Siemens	MAGFLO 083F5061	100116N230	5/31/2023

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### Remarks or Special Requirements:



# Control Systems 21

**"Your Process Control Specialists"**

## *CERTIFICATE of CALIBRATION*

Cal Certificate # 71049

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 18 November 2022 9:07:15AM



# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71050

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-018

**Description** W.A.S. Train 2  
**Manufacturer** Siemens  
**Model Number** Mag5000  
**Serial Number** N1N9070154  
**Location** R.A.S.  
**Building** 2  
**Department** WWTP

**Status** Active  
**Temp °F** 70  
**Cal Proc** 4.9  
**Adjusted To Improve** No  
**Calibration Frequency** Annual  
**Calibrated** 11/18/2022  
**Next Due Date** 11/30/2023

### Calibration Specifications

<u>Test Point</u>	<u>Ref Standard</u>	<u>Tol</u>	<u>UUT As Found</u>	<u>P/F</u>	<u>UUT As Left</u>	<u>P/F</u>	<u>Dev</u>
<b>Group Name</b> Transmitter Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0.0	1.0 PASS/FAIL	P	1.0 PASS/FAIL	P	0.0
<b>Group Name</b> Insulation Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0
<b>Group Name</b> Magnetic Circuit Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0

### Calibration Standards Used

<u>Test Instrument ID</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Next Cal Date</u>
SITRANS	Siemens	MAGFLO 083F5061	100116N230	5/31/2023

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### Remarks or Special Requirements:



# Control Systems 21

**"Your Process Control Specialists"**

## *CERTIFICATE of CALIBRATION*

Cal Certificate # 71050

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 18 November 2022 11:56:15AM



# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71051

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-112

**Description** Dewater #1  
**Manufacturer** Siemens  
**Model Number** Mag5000  
**Serial Number** N1M7020094  
**Location** N/A  
**Building** Grit  
**Department** WWTP

**Status** Active  
**Temp °F** 70  
**Cal Proc** 4.9  
**Adjusted To Improve** No  
**Calibration Frequency** Annual  
**Calibrated** 11/18/2022  
**Next Due Date** 11/30/2023

### Calibration Specifications

<u>Test Point</u>	<u>Ref Standard</u>	<u>Tol</u>	<u>UUT As Found</u>	<u>P/F</u>	<u>UUT As Left</u>	<u>P/F</u>	<u>Dev</u>
<b>Group Name</b> Transmitter Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0
<b>Group Name</b> Insulation Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0
<b>Group Name</b> Magnetic Circuit Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0

### Calibration Standards Used

<u>Test Instrument ID</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Next Cal Date</u>
SITRANS	Siemens	MAGFLO 083F5061	100116N230	5/31/2023

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### Remarks or Special Requirements:



# Control Systems 21

**"Your Process Control Specialists"**

## *CERTIFICATE of CALIBRATION*

Cal Certificate # 71051

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 18 November 2022 10:36:41AM



# Control Systems 21

"Your Process Control Specialists"

## CERTIFICATE of CALIBRATION

Cal Certificate # 71052

**Company Name** Dover Township WWTP  
2480 West Canal Road  
Dover, PA 17315

**Instrument ID** D-223

**Description** Dewater #2  
**Manufacturer** Siemens  
**Model Number** Mag5000  
**Serial Number** N1M7020066  
**Location** N/A  
**Building** Grit  
**Department** WWTP

**Status** Active  
**Temp °F** 70  
**Cal Proc** 4.9  
**Adjusted To Improve** No  
**Calibration Frequency** Annual  
**Calibrated** 11/18/2022  
**Next Due Date** 11/30/2023

### Calibration Specifications

<u>Test Point</u>	<u>Ref Standard</u>	<u>Tol</u>	<u>UUT As Found</u>	<u>P/F</u>	<u>UUT As Left</u>	<u>P/F</u>	<u>Dev</u>
<b>Group Name</b> Transmitter Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0
<b>Group Name</b> Insulation Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0
<b>Group Name</b> Magnetic Circuit Test (1=PASS, 0=FAIL)							
1	1 PASS/FAIL	+/-0	1 PASS/FAIL	P	1 PASS/FAIL	P	0

### Calibration Standards Used

<u>Test Instrument ID</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Next Cal Date</u>
SITRANS	Siemens	MAGFLO 083F5061	100116N230	5/31/2023

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### Remarks or Special Requirements:



# Control Systems 21

**"Your Process Control Specialists"**

## *CERTIFICATE of CALIBRATION*

Cal Certificate # 71052

Calibration Result: Calibration Successful

Calibrated By: Jon Wirth

Finalized By: Jon Wirth 18 November 2022 10:37:11AM





## Dover Township Flow Metering

2022, 1st Quarter

Manhole	New Serial Number	Pipe Diameter (in)	Date	Time	Field Measurement	Meter Readings			Data Assessment
					Level (in)	Level (in)	Velocity(fps)	Battery(volts)	Δ Level (in)
C-1	161000002261	8	3/16/2022	2:20 PM	3.00	2.86	1.18	11.2	-0.14
J-1	161000002258	60	3/14/2022	2:15 PM	9.00	9.10	2.62	11.1	0.10
M-1	161000002257	16	3/16/2022	1:40 PM	6.75	6.69	1.64	10.5	-0.06
WM-1	161000002262	8	3/16/2022	3:10 PM	1.00	0.99	1.63	11.1	-0.01
WM-2	161000002263	10	3/16/2022	10:00 AM	3.50	3.51	3.31	11.0	0.01
WM-3	161000002265	21	3/16/2022	10:50 AM	8.85	8.78	2.42	11.0	-0.07
D-1	161000002260	30	3/14/2022	12:55 PM	9.75	9.78	2.28	11.4	0.03
D-2	161000002264	12	3/16/2022	12:40 PM	4.00	3.79	4.08	11.1	-0.21
D-3	161000002266	30	3/16/2022	11:45 AM	4.85	4.85	2.32	10.6	0.00
D-4	161000002253	21	3/18/2022	10:25 AM	4.88	4.80	1.69	11.5	-0.08

Meter data indicates acceptable values that are within manufacturer's calibration limits.

NOTES\*

New Sensor Module replaced on WM-2 due to velocity data read problems. Recalibrated as part of maintenance.



## Dover Township Flow Metering

2022, 2nd Quarter

Manhole	New Serial Number	Pipe Diameter (in)	Date	Time	Field Measurement	Meter Readings			Data Assessment
					Level (in)	Level (in)	Velocity(fps)	Battery(volts)	Δ Level (in)
C-1	161000002261	8	6/15/2022	8:45 AM	2.00	2.24	0.74	10.6	0.24
J-1	161000002258	60	6/20/2022	3:00 PM	8.05	8.24	2.00	10.9	0.19
M-1	161000002257	16	6/15/2022	10:45 AM	5.75	5.60	1.44	12.9	-0.15
WM-1	161000002262	8	6/15/2022	9:30 AM	1.00	1.04	1.23	10.4	0.04
WM-2	161000002263	10	6/20/2022	4:00 PM	2.25	2.26	1.89	10.6	0.01
WM-3	161000002265	21	6/24/2022	9:20 AM	7.00	6.95	2.14	10.9	-0.05
D-1	161000002260	30	6/24/2022	10:50 AM	7.85	7.70	1.75	11.0	-0.15
D-2	161000002264	12	6/15/2022	12:05 PM	3.50	3.48	3.93	13.1	-0.02
D-3	161000002266	30	6/15/2022	1:20 PM	4.00	3.95	1.75	13.1	-0.05
D-4	161000002253	21	6/24/2022	8:55 AM	4.00	4.00	1.78	10.7	0.00

Meter data indicates acceptable values that are within manufacturer's calibration limits.

### NOTES\*

Sensor desiccants were inspected and were changed as needed.



## Dover Township Flow Metering

2022, 3rd Quarter

Manhole	New Serial Number	Pipe Diameter (in)	Date	Time	Field Measurement		Meter Readings			Data Assessment
					Level (in)	Level (in)	Velocity(fps)	Battery(volts)	Δ Level (in)	
C-1	161000002261	8	9/27/2022	10:10 AM	1.75	1.73	0.79	11.8	-0.02	
J-1	161000002258	60	9/27/2022	11:20 AM	7.85	7.76	1.65	12.36	-0.09	
M-1	161000002257	16	9/27/2022	12:35 PM	5.50	5.51	1.33	11.6	0.01	
WM-1	161000002262	8	9/27/2022	1:50 PM	1.50	1.56	2.18	11.8	0.06	
WM-2	161000002263	10	9/28/2022	9:10 AM	2.00	2.04	1.31	12.0	0.04	
WM-3	161000002265	21	9/28/2022	9:50 AM	5.40	5.45	1.59	11.8	0.05	
D-1	161000002260	30	9/7/2022	10:15 AM	8.00	7.97	1.59	13.2	-0.03	
D-2	161000002264	12								
D-3	161000002266	30	9/28/2022	10:40 AM	3.50	3.45	1.67	11.9	-0.05	
D-4	161000002253	21	9/27/2022	3:05 PM	3.65	3.78	1.97	12.9	0.13	

Meter data indicates acceptable values that are within manufacturer's calibration limits.

**NOTES\***

D2 Flow meter is no longer in service



Digitally signed by Matthew R. Wilkins  
 DN: cn=Matthew R. Wilkins, email=Matthew.R.Wilkins@dovertownship.com,  
 c=Dover Township, cn=Matthew R. Wilkins  
 Date: 2022.10.04 07:16:59-0400



**Dover Township Flow Metering**  
2022, 4th Quarter

Manhole	New Serial Number	Pipe Diameter (in)	Date	Time	Field Measurement	Meter Readings			Data Assessment
					Level (in)	Level (in)	Velocity(fps)	Battery(volts)	Δ Level (in)
C-1	161000002261	8	12/8/2022	12:45 PM	2.00	1.98	0.93	11.4	-0.02
J-1	161000002258	60	12/8/2022	8:50 AM	7.25	7.34	2.12	11.7	0.09
M-1	161000002257	16	12/8/2022	12:10 PM	3.75	3.80	1.97	11.1	0.05
WM-1	161000002262	8	12/8/2022	1:30 PM	1.50	1.43	1.51	11.4	-0.07
WM-2	161000002263	10	12/8/2022	10:45 AM	2.60	2.73	3.44	11.4	0.13
WM-3	161000002265	21	12/8/2022	10:25 AM	7.00	7.03	2.04	11.4	0.03
D-1	161000002260	30	12/8/2022	8:15 AM	7.40	7.55	1.84	11.9	0.15
D-2	161000002264	12							
D-3	161000002266	30	12/8/2022	9:40 AM	3.30	3.22	1.91	11.1	-0.08
D-4	161000002253	21	12/8/2022	11:30 AM	4.80	4.90	1.75	11.7	0.10

Meter data indicates acceptable values that are within manufacturer's calibration limits.

NOTES\*

D2 Flow meter is no longer in service



2022 Chapter 94

Municipal Wasteload Management Report

For the:

Conewago Township Sewer Authority

Conewago Township, York County

A Tributary to Dover Township WWTP

Date: March 2023





## CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: **2022**

- Permittee is owner and/or operator of a POTW or other sewage treatment facility  
 Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee

GENERAL INFORMATION	
Permittee Name: <b>Conewago Twp. Sewer Authority</b>	Permit No.: <b>PA</b>
Mailing Address: <b>600 Locust Point Road</b>	Effective Date:
City, State, Zip: <b>York</b>	Expiration Date:
Contact Person: <b>Lisa Bortner</b>	Renewal Due Date:
Title: <b>Administrator</b>	Municipality: <b>Conewago Twp.</b>
Phone: <b>(717) 266-5518</b>	County: <b>York</b>
Email: <b>lbortner.ctsa@gmail.com</b>	Consultant Name: <b>Buchart Horn Inc.</b>
CHAPTER 94 REPORT COMPONENTS	
<p>1. Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. (<u>25 Pa. Code § 94.12(a)(1)</u>)</p> <p><b>Check the appropriate boxes:</b></p> <p><input type="checkbox"/> Line graph for flows attached (<b>Attachment</b> )</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (<b>Attachment</b> )</p> <p><input checked="" type="checkbox"/> Section 1 is not applicable (report is for a collection system).</p>	
<p>2. Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. (<u>25 Pa. Code § 94.12(a)(2)</u>)</p> <p><b>Check the appropriate boxes:</b></p> <p><input type="checkbox"/> Line graph for organic loads attached (<b>Attachment</b> )</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (<b>Attachment</b> )</p> <p><input checked="" type="checkbox"/> Section 2 is not applicable (report is for a collection system).</p>	
<p>3. If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. (<u>25 Pa. Code § 94.12(a)(3)</u>)</p> <p><b>N/A</b></p>	

4. Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))

**Check the appropriate boxes:**

- Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (**Attachment A**)
- List summarizing each extension or project attached (**Attachment B**)
- Schedules describing how each project will be completed over time and effects attached (**Attachment B**)

**Comments:**

**There are no significant sewer extension projects planned for Conewago Township Sewer Authority. The only additional sewer that will be installed will be as a part of a subdivision that is planned within the next five years.**

5. Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))

**See Attachment C**

6. Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))

**Check the appropriate boxes:**

- System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event.
- System did not experience capacity-related bypassing, SSOs or surcharging during the report year.

