

Application Type Renewal
 Facility Type Non-Municipal
 Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0032824
 APS ID 978275
 Authorization ID 1247250

Applicant and Facility Information

Applicant Name	<u>PA DOT Bureau of Project Delivery</u>	Facility Name	<u>PA DOT Safety Rest 38</u>
Applicant Address	<u>Bureau of Maintenance & Operations PO Box 3060 Harrisburg, PA 17105-3060</u>	Facility Address	<u>I-80 Westbound Mifflin Twp, PA 17814</u>
Applicant Contact	<u>Nicholaus Sahd</u>	Facility Contact	<u>Theodore Weaver</u>
Applicant Phone	<u>(717) 951-8685</u>	Facility Phone	<u>(570) 752-6712</u>
Client ID	<u>62162</u>	Site ID	<u>263256</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Mifflin Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Columbia</u>
Date Application Received	<u>September 27, 2018</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>October 11, 2018</u>	If No, Reason	<u></u>
Purpose of Application	<u>Application for the renewal of the existing individual NPDES permit.</u>		

Summary of Review

PA DOT Bureau of Project Delivery has submitted an application for the renewal of the existing NPDES Permit PA0032824 for the Department's review. DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Approve	Deny	Signatures	Date
X		Jonathan P. Peterman / Project Manager	October 3, 2019
		Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.013</u>
Latitude	<u>41° 0' 49.76"</u>	Longitude	<u>-76° 15' 8.29"</u>
Quad Name	<u>Mifflinville</u>	Quad Code	<u>1035</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Nescopeck Creek (CWF)</u>	Stream Code	<u>28103</u>
NHD Com ID	<u>65639891</u>	RMI	<u>2.5</u>
Drainage Area	<u>1.07</u>	Yield (cfs/mi ²)	<u>0.0822</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.0879</u>	Q ₇₋₁₀ Basis	<u>Gage No. 1468500</u>
Elevation (ft)	<u>824</u>	Slope (ft/ft)	<u>0.018</u>
Watershed No.	<u>5-D</u>	Chapter 93 Class.	<u>CWF</u>
Existing Use	<u>CWF</u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Impaired.</u>		
Cause(s) of Impairment	<u>Metals, pH.</u>		
Source(s) of Impairment	<u>AMD</u>		
TMDL Status	<u>Final, 09/20/2006</u>	Name	<u>Little Nescopeck Creek</u>
Nearest Downstream Public Water Supply Intake	<u>Danville Municipal Water Authority</u>		
PWS Waters	<u>Susquehanna River</u>	Flow at Intake (cfs)	<u>1511</u>
PWS RMI	<u>138.06</u>	Distance from Outfall (mi)	<u>27.9</u>

Changes Since Last Permit Issuance: In order to determine the Q₇₋₁₀ low flow for UNT to Nescopeck Creek, a comparative stream analysis was previously conducted and the results of which are attached in the Appendix. A comparative stream was determined by using the EcoFlows program. The program indicated that an existing gage on the Wapwallopen Creek had a high correlation (0.911) to UNT to Nescopeck Creek. The analysis indicates that the Q₇₋₁₀ for UNT to Nescopeck Creek is 0.0879 cfs. This estimation of Q₇₋₁₀ seems appropriate given the known size of the receiving stream.

Other Comments: None.

TMDL Impairment

The Department's Geographic Information System (GIS) shows that the UNT to Nescopek Creek is impaired and a TMDL exists for the stream segment for metals due to acid drainage from abandoned coalmines. The TMDL addresses the three primary metals associated with acid mine drainage (iron, manganese, aluminum), and pH. There is no Waste Load Allocation (WLA) for this facility established in the TMDL. A TMDL for aluminum, manganese and acidity at NESCO1 has been calculated. Because water quality standards were met for iron, a TMDL isn't necessary for this segment. In order to ensure that this discharge does not have reasonable potential to cause, or contributes to an in-stream excursion, monitoring for aluminum and manganese was required at a rate of once per year over the previous permit term. The results are as follows:

Aluminum and Manganese – Monitoring Results (2014 to 2018)

Date (Mo.-Yr.)	Total Aluminum		Total Manganese	
	Average Mo. (mg/L)	Daily Max. (mg/L)	Average Mo. (mg/L)	Daily Max. (mg/L)
Jul-18	<0.1	<0.1	<0.01	<0.01
Jun-17	<0.1	<0.1	<0.01	<0.01
Jun-16	<0.1	<0.1	<0.01	<0.01
Jun-15	0.0229	0.0229	<0.01	<0.01
Jun-14	0.0337	0.0337	0.0152	0.0152

The results of this testing indicate that this discharge does not have reasonable potential to cause, or contributes to an in-stream excursion above numerical standards. Therefore, effluent limits and/or further monitoring is not required and will be removed.

