

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0032816
 APS ID 978272
 Authorization ID 1247244

Applicant and Facility Information

| | | | |
|---------------------------|---------------------------------------------------------------------------------------------|------------------|------------------------------------------------|
| Applicant Name | <u>PA DOT Bureau of Project Delivery</u> | Facility Name | <u>PA DOT I 80 Rest Area 33 34 STP</u> |
| Applicant Address | <u>Bureau of Maintenance & Operations PO Box 3060 Harrisburg, PA 17105-3060</u> | Facility Address | <u>Rest Area # 33 Lock Haven, PA 17745</u> |
| Applicant Contact | <u>Nicholaus Sahd</u> | Facility Contact | <u>Jonathan Boop</u> |
| Applicant Phone | <u>(717) 951-8685</u> | Facility Phone | <u>(570) 726-2200</u> |
| Client ID | <u>62162</u> | Site ID | <u>261905</u> |
| Ch 94 Load Status | <u>Not Overloaded</u> | Municipality | <u>Greene Township</u> |
| Connection Status | <u>No Limitations</u> | County | <u>Clinton</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 PA0032816 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 9, 2019 |
| | | Nicholas W. Hartranft, P.E. / Environmental Engineer Manager | |

| Discharge, Receiving Waters and Water Supply Information | | | |
|----------------------------------------------------------|------------------------------|------------------------------|------------------|
| Outfall No. | 001 | Design Flow (MGD) | 0.032 |
| Latitude | 41° 3' 0.06" | Longitude | -77° 9' 23.00" |
| Quad Name | Carroll | Quad Code | 1028 |
| Wastewater Description: Sewage Effluent | | | |
| Receiving Waters | Fishing Creek (HQ-CWF) | Stream Code | 22416 |
| NHD Com ID | 67175460 | RMI | 40.7 |
| Drainage Area | 2.94 | Yield (cfs/mi ²) | 0.1017 |
| Q ₇₋₁₀ Flow (cfs) | 0.3 | Q ₇₋₁₀ Basis | Gage No. 1551500 |
| Elevation (ft) | 1,398 | Slope (ft/ft) | |
| Watershed No. | 9-C | Chapter 93 Class. | HQ-CWF |
| Existing Use | HQ-CWF | Existing Use Qualifier | N/A |
| Exceptions to Use | None. | Exceptions to Criteria | None. |
| Assessment Status | Attaining Use(s) | | |
| Cause(s) of Impairment | N/A | | |
| Source(s) of Impairment | N/A | | |
| TMDL Status | N/A | Name | N/A |
| Nearest Downstream Public Water Supply Intake | PA American Water White Deer | | |
| | West Branch of Susquehanna | | |
| PWS Waters | River | Flow at Intake (cfs) | 682 |
| PWS RMI | 10.5 | Distance from Outfall (mi) | 105 |

Changes Since Last Permit Issuance: In order to determine the Q₇₋₁₀ low flow for Fishing 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 a downstream stream gage (1551500) on the West Branch of the Susquehanna River. The analysis indicates that the Q₇₋₁₀ for Fishing Creek is 0.3 cfs. This estimation of Q₇₋₁₀ seems appropriate given the known size of the receiving stream and is consistent with a previous Q₇₋₁₀ determination (0.33 cfs).

Other Comments: None.

TMDL Impairment

The Department's Geographic Information System (GIS) shows that Fishing Creek is not impaired and a TMDL doesn't exist for the stream segment. No further review is required.

Chesapeake Bay Requirements

Since this facility's annual average design flow is 0.032 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. However, due to the inconsistencies in the sampling location (Refer to the compliance history section below), this sampling will remain for an additional permit term.

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 - Rest Area 33 & 34 - I-80

| WQM Permit No. | Issuance Date | Comments |
|----------------|---------------|-----------------------------|
| 1872402 | 5/2/72 | Initial construction. |
| 1884404 | 11/28/84 | Modifications including EQ. |

| Waste Type | Degree of Treatment | Process Type | Disinfection | Avg Annual Flow (MGD) |
|--------------------------|----------------------------|---------------------------------------|------------------------------|------------------------|
| Sewage | Tertiary | Extended Aeration With Solids Removal | Chlorine With Dechlorination | 0.032 |
| Hydraulic Capacity (MGD) | Organic Capacity (lbs/day) | Load Status | Biosolids Treatment | Biosolids Use/Disposal |
| 0.032 | - | Not Overloaded | - | Other WWTP |

Treatment System Components:

- One (1) Influent Trash Rack.
- One (1) Influent Equalization Tank.
- Two (2) Raw Sewage Pumps Tanks.
- One (1) Distribution Box with Manual Bar Screen.
- One (1) Sodium Hydroxide Chemical Feed System.
- Two (2) Aeration Tanks.
- Two (2) Clarifiers.
- One (1) Post Aeration Tank.
- One (1) Polishing Clarifiers.
- Two (2) Tertiary Sand Filters.
- One (1) Chlorine Disinfection System.
- One (1) Chlorine Contact Tank.
- One (1) Erosion Dechlorinator.
- One (1) Outfall 001.