**Comments:**

**See Attachment C**

7. Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum pumping rate with present maximum flows and the projected 2-year maximum flows for each station. (25 Pa. Code § 94.12(a)(7))

**Check the appropriate boxes:**

- The collection system does not contain pump stations  
 The collection system does contain pump stations (Number – )  
 Discussion of condition of each pump station attached (**Attachment** )

8. If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information listed below. (25 Pa. Code § 94.12(a)(8))

- a. A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted.
- b. A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year.
- c. A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant or in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describe pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers.

**Check the appropriate boxes:**

- Industrial waste report as described in 8 a., b. and c. attached (**Attachment** )  
 Industrial pretreatment report as required in an NPDES permit attached (**Attachment** )

9. Existing or Projected Overload.

**Check the appropriate boxes:**

- This report demonstrates an existing hydraulic overload condition.  
 This report demonstrates a projected hydraulic overload condition.  
 This report demonstrates an existing organic overload condition.  
 This report demonstrates a projected organic overload condition.

If one or more boxes above have been checked, attach a Corrective Action Plan (CAP) to reduce or eliminate present or projected overloaded conditions under §§ 94.21 and/or 94.22 (relating to existing overload and projected overload). (25 Pa. Code § 94.12(a)(9))

- Corrective Action Plan attached (**Attachment** )

10. Where required by the NPDES permit, attach a Sewage Sludge Management inventory that demonstrates a mass balance of solids coming in and leaving the facility over the previous calendar year.

- Sewage Sludge Management Inventory attached (**Attachment** )



11. For facilities with CSOs and where required by the NPDES permit, attach an Annual CSO Report (including satellite combined sewer systems).

Annual CSO Report attached (**Attachment** )

12. For POTWs, attach a calibration report documenting that flow measuring, indicating and recording equipment has been calibrated annually. (25 Pa. Code § 94.13(b))

Flow calibration report attached (**Attachment** )

### RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

**Dale Knepper**

Name of Responsible Official

**(717) 266-5518**

Telephone No.



Signature

**02/28/2023**

Date

### PREPARER CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

**Matthew Todaro, P.E.**

Name of Preparer

**(717) 852-1345**

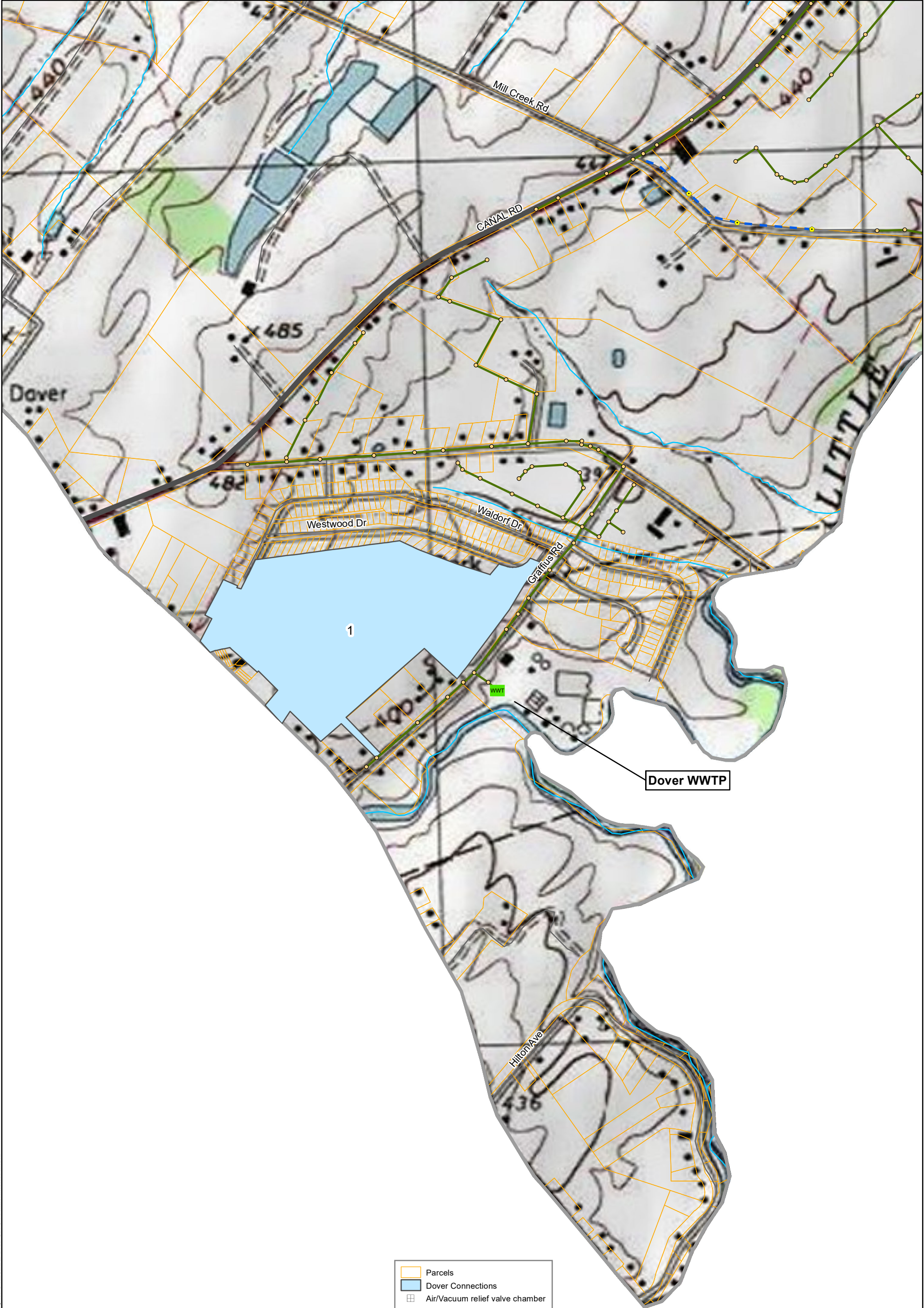
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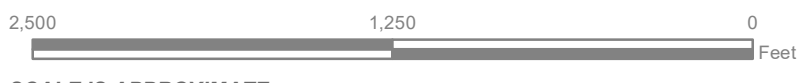
Signature

**02/28/2023**

Date



- Parcels
- Dover Connections
- Air/Vacuum relief valve chamber
- Cap
- Cleanout
- Manhole
- Pump Station
- WWTP
- Gravity Main
- Low Pressure
- Force Main
- Municipal Boundary
- Major Road
- Local Road
- Stream



SCALE IS APPROXIMATE

**Conewago Township Sewer Authority**  
 York County, Pennsylvania  
**Proposed Connections Map**  
**Attachment A**



### Attachment B

In 2022, there were no significant sewer extension projects. Conewago Township Sewer Authority (CTSA) did not install any new sewer lines and there were no developers that installed any sanitary sewer lines.

Table B1 shows a summary of proposed and accepted projects that will require the construction of sanitary sewer lines along with their projected flows and projected date of construction.

Subdivision Name	Approximate Population to be Served/Proposed Flow	Proposed Year of Construction
Fox Run	129 edus	2024-2025

**Table B1: Future Sanitary Sewer Projects**

## Attachment C

### A. Description of System

The Conewago Township Sewer Authority (CTSA) owns and maintains 9,620 LF of gravity sewer tributary to the Dover Township Wastewater Treatment Plant. At year-end 2022, a total of 301 EDUs flowed through this system. Of the 301 EDUs, 78 of the EDUs flow through the private, unmetered, sewer lines that enter directly into the Dover Township Wastewater Treatment Plant and 54 of the EDUs flow through Dover Township sewer mains in order to reach the plant. The remainder of the EDUs flow through sewer mains that are owned and operated by Conewago Township Sewer Authority.

### B. Condition of Collection System

All Conewago owned sewers tributary to the Dover WWTP are less than twenty years old and are in excellent condition. However, there are two mobile home parks with older systems which are tributary to the Dover Plant. The condition of these privately owned sewer lines is questionable. The Authority has adopted Resolution 1999-1 which sets forth procedures for the evaluation of inflow/infiltration into its collection system and calls out alternative billing which will be imposed if the problems are not addressed.

### C. Monitoring

The majority of the flow from Conewago Township to Dover Township's WWTP is monitored using a Hach FL901 Flow Meter located at Dover Township's WWTP. The flow data from 2022 is shown in Table C1 below. The remainder of the flow, specifically from a portion of one of the mobile home parks, is unmetered and the flows are estimated at 300 GPD/EDU. This flow however does not contribute a significant amount to the overall flow at Dover Township's plant.

Month	Average Daily Flow (MGD)	Max. Daily Flow (MGD)	Total Flow (MG)
January	0.088	0.1494	2.718
February	0.099	0.2129	2.774
March	0.090	0.1315	2.777
April	0.095	0.2969	2.847
May	0.086	0.5632	2.677
June	0.069	0.0886	2.067
July	0.077	0.0853	2.380
August	0.078	0.0913	2.428
September	0.072	0.1057	2.146
October	0.107	0.1765	3.325
November	0.113	0.1458	3.393
December	0.096	0.2558	2.990
Average	0.089	0.1919	2.710
Total			32.521

Table C1: CTSA Flow Data

### D. Maintenance, Repair and Rehabilitation

Maintenance of the Conewago Township Sewer System and Wastewater Treatment Plant is carried out by the contract operator - ARRO Consulting. Preventative maintenance, in the form of cleaning and televising, is scoped out and put out to bid.

Repairs and rehabilitation of the Conewago Township Sewer System are done on either an emergency or as need basis. CTSA has an on-call contract with a local contractor for their emergency repairs. In the event of a significant and timely repair needing done (i.e. broken pipe, busted manhole bolts, etc.), CTSA will authorize this contractor to go out and make the repair in order to maintain service as well as prevent significant environmental impact.

**E. Industrial Waste**

No industrial waste flows are tributary to Dover’s Wastewater Treatment Plant from Conewago Township.

**F. Available Capacity**

At year end of 2022, the Conewago Township Sewer Authority held a total of 129 EDUs.

**G. Projected Connections to Dover WWTF**

Subdivision	Reserved EDU's	Projected EDU's				
		2023	2024	2025	2026	2027
Fox Run Subdivision	129	0	40	40	40	9
<b>Total</b>	<b>129</b>	<b>0</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>9</b>



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

**INTERCEPTOR AND COLLECTOR SYSTEM  
TRIBUTARY TO  
DOVER TOWNSHIP WASTEWATER TREATMENT FACILITY**

**2022 ANNUAL MUNICIPAL WASTELOAD MANAGEMENT  
(CHAPTER 94) REPORT  
TO  
THE PENNSYLVANIA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION**

**For:  
MANCHESTER TOWNSHIP  
3200 FARMTRAIL ROAD  
YORK, PA 17406**

March 10, 2023

**Engineer's Project No. 0841.6.00.27**

**PREPARED BY:**



Consulting Civil Engineers  
38 North Duke Street  
York, PA 17401

Phone: (717) 846-4805  
Fax: (717) 846-5811  
[www.csdavidson.com](http://www.csdavidson.com)

# Table of Contents

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Exhibit MT	Chapter 94 Municipal Wasteload Management Annual Report
Attachment MT-1	Tabulation of Available Sewer Reserve Capacity
Attachment MT-2	Proposed Projects – 2022 Annual Wasteload Management Report
Attachment MT-3	Projected Connection to Existing Dover Township Advanced Wastewater Treatment Facility (DTAWWTF)
Attachment MT-4	Manchester Township Sanitary Sewer System Maintenance Program 2022
Attachment MT-5	Manchester Township System Conditions Computation of Peaking Factor (Exhibit MT-A)
Attachment MT-6	Pump Station Conditions





## CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

Exhibit MT  
March 10, 2023

**For Calendar Year: 2022**  
**for Dover Township Wastewater Treatment Facility**

- Permittee is owner and/or operator of a POTW or other sewage treatment facility  
 Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee

GENERAL INFORMATION			
Permittee Name:	Manchester Township	Permit No.:	PA0020826
Mailing Address:	3200 Farmtrail Road	Effective Date:	
City, State, Zip:	York, PA 17106	Expiration Date:	
Contact Person:	Tim James	Renewal Due Date:	
Title:	Manager	Municipality:	Manchester Township
Phone:	(717) 764-4646	County:	York
Email:	t.james@mantwp.com	Consultant Name:	C.S. Davidson, Inc.
CHAPTER 94 REPORT COMPONENTS			
<p>1. Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. (25 Pa. Code § 94.12(a)(1))</p> <p><b>Check the appropriate boxes:</b></p> <p><input type="checkbox"/> Line graph for flows attached (<b>Attachment</b> )</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (<b>Attachment</b> )</p> <p><input checked="" type="checkbox"/> Section 1 is not applicable (report is for a collection system).</p>			
<p>2. Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. (25 Pa. Code § 94.12(a)(2))</p> <p><b>Check the appropriate boxes:</b></p> <p><input type="checkbox"/> Line graph for organic loads attached (<b>Attachment</b> )</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (<b>Attachment</b> )</p> <p><input checked="" type="checkbox"/> Section 2 is not applicable (report is for a collection system).</p>			
<p>3. If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. (25 Pa. Code § 94.12(a)(3))</p> <p><b>Five year flow projections attached – see Attachment MT-1</b></p>			

4. Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))

**Check the appropriate boxes:**

- Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (**Attachment MT-2**)
- List summarizing each extension or project attached (**Attachment MT-3**)
- Schedules describing how each project will be completed over time and effects attached (**Attachment** )

**Comments:**

**No pipelines have existing or projected hydraulic overloads.**

5. Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))

**See Attachment MT-4**

6. Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))

**Check the appropriate boxes:**

- System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event.
- System did not experience capacity-related bypassing, SSOs or surcharging during the report year.