Chesapeake Bay Requirements

Since this facility's annual average design flow is 0.013 MGD, the permittee will be required to monitor and report TN and TP throughout the permit term at a frequency no less than annually in accordance with the Phase II WIP Chesapeake Bay Strategy for Phase V facilities (0.002 MGD to 0.2 MGD) unless 1) the facility has already conducted at least two years of nutrient monitoring and 2) a summary of the monitoring results are included in the next permit's fact sheet. The previous permit contained the Chesapeake Bay Monitoring requirements and the required sampling has been conducted. Since the permittee conducted this monitoring in the previous permit term and the data is summarized in the fact sheet below, the conditions have been met and Chesapeake Bay monitoring will no longer be required.

Chesapeake Bay – Monitoring Results (2014 to 2018)

Date (Mo.-Yr.)	Total Nitrogen			Total Phosphorus		
	Total Annual (lbs/yr)	Average Mo. (lbs/day)	Average Mo. (mg/L)	Total Annual (lbs/yr)	Average Mo. (lbs/day)	Average Mo. (mg/L)
Jul-18	<1,252	<111	<103	73	6	6
Jun-17	<1,406	<126.5	<125.5	63	0.2	5.64
Jun-16	<1735	<143	<139.7	73	5	5.04
Jun-15	<2,876	<236	<140.84	177	14.58	8.69
Jun-14	<1,139	<3.12	<85.5	180	0.49	13.5

Anti-Backsliding

In accordance with 40 CFR 122.44(l)(1) and (2), this permit does not contain effluent limitations, standards, or conditions that are less stringent than the previous permit.

Treatment Facility Summary

Treatment Facility Name: PA DOT Safety Rest 38

WQM Permit No.	Issuance Date	Comments
1993401	4/30/1993	Construction of a flow equalization tank.
1972401	2/8/2007	Letter amendment for liquid chlorine injection disinfection.

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Hypochlorite	0.013
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.013	66.7	Not Overloaded	Holding Tank	Landfill

Treatment System Components:

- One (1) Equalization Tank with Manual Screen.
- One (1) Splitter Box.
- Two (2) Aeration Tanks.
- Two (2) Clarifiers.
- Two (2) Sand Filters.
- One (1) Chlorine Disinfection System.
- One (1) Chlorine Contact Tank.
- One (1) Flow Meter.
- One (1) Outfall 001.

- Two (2) Sludge Holding Tanks.

Changes Since Last Permit Issuance: None.

Existing Effluent Limitations and Monitoring Requirements

Existing Limits

Discharge Parameter	Limitations						Monitoring Requirements	
	Mass (lb/day)		Concentration (mg/L)					
	Monthly Average	Daily Maximum	Minimum	Average Monthly	Average Weekly	Instantaneous Maximum	Minimum Frequency	Sample Type
Flow (MGD)	Report						Continuous	Metered
C-BOD ₅				25		50	2/ Month	Grab
TSS				30		60	2/ Month	Grab
TRC				0.9		2.1	1/ Day	Grab
pH (Std. Units)			6.0			9.0	1/ Day	Grab
DO			Report				1/ Day	Grab
NH ₃ -N (5/1 – 10/31)				12		25	2/ Month	Grab
NH ₃ -N (11/1 – 4/30)				25		50	2/ Month	Grab
Fecal Coliforms (5/1-9/30)	200 colonies/100 ml as a geometric mean and not greater than 1,000 colonies/100 ml in more than 10% of the samples tested						2/ Month	Grab
Fecal Coliforms (10/1-4/30)	2,000 colonies/100 ml as a geometric mean							
Total Nitrogen	Report	Report		Report			1/year	Grab
Total Phosphorus	Report	Report		Report			1/year	Grab

Total Aluminum				Report	Report		1/year	Grab
Total Manganese				Report	Report		1/year	Grab

*The existing effluent limits for Outfall 001 were based on a design flow of 0.013 MGD.