- One (1) Aerobic Digestor.

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) | | | | Minimum Frequency | Sample Type | |
| | Monthly Average | Daily Maximum | Minimum | Average Monthly | Average Weekly | Instantaneous Maximum | | | |
| Flow (MGD) | Report | | | | | | Continuous | Weir | |
| C-BOD ₅ | | | | 10 | | 20 | 2/ Month | Grab | |
| TSS | | | | 10 | | 20 | 2/ Month | Grab | |
| TRC | | | | Report Daily Max. | | 0.05 | 5/ Week | Grab | |
| pH (Std. Units) | | | 6.0 | | | 9.0 | 5/ Week | Grab | |
| NH ₃ -N (5/1 – 10/31) | | | | 3 | | 6 | 2/ Month | Grab | |
| NH ₃ -N (11/1 – 4/30) | | | | 9 | | 18 | 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 Total Annual | | | | Report | 1/year | Grab | |
| Total Phosphorus | | Report Total Annual | | | | Report | 1/year | Grab | |

*The existing effluent limits for Outfall 001 were based on a design flow of 0.032 MGD.

Development of Effluent Limitations

| | |
|------------------------------------------------|---------------------------------|
| Outfall No. 001 | Design Flow (MGD) 0.032 |
| Latitude 41° 3' 0.00" | Longitude -77° 9' 23.00" |
| 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

The model was run using the Q7-10 stream flow, background water quality, average annual design flow, and other discharge characteristics. The previously existing technology-based effluent limit for CBOD₅ (10 mg/l) and existing water quality-based effluent limits NH₃-N (3 mg/l) 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 |
| CBOD5 | 10 | N/A | N/A |
| Ammonia-N | 3 | 6 | N/A |
| Dissolved Oxygen | N/A | N/A | 3 |

The model does not recommend more stringent water-quality based effluent limitations with regards to CBOD5 and dissolved oxygen, and ammonia-nitrogen. Refer to Appendix B for the WQM 7.0 inputs and results.

Comments: None.

PENTOXSD v2.0d model / Reasonable Potential Analysis

“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 | | | | | | | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|-----------------|-----------------------|-----------------------|-------------------------|-------------|
| | Mass (lb/day) | | Concentration (mg/L) | | | | Monitoring Requirements | |
| | Monthly Average | Daily Maximum | Minimum | Average Monthly | Average Weekly | Instantaneous Maximum | Minimum Frequency | Sample Type |
| Flow (MGD) | Report | | | | | | Continuous | Weir |
| C-BOD ₅ | | | | 10 | | 20 | 2/ Month | Grab |
| TSS | | | | 10 | | 20 | 2/ Month | Grab |
| TRC | | | | 0.02 | | | 1/ Day | Grab |
| pH (Std. Units) | | | 6.0 | | | 9.0 | 1/ Day | Grab |
| DO | | | Report | | | | 1/ Day | |
| NH ₃ -N (5/1 – 10/31) | | | | 3 | | 6 | 2/ Month | Grab |
| NH ₃ -N (11/1 – 4/30) | | | | 9 | | 18 | 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 Annual Average | Report Total Annual | | | Report Annual Average | | 1/year | Grab |
| Total Phosphorus | Report Annual Average | Report Total Annual | | | Report Annual Average | | 1/year | Grab |

*The proposed effluent limits for Outfall 001 were based on a design flow of 0.032 MGD.

Flow

The existing monitoring frequency (Continuous) and sample type (Weir) 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 advanced treatment requirements for CBOD₅ were protective of water quality and will remain.

Total Suspended Solids (TSS)

The previously applied advanced treatment requirements for TSS will remain as well.

pH

CFR Title 40 §133.102(c) and 25 PA Code §95.2(1) provide the basis of effluent limitations for pH.

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).

Total Residual Chlorine (TRC)

Under the authority of 25 Pa. Code § 93.4c, the use of chlorine for disinfection will generally not be authorized special protection watersheds. Given that the use of chlorine is approved, the average monthly effluent limitation will be set to 0.02 mg/l (“non-detect”) and the associated Part C language will be used. The previous permit established an IMAX non-detect limit of 0.05 mg/l. However, current policy dictates that the average monthly MDL in NPDES permits for TRC should be specified as 0.02 mg/L, which is believed to be reasonable for standardized TRC methods. The permittee is not authorized to discharge chlorine in detectable quantities, therefore, no compliance schedule is required.

Part C 120 “All permits with average monthly TRC limits < 0.02 mg/L” will be placed in the draft permit.

Ammonia-Nitrogen (NH3-N)

The WQM 7.0 model indicated that the existing water quality-based limits for ammonia were adequate. These limits were previously 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 (3 mg/L) was used to establish the I-max concentration limit (6 mg/L). These limits were then rounded down to the nearest 1.0 (3.0 and 6.0) 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. The existing effluent limits 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, 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.