**Comments:**

**See Attachment MT-5**

7. Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum pumping rate with present maximum flows and the projected 2-year maximum flows for each station. (25 Pa. Code § 94.12(a)(7))

**Check the appropriate boxes:**

- The collection system does not contain pump stations  
 The collection system does contain pump stations (Number – 3)  
 Discussion of condition of each pump station attached (**Attachment MT-6**)

8. If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information listed below. (25 Pa. Code § 94.12(a)(8))

- a. A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted.
- b. A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year.
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**Check the appropriate boxes:**

- Industrial waste report as described in 8 a., b. and c. attached (**Attachment** )  
 Industrial pretreatment report as required in an NPDES permit attached (**Attachment** )

9. Existing or Projected Overload.

**Check the appropriate boxes:**

- This report demonstrates an existing hydraulic overload condition.  
 This report demonstrates a projected hydraulic overload condition.  
 This report demonstrates an existing organic overload condition.  
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Flow calibration report attached (**Attachment** )

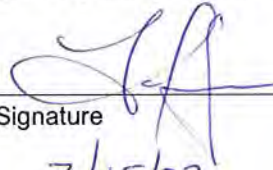
### RESPONSIBLE OFFICIAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Tim James

Name of Responsible Official

Signature



717-764-4646

Telephone No.

Date

3/15/23

### PREPARER CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Christopher W. Toms, P.E.

Name of Preparer

Signature



(717) 846-4805

Telephone No.

03/15/2023

Date

TABULATION OF AVAILABLE  
 SEWER RESERVE CAPACITY  
 (BASED UPON FIVE-YEAR AVERAGE DAILY FLOWS)

COLLECTION AND TRANSPORTATION SYSTEM  
 From: Manchester Township

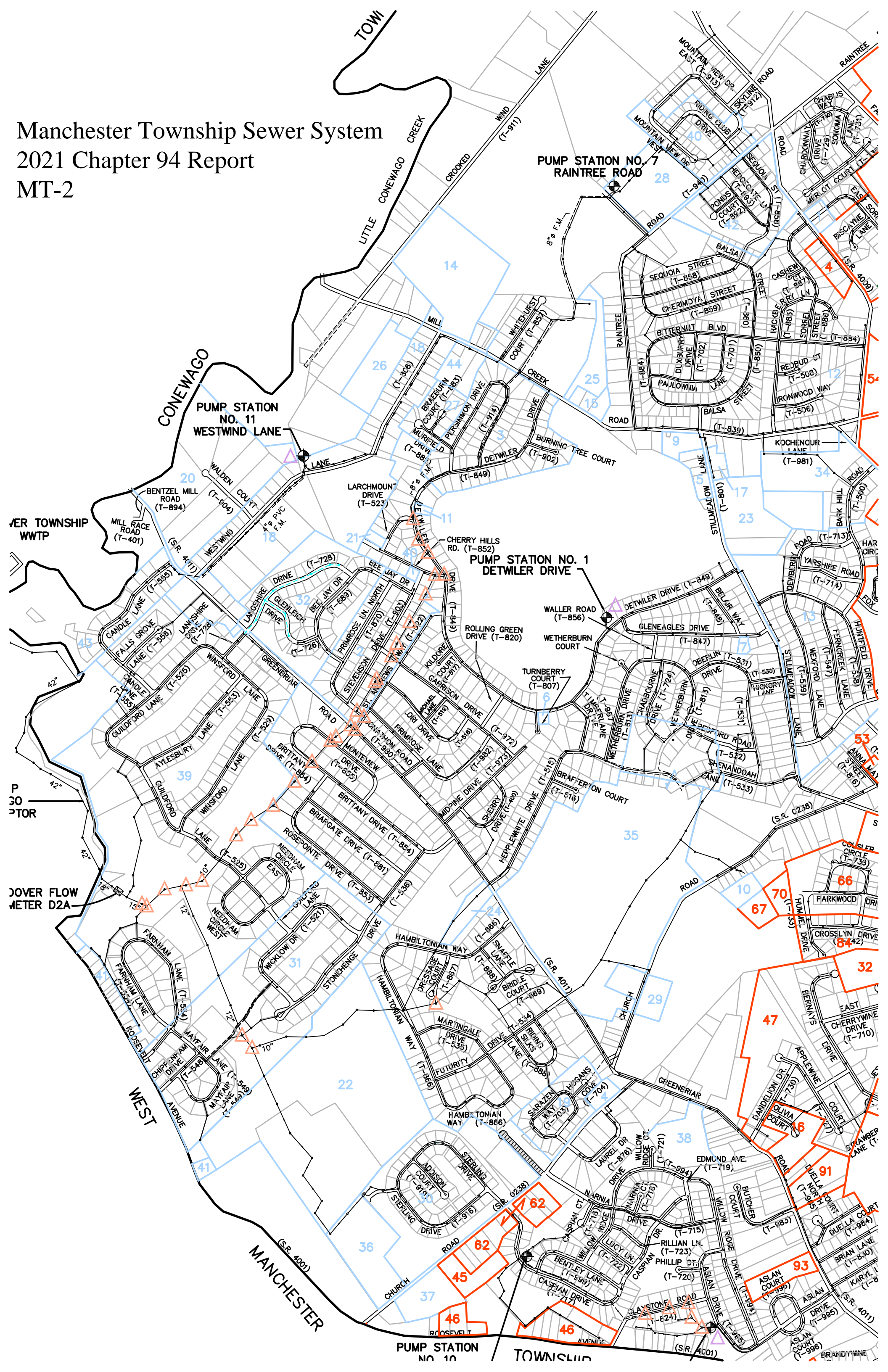
WASTEWATER TREATMENT FACILITY  
 To: Dover Township

SOURCES FOR PROJECTION	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Future Years</u>
Existing Flow From Current Users(1)	572,000	572,000	575,450	578,150	579,950	581,450	582,950
Projected Flows From Current Users(2)	0	1,350	0	0	0	0	0
Projected Flow Increase From New Customers(3)	<u>0</u>	<u>2,100</u>	<u>2,700</u>	<u>1,800</u>	<u>1,500</u>	<u>1,500</u>	<u>17,450</u>
Total Estimated Wastewater Flows	572,000	575,450	578,150	579,950	581,450	582,950	600,400
Percent Usage	78.14%	78.61%	78.98%	79.23%	79.43%	79.64%	82.02%
Total Permitted Capacity/Agreement(4)	732,000	732,000	732,000	732,000	732,000	732,000	732,000
Total Amount of Available Capacity	160,000	156,550	153,850	152,050	150,550	149,050	131,600

NOTES AND ASSUMPTIONS:

- (1) Based upon five year average flow for 2018 thru 2022 (Exhibit MT-C).
- (2) Assumes 75% of 2022 connection permits (6 EDUs x 300 GPD) issued (See Exhibit MT-B) not reflected in (1) above.
- (3) See projected connections based on 300 GPD/EDU (Attachment MT-3).
- (4) Current permitted capacity is 732,000 GPD per municipal agreement.

Manchester Township Sewer System  
2021 Chapter 94 Report  
MT-2



MANCHESTER TOWNSHIP  
PROJECTED CONNECTIONS TO EXISTING  
DOVER TOWNSHIP ADVANCED WASTEWATER TREATMENT FACILITY

	<u>Name and Description</u>	<u>Capacity Balance Gallons/Day</u>	<u>Proposed Connections (Gallons/Day)</u>				<u>2027</u>	<u>Future Years</u>
			<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>		
10	Kingdom Hall Jehovah's Witness 900 Block Church Road (1 EDU @ 250 GPD) (PA DEP #6773405)	250	0	0	0	0	0	250
13 *	Michael N. Rutter (Spring Meadows) Tax Map KH, Parcels 111A, 112 2825 Still Meadow Lane (6.7 EDUs @ 300 GPD Remaining)	2,000	0	0	0	0	0	2,000
25A	Jason Barshinger	300	0	0	0	0	0	300
34 **	Rutters Spring Meadows (3.7 EDUs @ 300 GPD)	1,100	0	0	300	0	0	800
35	James & Nancy Kohr Hepplewhite Estates (All Phases) (72 EDUs @ 300 GPD)	21,600	1,500	1,500	1,500	1,500	1,500	14,100
37	JG Leasing - Church Road (6 EDUs @ 300 GPD)	1,800	600	1,200	0	0	0	0
	<b>AVERAGE DAILY FLOW TOTALS:</b>	27,050	2,100	2,700	1,800	1,500	1,500	17,450
	<b>SUMMARY OF EDU PROJECTIONS:</b>	<b>90</b>	<b>7</b>	<b>9</b>	<b>6</b>	<b>5</b>	<b>5</b>	<b>58</b>
	* Projects are tributary to Detwiler Drive (No. 1) Sewage Pump Station.		0	0	0	0	0	2,000
	** Projects are tributary to Raintree Road (No. 7) Sewage Pump Station.		0	0	300	0	0	800
	*** Projects are tributary to Westwind Lane (No. 11) Sewage Pump Station.		0	0	0	0	0	0

# MANCHESTER TOWNSHIP SANITARY SEWER SYSTEM MAINTENANCE PROGRAM

## 2022

1. As of December 31, 2022, the Manchester Township Sanitary Sewer System consisted of 136.05 miles of sewer line and nine (9) pump stations. 45.2 miles of collector / interceptor lines and force main and three (3) pump stations are tributary to the Dover Township Wastewater Treatment Plant; 22.21 miles of collector / interceptor lines and force main, and two (2) pump stations are tributary to the Springettsbury Township Wastewater Treatment Facility; 65.58 miles of collector / interceptor lines and force main and four (4) pump stations are tributary to the York City Wastewater Treatment Plant.
2. The Manchester Township Public Works Department is comprised of twelve (12) full-time employees of which, two (2) are assigned to perform sanitary sewer related duties. They are responsible for the daily maintenance of the 136.05 miles of sewer line and the nine (9) pump stations and are supervised by the public works superintendent. They are also responsible for the field marking of sewer line location to comply with the Pennsylvania Act 172 (PA One-Call System). During 2022 they responded to 2,491 requests.
3. The sewer department employees have the following equipment at their disposal to conduct their assigned duties:
  - a. 2017 Ford F-550 with a utility body (containing various hand tools and safety equipment)
  - b. 2019 Freightliner Vactor 2100i
  - c. 2021 E-450 Box Truck with Rausch camera system operated by Possum software package.
  - d. 2019 Cues MP+ Push Camera Inspection System (laterals)
  - e. Superior smoke blower (used to identify sources of I/I or illegal connections)
  - f. Gorman–Rupp 6” Centrifugal pump (used for relief pumping and temporary backup for pump stations).
  - g. RootX FDU-200 applicator to apply root control material.
4. During 2022, the sewer maintenance activities included the following:
  - a. Lines tributary to the York City system – 68,480 feet of cleaning, 48,346 feet of televising and 18 lateral inspections.
  - b. Lines tributary to the Dover Township system – 43,532 feet of cleaning, 26,403 feet of televising and 16 lateral inspections.
  - c. Lines tributary to the Springettsbury Township system – 13,078.5 feet of cleaning, and 14,400.5 feet of televising and 7 lateral inspections.



## Maintenance Program

- d. Personnel also conducted inspections of 626 manholes of which 279 manholes tributary to the York City system, 157 manholes tributary to the Springettsbury system, and 190 manholes tributary to the Dover system.
- e. The sewer maintenance personnel raised or repaired fifty-six (56) manhole frames, 21 (21) of which were tributary to the Dover system and 14 (14) tributary to the Springettsbury system and twenty-one (21) of which were tributary to the York system.
- f. Personnel continue to spend considerable time checking flow conditions of the sanitary sewer interceptor line that connects Manchester Township to the York City Treatment Plant, from the Skyview Drive and North George Street area. In past years this area has required relief pumping when extreme weather conditions of heavy rain and/or snow melt occurred. There was no relief pumping during 2022.
- g. Following the relief pumping events of 2014, Manchester Township received a Notice of Violation from the PA Department of Environmental Protection for the discharge of untreated sewage into an unnamed tributary of the Codorus Creek. Representatives from the Township along with the Township's Engineer C.S.Davidson, met with PA DEP and continue to correspond on the development and implementation of a Corrective Action Plan and a Consent Order / Agreement to address and eliminate the need to perform relief pumping in the Skyview Drive/ North George Street area. Manchester Township received notification from DEP on September 29, 2020 that the obligations of the COA are terminated effective the same date.
- h. The sewer maintenance personnel monitor and clean the pump station wet wells as needed to remove any accumulation of grease that is present. An article was published in the Township's newsletter which is distributed to every residential property located in the Township to educate residents on the proper disposal of household grease. The newsletter is distributed three times a year to approximately 7,333 households.
- i. During 2022, the biannual cleaning of a portion of the sewer line in sewer district "A", which is tributary to the York City system. This cleaning is done to deal with grease and solids that enter the system from the many restaurants that are connected to this collector. This preventive maintenance measure has helped keep these lines clean and helps to prevent backups in this area and will continue into 2023.

## Maintenance Program

- j. On September 26, 2003, all required information and forms were submitted to the Department of Environmental Protection to have the employees of Manchester Township, that were eligible, to be grand parented into the required certification program as a satellite sewage treatment operator. In 2021, Manchester Township had six (6) employees with certification. Five (5) of the employees have permanent certification. Training will continue for all employees as necessary to comply with the regulations to maintain the certifications.
  - k. The Manchester Township sewer crew personnel conducted 42 grease trap inspections at commercial establishments located within the Township. The commercial establishments were requested to provide either the manifest from the contractor that provided the grease trap cleaning service or provide documentation that the grease trap was cleaned by company personnel.
5. In 2023, the sewer department personnel will continue to monitor flows and inspect manholes and pump stations in all sewer districts as well as cleaning and TV inspection as required. Additional time will be allocated for the televising of sewer lines during periods of significant precipitation to identify sources of I/I, including the collector lines tributary to the Skyview Drive/North George Street sewer line. Several other goals for 2023 are as follows:
- a. Clean, televise, and repair as necessary, all sanitary sewer lines affected by the 2023 street and road construction schedule. Manhole adjustments and repairs to be completed as required for infiltration reduction.
  - b. Continue to TV and monitor flows from the private collection systems within Manchester Township, especially during periods of significant precipitation.
  - c. Continue the biannual cleaning of the sanitary sewer line located in the Route 30 area that has a large concentration of restaurants and have the potential of depositing abnormal amounts of grease. Grease trap inspections will be conducted at the restaurants to ensure proper maintenance is being completed.
  - d. Conduct smoke testing of sewer lines to identify possible sources of I/I and illegal connections (as time permits).
  - e. Conduct inspections of properties identified to have sump pumps and / or downspouts connected to the sewer line to eliminate ground water from being pumped into the sanitary sewer system.
  - f. Schedule nighttime inspections of sewer lines in residential areas to identify potential sources of I/I during periods of significant precipitation.
  - g. Continue to inspect and apply preventive maintenance procedures to all sanitary sewer-pumping stations to ensure their continued operation.

## Maintenance Program

- h. Continue to train sewer department personnel in the latest equipment and safety issues that apply to the day-to-day operation of the Manchester Township sanitary sewer system and its related areas of responsibility.
- i. In cooperation with Dover Township and/or other training providers, continue to provide training to meet the continuing education requirements for the Certified Wastewater Systems Operators.
- j. Conduct inspection of manholes in off street right of ways to identify possible sources of I/I. Including watertight lid conditions and manhole frames being sealed to the cone sections of the manhole.

## 6. Sewer projects that were performed in 2022 are as follows:

- a. Wexcon replace 11 lids and frames on Board rd. for the Penndot overlay project.
- b. Wexcon installed 260 ft of ductile iron pipe from manhole 106 to manhole107
- c. Advanced rehabilitation services relined 11 manholes due to structural damage all which were tributary to the dover district.
- d. Wexcon installed 50 feet of pvc pipe from manhole 105 to manhole 105 on board road
- e. The sewer department changed the air release valve on the force main at pump station 6 we also installed 11 water tight lids and frames all tributary to the dover district due to I&I problems.
- f. Advanced rehabilitation services lined new manhole 106 and 107 on board road.

Manchester Township

Department of Environmental Protection

Wastewater Systems Operators Certificate Information

Grandparented Facility Id # 567443

Name	Client ID #	Certificate #	Exp. Date	Hours
*Robert M Hartman	235828	S13579	9/30/2025	0
*James L Christy	343885	S21669	9/30/2024	16
*Greg A Frye	267277	S15996	3/31/2024	18
*Brandon Musser	343913	S21920	3/31/20225	6
*Samuel Shade	358314	S23066	9/30/2023	27.5

\*Employees with permanent Wastewater System, Class E, Subclass 4 certification.

**UPDATED AS OF 1/3/2023**

	York	Springettsbury	Dover	Year End Total
Lines Cleaned	68480	13078.5	43532	125090.5
New Pipe "TV"	10495.5	2421	1086	14002.5
Old Pipe "I & I"	37850.48	12019.5	25317	75187.38
Smoke Test	13362	8248	45339	66949
Lines Root Cut	3873	0	1025	4898
Manhole Inspections	279	157	190	626
Manholes Repaired	21	14	21	56
Dishpans Installed	7	2	10	19
Laterals "TV"	18	7	16	41
Grease Trap Inspections	40	0	2	42

Comments:

JANUARY	Purchased new Rausch t.v inspection unit from tri state environmental.
FEBRUARY	Wexcon replaced 11 frames and lids on board rd. Wexcon installed 260 ft of ductile iron pipe from manhole 106 to 107.
MARCH	Advanced rehabilitation line 11 manholes due to I&I . All were in dover distict.
April	Wexcon installed 50 ft of pvc pipe on board rd. from manhole 106 to 105. We smoke tested all districts for I&I
JULY	Sewer dept. changed the air release valve at pump sttion 6 we also installed 11 water tight lids and frames in lines tributary to dover district.
SEPTEMBER	Advanced rehabilitation lined manholes 106 and 107 on board rd.
NOVEMBER	Kinsley construction replaced 163 ft of ductile iron pipe on state street.

## Manchester Township

### A. System Monitoring, Maintenance, and Repair

The sanitary sewer system maintenance program is described in Attachment MT-4 supplied by the Township.

### B. Collection System Condition

1. Description of System: The system tributary to Dover Township serves the Outdoor Country Club and Foustown areas. Sewer Service Area D was placed into operation in 1979. The system currently includes 44.43 miles of various size sewers (4" diameter to 18" diameter), 0.09 miles of 4" diameter force main, 1.00 miles of 8" diameter force main, and two pump stations. The system is in very good operating condition.
2. Conveyance Capacity: No hydraulic overload of any Manchester Township pipeline facilities is anticipated during the next five (5) year period.
3. Major Rehabilitation: None.

### C. Sanitary Sewer Extensions

1. Extensions: No sanitary sewer extensions were built in 2022.
2. Proposed Projects: Some of the undeveloped areas within the Township will be served by the existing system and require only tap-ins. Future connections and development will still be restricted to proposed projects with approved sanitary sewer capacity reservation. These projects are outlined on Attachment MT-3.

### D. Waste Flow Data

1. The total number of connections completed during each of the past five years was as follows:

2018	2019	2020	2021	2022
7	3	4	7	6

### F. Nutrient Trading Program 2003 thru 2022

1. No on-site disposal systems were eliminated since 2013.

### G. Customer Base

As of 12/31/22, there are 2,114 units connected to the Dover Township WWTP.

### H. Infiltration/Inflow (I/I) Issues

The highest three consecutive month flows in 2022 are shown in Exhibit MT-A. During 2022, the Manchester Township Public Works department investigated the gravity system during storm events and wet periods using a flow logger and visual inspection. The investigation will continue in 2023.

**2022**  
**COMPUTATION OF PEAKING FACTOR**  
**WASTEWATER FLOWS FROM COUNTRY CLUB AREA SYSTEM**  
**MANCHESTER TOWNSHIP BASED ON 2018-2022 DATA**

Average Daily Flows (MGD)

<b>Month</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	
January	0.573	1.143	0.628	0.470	0.413	
February	1.161	1.105	0.515	0.612	0.523	
March	0.800	1.332	0.454	0.656	0.461	
April	0.850	0.582	0.467	0.370	0.661	
May	0.812	0.931	0.536	0.297	0.767	
June	0.717	0.475	0.323	0.317	0.268	
July	0.826	0.458	0.213	0.407	0.325	
August	0.826	0.372	0.310	0.570	0.321	
September	0.980	0.350	0.211	1.045	0.315	
October	0.494	0.313	0.248	0.386	0.333	
November	1.461	0.274	0.277	0.415	0.371	
December	1.032	0.467	0.539	0.346	0.597	<b>5 YR AVG</b>
Monthly Average	0.878	0.650	0.393	0.491	0.446	0.572
Highest 3 Consecutive Months Average	<b>1.124</b>	<b>1.193</b>	<b>0.532</b>	<b>0.674</b>	<b>0.630</b>	<b>0.831</b>
Total Rainfall (inches)(1)	63.86	44.22	38.63	43.02	37.15	45.4
Peaking Factor Ratio	1.280	1.835	1.353	1.373	1.411	1.45
EDUs Connected(2)	2,067	2,066	2,073	2,108	2,114	2,086
Flow/EDU (gpd)	424.61	314.70	189.78	232.88	211.07	<b>232</b>
PF * Flow/EDU (gpd)						<b>337</b>

NOTES:

- (1) Yearly rainfall data from Dover WWTP personnel (10" snowfall = 1" rainfall).  
(2) Year end EDU count used.

**Detwiler Drive Pump Station (No. 1)**

Most recent rating: 139 gpm  
Year: 2021  
Capacity: 200,160 gpm

	Hours / Day	Gallons / Day	Peak. Factor
Average	3.4	28,400	
Maximum	7.9	65,900	2.3

The 2-Year projections are as follows:

	2022	2023	2024
Avg. Daily Flow, gpd	28,400	28,400	28,400
Max. Daily Flow, gpd	65,900	65,900	65,900
Max. Flow, % of Capacity	33%	33%	33%

**Raintree Road Pump Station (No. 7)**

Most recent rating: 411 gpm  
Year: 2023  
Capacity: 591,840 gpm

	Hours / Day	Gallons / Day	Peak. Factor
Average	7.1	175,100	
Maximum	19.5	480,900	2.7

The 2-Year projections are as follows:

	2022	2023	2024
Avg. Daily Flow, gpd	175,100	175,100	175,100
Max. Daily Flow, gpd	480,900	480,900	480,900
Max. Flow, % of Capacity	81%	81%	81%

\*\* Simultaneous pump runs occurred during TS Ida

**Westwind Lane Pump Station (No. 11)**

Most recent rating: 121 gpm  
Year: 2023  
Capacity: 174,240 gpm

	Hours / Day	Gallons / Day	Peak. Factor
Average	1.0	7,300	
Maximum	1.5	10,900	1.5

The 2-Year projections are as follows:

	2022	2023	2024
Avg. Daily Flow, gpd	7,300	7,300	7,300
Max. Daily Flow, gpd	10,900	10,900	10,900
Max. Flow, % of Capacity	6%	6%	6%





## CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

**For Calendar Year: 2022**

- Permittee is owner and/or operator of a POTW or other sewage treatment facility  
 Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee

GENERAL INFORMATION	
Permittee Name: <b>West Manchester Township</b>	Permit No.: <b>PA</b>
Mailing Address: <b>380 East Berlin Road</b>	Effective Date:
City, State, Zip: <b>York, PA 17408</b>	Expiration Date:
Contact Person: <b>Mr. Richard Shaw</b>	Renewal Due Date:
Title: <b>Public Works Director</b>	Municipality: <b>West Manchester Township</b>
Phone: <b>717-792-3505</b>	County: <b>York</b>
Email: <b>rshaw@wmtwp.com</b>	Consultant Name: <b>Dawood Engineering, Inc.</b>
CHAPTER 94 REPORT COMPONENTS	
<p>1. Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. <u>(25 Pa. Code § 94.12(a)(1))</u></p> <p><b>Check the appropriate boxes:</b></p> <p><input type="checkbox"/> Line graph for flows attached (<b>Attachment</b> )</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (<b>Attachment</b> )</p> <p><input checked="" type="checkbox"/> Section 1 is not applicable (report is for a collection system).</p>	
<p>2. Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. <u>(25 Pa. Code § 94.12(a)(2))</u></p> <p><b>Check the appropriate boxes:</b></p> <p><input type="checkbox"/> Line graph for organic loads attached (<b>Attachment</b> )</p> <p><input type="checkbox"/> DEP Chapter 94 Spreadsheet used (<b>Attachment</b> )</p> <p><input checked="" type="checkbox"/> Section 2 is not applicable (report is for a collection system).</p>	
<p>3. If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. <u>(25 Pa. Code § 94.12(a)(3))</u></p> <p><b>N/A Collection System only</b></p>	

4. Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))

**Check the appropriate boxes:**

- Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (**Attachment** )
- List summarizing each extension or project attached (**Attachment** )
- Schedules describing how each project will be completed over time and effects attached (**Attachment** )

**Comments:**

**As indicated on page 3 of the Attachment A report, no extensions are planned at this time.**

5. Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))

**(See pages 1-2 of the Attachment A report)**

6. Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))

**Check the appropriate boxes:**

- System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event.
- System did not experience capacity-related bypassing, SSOs or surcharging during the report year.

**Comments:**

**(See Page 1 of th Attachment A report)**

7. Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum pumping rate with present maximum flows and the projected 2-year maximum flows for each station. (25 Pa. Code § 94.12(a)(7))

**Check the appropriate boxes:**

- The collection system does not contain pump stations  
 The collection system does contain pump stations (Number – 1)  
 Discussion of condition of each pump station attached (**Attachment A**)

8. If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information listed below. (25 Pa. Code § 94.12(a)(8))

- a. A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted.
- b. A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year.
- c. A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant or in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describe pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers.

**Check the appropriate boxes:**

- Industrial waste report as described in 8 a., b. and c. attached (**Attachment** )  
 Industrial pretreatment report as required in an NPDES permit attached (**Attachment** )

9. Existing or Projected Overload.

**Check the appropriate boxes:**

- This report demonstrates an existing hydraulic overload condition.  
 This report demonstrates a projected hydraulic overload condition.  
 This report demonstrates an existing organic overload condition.  
 This report demonstrates a projected organic overload condition.

If one or more boxes above have been checked, attach a Corrective Action Plan (CAP) to reduce or eliminate present or projected overloaded conditions under §§ 94.21 and/or 94.22 (relating to existing overload and projected overload). (25 Pa. Code § 94.12(a)(9))

- Corrective Action Plan attached (**Attachment B**)

10. Where required by the NPDES permit, attach a Sewage Sludge Management inventory that demonstrates a mass balance of solids coming in and leaving the facility over the previous calendar year.

- Sewage Sludge Management Inventory attached (**Attachment** )

11. For facilities with CSOs and where required by the NPDES permit, attach an Annual CSO Report (including satellite combined sewer systems).

Annual CSO Report attached (**Attachment** )

12. For POTWs, attach a calibration report documenting that flow measuring, indicating and recording equipment has been calibrated annually. (25 Pa. Code § 94.13(b))

Flow calibration report attached (**Attachment** )

**RESPONSIBLE OFFICIAL CERTIFICATION**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

**Richard Shaw**



Name of Responsible Official

Signature

**717-792-3505**

**3-29-2023**

Telephone No.

Date

**PREPARER CERTIFICATION**

I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

**Rainer A. Niederoest**



Name of Preparer

Signature

**855-432-9663 x1221**

**3/21/2023**

Telephone No.

Date

# Attachment A

**DOVER TOWNSHIP – CHAPTER 94  
WASTELOAD MANAGEMENT REPORT – 2022**

**WEST MANCHESTER TOWNSHIP**

A. System Monitoring, Maintenance, and Repair

West Manchester Township’s sanitary sewer maintenance program includes cleaning, flushing, televising, and repairing leaking joints, laterals, and manholes. A sewer maintenance foreman and two other full-time employees are available for maintenance of the sewer system. The Township’s equipment is listed on Exhibit No. WMT-1. During 2022, the Township cleaned and televised 3,294 linear feet of sewer main (refer to Exhibit No. WMT-3). The Township also contracted Mr. Rehab, LLC. to smoke test 23,665 linear feet of sewer main connected to the Shiloh Interceptor near Sunset Lane. In addition, the Township effected eleven (11) repairs to laterals (refer to Exhibit No. WMT-4) and cleared clogs from eleven (11) laterals (refer to Exhibit No. WMT-5) which did not require repair.

In early 2007 PA DEP cited West Manchester Township (WMT) for several overflows from the Shiloh Interceptor. On June 7, 2007, the PA DEP approved a Corrective Action Plan (CAP) to the 2006 Chapter 94 Report. The CAP was amended on June 22, 2007 to modify the schedule of work for elimination of the hydraulic overload in the area tributary to the flow meter on Route 74 in Manhole 22B (WM3). Replacement of the Shiloh Interceptor was completed early January 2011. A monitoring period continues to be in place. In 2022, during a 4.5” rain event, on May 7<sup>th</sup>, there were a few reported overflows (see Exhibit No. WMT-11). These are attributed to high rainfall and in flow from localized flooding.

In 2022, WMT will continue to televise sanitary sewer mains, document repairs necessary, and prioritize repairs. WMT continued to meter flow at the confluence of the conveyance sewers from the Hayward and Gems areas of the Shiloh sewer network. This activity, begun in 2021, was continued so a before and after analysis of inflow and infiltration could be done for sewer rehabilitation in the Hayward area. The same is plan for rehabilitation likely to result from planned inspection of more than 8,500 LF of conveyance sewer from the Hayward and Gems areas. WMT also continues to try to educate residents by placing articles in the Township newsletter regarding the problems of illicit connections. For more details on activities between 2011 and 2022 and future plans please consult the March 29, 2023, CAP update letter, a copy of which is appended to this report.

Collection System Condition

1. Description of System

The Shiloh Sewer System was originally placed into operation in 1973-1974 and has been expanded by developers since that time to a total approximate length of 61.87 miles of sewer.

2. Conveyance Capacity

On June 22, 2007, WMT entered into an Amendment to Consent Order and Agreement (COA) with the PA DEP for elimination of the hydraulic overload condition of the Shiloh Interceptor. The interceptor replacement project was completed on January 5, 2011. During 2013, WMT implemented a multi-year system-wide program of televising all the Township’s sanitary lines. This information will be used to prioritize and determine repairs necessary to remove infiltration. The Township is also actively inspecting manholes for evidence of infiltration. To date since 2013, 119,479 linear feet of sewer main has been inspected. For more details related to the COA, related actions, and plans please consult the March 29, 2023, CAP update letter appended to this report.

Pump Station Condition

3. Noah Meadows Pump Station

The Noah Meadows pump station was accepted by the Township during 1996 and is in good operating condition. Elapsed time meters on the motors are monitored by Township personnel regularly on a weekly basis. This station has a design capacity of 80 GPM. In December 2004, the actual capacity was field verified at 60 GPM. Meter readings for 2022 indicate the following conditions:

60 gpm Rated in 2004	NOAH MEADOWS PUMP STATION			
	Hours of Operation/Day	Gallons Pumped/Day	Actual Pump Capacity (GPD)	Peaking Factor
Minimum	0.29	1,029		
Average	2.78	10,017		
Maximum	14.13	50,850	86,400	5.08

	2021	2022	2023	Design Capacity (GPD)
Avg. Daily Flow (GPD)	4,465	9,279	9,279	
Max. Daily Flow (GPD)	12,150	50,850	50,850	115,200
% Loading (of Design)	10.5%	44.1%	44.1%	
% Loading (of Capacity)	14.1%	58.9%	58.9%	

Sanitary Sewer Extensions

4. Extensions: No sanitary sewer extensions were built during 2022.

5. Proposed Projects: Some of the undeveloped areas within the Township will be served by the existing system and require only tap-ins. The locations of proposed projects are shown on the attached map.

**B. Waste Flow Data**

1. The estimated flows for the current year and the projected next five years are shown on the attached exhibit numbers WMT-6, WMT-7A, and WMT-7B.
2. Exhibit No. WMT-8 lists all permits issued during 2022.
3. A copy of the Shiloh Sewer Reservation list as of December 31, 2022 is attached as Exhibit No. WMT-9.
4. Exhibit No. WMT-10 is a tabulation of the wastewater flows from the Shiloh System since January 2005.
5. The total number of connection permits issued with final inspections completed during each of the last five (5) years are as follows:

<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
1	4	2	0	2

Though two connection permits were issued this year, only one connection was added. The construction at 2260 Baker Rd has not been completed.

**C. Subsurface Disposal System Repairs**

1. Eight on-site subsurface disposal system repairs were made during 2022, but none were associated with the Shiloh sewershed.

**D. Nutrient Trading Program 2006 thru 2022**

1. There were no on-site subsurface disposal systems eliminated in 2022.
2. Based upon 25 lbs. per year of nitrogen, the available credits through December 31, 2022 are computed as follows:

<b>Year</b>	<b>EDUs</b>	<b>Credits Thru 12/31/22</b>
2006	2 EDUs x 10 yrs. x 25 lbs. =	500
2007	2 EDUs x 9 yrs. x 25 lbs. =	450
2008	0 EDUs	0
2009	1 EDU x 7 yrs. x 25 lbs. =	175
2010	0 EDUs	0
2011	0 EDUs	0
2012	0 EDUs	0
2013	0 EDUs	0
2014	1 EDU x 2 yr. x 25 lbs. =	50
2015	0 EDUs	0
2016	0 EDUs	0
2017	0 EDUs	0



2018	0 EDUs	0
2019	0 EDUs	0
2020	0 EDUs	0
2021	0 EDUs	0

E. Customer Base

As of December 31, 2022, the Shiloh system has:

Residential/Flat Rate Users: 3861 Accounts (4080 EDUs)

Non-Residential Metered Users: 79 Accounts (107 EDUs)

Broken Down By Meter As Follows:

WM1 217 EDUs

WM2 701 EDUs

WM3 3104 EDUs

Unmetered 165 EDUs



**LEGEND**

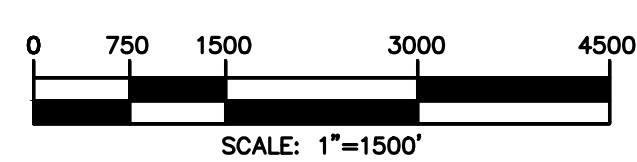
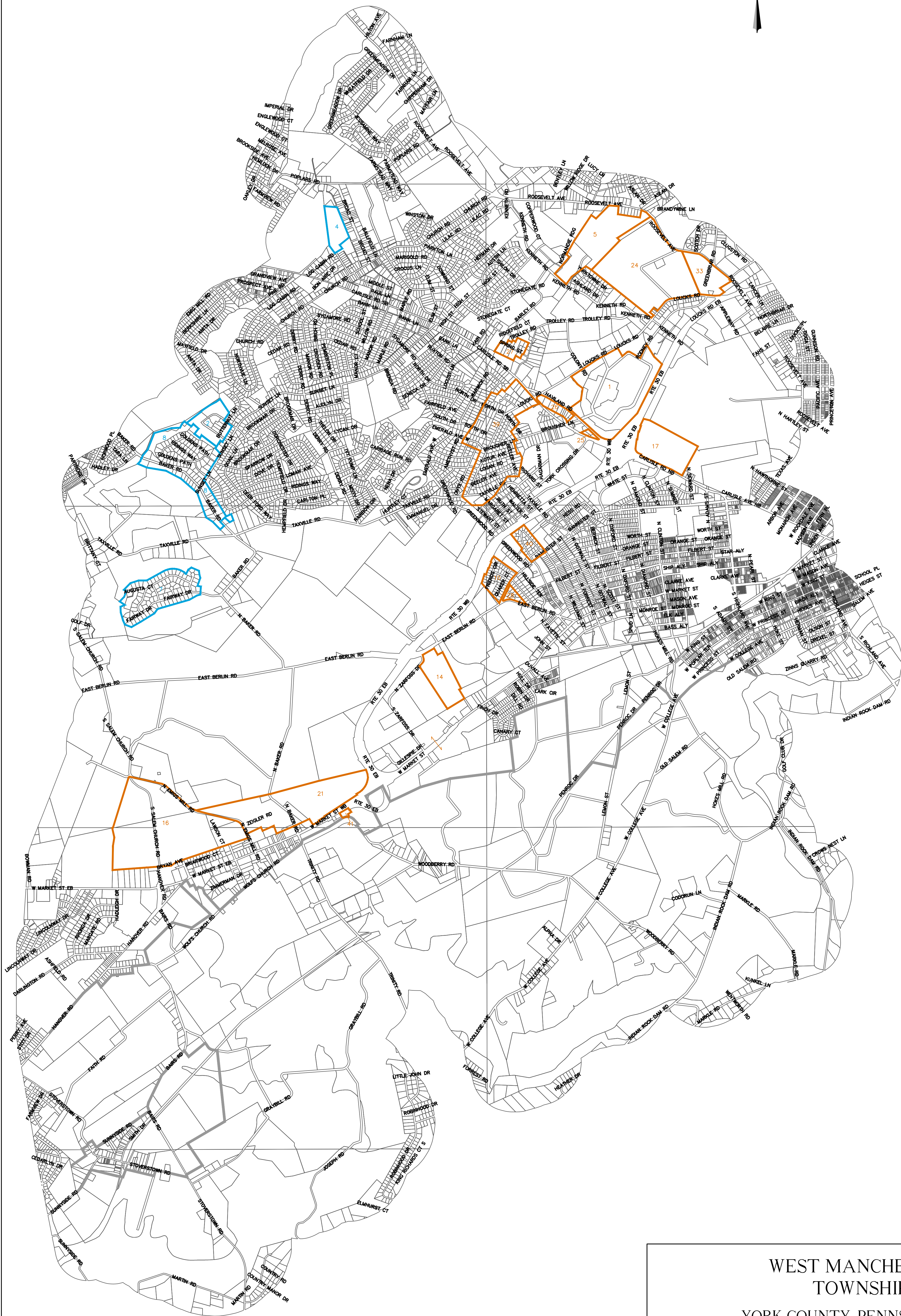
- PROJECTS TRIBUTARY TO YORK CITY WWTP
- PROJECTS TRIBUTARY TO DOVER TOWNSHIP WWTP
- URBAN GROWTH BOUNDARY

**PROJECTED CONNECTIONS TO CITY OF YORK WWTP**

NO.	DESCRIPTION
1	West Manchester Mall Expansion
5	The Greens @ Westgate
10	Penn's Preserve (Helm Coal)
14	West York Industrial Park Expansion
16	Baker Ind. Emigs Mill Road
17	Delco Plaza Redevelopment
21	J.E. Baker, Rt. 30 West
24	Memorial Hospital
25	Haviland Road South
26	Haviland Road North
27	Spring Street
28	Berlin Court
33	Stewart Tract/West Markets
39	Gems Shiloh to York Diversion
40	Weldon Court
41	Colonial House

**PROJECTED CONNECTIONS TO DOVER WWTP**

NO.	DESCRIPTION
2	Iron Bridge
4	Grandview Golf C. Rear Log Cabin Road, 5 SFD @ 300 GPD
7	Dome Golf, Greens at Honey Run
8	Golden Tract, Sunset Lane



**WEST MANCHESTER  
TOWNSHIP**  
YORK COUNTY, PENNSYLVANIA  
**PROPOSED PROJECTS**

2022 ANNUAL WASTELOAD MANAGEMENT REPORT  
DATE: 03/14/2022  
SCALE: 1"=1,500'



HARRISBURG  
4250 Crums Mill Road  
Suite 301  
Harrisburg, PA 17112  
Voice: 655-432-9683  
Fax: 717-732-8596

SOURCE: C.S. DAVIDSON INC.,  
PROPOSED PROJECTS  
2008 ANNUAL WASTELOAD MANAGEMENT REPORT

**SUBJECT: West Manchester Sanitary Sewer System****Available Personnel and Equipment****To Whom it may concern:**

West Manchester Township currently employs three (3) full time employees for sanitary sewer maintenance. The foreman and sewer operators are available for emergency call in for all matters related to maintaining the pump stations and sewer lines throughout the Township. They also perform preventative maintenance and minor repairs as required.

Major repairs and/or replacement projects are bid and awarded to various contractors when required.

The Township currently has the following equipment available for sanitary sewer maintenance:

1 Ton Pickup with utility body and lift gate

Van with sewer televising equipment generators and associated equipment for mobile televising

Electric sewer rodders

Chassis mounted Sewer Vactor unit for mobile flushing and vacuuming of Sanitary sewer lines and manholes

10 Ton Dump Truck

Backhoe

Equipment mounted compaction equipment

Various sized 8, 12 16- and 18-inch air type plugs for sewer lines

Electric powered air blower for manhole use

Gas monitoring equipment for use in confined space

Gas powered effluent pumps

Variety of hand tools for Pump Station and sanitary sewer line repair and maintenance

Lateral camera

French Creek Tri-Pod Retrieval System

West Manchester Township  
On-Site Septic System Repair - 2022

MUNICIPAL PERMIT NO.	ISSUE DATE	APPLICANT'S NAME	PROPERTY ADDRESS	STATUS OF REPAIRS
Z263912	11-07-22	Albright Care Services	2020 Roosevelt Avenue	Completed
Z263838	6-15-22	Steve & Karen Washington	Lot 2 Taxville Rd	Completed
Z263948	11-16-22	Dylan Anstine	1850 Woodberry Road	Completed
Z263913	10-05-22	Alexis & Michael Sauble	4732 Graybill Road	Still Active
Z263828	12-30-22	Jose Gonzalez	435 Hanover Road	Completed
Z263828	4-12-22	Keith Kerns	170 Margate Road	Completed
Z261501	4-22-22	Keith Inners	110 Margate Road	Completed
Z229496	6-01-22	Brad Snyder	4090 West Market Street	Completed

REPAIRS

2020 Roosevelt Avenue  
1850 Woodberry Rd  
110 Margate Road

NEW SYSTEM REPLACEMENT

435 Hanover Road  
4090 West Market Street  
170 Margate Road

NEW SYSTEM

Lot 2 Taxville Road  
4732 Graybill Road

2022 Chapter 94 Report  
Shiloh Sewer System  
Daily Flushing and TV Report

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Date	Manhole	Location	Defects/ Debris	Cleaning	TV	Pipe
4/14/2022	800-801	Taxville RD		78	78	SDR-35
4/14/2022	799-800	Taxville RD		102	102	SDR-35
4/14/2022	798-799	Taxville RD		174	174	SDR-35
5/12/2022	343-336	Cedar RD			350	Clay
6/8/2022	343-336	Cedar RD		350		Clay
6/2/2022	521-521.1	Saphire Road		264	264	Clay
6/2/2022	521.1-521.2	Saphire Road		215	215	Clay
6/8/2022	161-162	Manor Road		150	150	Clay
6/8/2022	162-163	Manor Road		123	123	Clay
8/3/2022	889-891	Sprenkle Court		354	354	SDR-35
8/3/2022	889-890	Warwick Road		120	120	SDR-35
8/3/2022	888-889	Warwick Road		247	247	SDR-35
8/3/2022	887-888	Warwick Road		126	126	SDR-35
8/3/2022	886-887	Warwick Road		72	72	SDR-35
8/3/2022	885-886	Warwick Road		115	115	SDR-35
8/3/2022	552-885	Warwick Road		398	398	SDR-35
10/12/2022	TB-7-TB-8	Esbensshade Road		168	168	Clay
10/12/2022	TB-6-TB-7	Esbensshade Road		185	185	Clay
11/30/2022	123-123A	Kain Road		53	53	Clay
Total				3,294	3,294	

## Shiloh lateral pipe repair -2022

1. 1423 Greenmeadow Dr
2. 2448 Manor Rd
3. 2445 Manor Rd
4. 2100 Church Rd
5. 2440 Manor Rd
6. 2359 Redwood Rd
7. 2432 Manor Rd
8. 2549 Sunset Ln
9. 1870 Lilac Ln
10. 2217 Locust Ln
11. 2224 Esbenshade Rd

## Shiloh Clogs – 2022

1. 2283 Linden Rd - Tree roots
2. 2496 Warwick Rd – Flushable wipes
3. 2432 Manor Rd – Tree roots
4. 2500 Broad St – Tree roots
5. 2049 Thelon Dr – Tree roots
6. 1901 Brenda Rd – Flushable wipes
7. 2530 Sunset Ln – Tree roots
8. 1741 Sapphire Rd – Tree roots
9. 2175 Herman Dr – Flushable wipes
10. 2224 Esbenshade Rd – Tree roots
11. 23 Warwick Rd – Flushable Wipes

**WEST MANCHESTER TOWNSHIP**  
 Projected Connections to Dover Wastewater Treatment Plant

**EXHIBIT NO. WMT-6**  
 December 31, 2022

No.	Name	Capacity Balance Gallons/Day	2023	2024	2025	2026	2027	Future Years	Conn MH
2	Valubilt Inc. JG 29 H,J 45 MFD - Iron Bridge	2,400	300	300	600	600	600	0	552
4	Grandview Golf C, Rear Log Cabin Road 5 SFD @ 300 gpd	1,500	0	0	0	0	0	1,500	46
7	Dome Golf, Greens at Honey Run 2 EDUs @ 300 gpd	300	300	0	0	0	0	0	700
8	Golden Tract, Sunset Lane 4 SFD @ 300 gpd - Golden's Path	1,200	300	0	0	0	0	900	552
11	Misc. Development 20 SFD @ 300 gpd	6,000	1,200	1,200	1,200	1,200	1,200	0	22B
	TOTAL:	11,400	2,100	1,500	1,800	1,800	1,800	2,400	
	TOTAL Based on Peaking Factor (1.94):		4,074	2,910	3,492	3,492	3,492	4,656	
	<b>SUMMARY OF EDU PROJECTIONS:</b>		<b>14</b>	<b>10</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>16</b>	



**WEST MANCHESTER TOWNSHIP**  
 Projected Connections to Dover Wastewater Treatment Plant

**EXHIBIT NO. WMT-6**  
 December 31, 2022

AVERAGE DAILY FLOWS

Subtotal Connecting MH 22B	1,200	1,200	1,200	1,200	1,200	0
Subtotal Connecting MH 46	0	0	0	0	0	1,500
Subtotal Connecting MH 552	600	300	600	600	600	900
Subtotal Connecting MH 700	300	0	0	0	0	0

PEAK DAILY FLOWS

Subtotal Connecting MH 22B	2,328	2,328	2,328	2,328	2,328	0
Subtotal Connecting MH 46	0	0	0	0	0	2,910
Subtotal Connecting MH 552	1,164	582	1,164	1,164	1,164	1,746
Subtotal Connecting MH 700	582	0	0	0	0	0

**TABULATION OF AVAILABLE  
SEWER RESERVE CAPACITY  
(BASED UPON AVERAGE DAILY FLOWS)**

COLLECTION AND TRANSPORTATION SYSTEM From: West Manchester Township				WASTEWATER TREATMENT FACILITY To: Dover Township			
SOURCES FOR PROJECTION	2022	2023	2024	2025	2026	2027	Future Years
Existing Flow From Current Users (1)	1,304,358	1,304,583	1,306,683	1,308,183	1,309,983	1,311,783	1,313,583
Projected Flows From Current Users (2)	225						
Projected Flow Increase From New Customers (3)		2,100	1,500	1,800	1,800	1,800	2,400
Total Estimated Wastewater Flows	1,304,583	1,306,683	1,308,183	1,309,983	1,311,783	1,313,583	1,315,983
Percent Usage	55.61%	55.70%	55.76%	55.84%	55.92%	55.99%	56.09%
IMA Treatment Capacity at Treatment Plant (4)	2,346,000	2,346,000	2,346,000	2,346,000	2,346,000	2,346,000	2,346,000
Total Amount of Available Capacity	1,041,417	1,039,317	1,037,817	1,036,017	1,034,217	1,032,417	1,030,017

**NOTES AND ASSUMPTIONS:**

(1) Based upon average of monthly daily flows for 2022 (Exhibit No. WMT-10)

(2) Assumes 75% of 2022 connection permits (1 EDUs x 300 GPD) issued (Exhibit No. WMT-8)  
not reflected in (1) above

(3) See attached list of projected connections (Exhibit No. WMT-6)

(4) The total available treatment capacity at the Dover sewage treatment plant based on the current intermunicipal agreement (IMA)

**TABULATION OF AVAILABLE  
SEWER RESERVE CAPACITY  
(BASED UPON HIGHEST 3 CONSECUTIVE AVERAGE DAILY FLOWS)**

COLLECTION AND TRANSPORTATION SYSTEM From: West Manchester Township				WASTEWATER TREATMENT FACILITY To: Dover Township			
SOURCES FOR PROJECTION	2022	2023	2024	2025	2026	2027	Future Years
Existing Flow From Current Users (1)	1,970,492	1,970,853	1,974,222	1,976,628	1,979,516	1,982,403	1,985,291
Projected Flows From Current Users (2)	361						
Projected Flow Increase From New Customers (3)		3,369	2,406	2,888	2,888	2,888	3,850
<b>Total Estimated Wastewater Flows</b>	<b>1,970,853</b>	<b>1,974,222</b>	<b>1,976,628</b>	<b>1,979,516</b>	<b>1,982,403</b>	<b>1,985,291</b>	<b>1,989,141</b>
Percent Usage	84.01%	84.15%	84.26%	84.38%	84.50%	84.62%	84.79%
IMA Treatment Capacity at Treatment Plant (4)	2,346,000	2,346,000	2,346,000	2,346,000	2,346,000	2,346,000	2,346,000
<b>Total Amount of Available Capacity</b>	<b>375,147</b>	<b>371,778</b>	<b>369,372</b>	<b>366,484</b>	<b>363,597</b>	<b>360,709</b>	<b>356,859</b>

**NOTES AND ASSUMPTIONS:**

(1) Based upon average of the three highest consecutive month flows for 2022 (see Exhibit No. WMT-10)

(2) Assumes 75% of 2022 connection permits (1 EDUs x 300 GPD) issued (Exhibit No. WMT-8) not reflected in (1) above, times 1.6 peaking factor.

(3) See attached list of projected connections (Exhibit No. WMT-6) times 1.6 peaking factor.

(4) The total available treatment capacity at the Dover sewage treatment plant based on the current intermunicipal agreement (IMA)



**PADEP Chapter 94 Spreadsheet  
Sewage Treatment Plants**

Reporting Year:

Facility Name:

Permit No.:

Persons/EDU:

Existing Hydraulic Design Capacity:  MGD  
 Upgrade Planned in Next 5 Years?  Year:   
 Future Hydraulic Design Capacity:  MGD

Existing Organic Design Capacity:  lbs BOD5/day  
 Upgrade Planned in Next 5 Years?  Year:   
 Future Organic Design Capacity:  lbs BOD5/day

**Monthly Average Flows for Past Five Years (MGD)**

**Monthly Average BOD5 Loads for Past Five Years (lbs/day)**

Month	2018	2019	2020	2021	2022
January	1.59	2.95	2.252	1.682	1.455
February	3.898	2.719	1.903	2.261	1.775
March	2.613	3.316	2.001	2.281	1.81
April	2.733	1.752	2.021	1.665	2.009
May	2.824	2.788	2.168	1.304	2.093
June	2.559	1.106	1.519	1.172	1.117
July	2.302	1.333	1.273	1.273	0.694
August	2.247	0.908	2.388	2.033	0.639
September	2.479	0.775	1.047	3.293	0.625
October	1.251	0.995	1.058	1.185	1.008
November	4.092	1.347	1.29	1.228	1.05
December	2.952	2.023	2.119	0.991	1.76
Annual Avg	2.628	1.834	1.753	1.697	1.336
Max 3-Mo Avg	3.081	3.331	2.063	2.2	1.971
Max : Avg Ratio	1.17	1.82	1.18	1.30	1.48
Existing EDUs					
Flow/EDU (GPD)					
Flow/Capita (GPD)					
Exist. Overload?	YES	YES	NO	NO	NO

Month	2018	2019	2020	2021	2022
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
Annual Avg					
Max Mo Avg					
Max : Avg Ratio					
Existing EDUs					
Load/EDU					
Load/Capita					
Exist. Overload?					

**Projected Flows for Next Five Years (MGD)**

**Projected BOD5 Loads for Next Five Years (lbs/day)**

	2023	2024	2025	2026	2027
New EDUs	14.0	10.0	12.0	12.0	12.0
New EDU Flow	0.0049	0.0035	0.0042	0.0042	0.0042
Proj. Annual Avg	1.855	1.8585	1.8627	1.8669	1.8711
Proj. Max 3-Mo Avg	2.574	2.579	2.584	2.59	2.596
Proj. Overload?	YES	YES	YES	YES	YES

	2023	2024	2025	2026	2027
New EDUs	14	10	12	12	12
New EDU Load	8.176	5.840	7.008	7.008	7.008
Proj. Annual Avg	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Proj. Max Avg	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Proj. Overload?	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Show Precipitation Data on Hydraulic Graph?

**Total Monthly Precipitation for Past Five Years (Inches)**

Month	2018	2019	2020	2021	2022
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					

## West Manchester Township

Shiloh Connection Permits Issued January 1, 2022 – December 31, 2022

MUNICIPAL PERMIT NO.	APPLICANT'S NAME	PROPERTY LOCATION (STREET ADDRESS & SUBDIVISION)	NO. OF EDU'S RESERVED	ASSIGNED FLOW (GPD)
210832	Hunter Creek Partners, LLC	2211 Parkton Lane (Barrington Place)	1	300
220541	Fishing Creek Builders	2260 Baker Road (Fieldstone Ridge)	1	300

West Manchester Township  
 Shiloh Sanitary Sewer Reservations as of December 31, 2022

Name of Developer or Landowner	Location of Property	No. of EDU's Reserved	Assigned Flow (GPD)
S & A Custom Built Homes	Parkview Estates	3	900
Robert Kinsley	Golden Tract West	16	4,800
John & Brenda Campbell	Sunset Lane	1	300
Costas Skouras	Lot 37, Shiloh Farms (Open Space)	1	300
Mark Ness	Noah Meadows	2	600
Robert & Kathy Estep	2520 Taxville Road - DeStephano	1	300
Richard Nath	2260 Baker Road – Fieldstone Ridge	1	300

**WEST MANCHESTER TOWNSHIP**  
Wastewater Flows from Shiloh Sanitary Sewer System

**Average Daily Flows (mgd) / Percent of Plant Flows<sup>(1)</sup>**

	2005		2006		2007		2008		2009		2010	
Month												
January	2.076	35%	1.930	31%	1.700	42%	1.302	46%	1.139	30%	<b>1.705</b>	<b>44%</b>
February	1.461	37%	2.010	34%	1.141	49%	2.912	41%	0.906	30%	<b>1.852</b>	<b>39%</b>
March	2.447	38%	1.014	42%	2.944	39%	2.475	26%	0.825	29%	<b>2.746</b>	<b>34%</b>
April	2.137	41%	1.104	39%	2.009	40%	1.506	30%	1.651	34%	1.372	39%
May	0.960	45%	0.925	38%	1.154	38%	2.363	36%	2.102	37%	1.109	37%
June	0.851	45%	1.000	36%	0.853	43%	1.063	42%	1.965	43%	0.965	31%
July	0.946	41%	0.952	36%	0.758	41%	0.904	39%	0.931	45%	1.377	48%
August	0.801	41%	0.650	37%	0.777	35%	0.686	31%	1.055	47%	1.145	43%
September	0.648	40%	0.972	41%	0.653	34%	1.057	34%	1.223	40%	0.846	39%
October	1.601	39%	0.923	39%	0.704	35%	0.761	29%	<b>1.756</b>	<b>34%</b>	1.190	32%
November	1.290	39%	2.274	40%	0.851	37%	0.883	35%	<b>1.395</b>	<b>37%</b>	0.929	45%
December	1.639	33%	1.417	43%	3.993	72%	2.319	33%	<b>2.404</b>	<b>34%</b>	1.267	40%
Annual Average	1.405	40%	1.264	38%	1.461	42%	1.519	35%	1.446	37%	1.375	39%
Highest 3 Consecutive Months Average <sup>(5)</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.852	35%	2.101	39%
Total Rainfall (Inches) <sup>(3)</sup>	35.27		40.73		35.23		46.15		47.07		47.81	
Highest 3 Consecutive Months Average <sup>(6)</sup>	2.015	39%	1.651	36%	2.04%	39%	2.298	32%	1.906	38%	2.101	39%

SOURCE: Flow meter records published by Dover Township.

NOTES:

- (1) Max Flow 2.3456 MGD - IMA.
- (3) Monthly rainfall data from Dover WWTP (10" snowfall = 1" rainfall) or NOAA.
- (5) Period based upon total flows to Dover WWTP used in Exb. No. WMT-7.
- (6) Period based upon total flows to Dover Township WWTP.

<b>BOLDED</b>
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WEST MANCHESTER TOWNSHIP

Wastewater Flows from Shiloh Sanitary Sewer System

Average Daily Flows (mgd) / Percent of Plant Flows<sup>(1)</sup>

	2011		2012		2013		2014		2015		2016	
Month												
January	0.623	30%	1.933	30%	<b>1.858</b>	<b>34%</b>	2.517	43%	<b>1.548</b>	<b>37%</b>	1.359	30%
February	1.000	36%	1.205	36%	<b>1.811</b>	<b>35%</b>	<b>3.050</b>	<b>39%</b>	<b>1.296</b>	<b>35%</b>	<b>4.196</b>	<b>37%</b>
March	<b>2.222</b>	<b>46%</b>	1.989	46%	<b>2.139</b>	<b>35%</b>	<b>2.457</b>	<b>35%</b>	<b>2.846</b>	<b>39%</b>	<b>1.603</b>	<b>40%</b>
April	<b>2.493</b>	<b>37%</b>	1.299	37%	1.228	37%	<b>2.691</b>	<b>38%</b>	1.297	37%	<b>1.450</b>	<b>46%</b>
May	<b>1.949</b>	<b>27%</b>	1.051	27%	1.227	35%	2.470	36%	1.108	41%	1.648	37%
June	0.969	34%	1.260	34%	1.244	36%	1.758	40%	2.246	35%	1.129	41%
July	0.874	41%	1.082	41%	1.185	35%	1.028	38%	1.575	38%	0.900	41%
August	1.148	41%	1.364	41%	1.418	32%	1.002	38%	1.477	36%	0.946	41%
September	3.758	32%	<b>1.528</b>	<b>32%</b>	0.871	32%	0.865	38%	1.495	35%	0.880	41%
October	1.883	31%	<b>1.951</b>	<b>31%</b>	2.245	39%	0.963	37%	1.912	39%	0.901	37%
November	1.639	38%	<b>1.630</b>	<b>38%</b>	1.109	35%	1.041	37%	1.297	41%	0.742	38%
December	2.141	37%	1.618	37%	2.800	39%	1.703	38%	1.904	42%	1.110	35%
Annual Average	1.725	36%	1.493	36%	1.595	36%	1.795	38%	1.667	40%	1.405	38%
Highest 3 Consecutive Months Average <sup>(5)</sup>	2.221	37%	1.703	34%	1.936	35%	2.733	37%	1.897	37%	2.416	41%
Total Rainfall (Inches) <sup>(3)</sup>	66.26		46.05		45.81		39.80		44.48		36.65	
Highest 3 Consecutive Months Average <sup>(6)</sup>	2.427	34%	1.733	35%	2.051	38%	2.733	37%	1.897	37%	2.416	41%

SOURCE: Flow meter records published by Dover Township.

NOTES:

- (1) Max Flow 2.3456 MGD - IMA.
- (3) Monthly rainfall data from Dover WWTP (10" snowfall = 1" rainfall) or NOAA.
- (5) Period based upon total flows to Dover WWTP used in Exb. No. WMT-7.
- (6) Period based upon total flows to Dover Township WWTP.

<b>BOLDED</b>
SHADED



**WEST MANCHESTER TOWNSHIP**  
Wastewater Flows from Shiloh Sanitary Sewer System

**Average Daily Flows (mgd) / Percent of Plant Flows<sup>(1)</sup>**

	2017		2018		2019		2020		2021		2022	
Month												
January	1.599	39%	1.590	40%	<b>2.950</b>	<b>37%</b>	<b>2.252</b>	<b>47%</b>	1.682	37%	1.455	37%
February	1.209	33%	<b>3.898</b>	<b>44%</b>	<b>2.719</b>	<b>35%</b>	<b>1.903</b>	<b>44%</b>	2.261	40%	1.775	37%
March	<b>2.331</b>	<b>36%</b>	<b>2.613</b>	<b>45%</b>	<b>3.316</b>	<b>39%</b>	<b>2.001</b>	<b>49%</b>	2.281	39%	<b>1.810</b>	<b>46%</b>
April	<b>2.245</b>	<b>36%</b>	<b>2.733</b>	<b>42%</b>	1.752	37%	2.021	51%	1.665	40%	<b>2.009</b>	<b>44%</b>
May	<b>2.439</b>	<b>53%</b>	2.824	44%	2.788	41%	2.168	51%	1.304	41%	<b>2.093</b>	<b>41%</b>
June	1.443	49%	2.559	37%	1.106	35%	1.519	51%	1.172	40%	1.117	44%
July	1.797	47%	2.302	39%	1.333	38%	1.273	51%	1.273	49%	0.694	32%
August	1.637	44%	2.247	38%	0.908	36%	2.388	56%	<b>2.033</b>	<b>45%</b>	0.639	29%
September	1.587	38%	2.479	32%	0.775	35%	1.047	39%	<b>3.293</b>	<b>36%</b>	0.625	28%
October	1.342	41%	1.251	39%	0.995	39%	1.058	42%	<b>1.185</b>	<b>36%</b>	1.008	37%
November	1.779	45%	4.092	43%	1.347	41%	1.290	41%	1.228	35%	1.050	39%
December	1.240	43%	2.952	38%	2.023	42%	2.119	37%	0.991	38%	1.376	41%
Annual Average	1.721	42%	2.628	40%	1.834	38%	1.753	47%	1.697	40%	1.304	38%
Highest 3 Consecutive Months Average <sup>(5)</sup>	2.338	42%	3.081	44%	2.995	37%	2.052	47%	2.171	39%	1.970	44%
Total Rainfall (Inches) <sup>(3)</sup>	38.62		61.26		44.48		34.80		37.90		36.06	
Highest 3 Consecutive Months Average <sup>(6)</sup>	2.338	42%	3.081	44%	2.995	37%	2.063	51%	2.200	44%	1.970	44%

SOURCE: Flow meter records published by Dover Township.

NOTES:

- (1) Max Flow 2.3456 MGD - IMA.
- (3) Monthly rainfall data from Dover WWTP (10" snowfall = 1" rainfall) or NOAA.
- (5) Period based upon total flows to Dover WWTP used in Exb. No. WMT-7.
- (6) Period based upon total flows to Dover Township WWTP.

<b>BOLDED</b>
SHADED

For the MONTH:

York County

WEST MANCHESTER TOWNSHIP

Incident Date	Incident Time	Duration (hours)	Incident Location	Discharge Location	Name of person responding to incident	Name of person reporting incident	Who at DEP was the incident reported to
5/7/22	7:00AM	4B	SHILOH AREA	MH 285	MATT MILLER DAKOTA JOINS	MATT MILLER	EMERGENCY NUMBER
Cause of Sanitary Sewer Overflow or Backup into building				Measures taken to correct the backup		Cleanup measures enacted	
4.5" OF RAIN				COA being followed for correction		RAKED DEBRIS AND SPREAD LIME	

Incident Date	Incident Time	Duration (hours)	Incident Location	Discharge Location	Name of person responding to incident	Name of person reporting incident	Who at DEP was the incident reported to
Cause of Sanitary Sewer Overflow or Backup into building				Measures taken to correct the backup		Cleanup measures enacted	

Incident Date	Incident Time	Duration (hours)	Incident Location	Discharge Location	Name of person responding to incident	Name of person reporting incident	Who at DEP was the incident reported to
Cause of Sanitary Sewer Overflow or Backup into building				Measures taken to correct the backup		Cleanup measures enacted	

This form must be received at the Department's SCRO no later than the 28th day of the month following the reporting period. Duplicate this form as necessary according to the number of incidents occurring each month.

For the MONTH:

York County

WEST MANCHESTER TOWNSHIP

Incident Date	Incident Time	Duration (hours)	Incident Location	Discharge Location	Name of person responding to incident	Name of person reporting incident	Who at DEP was the incident reported to
5/7/22	7:00 AM	48	SHILOH AREA	MH 418A	MATT MILLER DAKOTA JOINS	MATT MILLER	EMERGENCY NUMBER
Cause of Sanitary Sewer Overflow or Backup into building				Measures taken to correct the backup		Cleanup measures enacted	
4.5" OF RAIN				COA being followed for correction		RAKED DEBRIS AND SPREAD LIME	

Incident Date	Incident Time	Duration (hours)	Incident Location	Discharge Location	Name of person responding to incident	Name of person reporting incident	Who at DEP was the incident reported to
5/7/22	7:00 AM	48	SHILOH AREA	MH 442	MATT MILLER DAKOTA JOINS	MATT MILLER	EMERGENCY NUMBER
Cause of Sanitary Sewer Overflow or Backup into building				Measures taken to correct the backup		Cleanup measures enacted	
4.5" OF RAIN						RAKED DEBRIS AND SPREAD LIME	

Incident Date	Incident Time	Duration (hours)	Incident Location	Discharge Location	Name of person responding to incident	Name of person reporting incident	Who at DEP was the incident reported to
5/7/22	7:00AM	48	SHILOH AREA	MH 473	MATT MILLER DAKOTA JOINS	MATT MILLER	EMERGENCY NUMBER
Cause of Sanitary Sewer Overflow or Backup into building				Measures taken to correct the backup		Cleanup measures enacted	
4.5" OF RAIN						RAKED DEBRIS AND SPREAD LIME	

This form must be received at the Department's SCRO no later than the 28th day of the month following the reporting period. Duplicate this form as necessary according to the number of incidents occurring each month.

# Attachment B



March 29, 2023

**Pennsylvania Department of Environmental Protection**  
**South Central Regional Office**  
909 Elmerton Avenue  
Harrisburg, PA 17110

ATTN: Dharmendra Kumar

**RE: Dover Township/West Manchester Township 2022 Wasteload Management Report  
Corrective Action Plan**

Dear Mr Kumar:

This letter serves as an update to the Corrective Action Plan (CAP) to address continued overflows along the Shiloh Interceptor in West Manchester Township. It is also in response to the request for such an update in your letter of April 25, 2022, to Dover Township regarding their annual Wasteload Management Report for the Dover Wastewater Treatment Facility. West Manchester Township (WMT) and Dawood Engineering, Inc. (Dawood) have prepared this CAP to address continued overflows along the interceptor.

On June 22, 2007, WMT entered into an Amendment to Consent Order and Agreement with the PA DEP for elimination of the hydraulic overload condition of the Shiloh Interceptor. Following is a summary of the consent order and agreement schedule and required actions as amended by PA DEP.

Date	Action Required:	Action: Complete:
10/30/2009	Preliminary Engineering Report	10/30/2009
10/30/2009	Minor Act 537 Plan Update Revision	10/30/2009
05/03/2010	Begin Construction of Approved Facilities	05/03/2010
12/31/2010	Completion of all Construction Required under the COA	01/05/2011
01/31/2011	Completion of Project and Start of Monitoring Period	02/10/2012
TBD	Elimination of Hydraulic Overload & Final Assessment Report	TBD

Overflow events during the period from 2011 to 2023 (as of the date of this letter) are summarized below. Metered flows presented here are average flows measured at the end of the Shiloh Interceptor on the day of the overflow. The rain and snowfall data are records from the Dover WWTP if more local information was not available.

3/11/11	4.86 inches of rainfall, 5.872 MGD metered, Little Conewago Creek flooded submerging interceptor; overflows at Manhole (MH) 398, 430, and 431; constricting pipe capacity of 4.120 MGD at MH 420-128
9/6/11	10.5 inches of rainfall over four days from Tropical Storm Lee highest metered flow of 4.868 MGD, overflows reported at MH 442, 398, 419, 418A, 418B.
9/18/12	3.17 inches of rainfall, Little Conewago Creek flooded submerging interceptor, 3.970 MGD metered, overflow reported at MH 419 (was reported to PADEP but mistakenly left out of the West Manchester Chapter 94 Report)

10/31/12	4.30 inches of rainfall over two days from Hurricane Sandy, overflow reported at MH 398, 4.196 MGD metered flow.
2013	No overflow events observed during 2013.
2/24/14	Fast snow melt with highly saturated ground; 4.22 MGD metered; Little Conewago Creek flooded.
4/30/14	Heavy rainfall (over 4") on saturated ground; 5.35 MGD metered.
2015	No overflow events observed during 2015.
2/4/2016	Moderate rain fall (over 1") concurrent with fast melting of a previous snow accumulation (over 27" of snow); overflows reported at MH 442, 398, 397A, and 430; 5.79 MGD metered.
2/17/2016	Fast snow melt (approximately 10") with highly saturated ground concurrent with moderate rain fall (approximately 1"); overflows reported at 417, 430, and 442; 4.429 MGD metered.
2/25/2016	Moderate rain fall (over 1.5") with highly saturated ground; overflows reported at 417, 430, 442, 398, and 397A; 5.258 MGD metered.
2017	No overflow events observed during 2017.
2018	Heaviest year for rain on record in Pennsylvania; West Manchester experience 200% of its normal rainfall in July, September, and November, and over 150% of its normal rainfall in February, August, and December
7/27/2018	Following several heavy days of rain (totaling 10") and after localized flooding subsided, overflows were reported at MH 285, 286, 398, 418A, 430, 442, and 473; peak metered flow on 7/24 was 6.244 MGD.
8/6/2018	Following several days of rain (totaling over 3") on saturated ground, overflows were reported at MH 285, 286A, 418A, 430, 442, and 473; peak metered flow on 8/4 was 5.985 MGD.
9/10/2018	Following several days of rain (totaling over 4") on recently saturated ground overflows were reported at 285, 286A, 289I, 418A, 430, and 442; 6.178 MGD metered.
2019	No overflow events observed during 2019.
2020	No overflow events observed during 2020.
9/1/2021	8 inches of rainfall from Hurricane Ida caused overflows at MH 69, 430, 210, RH12A, R1, 68, 285, 473, 442, 261, 305, and 286A; 5.994 MGD was metered on 9/2.
5/7/2022	Heavy rainfall (over 4.5"); overflows reported at MH 285, 418A, 442, and 473; 5.721 MGD metered.

The following are steps that have been taken as corrective action to eliminate the overload in the Shiloh Interceptor:

- In September 2011, protruding laterals from reconstruction of interceptor were repaired.
- In 2011, 8 cleanout covers were repaired.
- In July 2012, MH 370 was replaced.
- In November 2012, 1,700 linear feet (LF) of sewer main from MH 382-398, MH 210-209, and MH 477-475 were relined.
- In 2012, 12 cleanout covers were repaired.
- In October 2013, 440 LF of main from MH 256-255 and MH 254-250 on Wilt Drive were replaced.
- In June 2013, watertight frames and covers were placed on the Joint Interceptor.

- In 2013, a multi-year, system-wide program of televisive sewer line inspection was begun. That year WMT inspected 26,073 LF of sewer main and associated manholes.
- In January of 2013, two runs of clay pipe on Wilt Drive totaling 440 feet were found to be collapsed and were subsequently replaced with PVC pipe.
- In June of 2013, MH 783 on Brookmar Drive was found to have settled with pipe deformity. The manhole and pipes were repaired.
- In 2014, 18,101 LF of sewer main and associated manholes were inspected. WMT engaged a contractor to inspect 14,718 of that total.
- In 2014, flow from the neighborhood of North Drive/South Drive/Heather Road/Wilt Drive were metered to isolate inflow and infiltration problem areas.
- In 2014, watertight frames and covers were installed on five manholes in a stream adjacent flood prone area immediately downstream of South Drive.
- In 2014, two leaking laterals in North Drive were repaired.
- In 2014, 4 cleanout covers were repaired.
- In 2014 door-to-door inspections were conducted in the neighborhood of North Drive/Seneca Drive. In that sewershed 300 homes were inspected and 25 homes either refused entry or did not respond to attempts to contact them. Of those inspected 14 homes were identified to have sump pumps or downspouts connected to the sewer. By 2015, these connections were removed and reinspected to verify compliance.
- In 2015, 5,204 LF of sewer main and associated manholes were inspected.
- In 2015, 85 LF of broken and misaligned 8" VCP and two laterals were replaced in Seneca Street.
- From April to June 2015, a sanitary sewer flow metering study in 21 sub-basins was conducted. This represented approximately 75% of the Shiloh sewershed and encompassed roughly 3,050 residential properties. The results were used to guide the televised inspection process.
- In 2015, 17 cleanout covers were repaired.
- In 2016, 32,562 LF of sewer main and associated manholes were inspected.
- In 2016, WMT engaged a contractor to line approximately 3,100 LF of 8" VCP sewer main and grout connect laterals.
- In 2016, 11 cleanout covers were repaired.
- In 2017, 30,267 LF of sewer main and associated manholes were inspected.
- In 2017, 150 LF of cracked/broken and leaking 8" pipe was replaced in Nena Road.
- In 2017, 8 cleanout covers were repaired.
- In 2018, 10,119 LF of sewer main and associated manholes were inspected.
- In 2018, WMT engaged a contractor and repaired or lined approximately 4,300 LF sewer main.
- In 2018, 8 cleanout covers were repaired.
- In 2019, WMT engaged a contractor to inspect 6,160 LF of sewer main and associated manholes.
- In 2019, WMT engaged a contractor and repaired or lined approximately 5,370 LF of sewer main.
- In 2019, 13 cleanout covers were repaired.
- To spite the difficulties introduced by the COVID-19 pandemic, WMT still managed to inspect 2,945 LF of sewer main and associated manholes in 2020.
- In 2020, 8 cleanout covers were repaired.
- In 2021, WMT engaged a contractor to inspect 4,879 LF of sewer main and associated manholes in the area near Hayward Road and Wyndhurst Court.

- In March 2021, Dawood completed a reanalysis of some metering data collected in 2015. The analysis was performed in accordance with Environmental Protection Agency (EPA) guidelines published June 2014. Using average dry weather flow, average nighttime dry flow, and rain data, Dawood estimated infiltration and created wet weather flow graphs showing highest 1-hour flows for 8 of the sub-basins with the strongest relationships between rainfall and metered flow. Smoke testing was recommended for sub-basins 202, 205, and 305.
- In August of 2021, metering flow at the confluence of the conveyance sewers from the Hayward and Gems areas of the Shiloh sewer network began.
- In 2021, 5 cleanout covers were repaired.
- In February 2022, smoke testing of 23,595 LF of sewer main in sub-basins 202, 205, and 305 was conducted. This revealed 76 defects in private cleanouts or vent elements which were likely sources of inflow and needed repair. It also revealed 5 similar defects in the WMT right-of-way, and 4 stormwater catch basins with observed connectivity to the sewer system.
- During 2022, WMT contacted the 76 property owners responsible for correcting the cleanout or vent defects. WMT has confirmed that repairs were completed.
- WMT completed 11 cleanout or other lateral repairs in 2022.
- In 2022, WMT inspected 3,294 LF of sewer main and associated manholes.
- In 2022, Dawood noted that some defects discovered in stormwater pipes between Warwick Rd and Wyndhurst Ct were located near defects in the sewer system. WMT has submitted a grant application for a related stormwater project to repair the stormwater system and protect the sewer infrastructure. WMT has also retained a contractor to line sewer pipes and make other repairs in the area near Hayward Road and Wyndhurst Court.
- In 2022, WMT investigated probable connectivity between 4 stormwater catch basins and the sewer system revealed in the smoke testing. One catch basin and associated pipe was repaired, but the location of the connectivity to the other three could not be determined. The associated sewer mains were scheduled for lining.

The following are steps to be taken as corrective action to eliminate the overflows in the Shiloh Interceptor:

- In 2023, WMT plans to install meters in sub-basins 202, 205, and 305 to determine if the repairs made have resulted in decreased inflow. Meters will also be located in other places to find branches in other sub-basins in need of investigation. WMT will also install level monitors and rain gauges to assist in data analysis.
- In 2023, approximately 2,800 LF of sewer main and 17 associated laterals in the area of Hayward Road and Wyndhurst Court will be lined, 23 manholes will receive watertight covers, 2 manholes will be lined, and one manhole will be curtain grouted.
- In 2023, 5,057 LF of sewer lines connecting the Gems to Shiloh Interceptor, including MH 278A to 473, will be cleaned and televised.
- In 2023, 3,586 LF of sewer lines connecting Hayward to Shiloh Interceptor, including MH 210 to 473, will be cleaned and televised.
- Once the new metering has been conducted for at least one dry and one wet period, Dawood will conduct additional data analysis and provide recommendations for smoke testing. WMT plans to perform smoke testing in hopes of finding more defects or elicit connections of downspouts or yard drains.
- When cost effective staff are available to enter data, Dawood is expanding a GIS database to include pipe inverts and manhole elevation data in case it becomes necessary to model the sewer network.
- Given the scope of repairs and actions by WMT, no permitting through PADEP is expected.



As noted above, WMT has been actively engaged in implementing corrective measures to improve the Shiloh area sewer system in the interest of eliminating overflows on the interceptor and will continue to be active in affecting repairs to lower the amount of infiltration and inflow into the sewer system.

Should you have any questions or concerns with the above-presented Corrective Action Plan, please feel free to call me at 855-432-9663 x1221.

Sincerely,  
Dawood Engineering, Inc.



Rainer A. Niederoest, P.E.

cc: Kelly Kelch, West Manchester Township Manager  
Rich Shaw, West Manchester Township Public Works Director