Development of Effluent Limitations

Outfall No.	001	Design Flow (MGD)	0.013
Latitude	41° 0' 53.00"	Longitude	76° 15' 8.00"
Wastewater Description: Sewage Effluent			

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD ₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Water Quality-Based Limitations

To establish whether or not water-quality based effluent limitations (WQBELs) are required, the Department models in-stream conditions. In order to determine limitations for CBOD₅, ammonia-N and dissolved oxygen, the Department utilizes the WQM 7.0 v1.0b model and in order to determine limitations for toxics, the Department utilizes the PENTOXSD v2.0d model.

WQM 7.0 for Windows, Version 1.0b, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen

Since there have been no changes to the watershed or the facility, the previous modeling results shall be utilized. The model was previously run using the Q7-10 stream flow, background water quality, average annual design flow, and other discharge characteristics. The previously existing technology-based effluent limits for CBOD₅ (25 mg/l) and NH₃-N (17 mg/l; existing limit) were used as inputs for the modeling. The DO minimum daily average criterion from §93.7 (6.0 mg/L for CWF) was used for the in-stream objective for the model. The summary of the output is as follows:

Parameter	Effluent Limit		
	30 Day Average	Maximum	Minimum
CBOD ₅	25	N/A	N/A
Ammonia-N	12.88	25.76	N/A
Dissolved Oxygen	N/A	N/A	3

The previous model did not recommend water-quality based effluent limitations with regards to CBOD₅ and dissolved oxygen. Refer to the Appendix for the WQM 7.0 inputs and results. However, the model did recommend more stringent water quality-based effluent limits for ammonia-nitrogen as shown above. These effluent limits were previously implemented and will remain. Refer to Appendix B for the WQM 7.0 inputs and results.

Comments: None.

PENTOXSD v2.0d model / Reasonable Potential Analysis

A “Reasonable Potential Analysis” and PENTOXSD v2.0d modeling were not utilized in this review.

Best Professional Judgment (BPJ) Limitations

See Dissolved Oxygen section below.

Additional Considerations

None

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst the abovementioned technology, water quality, and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the “NPDES Permit Writer’s Manual” (362-0400-001) and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date

Discharge Parameter	Limitations							Monitoring Requirements	
	Mass (lb/day)		Concentration (mg/L)						
	Monthly Average	Daily Maximum	Minimum	Average Monthly	Average Weekly	Instantaneous Maximum	Minimum Frequency	Sample Type	
Flow (MGD)	Report							Continuous	Meter
C-BOD ₅				25		50		2/ Month	Grab
TSS				30		60		2/ Month	Grab
TRC				0.5		1.6		1/ Day	Grab
NH ₃ -N (5/1-9/30)				12.0		25.0		2/ Month	Grab
NH ₃ -N (10/1-4/30)				25.0		50.0		2/ Month	Grab
D.O.				Report				1/ Day	Grab
pH (Std. Units)			6.0			9.0		1/ Day	Grab
Fecal Coliforms (5/1-9/30)	200 colonies/100 ml as a geometric mean					1,000		2/ Month	Grab
Fecal Coliforms (10/1-4/30)	2,000 colonies/100 ml as a geometric mean					10,000			

*The proposed effluent limits for Outfall 001 were based on a design flow of 0.013 MGD.

Flow

The existing monitoring frequency (Continuous) and sample type (Meter) for Flow correspond with the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001) Table 6-3.

Carbonaceous Biochemical Oxygen Demand (CBOD₅)

The results of the WQM 7.0 model showed that the previously applied secondary treatment standards (25 PA Code §92a.47 (a) (1&2)) for CBOD₅ were protective of water quality. The existing monitoring frequency (2/ Month) and sample type (Grab) for CBOD₅ correspond with the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001) Table 6-3 and will remain.

Total Suspended Solids (TSS)

The previously applied technology based secondary treatment standards (25 PA Code §92a.47 (a) (1&2)) for TSS will remain as well. The existing monitoring frequency (2/ Month) and sample type (Grab) for TSS correspond with the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001) Table 6-3 and will remain.

pH

CFR Title 40 §133.102(c) and 25 PA Code §95.2(1) provide the basis of effluent limitations for pH. The existing monitoring sample type (Grab) and monitoring frequency of (1/ Day) for pH corresponds with the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001) Table 6-3 and will remain.

Fecal Coliforms

The existing fecal coliform limits with I-max limits were updated from the previous Chapter 92 code to correspond with what is specified in the updated 25 PA Code § 92a.47 (a)(4)&(5). The existing monitoring frequency (2/ Month) and sample type (Grab) for Fecal Coliforms correspond with the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001) Table 6-3 and will remain.