Sample Types and Monitoring Frequencies

The existing monitoring frequencies and sample types for all parameters correspond with the *Technical Guidance for the Development and Specification of Effluent Limitations* (362-0400-001) Table 6-3. The existing monitoring frequencies (5/ Week) for TRC and pH do not correspond with this guidance and current policies/practices for facilities of this size and type, therefore a monitoring frequency of (1/ Day) will now be required. DO will also be monitored on a daily basis.

Other Comments: None.

Compliance History

Summary of Inspections -The last inspection of the facility was conducted by the Department on 6/5/19. This inspection revealed that the permittee has been sampling from a stormwater pipe in lieu of the proper outfall location. As a result, the permittee was issued an NOV on 7/3/19 for this issue and the permittee is now collecting samples from the proper outfall location.

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 had exceedances of their effluent limits which are listed below.

Attachments



Appendices

Compliance History

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

| Parameter | AUG-19 | JUL-19 | JUN-19 | MAY-19 | APR-19 | MAR-19 | FEB-19 | JAN-19 | DEC-18 | NOV-18 | OCT-18 | SEP-18 |
|------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Flow (MGD) Daily Maximum | 0.0094 | 0.0117 | 0.0081 | 0.0095 | 0.005 | 0.0045 | 0.0067 | 0.0059 | 0.010 | 0.0154 | 0.0077 | 0.0062 |
| pH (S.U.) Minimum | 6.25 | 6.66 | 7.08 | E | E | E | E | E | E | E | E | E |
| pH (S.U.) Instantaneous Maximum | 7.6 | 7.89 | 7.73 | E | E | E | E | E | E | E | E | E |
| TRC (mg/L) Daily Maximum | 0.05 | 0.05 | 0.05 | E | E | E | E | E | E | E | E | E |
| TRC (mg/L) Instantaneous Maximum | 0.05 | 0.05 | 0.05 | E | E | E | E | E | E | E | E | E |
| CBOD5 (mg/L) Average Monthly | 9 | < 2 | 7 | E | E | E | E | E | E | E | E | E |
| CBOD5 (mg/L) Instantaneous Maximum | 11.2 | < 2.2 | 7.2 | E | E | E | E | E | E | E | E | E |
| TSS (mg/L) Average Monthly | 7 | < 4 | 7 | E | E | E | E | E | E | E | E | E |
| TSS (mg/L) Instantaneous Maximum | 10.4 | < 4 | 10 | E | E | E | E | E | E | E | E | E |
| Fecal Coliform (CFU/100 ml) Geometric Mean | 5 | 602 | 35 | E | E | E | E | E | E | E | E | E |
| Fecal Coliform (CFU/100 ml) Instantaneous Maximum | 12.4 | 2419.6 | 46.5 | E | E | E | E | E | E | E | E | E |
| Total Nitrogen (lbs/year) Total Annual | | | | | | | | | E | | | |
| Total Nitrogen (mg/L) Instantaneous Maximum | | | | | | | | | E | | | |
| Ammonia (mg/L) Average Monthly | < 3 | < 0.1 | < 0.01 | E | E | E | E | E | E | E | E | E |

**NPDES Permit Fact Sheet
PA DOT I 80 Rest Area 33 34 STP**

NPDES Permit No. PA0032816

| | | | | | | | | | | | | |
|--------------------------------------------------------|-------|-------|--------|---|---|---|---|---|---|---|---|---|
| Ammonia (mg/L) Instantaneous Maximum | 6.163 | < 0.1 | < 0.01 | E | E | E | E | E | E | E | E | E |
| Total Phosphorus (lbs/year) Total Annual | | | | | | | | | E | | | |
| Total Phosphorus (mg/L) Instantaneous Maximum | | | | | | | | | E | | | |

Compliance History

Effluent Violations for Outfall 001, from: October 1, 2018 To: August 31, 2019

| Parameter | Date | SBC | DMR Value | Units | Limit Value | Units |
|----------------|----------|----------|-----------|------------|-------------|------------|
| Fecal Coliform | 07/31/19 | Geo Mean | 602 | CFU/100 ml | 200 | CFU/100 ml |
| Fecal Coliform | 07/31/19 | IMAX | 2419.6 | CFU/100 ml | 1000 | CFU/100 ml |
| Ammonia | 08/31/19 | IMAX | 6.163 | mg/L | 6 | mg/L |

| 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 () |
| <input type="checkbox"/> | PENTOXSD v2.0d Model Input/Output () |
| <input checked="" type="checkbox"/> | Facility Map and Schematic (see Appendix C) |
| <input type="checkbox"/> | TRC Evaluation Spreadsheet () |
| <input type="checkbox"/> | Lake Model Output () |
| <input type="checkbox"/> | WETT Spreadsheet () |
| <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: |