Total Residual Chlorine (TRC)

In accordance with 25 Pa. Code 92a.48(b)(2), a best available technology (BAT) value of 0.5 mg/l was used in lieu of the existing effluent limit (0.9 mg/L) in the TRC Spreadsheet. The attached TRC model indicates that the technology based effluent limit of 0.5 mg/L (Average Monthly) and 1.6 mg/L (Instantaneous Maximum) are protective of water quality. The facility currently utilizes tablet chlorination as a disinfection method. It has been proven that this method, if operated properly and maintained, can effectively and consistently meet these effluent requirements. The existing sample type (grab) and monitoring frequency of (1/ Day) for TRC correspond with the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001) Table 6-3 and will remain.

As stated above, 25 PA Code § 92a.48(b)(2) provides a BAT limit of 0.5 mg/L unless a site-specific study has been conducted. Given that a site-specific TRC study has not been provided for this facility, the BAT limit will be established. Historical DMR data provided from the previous year was reviewed to determine if the facility will require a compliance schedule to comply with the proposed effluent limits. The DMR results are listed in the compliance review below. Based on the data, it appears that the facility cannot currently meet the proposed TRC effluent limits (0.50 mg/L and 1.6 mg/l) on a majority basis. Therefore, the permit will require a 2-year compliance schedule in order for the facility to comply with the decreased limits.

Ammonia-Nitrogen (NH3-N)

The previous WQM 7.0 model indicated that the existing technology-based limits for ammonia were not sufficient and a more stringent water quality-based limit was required. These limits were assigned in accordance with the *Implementation Guidance of Section 93.7 Ammonia Criteria* (391-2000-013) which states that a multiplier of 2.0 times the average monthly concentration limit (12.88 mg/L) was used to establish the I-max concentration limit (25.76 mg/L). These limits were then rounded down to the nearest 1.0 (12.0 and 25.0) in accordance with the rounding rules established in the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001), Chapter 5 - Specifying Effluent Limitations in NPDES Permits. The Implementation Guidance also states that the winter seasonal limits shall be 3.0 times the summer limits. Given that the previously assigned winter limits will be higher than conventional influent levels, a BPJ value of 25.0 mg/l and 50 mg/l were assigned. Since there have been no changes to the watershed or the facility, the previous modeling results shall be utilized, and the existing effluent limits will remain. The existing monitoring frequency (2/ Month) and sample type (Grab) for NH3-N correspond with the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001) Table 6-3 and will remain.

Dissolved Oxygen (DO)

Given results of the WQM 7.0 model, a discharge of effluent from this facility with a DO concentration of 3 mg/l would not result in an exceedance of water quality requirements for this stream. It is anticipated, based on similar technology, that the DO concentration in the effluent would be greater than 3.0 mg/l. Therefore, based on BPJ, only monitoring will be required for this facility. A sample type (Grab) and monitoring frequency (1/ Day) for DO corresponds with the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001) Table 6-3 and will remain.

Other Comments: None.

Compliance History

Summary of Inspections -The last inspection of the facility was conducted on 6/13/19 by the Department. This inspection revealed no issues with the facility.

WMS Query Summary - A WMS Query was run at *Reports - Violations & Enforcements – Open Violations for Client Report* to determine whether there are any unresolved violations associated with the client that will affect issuance of the permit (per CSL Section 609). This query revealed no open violations.

eDMRs Summary - Upon review of the eDMR results the facility has been operating within the required effluent limits.

Attachments



Appendices

Compliance History

DMR Data for Outfall 001 (from August 1, 2018 to July 31, 2019)

Parameter	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18	SEP-18	AUG-18
Flow (MGD)	0.00764				0.00403	0.00341	0.00385	0.00536	0.00646		0.00706	0.00835
Average Monthly	0	0.00688	0.00665	0.00502	0	0	0	0	0	0.00634	0	0
pH (S.U.)												
Minimum	6.9	7.0	7.0	7.0	7.0	7.0	7.1	7.0	6.8	7.0	6.8	7.0
Maximum	1.36	7.5	7.6	7.7	7.6	7.5	7.7	7.7	7.7	7.6	8.0	8.0
DO (mg/L)												
Minimum	5.0	5.0	6.0	6	6.0	6.0	7	6.0	5.0	6.0	6.0	6.0
TRC (mg/L)												
Average Monthly	0.7	0.7	0.6	0.6	0.7	0.6	0.5	0.62	0.79	0.6	0.64	0.63
TRC (mg/L)												
Instantaneous												
Maximum	1.36	1.07	1.0	1.05	1.0	1.0	1.1	1.24	1.6	1.23	1.48	1.15
CBOD5 (mg/L)												
Average Monthly	< 3	< 3	< 3	< 3.0	< 3.0	< 3.0	< 3.0	< 3	< 3	< 3.0	< 3.0	< 3
CBOD5 (mg/L)												
Instantaneous												
Maximum	< 3	< 3	< 3	< 3.0	< 3.0	< 3.0	< 3.0	< 3	< 3	< 3.0	< 3.0	< 3
TSS (mg/L)												
Average Monthly	< 2	3	< 1.0	< 2	< 2.0	2.0	< 4	< 1	< 1.6	< 2.4	< 3.8	< 1.2
TSS (mg/L)												
Instantaneous												
Maximum	3.2	3.2	< 1.6	< 1.6	2.0	1.8	6.2	1.2	1.6	3.2	6	1.6
Fecal Coliform (CFU/100 ml)												
Geometric Mean	< 1	< 0.1	< 6	< 1.0	< 1	< 1.0	< 2	< 2	< 1	< 1	3	< 1
Fecal Coliform (CFU/100 ml)												
Instantaneous												
Maximum	< 1	< 0.1	33.6	8.5	< 1	< 1.0	4.1	3.1	1	1	8.6	2
Total Nitrogen (lbs/day)												
Average Monthly								< 111				
Total Nitrogen (mg/L)												
Average Monthly								< 103				
Total Nitrogen (lbs)												
Total Annual								< 1252				

**NPDES Permit Fact Sheet
PA DOT Safety Rest 38**

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Ammonia (mg/L) Average Monthly	< 0.1	< 4.227	< 0.1	< 7.9	< 1.474	< 0.1	< 0.446	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Ammonia (mg/L) Instantaneous Maximum	< 0.1	8.353	0.1	15.2	2.848	< 0.1	0.792	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total Phosphorus (lbs/day) Average Monthly								6				
Total Phosphorus (mg/L) Average Monthly								6				
Total Phosphorus (lbs) Total Annual								73				
Total Aluminum (mg/L) Average Monthly								< 0.1				
Total Aluminum (mg/L) Daily Maximum								< 0.1				
Total Manganese (mg/L) Average Monthly								< 0.01				
Total Manganese (mg/L) Daily Maximum								< 0.01				

Tools and References Used to Develop Permit	
<input checked="" type="checkbox"/>	Q7-10 Analysis and Stream Data (see Appendix A)
<input checked="" type="checkbox"/>	WQM 7.0 Model Input/Output (see Appendix B)
<input type="checkbox"/>	Toxics Screening Analysis v2.4 (see Appendix)
<input type="checkbox"/>	PENTOXSD v2.0d Model Input/Output (see Appendix)
<input checked="" type="checkbox"/>	Facility Map and Schematic (see Appendix D)
<input checked="" type="checkbox"/>	TRC Evaluation Spreadsheet (see Appendix C)
<input type="checkbox"/>	Lake Model Output (see Appendix)
<input type="checkbox"/>	WETT Spreadsheet (see Appendix)
<input checked="" type="checkbox"/>	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
<input checked="" type="checkbox"/>	Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98.
<input type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 385-2000-011, 9/08.
<input type="checkbox"/>	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
<input type="checkbox"/>	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 391-2000-002, 4/97.
<input checked="" type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
<input type="checkbox"/>	Implementation Guidance Design Conditions, 391-2000-006, 9/97.
<input checked="" type="checkbox"/>	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 391-2000-007, 6/2004.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997.
<input type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004.
<input checked="" type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008.
<input checked="" type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 391-2000-015, 11/1994.
<input type="checkbox"/>	Implementation Guidance for Temperature Criteria, 391-2000-017, 4/09.
<input type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 391-2000-018, 10/97.
<input type="checkbox"/>	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 391-2000-019, 10/97.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 391-2000-021, 3/99.
<input type="checkbox"/>	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 391-2000-022, 3/1999.
<input checked="" type="checkbox"/>	Design Stream Flows, 391-2000-023, 9/98.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 391-2000-024, 10/98.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 391-3200-013, 6/97.
<input checked="" type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input checked="" type="checkbox"/>	SOP: New and Reissuance Sewage Individual NPDES Permit Applications - Version 1.8 – 10/11/13
<input checked="" type="checkbox"/>	SOP: Establishing Effluent Limitations for Individual Sewage Permits– Version 1.5 - 8/23/13
<input type="checkbox"/>	Other: