STATE OF MAINE -
DEPARTMENT OF -
ENVIRONMENTAL PROTECTION -

PAUL R. LEPAGE -
GOVERNOR -

PAUL MERCER
COMMISSIONER

March 15, 2017

Mr. Paul H. Morin
Sabattus Sanitary District
P.O. Box 310
Sabattus, ME. 04280
ssdp@roadrunner.com

***Sent via electronic mail***
***Delivery confirmation requested***

***RE:*** *Maine Pollutant Discharge Elimination System (MEPDES) Permit #ME0101842*
*Maine Waste Discharge License (WDL) Application #W002624-6C-K-M*
***Proposed Draft MEPDES Permit - MODIFICATION***

Dear Mr. Morin:

Attached is a proposed draft MEPDES permit modification and Maine WDL which the Department proposes to issue for your facility as a final document after opportunity for your review and comment. By transmittal of this letter, you are provided with an opportunity to comment on the proposed draft permit modification and its special and standard conditions. If it contains errors or does not accurately reflect present or proposed conditions, please respond to this Department so that changes can be considered.

By copy of this letter, the Department is requesting comments on the proposed draft permit modification from various state and federal agencies and from any other parties who have notified the Department of their interest in this matter.

The comment period begins on March 15, 2017 and ends on April 14, 2017. All comments on the proposed draft permit must be received in the Department of Environmental Protection office on or before the close of business Friday, April 14, 2017. Failure to submit comments in a timely fashion will result in the proposed draft/license permit document being issued as drafted.

Comments in writing should be submitted to my attention at the following address:

Maine Department of Environmental Protection
Bureau of Water Quality
Division of Water Quality Management
17 State House Station
Augusta, ME 04333-0017
Cindy.L.Dionne@maine.gov

If you have any questions regarding the matter, please feel free to contact me.

Sincerely,

Cindy L. Dionne
Division of Water Quality Management
Bureau of Water Quality
ph: 207-557-5950

Enc.

ec: Barry Mower, DEP
Pamela Parker, DEP
Denise Behr, DEP
Lori Mitchell, DEP
Sean Mahoney, CLF
Environmental Review, DMR
David Webster, USEPA
David Pincumbe, USEPA
Alex Rosenberg, USEPA
Olga Vergara, USEPA
Marelyn Vega, USEPA
Richard Carvalho, USEPA
Environmental Review, IFW

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
17 STATE HOUSE STATION AUGUSTA, MAINE 04333-0017

DEPARTMENT ORDER

**IN THE MATTER OF**

| | | |
|---|---|---|
| SABATTUS SANITARY DISTRICT | ) | MAINE POLLUTANT DISCHARGE |
| PUBLICLY OWNED TREATMENT WORKS | ) | ELIMINATION SYSTEM PERMIT |
| SABATTUS, ANDROSCOGGIN COUNTY, MAINE | ) | AND |
| ME0101842 | ) | WASTE DISCHARGE LICENSE |
| W002624-6C-K-M **APPROVAL** | ) | **MODIFICATION** |

In compliance with the applicable provisions of *Pollution Control*, 38 M.R.S. §§ 411 – 424-B, *Water Classification Program*, 38 M.R.S. §§ 464 – 470 and *Federal Water Pollution Control Act*, Title 33 U.S.C. § 1251, and applicable rules of the Department of Environmental Protection (Department), the Department has considered a request and application of the Sabattus Sanitary District (District) to modify combination Maine Pollutant Discharge Elimination System (MEPDES) permit #ME0101842 / Maine Waste Discharge License (WDL) #W002624-6C-J-R (permit) issued by the Department on November 16, 2016 for a five-year term. With its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

## MODIFICATION REQUEST

On January 30, 2017, the Department accepted as complete for processing an application from the District for a modification of the 11/16/16 combination WDL # W002624-6C-J-R / MEPDES permit # ME0101842. The 1/30/17 modification request is due to new information in regards to the flow of the receiving water (Sabattus River) based on flow and dam records provided by the District.

## PERMIT SUMMARY

This permitting action is carrying forward all the terms and conditions of the previous permitting action with the following exceptions as this modification;

1. Amends Footnote #8 under Special Conditions A. *Effluent Limitations and Monitoring Requirements* in the Permit, to reflect the updated flow of the receiving water and subsequent dilution factor;

2. Eliminates the monthly average numeric limit for total lead based on an updated statistical evaluation of chemical-specific test results;

**PERMIT SUMMARY (cont'd)**

3. Amends Screening and Surveillance level whole effluent toxicity (WET) and analytical chemistry testing measurement frequencies to reflect Level II testing;

4. Adjusts the daily maximum total residual chlorine (TRC) limit based on updated dilution factors; and

5. Adjusts the monthly average total phosphorus effluent limit based on updated chronic river flow data.

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**CONCLUSIONS**

BASED on the findings in the attached and incorporated Fact Sheet dated March 15, 2017, and subject to the Conditions listed below, the Department makes the following CONCLUSIONS:

1. The discharge, either by itself or in combination with other discharges, will not lower the quality of any classified body of water below such classification.

2. The discharge, either by itself or in combination with other discharges, will not lower the quality of any unclassified body of water below the classification which the Department expects to adopt in accordance with State law.

3. The provisions of the State's antidegradation policy, *Classification of Maine waters,* 38 M.R.S. § 464(4)(F), will be met, in that:

   (a) Existing in-stream water uses and the level of water quality necessary to protect and maintain those existing uses will be maintained and protected;

   (b) Where high quality waters of the State constitute an outstanding national resource, that water quality will be maintained and protected;

   (c) Where the standards of classification of the receiving waterbody are not met, the discharge will not cause or contribute to the failure of the waterbody to meet the standards of classification;

   (d) Where the actual quality of any classified receiving waterbody exceeds the minimum standards of the next highest classification that higher water quality will be maintained and protected; and

   (e) Where a discharge will result in lowering the existing water quality of any waterbody, the Department has made the finding, following opportunity for public participation, that this action is necessary to achieve important economic or social benefits to the State.

4. The discharge will be subject to effluent limitations that require application of best practicable treatment as defined in *Conditions of licenses,* 38 M.R.S. § 414-A(1)(D).

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**ACTION**

THEREFORE, the Department APPROVES the above noted request by SABATTUS SANITARY DISTRICT to modify combination MEPDES permit #ME0101842/WDL#002624-6C-J-R issued by the Department on November 16, 2016, for a five-year term until a permit renewal is issued by the Department, SUBJECT TO ALL APPLICABLE STANDARDS AND REGULATIONS AND THE FOLLOWING CONDITIONS:

1. "*Maine Pollutant Discharge Elimination System Permit Standard Conditions Applicable to All Permits*," revised July 1, 2002, copy attached.

2. The attached Special Conditions, including any effluent limitations and monitoring requirements.

3. All terms and conditions of MEPDES permit #ME0101842/WDL #W002624-6C-J-R, issued by the Department on November 16, 2016, not modified by this permitting action remain in effect and enforceable.

4. This permit modification becomes effective upon the date of the signature below.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

DONE AND DATED AT AUGUSTA, MAINE, THIS ____ DAY OF _____2017.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY:_____
PAUL MERCER, Commissioner

Date of initial receipt of application January 30, 2017
Date of application acceptance January 30, 2017

Date filed with Board of Environmental Protection _____

This Order prepared by Cindy L. Dionne, Bureau of Water Quality

## SPECIAL CONDITIONS

### A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge secondary treated sanitary wastewater from **Outfall #001A** to the Sabattus River in Sabattus. These limitations and monitoring requirements apply to all flows conveyed through the secondary treatment system at all times except as otherwise noted in the associated footnotes **(1)** on pages 9-12.

| Effluent Characteristic | Discharge Limitations | | | | | | Minimum Monitoring Requirements | |
|---|---|---|---|---|---|---|---|---|
| | Monthly Average | Weekly Average | Daily Maximum | Monthly Average | Weekly Average | Daily Maximum | Measurement Frequency | Sample Type |
| Flow *[50050]* | 0.120 MGD *[03]* | --- | Report (MGD) *[03]* | --- | --- | --- | Continuous *[99/99]* | Recorder *[RC]* |
| $BOD_5$ *[00310]*<br>*(June 1 – Sept 30)*<br>*(October 1 – May 31)* | 17 lbs./day<br>30 lbs./day<br>*[26]* | 45 lbs./day<br>45 lbs./day<br>*[26]* | 50 lbs./day<br>50 lbs./day<br>*[26]* | 17 mg/L<br>30 mg/L<br>*[19]* | 45 mg/L<br>45 mg/L<br>*[19]* | 50 mg/L<br>50 mg/L<br>*[19]* | 1/Week<br>1/Week<br>*[01/07]* | Composite<br>Composite<br>*[24]* |
| $BOD_5$ % Removal **(2)** *[81010]* | --- | --- | --- | 85%<br>*[23]* | --- | --- | 1/Month<br>*[01/30]* | Calculate<br>*[CA]* |
| TSS *[00530]* | 30 lbs./day<br>*[26]* | 45 lbs./day<br>*[26]* | 50 lbs./day<br>*[26]* | 30 mg/L<br>*[19]* | 45 mg/L<br>*[19]* | 50 mg/L<br>*[19]* | 1/Week<br>*[01/07]* | Composite<br>*[24]* |
| TSS % Removal **(2)** *[81011]* | --- | --- | --- | 85%<br>*[23]* | --- | --- | 1/Month<br>*[01/30]* | Calculate<br>*[CA]* |
| Settleable Solids *[00545]* | --- | --- | --- | --- | --- | 0.3 ml/L<br>*[25]* | 3/Week<br>*[03/07]* | Grab<br>*[GR]* |
| *E. coli* Bacteria **(3)** *[31633]*<br>*(May 15 – September 30)* | --- | --- | --- | 126/100 ml/L **(4)** *[13]* | --- | 949/100 ml/L<br>*[13]* | 1/Week<br>*[01/07]* | Grab<br>*[GR]* |
| Total Residual Chlorine **(5)** *[50060]* | --- | --- | --- | 0.1 mg/L<br>*[19]* | --- | 0.3 mg/L<br>*[19]* | 1/Day<br>*[01/01]* | Grab<br>*[GR]* |
| Mercury (Total) **(6)** *[71900]* | --- | --- | --- | 4.5 ng/L<br>*[28]* | --- | 6.8 ng/L<br>*[28]* | 1/Year<br>*[01/YR]* | Grab<br>*[GR]* |
| pH (Std. Units) *[00400]* | --- | --- | --- | --- | --- | 6.0-9.0 *[12]* | 3/Week *[03/07]* | Grab *[GR]* |

The italicized numeric values bracketed in the table and in subsequent text are code numbers that Department personnel utilize to code the monthly Discharge Monitoring Reports (DMRs).

**SPECIAL CONDITIONS**

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)**

1. The permittee is authorized to discharge secondary treated sanitary wastewater from **Outfall #001A** to the Sabattus River in Sabattus. These limitations and monitoring requirements apply to all flows conveyed through the secondary treatment system at all times except as otherwise noted in the associated footnotes **(1)** on pages 9-12.

| Effluent Characteristic | Discharge Limitations | | | | | | Minimum Monitoring Requirements | |
|---|---|---|---|---|---|---|---|---|
| | Monthly Average | Weekly Average | Daily Maximum | Monthly Average | Weekly Average | Daily Maximum | Measurement Frequency | Sample Type |
| Effluent Phosphorus (Total)**(7)** *[00665]* *(June 1 – Sept. 30, annually beginning in 2017 and lasting through 2020)* | Report lbs./day *[26]* | --- | Report lbs./day *[26]* | Report mg/L *[19]* | --- | Report mg/L *[19]* | 2/Month *[02/30]* | Composite *[24]* |
| Effluent Phosphorus (Total)**(7)** *[00665]* *(June 1 – September 30) (Beginning June 1, 2021)* | 1.04 lbs./day *[26]* | --- | Report lbs./day *[26]* | Report mg/L *[19]* | --- | Report mg/L *[19]* | 2/Month *[02/30]* | Composite *[24]* |
| Ambient/Background Phosphorus (Total)**(7)** *[00665]* *(June 1, 2017 through September 30, 2017)* | --- | --- | --- | Report mg/L *[19]* | --- | Report mg/L *[19]* | 2/Month *[02/30]* | Grab *[GR]* |

**SPECIAL CONDITIONS**

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)**

2. The permittee is authorized to discharge secondary treated municipal wastewaters from **Outfall #001A** to the Sabattus River in Sabattus. Such discharges must be limited and monitored by the permittee as specified below [(1)]:

***SURVEILLANCE LEVEL TESTING –*** Beginning upon permit issuance and lasting through 24 months prior to permit expiration (Years 1, 2, & 3 of the term of the permit) and commencing again 12 months prior to permit expiration (Year 5 of the term of the permit).

| Effluent Characteristic | Discharge Limitations | | | | | | Minimum Monitoring Requirements | |
|---|---|---|---|---|---|---|---|---|
| | Monthly Average | Weekly Average | Daily Maximum | Monthly Average | Weekly Average | Daily Maximum | Measurement Frequency | Sample Type |
| Whole Effluent Toxicity (WET) [(8)] | | | | | | | | |
| A-NOEL | | | | | | | | |
| *Ceriodaphnia dubia [TDA3B]* | --- | --- | --- | --- | --- | Report % *[23]* | 1/2 Year *[01/2Y]* | Composite *[24]* |
| *Salvelinus fontinalis [TDA6F]* | --- | --- | --- | --- | --- | Report % *[23]* | 1/2 Year *[01/2Y]* | Composite *[24]* |
| C-NOEL | | | | | | | | |
| *Ceriodaphnia dubia [TBP3B]* | --- | --- | --- | --- | --- | Report % *[23]* | 1/2 Year *[01/2Y]* | Composite *[24]* |
| *Salvelinus fontinalis [TBQ6F]* | --- | --- | --- | --- | --- | Report % *[23]* | 1/2 Year *[01/2Y]* | Composite *[24]* |
| Analytical Chemistry[(9)] *[51477]* | --- | --- | --- | --- | --- | Report µg/L *[28]* | 1/2 Year *[01/2Y]* | Composite/Grab *[24/GR]* |

**Footnotes: See Pages 9-12 of this permit for applicable footnotes.**

**SPECIAL CONDITIONS**

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)**

3. The permittee is authorized to discharge secondary treated municipal wastewaters from **Outfall #001A** to the Sabattus River in Sabattus. Such discharges must be limited and monitored by the permittee as specified below [(1)]:

***SCREENING LEVEL*** - Beginning 24 months prior to permit expiration and lasting through 12 months prior to permit expiration (Year 4 of the term of the permit) and every five years thereafter if a timely request for renewal has been made and the permit continues in force, or is replaced by a permit renewal containing this requirement.

| Effluent Characteristic | Discharge Limitations | | | | | | Minimum Monitoring Requirements | |
|---|---|---|---|---|---|---|---|---|
| | Monthly Average | Weekly Average | Daily Maximum | Monthly Average | Weekly Average | Daily Maximum | Measurement Frequency | Sample Type |
| Whole Effluent Toxicity (WET) [(8)] | | | | | | | | |
| A-NOEL | | | | | | | | |
| *Ceriodaphnia dubia [TDA3B]* | --- | --- | --- | --- | --- | Report % *[23]* | 2/Year *[02/YR]* | Composite *[24]* |
| *Salvelinus fontinalis [TDA6F]* | --- | --- | --- | --- | --- | Report % *[23]* | 2/Year *[02/YR]* | Composite *[24]* |
| C-NOEL | | | | | | | | |
| *Ceriodaphnia dubia [TBP3B]* | --- | --- | --- | --- | --- | Report % *[23]* | 2/Year *[02/YR]* | Composite *[24]* |
| *Salvelinus fontinalis [TBQ6F]* | --- | --- | --- | --- | --- | Report % *[23]* | 2/Year *[02/YR]* | Composite *[24]* |
| Analytical Chemistry[(9)] *[51477]* | --- | --- | --- | --- | --- | Report µg/L *[28]* | 1/Quarter *[01/90]* | Composite/Grab *[24/GR]* |
| Priority Pollutant[(9)] *[50008]* | --- | --- | --- | --- | --- | Report µg/L *[28]* | 1/Year *[01/YR]* | Composite/Grab *[24/GR]* |

**Footnotes: See Pages 9-12 of this permit for applicable footnotes.**

**SPECIAL CONDITIONS**

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)**

**Footnotes**

1. **Sampling** – The permittee must conduct all effluent sampling and analysis in accordance with; a) methods approved by 40 Code of Federal Regulations (CFR) Part 136, b) alternative methods approved by the Department in accordance with the procedures in 40 CFR Part 136, or c) as otherwise specified by the Department. Samples that are sent out for analysis must be analyzed by a laboratory certified by the State of Maine's Department of Health and Human Services for wastewater. Samples that are analyzed by laboratories operated by waste discharge facilities licensed pursuant to *Waste discharge licenses*, 38 M.R.S. § 413 are subject to the provisions and restrictions of *Maine Comprehensive and Limited Environmental Laboratory Certification Rules*, 10-144 CMR 263 (last amended April 1, 2010). Laboratory facilities that analyze compliance samples in-house are subject to the provisions and restrictions of 10-144 CMR 263. If the permittee monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring must be included in the calculation and reporting of the data submitted in the DMR.

   **Sampling Locations –** Any change in sampling location(s) other than those specified below must be reviewed and approved by the Department in writing.

   Influent sampling for $BOD_5$ and TSS must be sampled at a point after the headworks.

   Effluent sampling for all parameters shall be sampled for all parameters at the end of the chlorine contact chamber on a year-round basis.

2. **Percent removal** – For secondary treated wastewater, the facility must maintain a minimum of 85 percent removal of both $BOD_5$ and TSS. Percent removal will be based on a monthly average value calculated based on influent and effluent concentrations.

3. ***E. coli* bacteria –** *E. coli* bacteria limits and monitoring requirements are seasonal and apply between May 15th and September 30th of each year. In accordance with 38 M.R.S. § 414-A(5), the Department may, at any time and with notice to the permittee, modify this permit to establish bacteria limitations on a year-round basis to protect the health and welfare of the public.

4. **Bacteria Reporting** – The monthly average *E. coli* bacteria limitation is a geometric mean limitation and sample results must be reported as such.

**SPECIAL CONDITIONS**

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)**

**Footnotes**

5. **Total Residual Chlorine (TRC) –** Limitations and monitoring requirements are applicable whenever elemental chlorine or chlorine based compounds are being used to disinfect the discharge. The permittee must utilize approved test methods that are capable of bracketing the limitations in this permit.

6. **Mercury** – The permittee must conduct all mercury monitoring required by this permit or required to determine compliance with interim limitations established pursuant to 06-096 CMR 519 in accordance with the USEPA's "clean sampling techniques" found in USEPA Method 1669, *Sampling Ambient Water For Trace Metals At EPA Water Quality Criteria Levels*. All mercury analysis must be conducted in accordance with USEPA Method 1631, *Determination of Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Fluorescence Spectrometry.* See **Attachment A** of this permit for a Department report form for mercury test results. Compliance with the monthly average limitation established in Special Condition A of this permit will be based on the cumulative arithmetic mean of all mercury tests results that were conducted utilizing sampling Method 1669 and analysis Method 1631E on file with the Department for this facility.

7. **Total Phosphorus** – See **Attachment B** of this permit for the Department's sampling and analysis protocol.

8. **WET Testing** – Definitive WET testing is a multi-concentration testing event (a minimum of five dilutions set at levels to bracket the modified acute and chronic critical water quality threshold of 4.8%), which provides a point estimate of toxicity in terms of NOEL. A-NOEL is defined as the acute no observed effect level with survival as the end point. C-NOEL is defined as the chronic no observed effect level with survival, reproduction and growth as the end points. The critical acute and chronic threshold was derived as the mathematical inverse of the applicable acute and chronic dilution factors of 21:1 for Outfall #001A. It is noted the permittee has been granted authorization by the Department to utilize an alternate ambient water source as the diluent when conducting WET testing.

   Test results must be submitted to the Department no later than the next DMR required by the permit, provided, however, that the permittee may review the toxicity reports for up to 10 business days of their availability before submitting them. The permittee must evaluate test results being submitted and identify to the Department possible exceedances of the critical acute and chronic water quality threshold of 4.8%.

**SPECIAL CONDITIONS**

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)**

**Footnotes (cont'd)**

Toxicity tests must be conducted by an experienced laboratory approved by the Department. The laboratory must follow procedures as described in the following USEPA methods manuals as modified by Department protocol for salmonids. See **Attachment C** of this permit for the Department protocol.

a. U.S. Environmental Protection Agency. 2002. *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, 5th ed. USEPA 821-R-02-012. U.S. Environmental Protection Agency, Office of Water, Washington, D.C., October 2002 (the acute method manual).

b. U.S. Environmental Protection Agency. 2002. *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*, 4th ed. USEPA 821-R-02-013. U.S. Environmental Protection Agency, Office of Water, Washington, D.C., October 2002 (the freshwater chronic method manual).

Results of WET tests must be reported on the "Whole Effluent Toxicity Report Fresh Waters" form included as **Attachment D** of this permit each time a WET test is performed.

The permittee must analyze the effluent for the analytical chemistry and priority pollutant parameters specified on the "WET and Chemical Specific Data Report Form" form included as **Attachment E** of this permit each time a WET test is performed.

**9. Analytical chemistry** and **Priority Pollutant testing** – Refers to those pollutants listed in their respective categories on the form included as **Attachment E** of this permit.

Analytical chemistry and priority pollutant test results must be submitted to the Department not later than the next DMR required by the permit, provided, however, that the permittee may review the laboratory reports for up to 10 business days of their availability before submitting them. The permittee must evaluate test results being submitted and identify to the Department, possible exceedences of the acute, chronic or human health ambient water quality criteria (AWQC) as established in *Surface Water Quality Criteria for Toxic Pollutants*, 06-096 C.M.R. 584 (effective July 29, 2012). For the purposes of DMR reporting, enter a "1" for yes, testing done this monitoring period or "0" monitoring not required this period.

## SPECIAL CONDITIONS

### A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

**Footnotes (cont'd)**

Analytical chemistry and priority pollutant testing must be conducted on samples collected at the same time as those collected for whole effluent toxicity tests, when applicable, and must be conducted using methods that permit detection of a pollutant at existing levels in the effluent or that achieve the most current minimum reporting levels of detection as specified by the Department.

### B. NARRATIVE EFFLUENT LIMITATIONS

1. The permittee must not discharge effluent that contains a visible oil sheen, foam or floating solids at any time which would impair the uses designated for the classification of the receiving waters.

2. The permittee must not discharge effluent that contains materials in concentrations or combinations which are hazardous or toxic to aquatic life, or which would impair the uses designated for the classification of the receiving waters.

3. The permittee must not discharge effluent that causes visible discoloration or turbidity in the receiving waters or otherwise impairs the uses designated for the classification of the receiving waters.

4. The permittee must not discharge effluent that lowers the quality of any classified body of water below such classification, or lowers the existing quality of any body of water if the existing quality is higher than the classification.

### C. TREATMENT PLANT OPERATOR

The person who has management responsibility over the treatment facility must hold a Maine **Grade II,** Biological Treatment certificate (or higher) or must be a Maine Registered Professional Engineer pursuant to *Sewage Treatment Operators*, 32 M.R.S. § 4171-4182 and *Regulations for Wastewater Operator Certification*, 06-096 CMR 531 (effective May 8, 2006). All proposed contracts for facility operation by any person must be approved by the Department before the permittee may engage the services of the contract operator.

## SPECIAL CONDITIONS

### D. LIMITATIONS FOR INDUSTRIAL USERS

Pollutants introduced into the wastewater collection and treatment system by a non-domestic source (user) must not pass through or interfere with the operation of the treatment system. The permittee must conduct an Industrial Waste Survey (IWS) any time a new industrial user proposes to discharge within its jurisdiction; an existing user proposes to make a significant change in its discharge; or at an alternative minimum, once every permit cycle, and submit the results to the Department. The IWS must identify, in terms of character and volume of pollutants, any Significant Industrial Users discharging into the POTW subject to Pretreatment Standards under section 307(b) of the federal Clean Water Act, 40 CFR Part 403 (general pretreatment regulations) or *Pretreatment Program*, 06-096 CMR 528 (last amended March 17, 2008).

### E. NOTIFICATION REQUIREMENT

In accordance with Standard Condition D, the permittee must notify the Department of the following:

1. Any introduction of pollutants into the wastewater collection and treatment system from an indirect discharger in a primary industrial category discharging process wastewater; and;

2. Any substantial change (increase or decrease) in the volume or character of pollutants being introduced into the wastewater collection and treatment system by a source introducing pollutants into the system at the time of permit issuance.

3. For the purposes of this section, adequate notice must include information on:

   (a) The quality and quantity of wastewater introduced to the wastewater collection and treatment system; and

   (b) Any anticipated impact of the change in the quantity or quality of the wastewater to be discharged from the treatment system.

### F. WET WEATHER FLOW MANAGEMENT PLAN

The treatment facility staff must have a current written Wet Weather Flow Management Plan to direct the staff on how to operate the facility effectively during periods of high flow. The Department acknowledges that the existing collection system may deliver flows in excess of the monthly average design capacity of the treatment plant during periods of high infiltration and rainfall.

**SPECIAL CONDITIONS**

**F. WET WEATHER FLOW MANAGEMENT PLAN (cont'd)**

The plan must conform to Department guidelines for such plans and must include operating procedures for a range of intensities, address solids handling procedures (including septic waste and other high strength wastes if applicable) and provide written operating and maintenance procedures during the events.

**The permittee must review their plan at least annually and record any necessary changes to keep the plan up to date.** The Department may require review and update of the plan as it is determined to be necessary.

**G. OPERATION & MAINTENANCE (O&M) PLAN**

The permittee must maintain a current written comprehensive Operation & Maintenance (O&M) Plan for the facility. The plan must provide a systematic approach by which the permittee must at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit.

**By December 31 of each year**, **or within 90 days of any process changes or minor equipment upgrades,** the permittee must evaluate and modify the O&M Plan including site plan(s) and schematic(s) for the wastewater treatment facility to ensure that it is up-to-date. The O&M Plan must be kept on-site at all times and made available to Department and USEPA personnel upon request.

**Within 90 days of completion of new and or substantial upgrades of the wastewater treatment facility**, the permittee must submit the updated O&M Plan to their Department inspector for review and comment.

**H. 06-096 CMR 530(2)(D)(4) STATEMENT FOR REDUCED/WAIVED TOXICS TESTING**

**By December 31 of each calendar year**, the permittee must provide the Department with a certification describing any of the following that have occurred since the effective date of this permit ***[ICIS Code 75305]***. See **Attachment C** of the Fact Sheet for an acceptable certification form to satisfy this Special Condition.

(a) Changes in the number or types of non-domestic wastes contributed directly or indirectly to the wastewater treatment works that may increase the toxicity of the discharge;

(b) Changes in the operation of the treatment works that may increase the toxicity of the discharge;

**SPECIAL CONDITIONS**

**H. 06-096 CMR 530(2)(D)(4) STATEMENT FOR REDUCED/WAIVED TOXICS TESTING (cont'd)**

(c) Changes in industrial manufacturing processes contributing wastewater to the treatment works that may increase the toxicity of the discharge;

In addition, in the comments section of the certification form, the permittee must provide the Department with statements describing;

(d) Changes in stormwater collection or inflow/infiltration affecting the facility that may increase the toxicity of the discharge; and

(e) Increases in the type or volume of transported (hauled) wastes accepted by the facility.

The Department may require that annual testing be re-instated if it determines that there have been changes in the character of the discharge or if annual certifications described above are not submitted.

**I. SCHEDULE OF COMPLIANCE**

This permitting action is establishing a schedule of compliance for the seasonal, monthly average mass for total phosphorus as follows:

**Annually, June 1 through September 30, from 2017 through 2020,** the permittee is required to report the monthly average and daily maximum mass and concentration values for phosphorus testing.

**Beginning June 1, 2017 through September 30, 2017,** the permitting must collect and report (on the applicable monthly DMRs) ambient/background total phosphorus data as specified in Special Condition A of this permit.

**On or before September 1, 2020*, (ICIS code 50008),*** the permittee must submit a report to the Department for review that summarizes the total phosphorus monitoring conducted (including the ambient/background results), a scope of work, and schedule to come into compliance with the monthly average water quality based limitation of 1.04 lbs./day for total phosphorus specified in Special Condition A of this permit.

**Beginning June 1, 2021,** the permittee must come into compliance with a monthly average mass limitation of 1.04 lbs./day for total phosphorus for the period June 1 – September 30 of each calendar year as specified in Special Condition A of this permit.

**SPECIAL CONDITIONS**

## J. MONITORING AND REPORTING

Electronic Reporting

*NPDES Electronic Reporting*, 40 C.F.R. 127, requires MEPDES permit holders to submit monitoring results obtained during the previous month on an electronic discharge monitoring report to the regulatory agency utilizing the U.S. Environmental Protection Agency (USEPA) electronic system.

Electronic DMRs submitted using the USEPA NetDMR system, must be:

1. Submitted by a facility authorized signatory; and
2. Submitted no later than **midnight on the 15th day of the month** following the completed reporting period.

Documentation submitted in support of the electronic DMR may be attached to the electronic DMR. Toxics reporting must be done using the Department toxsheet reporting form. An electronic copy of the Toxsheet reporting document must be submitted to your Department compliance inspector as an attachment to an email. In addition, a hardcopy form of this sheet must be signed and submitted to your compliance inspector, or a copy attached to your NetDMR submittal will suffice.

Documentation submitted electronically to the Department in support of the electronic DMR must be submitted no later than midnight on the 15th day of the month following the completed reporting period.

A signed copy of the DMR and all other reports required herein must be submitted to the Department assigned compliance inspector (unless otherwise specified) following address:

Department of Environmental Protection
Bureau of Water Quality
Division of Water Quality Management
17 State House Station
Augusta, Maine 04333-0017

## K. AUTHORIZED DISCHARGES

The permittee is authorized to discharge only in accordance with: 1) the permittee's General Application for Waste Discharge Permit, accepted for processing on May 10, 2016; 2) the terms and conditions of this permit; and 3) only from Outfall #001A of this permit. Discharges of wastewater from any other point source are not authorized under this permit, and must be reported in accordance with Standard Condition D(1)(f), *Twenty-four hour reporting*, of this permit.

**SPECIAL CONDITIONS**

## L. REOPENING OF PERMIT FOR MODIFICATIONS

In accordance with 38 M.R.S. § 414-A(5) and upon evaluation of the test results in the Special Conditions of this permitting action, new site specific information, or any other pertinent test results or information obtained during the term of this permit, the Department may, at any time and with notice to the permittee, modify this permit to: (1) include effluent limitations necessary to control specific pollutants or whole effluent toxicity where there is a reasonable potential that the effluent may cause water quality criteria to be exceeded: (2) require additional monitoring if results on file are inconclusive; or (3) change monitoring requirements or limitations based on new information.

## M. SEVERABILITY

In the event that any provision or part thereof, of this permit is declared to be unlawful by a reviewing court, the remainder of the permit must remain in full force and effect, and must be construed and enforced in all aspects as if such unlawful provision, or part thereof, had been omitted, unless otherwise ordered by the court.

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CONTENTS

## A. GENERAL PROVISIONS

1. **General compliance**. All discharges shall be consistent with the terms and conditions of this permit; any changes in production capacity or process modifications which result in changes in the quantity or the characteristics of the discharge must be authorized by an additional license or by modifications of this permit; it shall be a violation of the terms and conditions of this permit to discharge any pollutant not identified and authorized herein or to discharge in excess of the rates or quantities authorized herein or to violate any other conditions of this permit.

**2. Other materials.** Other materials ordinarily produced or used in the operation of this facility, which have been specifically identified in the application, may be discharged at the maximum frequency and maximum level identified in the application, provided:

(a) They are not

(i) Designated as toxic or hazardous under the provisions of Sections 307 and 311, respectively, of the Federal Water Pollution Control Act; Title 38, Section 420, Maine Revised Statutes; or other applicable State Law; or
(ii) Known to be hazardous or toxic by the licensee.

(b) The discharge of such materials will not violate applicable water quality standards.

**3. Duty to comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of State law and the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

(a) The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act, and 38 MRSA, §420 or Chapter 530.5 for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.
(b) Any person who violates any provision of the laws administered by the Department, including without limitation, a violation of the terms of any order, rule license, permit, approval or decision of the Board or Commissioner is subject to the penalties set forth in 38 MRSA, §349.

**4. Duty to provide information.** The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

**5. Permit actions.** This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

**6. Reopener clause**. The Department reserves the right to make appropriate revisions to this permit in order to establish any appropriate effluent limitations, schedule of compliance or other provisions which may be authorized under 38 MRSA, §414-A(5).

**7. Oil and hazardous substances.** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject under section 311 of the Federal Clean Water Act; section 106 of the Federal Comprehensive Environmental Response, Compensation and Liability Act of 1980; or 38 MRSA §§ 1301, et. seq.

**8. Property rights**. This permit does not convey any property rights of any sort, or any exclusive privilege.

**9. Confidentiality of records.** 38 MRSA §414(6) reads as follows. "Any records, reports or information obtained under this subchapter is available to the public, except that upon a showing satisfactory to the department by any person that any records, reports or information, or particular part or any record, report or information, other than the names and addresses of applicants, license applications, licenses, and effluent data, to which the department has access under this subchapter would, if made public, divulge methods or processes that are entitled to protection as trade secrets, these records, reports or information must be confidential and not available for public inspection or examination. Any records, reports or information may be disclosed to employees or authorized representatives of the State or the United States concerned with carrying out this subchapter or any applicable federal law, and to any party to a hearing held under this section on terms the commissioner may prescribe in order to protect these confidential records, reports and information, as long as this disclosure is material and relevant to any issue under consideration by the department."

**10. Duty to reapply.** If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.

**11. Other laws**. The issuance of this permit does not authorize any injury to persons or property or invasion of other property rights, nor does it relieve the permittee if its obligation to comply with other applicable Federal, State or local laws and regulations.

**12. Inspection and entry**. The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the EPA Administrator), upon presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
(d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

## B. OPERATION AND MAINTENACE OF FACILITIES

### 1. General facility requirements.

(a) The permittee shall collect all waste flows designated by the Department as requiring treatment and discharge them into an approved waste treatment facility in such a manner as to

maximize removal of pollutants unless authorization to the contrary is obtained from the Department.

(b) The permittee shall at all times maintain in good working order and operate at maximum efficiency all waste water collection, treatment and/or control facilities.

(c) All necessary waste treatment facilities will be installed and operational prior to the discharge of any wastewaters.

(d) Final plans and specifications must be submitted to the Department for review prior to the construction or modification of any treatment facilities.

(e) The permittee shall install flow measuring facilities of a design approved by the Department.

(f) The permittee must provide an outfall of a design approved by the Department which is placed in the receiving waters in such a manner that the maximum mixing and dispersion of the wastewaters will be achieved as rapidly as possible.

**2. Proper operation and maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

**3. Need to halt or reduce activity not a defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

**4. Duty to mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

**5. Bypasses.**

(a) Definitions.

(i) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.

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

(b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (c) and (d) of this section.

(c) Notice.

(i) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.

(ii) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in paragraph D(1)(f), below. (24-hour notice).

(d) Prohibition of bypass.

(i) Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:

(A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
(B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
(C) The permittee submitted notices as required under paragraph (c) of this section.

(ii) The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in paragraph (d)(i) of this section.

**6. Upsets.**

(a) Definition. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

(b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph (c) of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

(c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(i) An upset occurred and that the permittee can identify the cause(s) of the upset;
(ii) The permitted facility was at the time being properly operated; and
(iii) The permittee submitted notice of the upset as required in paragraph D(1)(f) , below. (24 hour notice).
(iv) The permittee complied with any remedial measures required under paragraph B(4).

(d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

## C. MONITORING AND RECORDS

**1. General Requirements.** This permit shall be subject to such monitoring requirements as may be reasonably required by the Department including the installation, use and maintenance of monitoring equipment or methods (including, where appropriate, biological monitoring methods). The permittee shall provide the Department with periodic reports on the proper Department reporting form of monitoring results obtained pursuant to the monitoring requirements contained herein.

**2. Representative sampling.** Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. If effluent limitations are based wholly or partially on quantities of a product processed, the permittee shall ensure samples are representative of times when production is taking place. Where discharge monitoring is required when production is less than 50%, the resulting data shall be reported as a daily measurement but not included in computation of averages, unless specifically authorized by the Department.

**3. Monitoring and records.**

(a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

(b) Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

(c) Records of monitoring information shall include:

(i) The date, exact place, and time of sampling or measurements;
(ii) The individual(s) who performed the sampling or measurements;
(iii) The date(s) analyses were performed;
(iv) The individual(s) who performed the analyses;
(v) The analytical techniques or methods used; and
(vi) The results of such analyses.

(d) Monitoring results must be conducted according to test procedures approved under 40 CFR part 136, unless other test procedures have been specified in the permit.

(e) State law provides that any person who tampers with or renders inaccurate any monitoring devices or method required by any provision of law, or any order, rule license, permit approval or decision is subject to the penalties set forth in 38 MRSA, §349.

## D. REPORTING REQUIREMENTS

**1. Reporting requirements.**

(a) Planned changes. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

(i) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or

(ii) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under Section D(4).

(iii) The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;

(b) Anticipated noncompliance. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(c) Transfers. This permit is not transferable to any person except upon application to and approval of the Department pursuant to 38 MRSA, § 344 and Chapters 2 and 522.

(d) Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.

(i) Monitoring results must be reported on a Discharge Monitoring Report (DMR) or forms provided or specified by the Department for reporting results of monitoring of sludge use or disposal practices.

(ii) If the permittee monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR part 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Department.

(iii) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Department in the permit.

(e) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

(f) Twenty-four hour reporting.

(i) The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance

has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

(ii) The following shall be included as information which must be reported within 24 hours under this paragraph.

(A) Any unanticipated bypass which exceeds any effluent limitation in the permit.
(B) Any upset which exceeds any effluent limitation in the permit.
(C) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit to be reported within 24 hours.

(iii) The Department may waive the written report on a case-by-case basis for reports under paragraph (f)(ii) of this section if the oral report has been received within 24 hours.

(g) Other noncompliance. The permittee shall report all instances of noncompliance not reported under paragraphs (d), (e), and (f) of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (f) of this section.

(h) Other information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

**2. Signatory requirement**. All applications, reports, or information submitted to the Department shall be signed and certified as required by Chapter 521, Section 5 of the Department's rules. State law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan or other document filed or required to be maintained by any order, rule, permit, approval or decision of the Board or Commissioner is subject to the penalties set forth in 38 MRSA, §349.

**3. Availability of reports.** Except for data determined to be confidential under A(9), above, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. As required by State law, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal sanctions as provided by law.

**4. Existing manufacturing, commercial, mining, and silvicultural dischargers.** In addition to the reporting requirements under this Section, all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Department as soon as they know or have reason to believe:

(a) That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

(i) One hundred micrograms per liter (100 ug/l);
(ii) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
(iii) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with Chapter 521 Section 4(g)(7); or
(iv) The level established by the Department in accordance with Chapter 523 Section 5(f).

(b) That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following ``notification levels'':

(i) Five hundred micrograms per liter (500 ug/l);
(ii) One milligram per liter (1 mg/l) for antimony;
(iii) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with Chapter 521 Section 4(g)(7); or
(iv) The level established by the Department in accordance with Chapter 523 Section 5(f).

**5. Publicly owned treatment works.**

(a) All POTWs must provide adequate notice to the Department of the following:

(i) Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA or Chapter 528 if it were directly discharging those pollutants.
(ii) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
(iii) For purposes of this paragraph, adequate notice shall include information on (A) the quality and quantity of effluent introduced into the POTW, and (B) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

(b) When the effluent discharged by a POTW for a period of three consecutive months exceeds 80 percent of the permitted flow, the permittee shall submit to the Department a projection of loadings up to the time when the design capacity of the treatment facility will be reached, and a program for maintaining satisfactory treatment levels consistent with approved water quality management plans.

## E. OTHER REQUIREMENTS

**1. Emergency action - power failure.** Within thirty days after the effective date of this permit, the permittee shall notify the Department of facilities and plans to be used in the event the primary source of power to its wastewater pumping and treatment facilities fails as follows.

(a) For municipal sources. During power failure, all wastewaters which are normally treated shall receive a minimum of primary treatment and disinfection. Unless otherwise approved, alternate power supplies shall be provided for pumping stations and treatment facilities. Alternate power supplies shall be on-site generating units or an outside power source which is separate and independent from sources used for normal operation of the wastewater facilities.

(b) For industrial and commercial sources. The permittee shall either maintain an alternative power source sufficient to operate the wastewater pumping and treatment facilities or halt, reduce or otherwise control production and or all discharges upon reduction or loss of power to the wastewater pumping or treatment facilities.

**2. Spill prevention.** (applicable only to industrial sources) Within six months of the effective date of this permit, the permittee shall submit to the Department for review and approval, with or without conditions, a spill prevention plan. The plan shall delineate methods and measures to be taken to prevent and or contain any spills of pulp, chemicals, oils or other contaminates and shall specify means of disposal and or treatment to be used.

3. **Removed substances.** Solids, sludges trash rack cleanings, filter backwash, or other pollutants removed from or resulting from the treatment or control of waste waters shall be disposed of in a manner approved by the Department.

4. **Connection to municipal sewer.** (applicable only to industrial and commercial sources) All wastewaters designated by the Department as treatable in a municipal treatment system will be cosigned to that system when it is available. This permit will expire 90 days after the municipal treatment facility becomes available, unless this time is extended by the Department in writing.

**F. DEFINITIONS.** For the purposes of this permit, the following definitions shall apply. Other definitions applicable to this permit may be found in Chapters 520 through 529 of the Department's rules

**Average** means the arithmetic mean of values taken at the frequency required for each parameter over the specified period. For bacteria, the average shall be the geometric mean.

**Average monthly discharge limitation** means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month. Except, however, bacteriological tests may be calculated as a geometric mean.

**Average weekly discharge limitation** means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

**Best management practices ("BMPs")** means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

**Composite sample** means a sample consisting of a minimum of eight grab samples collected at equal intervals during a 24 hour period (or a lesser period as specified in the section on monitoring and reporting) and combined proportional to the flow over that same time period.

**Continuous discharge** means a discharge which occurs without interruption throughout the operating hours of the facility, except for infrequent shutdowns for maintenance, process changes, or other similar activities.

**Daily discharge** means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the day.

**Discharge Monitoring Report ("DMR")** means the EPA uniform national form, including any subsequent additions, revisions, or modifications for the reporting of self-monitoring results by permittees. DMRs must be used by approved States as well as by EPA. EPA will supply DMRs to any approved State upon request. The EPA national forms may be modified to substitute the State Agency name, address, logo, and other similar information, as appropriate, in place of EPA's.

**Flow weighted composite sample** means a composite sample consisting of a mixture of aliquots collected at a constant time interval, where the volume of each aliquot is proportional to the flow rate of the discharge.

**Grab sample** means an individual sample collected in a period of less than 15 minutes.

**Interference** means a Discharge which, alone or in conjunction with a discharge or discharges from other sources, both:

(1) Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and
(2) Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.

**Maximum daily discharge limitation** means the highest allowable daily discharge.

**New source** means any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

(a) After promulgation of standards of performance under section 306 of CWA which are applicable to such source, or
(b) After proposal of standards of performance in accordance with section 306 of CWA which are applicable to such source, but only if the standards are promulgated in accordance with section 306 within 120 days of their proposal.

**Pass through** means a discharge which exits the POTW into waters of the State in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation).

**Permit** means an authorization, license, or equivalent control document issued by EPA or an approved State to implement the requirements of 40 CFR parts 122, 123 and 124. Permit includes an NPDES general permit (Chapter 529). Permit does not include any permit which has not yet been the subject of final agency action, such as a draft permit or a proposed permit.

**Person** means an individual, firm, corporation, municipality, quasi-municipal corporation, state agency, federal agency or other legal entity.

**Point source** means any discernible, confined and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation or vessel or other floating craft, from which pollutants are or may be discharged.

**Pollutant** means dredged spoil, solid waste, junk, incinerator residue, sewage, refuse, effluent, garbage, sewage sludge, munitions, chemicals, biological or radiological materials, oil, petroleum products or byproducts, heat, wrecked or discarded equipment, rock, sand, dirt and industrial, municipal, domestic, commercial or agricultural wastes of any kind.

**Process wastewater** means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.

**Publicly owned treatment works ("POTW")** means any facility for the treatment of pollutants owned by the State or any political subdivision thereof, any municipality, district, quasi-municipal corporation or other public entity.

**Septage** means, for the purposes of this permit, any waste, refuse, effluent sludge or other material removed from a septic tank, cesspool, vault privy or similar source which concentrates wastes or to which chemicals have been added. Septage does not include wastes from a holding tank.

**Time weighted composite** means a composite sample consisting of a mixture of equal volume aliquots collected over a constant time interval.

**Toxic pollutant** includes any pollutant listed as toxic under section 307(a)(1) or, in the case of sludge use or disposal practices, any pollutant identified in regulations implementing section 405(d) of the CWA. Toxic pollutant also includes those substances or combination of substances, including disease causing agents, which after discharge or upon exposure, ingestion, inhalation or assimilation into any organism, including humans either directly through the environment or indirectly through ingestion through food chains, will, on the basis of information available to the board either alone or in combination with other substances already in the receiving waters or the discharge, cause death, disease, abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in such organism or their offspring.

**Wetlands** means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

**Whole effluent toxicity** means the aggregate toxic effect of an effluent measured directly by a toxicity test.

# ATTACHMENT A

# MERCURY REPORT - Clean Test Only

**Data Date Range:** 12/Oct/1990 - 12/Oct/2016

**Facility:** SABATTUS SANITARY DISTRICT **Permit Number:** ME0101842

**Max (ng/l):** 11.0000 **Average (ng/l):** 2.3673

| Sample Date | Result (ng/l) | Lsthan | Clean |
|---|---|---|---|
| 08/25/1998 | 3.20 | N | T |
| 10/26/1998 | 2.29 | N | T |
| 08/23/1999 | 3.81 | N | T |
| 06/19/2000 | 2.60 | N | T |
| 09/05/2000 | 1.60 | N | T |
| 09/13/2000 | 2.04 | N | T |
| 11/28/2000 | 1.40 | N | T |
| 03/19/2001 | 2.30 | N | T |
| 05/07/2001 | 3.20 | N | T |
| 07/16/2001 | 2.70 | N | T |
| 12/19/2001 | 1.80 | N | T |
| 04/04/2002 | 3.20 | N | T |
| 07/02/2002 | 11.00 | N | T |
| 10/25/2002 | 2.30 | N | T |
| 01/15/2003 | 1.60 | N | T |
| 04/01/2003 | 1.90 | N | T |
| 07/02/2003 | 3.40 | N | T |
| 10/09/2003 | 1.30 | N | T |
| 01/14/2004 | 3.10 | N | T |
| 04/07/2004 | 1.80 | N | T |
| 09/03/2004 | 2.40 | N | T |
| 10/05/2004 | 1.70 | N | T |
| 01/05/2005 | 2.40 | N | T |
| 04/13/2005 | 1.20 | N | T |
| 07/11/2005 | 2.90 | N | T |
| 10/11/2005 | 2.60 | N | T |
| 01/18/2006 | 2.80 | N | T |
| 04/05/2006 | 2.80 | N | T |
| 07/14/2006 | 3.90 | N | T |
| 10/18/2006 | 1.90 | N | T |
| 12/27/2006 | 1.40 | N | T |
| 04/04/2007 | 1.20 | N | T |
| 07/18/2007 | 2.20 | N | T |
| 10/04/2007 | 2.80 | N | T |
| 01/30/2008 | 2.30 | N | T |
| 05/07/2008 | 2.00 | N | T |
| 07/09/2008 | 4.60 | N | T |
| 12/04/2008 | 1.20 | N | T |
| 02/11/2009 | 2.20 | N | T |
| 06/04/2009 | 3.20 | N | T |
| 08/18/2009 | 3.40 | N | T |
| 11/05/2009 | 2.90 | N | T |
| 02/03/2010 | 2.70 | N | T |
| 05/05/2010 | 1.90 | N | T |
| 08/11/2010 | 1.90 | N | T |
| 11/03/2010 | 1.20 | N | T |
| 02/09/2011 | 1.20 | N | T |
| 05/18/2011 | 1.40 | N | T |
| 08/02/2011 | 2.50 | N | T |

| | | | |
|---|---|---|---|
| 11/02/2011 | 1.40 | N | T |
| 01/04/2012 | 1.10 | N | T |
| 01/10/2013 | 1.80 | N | T |
| 01/08/2014 | 1.00 | Y | T |
| 01/07/2015 | 0.75 | N | T |
| 01/06/2016 | 0.81 | N | T |

# ATTACHMENT B

# Protocol for Total Phosphorus Sample Collection and Analysis for Waste Water and Receiving Water Monitoring Required by Permits

Approved Analytical Methods: EPA 200.7 (Rev. 44), 365.1 (Rev. 2.0), (Lachat), 365.3, 365.4; SM 3120 B, 4500-P B.5, 4500-P E, 4500-P F, 4500-P G, 4500-P H; ASTM D515-88(A), D515-88(B); USGS I-4471-97, I-4600-85, I-4610-91; OMAAOAC 973.55, 973.56

Sample Collection: The Maine DEP is requesting that total phosphorus analysis be conducted on composite effluent samples, unless a facility's Permit specifically designates grab sampling for this parameter. Facilities can use individual collection bottles or a single jug made out of glass or polyethylene. Bottles and/or jugs should be cleaned prior to each use with dilute HCL. This cleaning should be followed by several rinses with distilled water. Commercially purchased, pre-cleaned sample containers are an acceptable alternative. The sampler hoses should be cleaned, as needed.

Sample Preservation: During compositing the sample must be at 0-6 degrees C (without freezing). If the sample is being sent to a commercial laboratory or analysis cannot be performed the day of collection then the sample must be preserved using $H_2SO_4$ to obtain a sample pH of <2 su and refrigerated at 0-6 degrees C (without freezing). The holding time for a preserved sample is 28 days.

Note: Ideally, Total P samples are preserved as described above. However, if a facility is using a commercial laboratory then that laboratory may choose to add acid to the sample once it arrives at the laboratory. The Maine DEP will accept results that use either of these preservation methods.

Laboratory QA/QC: Laboratories must follow the appropriate QA/QC procedures that are described in each of the approved methods.

Sampling QA/QC: If a composite sample is being collected using an automated sampler, then once per month run a blank on the composite sampler. Automatically, draw distilled water into the sample jug using the sample collection line. Let this water set in the jug for 24 hours and then analyze for total phosphorus. Preserve this sample as described above.

# ATTACHMENT C

# Salmonid Survival and Growth Test

The Salmonid survival and growth test must follow the procedures for the fathead minnow larval survival and growth tests detailed in USEPA's freshwater acute and chronic methods manuals with the following Department modifications:

**Species** - Brook Trout, *Salvelinus fontinalis*, or other salmonid approved by the Department.

**Age** - Less than six months old for the first test each year and less than twelve months for subsequent tests.

**Size** - The largest fish must not be greater than 150% of the smallest.

**Loading Rate** - < 0.5 g/l/day

**Feeding rate** - 5% of body weight 3 times daily (15%/day)

**Temperature** - 12° ± 1°C

**Dissolved Oxygen** - 6.5 mg/l ,aeration if needed with large bubbles (> 1 mm diameter) at a rate of <100/min

**Dilution Water** - Receiving water upstream of discharge (or other ambient water approved by the Department)

**Dilution Series** - A minimum of 5 effluent concentrations (including the instream waste concentrations bracketing acute and chronic dilutions calculated pursuant to Section D); a receiving water control; and control of known suitable water quality

**Duration** - Acute = 48 hours
- Chronic = 10 days minimum

**Test acceptability** - Acute = minimum of 90% survival in 2 days
Chronic = minimum of 80% survival in 10 days; minimum growth of 20 mg/gm/d dry weight in controls, (individual fish weighed, dried at 100°C to constant weight and weighed to 3 significant figures)

# ATTACHMENT D

# MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
# WHOLE EFFLUENT TOXICITY REPORT
# FRESH WATERS

Facility Name _____ MEPDES Permit # _____

Pipe # _____

Facility Representative _____ Signature _____

**By signing this form, I attest that to the best of my knowledge that the information provided is true, accurate, and complete.**

Facility Telephone # _____ Date Collected _____ Date Tested _____

mm/dd/yy mm/dd/yy

Chlorinated? _____ Dechlorinated? _____

| **Results** | **% effluent** | | Effluent Limitations | |
|---|---|---|---|---|
| | **water flea** | **trout** | | |
| **A-NOEL** | | | A-NOEL | |
| **C-NOEL** | | | C-NOEL | |

| **Data summary** | **water flea** | | | **trout** | | |
|---|---|---|---|---|---|---|
| | **% survival** | | **no. young** | **% survival** | | **final weight (mg)** |
| **QC standard** | **A>90** | **C>80** | **>15/female** | **A>90** | **C>80** | **> 2% increase** |
| **lab control** | | | | | | |
| **receiving water control** | | | | | | |
| **conc. 1 ( %)** | | | | | | |
| **conc. 2 ( %)** | | | | | | |
| **conc. 3 ( %)** | | | | | | |
| **conc. 4 ( %)** | | | | | | |
| **conc. 5 ( %)** | | | | | | |
| **conc. 6 ( %)** | | | | | | |
| **stat test used** | | | | | | |

**place * next to values statistically different from controls**

**for trout show final wt and % incr for both controls**

| Reference toxicant | water flea | | trout | |
|---|---|---|---|---|
| | A-NOEL | C-NOEL | A-NOEL | C-NOEL |
| toxicant / date | | | | |
| limits (mg/L) | | | | |
| results (mg/L) | | | | |

Comments _____

**Laboratory conducting test**

Company Name _____ Company Rep. Name (Printed) _____

Mailing Address _____ Company Rep. Signature _____

City, State, ZIP _____ Company Telephone # _____

**Report WET chemistry on DEP Form "ToxSheet (Fresh Water Version), March 2007."**

# ATTACHMENT E

**Maine Department of Environmental Protection**
**WET and Chem**
**This form is for reporting laboratory data and facility information. Official compliance reviews will be done by DEP.**

**Facility Name** _____ **MEPDES #** _____ **Pipe #** _____ Facility Representative Signature _____
To the best of my knowledge this information is true, accurate and complete.

| | | | |
|---|---|---|---|
| **Licensed Flow (MGD)** | | **Flow for Day (MGD)[1]** | **Flow Avg. for Month (MGD)[2]** |
| **Acute dilution factor** | | | |
| **Chronic dilution factor** | | **Date Sample Collected** | **Date Sample Analyzed** |
| **Human health dilution factor** | | | |
| **Criteria type: M(arine) or F(resh)** | f | | |

Laboratory _____ Telephone _____
Address _____
_____
Lab Contact _____ Lab ID # _____

**Last Revision - July 1, 2015**

ERROR WARNING ! Essential facility information is missing. Please check required entries in bold above.

**FRESH WATER VERSION**

Please see the footnotes on the last page.

| | | | Effluent Limits, % | | | Receiving Water or Ambient | **Effluent Concentration (ug/L or as noted)** | | **Possible Exceedence [7]** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Acute | Chronic | | | WET Result, % Do not enter % sign | Reporting Limit Check | Acute | Chronic | |
| | **WHOLE EFFLUENT TOXICITY** | | | | | | | | | | |
| | Trout - Acute | | | | | | | | | | |
| | Trout - Chronic | | | | | | | | | | |
| | Water Flea - Acute | | | | | | | | | | |
| | Water Flea - Chronic | | | | | | | | | | |
| | **WET CHEMISTRY** | | | | | | | | | | |
| | pH (S.U.) (9) | | | | | | | | | | |
| | Total Organic Carbon (mg/L) | | | | | (8) | | | | | |
| | Total Solids (mg/L) | | | | | | | | | | |
| | Total Suspended Solids (mg/L) | | | | | | | | | | |
| | Alkalinity (mg/L) | | | | | (8) | | | | | |
| | Specific Conductance (umhos) | | | | | | | | | | |
| | Total Hardness (mg/L) | | | | | (8) | | | | | |
| | Total Magnesium (mg/L) | | | | | (8) | | | | | |
| | Total Calcium (mg/L) | | | | | (8) | | | | | |
| | **ANALYTICAL CHEMISTRY [3]** | | | | | | | | | | |
| | Also do these tests on the effluent with WET. Testing on the receiving water is optional | Reporting Limit | Effluent Limits, ug/L Acute[6] | Chronic[6] | Health[6] | | | Reporting Limit Check | **Possible Exceedence [7]** Acute | Chronic | Health |
| | TOTAL RESIDUAL CHLORINE (mg/L) (9) | 0.05 | | | | NA | | | | | |
| | AMMONIA | NA | | | | (8) | | | | | |
| M | ALUMINUM | NA | | | | (8) | | | | | |
| M | ARSENIC | 5 | | | | (8) | | | | | |
| M | CADMIUM | 1 | | | | (8) | | | | | |
| M | CHROMIUM | 10 | | | | (8) | | | | | |
| M | COPPER | 3 | | | | (8) | | | | | |
| M | CYANIDE, TOTAL | 5 | | | | (8) | | | | | |
| | CYANIDE, AVAILABLE [3a] | 5 | | | | (8) | | | | | |
| M | LEAD | 3 | | | | (8) | | | | | |
| M | NICKEL | 5 | | | | (8) | | | | | |
| M | SILVER | 1 | | | | (8) | | | | | |
| M | ZINC | 5 | | | | (8) | | | | | |

**Maine Department of Environmental Protection**
**WET and Chem**
**This form is for reporting laboratory data and facility information. Official compliance reviews will be done by DEP.**

| | **PRIORITY POLLUTANTS** [4] | | Effluent Limits | | | | | | Possible Exceedence [7] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Reporting Limit | Acute[6] | Chronic[6] | Health[6] | | | Reporting Limit Check | Acute | Chronic | Health |
| M | ANTIMONY | 5 | | | | | | | | | |
| M | BERYLLIUM | 2 | | | | | | | | | |
| M | MERCURY (5) | 0.2 | | | | | | | | | |
| M | SELENIUM | 5 | | | | | | | | | |
| M | THALLIUM | 4 | | | | | | | | | |
| A | 2,4,6-TRICHLOROPHENOL | 5 | | | | | | | | | |
| A | 2,4-DICHLOROPHENOL | 5 | | | | | | | | | |
| A | 2,4-DIMETHYLPHENOL | 5 | | | | | | | | | |
| A | 2,4-DINITROPHENOL | 45 | | | | | | | | | |
| A | 2-CHLOROPHENOL | 5 | | | | | | | | | |
| A | 2-NITROPHENOL | 5 | | | | | | | | | |
| A | 4,6 DINITRO-O-CRESOL (2-Methyl-4,6-dinitrophenol) | 25 | | | | | | | | | |
| A | 4-NITROPHENOL | 20 | | | | | | | | | |
| A | P-CHLORO-M-CRESOL (3-methyl-4-chlorophenol)+B80 | 5 | | | | | | | | | |
| A | PENTACHLOROPHENOL | 20 | | | | | | | | | |
| A | PHENOL | 5 | | | | | | | | | |
| BN | 1,2,4-TRICHLOROBENZENE | 5 | | | | | | | | | |
| BN | 1,2-(O)DICHLOROBENZENE | 5 | | | | | | | | | |
| BN | 1,2-DIPHENYLHYDRAZINE | 20 | | | | | | | | | |
| BN | 1,3-(M)DICHLOROBENZENE | 5 | | | | | | | | | |
| BN | 1,4-(P)DICHLOROBENZENE | 5 | | | | | | | | | |
| BN | 2,4-DINITROTOLUENE | 6 | | | | | | | | | |
| BN | 2,6-DINITROTOLUENE | 5 | | | | | | | | | |
| BN | 2-CHLORONAPHTHALENE | 5 | | | | | | | | | |
| BN | 3,3'-DICHLOROBENZIDINE | 16.5 | | | | | | | | | |
| BN | 3,4-BENZO(B)FLUORANTHENE | 5 | | | | | | | | | |
| BN | 4-BROMOPHENYLPHENYL ETHER | 5 | | | | | | | | | |
| BN | 4-CHLOROPHENYL PHENYL ETHER | 5 | | | | | | | | | |
| BN | ACENAPHTHENE | 5 | | | | | | | | | |
| BN | ACENAPHTHYLENE | 5 | | | | | | | | | |
| BN | ANTHRACENE | 5 | | | | | | | | | |
| BN | BENZIDINE | 45 | | | | | | | | | |
| BN | BENZO(A)ANTHRACENE | 8 | | | | | | | | | |
| BN | BENZO(A)PYRENE | 5 | | | | | | | | | |
| BN | BENZO(G,H,I)PERYLENE | 5 | | | | | | | | | |
| BN | BENZO(K)FLUORANTHENE | 5 | | | | | | | | | |
| BN | BIS(2-CHLOROETHOXY)METHANE | 5 | | | | | | | | | |
| BN | BIS(2-CHLOROETHYL)ETHER | 6 | | | | | | | | | |
| BN | BIS(2-CHLOROISOPROPYL)ETHER | 6 | | | | | | | | | |
| BN | BIS(2-ETHYLHEXYL)PHTHALATE | 10 | | | | | | | | | |
| BN | BUTYLBENZYL PHTHALATE | 5 | | | | | | | | | |
| BN | CHRYSENE | 5 | | | | | | | | | |
| BN | DI-N-BUTYL PHTHALATE | 5 | | | | | | | | | |
| BN | DI-N-OCTYL PHTHALATE | 5 | | | | | | | | | |
| BN | DIBENZO(A,H)ANTHRACENE | 5 | | | | | | | | | |
| BN | DIETHYL PHTHALATE | 5 | | | | | | | | | |
| BN | DIMETHYL PHTHALATE | 5 | | | | | | | | | |
| BN | FLUORANTHENE | 5 | | | | | | | | | |

**Maine Department of Environmental Protection**
**WET and Chem**
**This form is for reporting laboratory data and facility information. Official compliance reviews will be done by DEP.**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BN | FLUORENE | 5 | | | | | | | | | |
| BN | HEXACHLOROBENZENE | 5 | | | | | | | | | |
| BN | HEXACHLOROBUTADIENE | 5 | | | | | | | | | |
| BN | HEXACHLOROCYCLOPENTADIENE | 10 | | | | | | | | | |
| BN | HEXACHLOROETHANE | 5 | | | | | | | | | |
| BN | INDENO(1,2,3-CD)PYRENE | 5 | | | | | | | | | |
| BN | ISOPHORONE | 5 | | | | | | | | | |
| BN | N-NITROSODI-N-PROPYLAMINE | 10 | | | | | | | | | |
| BN | N-NITROSODIMETHYLAMINE | 5 | | | | | | | | | |
| BN | N-NITROSODIPHENYLAMINE | 5 | | | | | | | | | |
| BN | NAPHTHALENE | 5 | | | | | | | | | |
| BN | NITROBENZENE | 5 | | | | | | | | | |
| BN | PHENANTHRENE | 5 | | | | | | | | | |
| BN | PYRENE | 5 | | | | | | | | | |
| P | 4,4'-DDD | 0.05 | | | | | | | | | |
| P | 4,4'-DDE | 0.05 | | | | | | | | | |
| P | 4,4'-DDT | 0.05 | | | | | | | | | |
| P | A-BHC | 0.2 | | | | | | | | | |
| P | A-ENDOSULFAN | 0.05 | | | | | | | | | |
| P | ALDRIN | 0.15 | | | | | | | | | |
| P | B-BHC | 0.05 | | | | | | | | | |
| P | B-ENDOSULFAN | 0.05 | | | | | | | | | |
| P | CHLORDANE | 0.1 | | | | | | | | | |
| P | D-BHC | 0.05 | | | | | | | | | |
| P | DIELDRIN | 0.05 | | | | | | | | | |
| P | ENDOSULFAN SULFATE | 0.1 | | | | | | | | | |
| P | ENDRIN | 0.05 | | | | | | | | | |
| P | ENDRIN ALDEHYDE | 0.05 | | | | | | | | | |
| P | G-BHC | 0.15 | | | | | | | | | |
| P | HEPTACHLOR | 0.15 | | | | | | | | | |
| P | HEPTACHLOR EPOXIDE | 0.1 | | | | | | | | | |
| P | PCB-1016 | 0.3 | | | | | | | | | |
| P | PCB-1221 | 0.3 | | | | | | | | | |
| P | PCB-1232 | 0.3 | | | | | | | | | |
| P | PCB-1242 | 0.3 | | | | | | | | | |
| P | PCB-1248 | 0.3 | | | | | | | | | |
| P | PCB-1254 | 0.3 | | | | | | | | | |
| P | PCB-1260 | 0.2 | | | | | | | | | |
| P | TOXAPHENE | 1 | | | | | | | | | |
| V | 1,1,1-TRICHLOROETHANE | 5 | | | | | | | | | |
| V | 1,1,2,2-TETRACHLOROETHANE | 7 | | | | | | | | | |
| V | 1,1,2-TRICHLOROETHANE | 5 | | | | | | | | | |
| V | 1,1-DICHLOROETHANE | 5 | | | | | | | | | |
| V | 1,1-DICHLOROETHYLENE (1,1-dichloroethene) | 3 | | | | | | | | | |
| V | 1,2-DICHLOROETHANE | 3 | | | | | | | | | |
| V | 1,2-DICHLOROPROPANE | 6 | | | | | | | | | |
| V | 1,2-TRANS-DICHLOROETHYLENE (1,2-trans-dichloroethene) | 5 | | | | | | | | | |
| V | 1,3-DICHLOROPROPYLENE (1,3-dichloropropene) | 5 | | | | | | | | | |
| V | 2-CHLOROETHYLVINYL ETHER | 20 | | | | | | | | | |
| V | ACROLEIN | NA | | | | | | | | | |
| V | ACRYLONITRILE | NA | | | | | | | | | |
| V | BENZENE | 5 | | | | | | | | | |

**Maine Department of Environmental Protection**
**WET and Chem**
**This form is for reporting laboratory data and facility information. Official compliance reviews will be done by DEP.**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| V | BROMOFORM | 5 | | | | | | | | | |
| V | CARBON TETRACHLORIDE | 5 | | | | | | | | | |
| V | CHLOROBENZENE | 6 | | | | | | | | | |
| V | CHLORODIBROMOMETHANE | 3 | | | | | | | | | |
| V | CHLOROETHANE | 5 | | | | | | | | | |
| V | CHLOROFORM | 5 | | | | | | | | | |
| V | DICHLOROBROMOMETHANE | 3 | | | | | | | | | |
| V | ETHYLBENZENE | 10 | | | | | | | | | |
| V | METHYL BROMIDE (Bromomethane) | 5 | | | | | | | | | |
| V | METHYL CHLORIDE (Chloromethane) | 5 | | | | | | | | | |
| V | METHYLENE CHLORIDE | 5 | | | | | | | | | |
| V | TETRACHLOROETHYLENE (Perchloroethylene or Tetrachloroethene) | 5 | | | | | | | | | |
| V | TOLUENE | 5 | | | | | | | | | |
| V | TRICHLOROETHYLENE (Trichloroethene) | 3 | | | | | | | | | |
| V | VINYL CHLORIDE | 5 | | | | | | | | | |

**Notes:**

(1) Flow average for day pertains to WET/PP composite sample day.

(2) Flow average for month is for month in which WET/PP sample was taken.

(3) Analytical chemistry parameters must be done as part of the WET test chemistry.

(3a) Cyanide, Available (Cyanide Amenable to Chlorination) is not an analytical chemistry parameter, but may be required by certain discharge permits .

(4) Priority Pollutants should be reported in micrograms per liter (ug/L).

(5) Mercury is often reported in nanograms per liter (ng/L) by the contract laboratory, so be sure to convert to micrograms per liter on this spreadsheet.

(6) Effluent Limits are calculated based on dilution factor, background allocation (10%) and water quality reserves (15% - to allow for new or changed discharges or non-point sources).

(7) Possible Exceedence determinations are done for a single sample only on a mass basis using the actual pounds discharged. This analysis does not consider watershed wide allocations for fresh water discharges.

(8) These tests are optional for the receiving water. However, where possible samples of the receiving water should be preserved and saved for the duration of the WET test. In the event of questions about the receiving water's possible effect on the WET results, chemistry tests should then be conducted.

(9) pH and Total Residual Chlorine must be conducted at the time of sample collection. Tests for Total Residual Chlorine need be conducted only when an effluent has been chlorinated or residual chlorine is believed to be present for any other reason.

Comments:

**MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT**
**AND**
**WASTE DISCHARGE LICENSE MODIFICATION**

# FACT SHEET

DATE: **March 15, 2017**

MEPDES PERMIT: **ME0101842**
WASTE DISCHARGE LICENSE: **W002624-6C-K-M**

NAME AND ADDRESS OF APPLICANT:

**SABATTUS SANITARY DISTRICT**
**22 LISBON STREET**
**SABATTUS, ME 04280**

COUNTY: **ANDROSCOGGIN**

NAME AND ADDRESS WHERE DISCHARGE OCCURS:

**SABATTUS SANITARY DISTRICT**
**22 LISBON STREET**
**SABATTUS, MAINE 04280**

RECEIVING WATER / CLASSIFICATION: **SABATTUS RIVER/CLASS C**

COGNIZANT OFFICIAL AND TELEPHONE NUMBER:

**MR. PAUL H. MORIN, SUPERINTENDENT**
**SABATTUS SANITARY DISTRICT & WATER DIV.**
**email: ssdp@roadrunner.com**
**(207) 375-8008**

## 1. APPLICATION SUMMARY

a. Application: On January 30, 2017, the Department of Environmental Protection (Department) accepted a request for a modification by the Sabattus Sanitary District (District), to modify combination Waste Discharge License (WDL) # W002624-6C-J-R / Maine Pollutant Discharge Elimination System (MEPDES) permit # ME0101842, which was issued by the Department on November 16, 2016 for a five-year term.

The District has requested a modification of the 11/16/16 permit to re-evaluate the Sabattus River flow.

## 2. PERMIT SUMMARY

a. Terms and conditions: This permitting action is different from the November 16, 2016 permit in that it:

1. Amends Footnote #8 under Special Conditions A. *Effluent Limitations and Monitoring Requirements* in the Permit, to reflect the updated flow of the receiving water and subsequent dilution factor;

2. Eliminates the monthly average numeric limit for total lead based on an updated statistical evaluation of chemical-specific test results;

3. Amends Screening and Surveillance level whole effluent toxicity (WET) and analytical chemistry testing measurement frequencies to reflect Level II testing;

4. Adjusts the daily maximum total residual chlorine (TRC) limit based on updated dilution factors; and

5. Adjusts the monthly average total phosphorus effluent limit based on updated chronic river flow data.

b. History: This section provides a summary of significant licensing/permitting actions and milestones that have been completed for the permittee's facility.

*August 1, 1990* - The Department issued WDL #W002624-59-C-R for the Sabattus facility which superseded WDL #W002624-45-A-R issued on March 23, 1984.

*August 5, 1994* - The U.S. Environmental Protection Agency (USEPA) issued National Pollutant Discharge Elimination System (NPDES) permit #ME0101842 for the Sabattus facility, superseding an earlier NPDES permit issued on March 28, 1986.

**2. PERMIT SUMMARY (cont'd)**

*December 11, 1995* – The Department issued a letter to Sabattus stating that 1994 ambient water quality sampling revealed that the Sabattus River was not meeting Class C water standards for dissolved oxygen. The Department noted that at the time of sampling, Sabattus was discharging below licensed BOD limits while river flow was above the 7Q10 flow. The Department anticipated that nutrient loading to the River from Sabattus Pond was significant enough that it was unlikely that additional loading would be allowed in Sabattus' discharge during warmer months. The Department advised Sabattus to investigate alternate waste water disposal methods.

*December 19, 1995* – The Department issued a letter to Sabattus stating that insufficient river water quality data existed to allow reissuance of Sabattus' WDL. Based on existing data, the Department was unable to determine the relationship between Sabattus' discharge and the discharge of algae from Sabattus Pond in the river's failure to attain Class C water standards. The Department noted that additional river monitoring was planned for the future.

*February 5, 1996* – The USEPA issued a modification of NPDES permit #ME0101842 to the Sabattus Sanitary District, reducing federal surveillance level WET testing requirements from the four acute and chronic tests per year specified in a NPDES permit issued August 5, 1994, to one chronic test per year.

*April 6, 1999* – The USEPA issued a letter to Sabattus stating that beginning with the 1996 NPDES modification, Sabattus' federal testing requirements for Priority Pollutants consist of one test per year.

*September 2, 1999* – The Board of Environmental Protection (BEP) issued #L-19911-36-A-N, approving a new water level and minimum flow regime for Sabattus Pond. This Order carried forward the previously established minimum flow of 2.5 cubic feet per second (cfs) from the Sabattus Pond dam.

*March 2, 2000* – The Department notified Sabattus that statistical evaluations of WET and chemical specific test results conducted on June 14, 1999, indicated several "reasonable potentials to exceed" ambient water quality standards and licensed mass limits. Pursuant to Department Rule Chapter 530.5, *Surface Water Toxics Control Program*, the Department required Sabattus to submit a Toxic Reduction Evaluation for arsenic to the Department. Sabattus subsequently agreed to monitor for arsenic in its effluent on a quarterly basis.

*May 23, 2000* – The Department administratively modified the 8/1/90 WDL by establishing interim mean and maximum technology based concentration limitations of 4.5 ng/L and 6.8 ng/L, respectively for mercury.

**2. PERMIT SUMMARY (cont'd)**

*September 1, 2000* – The Department issued #S-022065-SC-A-N, granting the Sabattus Sanitary District Program Approval for sludge application. The Program Approval establishes sewage sludge monitoring requirements and management protocols, and provides standards for determining when site-specific licenses are necessary for utilization or storage of sewage sludge.

*January 12, 2001* - The Department received authorization from the USEPA to administer the NPDES program in Maine. From that point forward, the program has been referred to as the Maine Pollutant Discharge Elimination System (MEPDES) permit program.

*March 29, 2001* – The inter-local Sabattus Lake Dam Commission issued a new water level and minimum flow Order for Sabattus Pond. This Order supersedes BEP Order #L-19911-36-A-N, dated September 2, 1999, and carries forward the 2.5 CFS minimum flow requirement.

*November 12, 2001* – The Department issued combination MEPDES permit ME0101842/Waste Discharge License (WDL) #W002624-5L-D-R for a five-year term.

*April 10, 2006* – The Department administratively modified the 11/12/01 permit by establishing applicable monitoring requirement pursuant to a revised Department rule found at Chapter 530, *Surface Water Toxics Control Program*, promulgated on October 12, 2005.

*November 7, 2006* – The Department issued combination MEPDES permit ME0101842/WDL #W002624-5L-E-R for a five-year term.

*March 23, 2011* – The Department issued MEPDES permit modification ME0101842/WDL #W002624-6C-F-M that established monthly average and or daily maximum water quality based mass and concentration limits for inorganic arsenic, total copper and total lead.

*September 27, 2011* – The Department issued combination MEPDES permit ME0101842/WDL #W002624-6C-G-R for a five year term.

*September 11, 2013* – The Department issued MEPDES permit modification ME0101842/WDL #002624-6C-I-M eliminating the monthly average water quality-based mass limit and monitoring requirement for inorganic arsenic and the monitoring and reporting requirement for total arsenic.

*May 9, 2016* – The permittee submitted a timely and complete General Application to the Department for renewal of the September 27, 2011 permit (including subsequent minor permit revisions and permit modifications). The application was accepted for processing on May 10, 2016 and was assigned WDL #W002624-6C-J-R / MEPDES #ME0101842.

**2. PERMIT SUMMARY (cont'd)**

*November 16, 2016* – The Department issued combination MEPDES permit #ME0101842/ WDL#W002624-6C-J-R for a five-year term.

*January 30, 2017* – The District submits a request to the Department to modify the 11/16/16 permit. The request was approved on the same day and was assigned WDL #W002624-6C-K-M / MEPDES permit #ME0101842.

c. Source Description: The wastewater treatment facility receives sanitary wastewater flows generated by approximately 1,500 residential users within the District's boundaries. The collection system is a separated system approximately 10 miles in length with forty (40) pump stations and no combined sewer overflow (CSO) points. Two (2) of the pump stations have on-site generators to provide back-up power in the event of a power failure and the remaining thirty eight (38) stations have emergency generator receptacles and manual transfer switches such that back-up power via a portable generator can be supplied to the stations in the event of a power failure. None of the pump stations have constructed emergency overflow/bypasses. The treatment facility is not authorized by this permit to accept septage from local septage haulers.

A map showing the location of the facility and the receiving water is included as Fact Sheet **Attachment A.**

d. Wastewater Treatment: Wastewater generated in the Town of Sabattus is conveyed to the facility via a sewer collection system containing eleven (11) major pump stations and twenty nine (29) smaller lift stations. At the facility headworks building, wastewater passes through a bar rack for screening, then is pumped (without treatment) through the 0.1 million gallon (MG) former primary (Imhoff) tank. Wastewater flow can be split between two package treatment units, each of which contain a 75,000 gallon aeration tank for extended diffused aeration, a 37,000 gallon secondary clarifier, and a 48,119 gallon aerobic sludge digester, which also utilizes diffused aeration. Currently, influent is directed through one unit. Treated effluent is then conveyed to four sand filter units, each measuring 135 feet by 77 feet, for polishing. Seasonally, wastewater is then disinfected with sodium hypochlorite in a 187 gallon chlorination mix chamber and an 8,000 gallon chlorine contact tank. Detention time in the contact tank is 19 minutes under peak flow and 95 minutes under average flow conditions. Effluent is then dechlorinated with ascorbic acid in a 160 gallon dechlorination chamber. Detention time in the dechlorination chamber is 23 seconds under peak flow and 115 seconds under average flow conditions. Final treated effluent is discharged to the Sabattus River through a 12-inch diameter outfall pipe, which splits into three diffuser pipes positioned six feet apart.

Sludge is pumped from the aerobic sludge digester to a 24,235 gallon sludge storage tank, then to a 7,480 gallon sludge stabilization tank. Sludge is then conveyed to two on-site reed beds.

See **Attachment B** for a schematic of the wastewater treatment facility.

## 3. CONDITIONS OF PERMIT

*Conditions of licenses,* 38 M.R.S. § 414-A, requires that the effluent limitations prescribed for discharges, including, but not limited to, effluent toxicity, require the application of best practicable treatment (BPT), be consistent with the U.S. Clean Water Act, and ensure that the receiving waters attain the State water quality standards as described in Maine's Surface Water Classification System. In addition, *Certain deposits and discharges prohibited*, 38 M.R.S. § 420 and Department rule *Surface Water Toxics Control Program*, 06-096 CMR 530 (effective March 21, 2012), require the regulation of toxic substances not to exceed levels set forth in *Surface Water Quality Criteria for Toxic Pollutants,* 06-096 CMR 584 (effective July 29, 2012), and that ensure safe levels for the discharge of toxic pollutants such that existing and designated uses of surface waters are maintained and protected.

## 4. RECEIVING WATER QUALITY STANDARDS

*Classification of major river basins,* 38 M.R.S. § 467(1)(D)(3) classifies the Sabattus River at the point of discharge ("Sabattus River from Sabattus Lake to limits of the Lisbon urban area") as Class C water. *Standards for classification of fresh surface waters,* 38 M.R.S. § 465(4) describes the standards for Class C waters.

## 5. RECEIVING WATER QUALITY CONDITIONS

The *State of Maine 2014 Integrated Water Quality Monitoring and Assessment Report* (Report), prepared by the Department pursuant to Sections 303(d) and 305(b) of the Federal Water Pollution Control Act, lists the 9.1 mile long main stem segment named "Sabattus River from Sabattus Pond to the Androscoggin River" which runs from Sabattus Pond to the limits of Lisbon urban area, (Assessment Unit ID ME0104000210_418R01) as, "Category 2: Rivers and Streams Attaining Some Designated Uses – Insufficient Information for Other Uses." The comment states:

> "11/4/2014: Sabattus Pond Watershed Project Phase III completed (January 2010-September 2012). Pond continues to have high nutrient levels; no new river data available. 5/1/2012: Sabattus Pond eutrophic and source of SOD in river; lake TMDL complete 2004; slow recovery is expected. This AU was split into upper, Class C segment and lower, Class B segment (ME0104000210_418R03) in 2012 cycle, location description was updated and length was reduced from 11.4 to 9.1 miles; aquatic life use impairment (Benthic-Macroinvertebrate Bioassessments) was delisted to Category 2 due to classification attainment at 3 biomonitoring stations (S-359, S-629, S-630) on 2-3 occasions. Aquatic life use impairment due to DO and nutrient/eutrophication biological indicators continues (Category 5-A). Also in Category 5-A for DO and nutrient/eutrophication biological indicators."

## 5. RECEIVING WATER QUALITY CONDITIONS (cont'd)

The Report also lists the segment containing the discharge under Category 5-A: Rivers and Streams Impaired by Pollutants Other Than Those Listed in 5-B Through 5-D (Total Maximum Daily Load (TMDL) Required). The Report lists the cause of impairment as Nutrient/Eutrophication Biological Indicators and Dissolved Oxygen. The comment under the Category 5 listing is identical to the comment from Category 2 (as stated previously in this section).

The Report lists all of Maine's fresh waters as, "Category 4-A: Waters Impaired by Atmospheric Deposition of Mercury." Impairment in this context refers to a statewide fish consumption advisory due to elevated levels of mercury in some fish tissues. The Report states, "All freshwaters are listed in Category 4A TMDL Completed due to USEPA approval of a Regional Mercury TMDL." Maine has a fish consumption advisory for fish taken from all freshwaters due to mercury. Many fish from any given waters do not exceed the action level for mercury. However, because it is impossible for someone consuming a fish to know whether the mercury level exceeds the action level, the Maine Department of Health and Human Services decided to establish a statewide advisory for all freshwater fish that recommends limits on consumption.

Maine has already instituted statewide programs for removal and reduction of mercury sources. Pursuant to 38 M.R.S. § 420(1-B)(B), "a facility is not in violation of the ambient criteria for mercury if the facility is in compliance with an interim discharge limit established by the Department pursuant to section 413 subsection 11." The Department has established interim monthly average and daily maximum mercury concentration limits and reporting requirements for this facility pursuant to 06-096 CMR 519.

The Department has no information that the discharge from the permittee, as conditioned, causes or contributes to non-attainment of applicable Class C water quality standards.

## 6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS

a. Flow: The previously established monthly average discharge flow limitation of 0.120 MGD, which is based on the dry weather design criterion for the facility, is being carried forward in this permitting action.

The Department reviewed 53 discharge monitoring reports (DMR) that were submitted for the period of December 1, 2011 through May 1, 2016. A review of data indicates the following:

**Flow**

| Value | Limit (MGD) | Range (MGD) | Mean (MGD) |
|---|---|---|---|
| Monthly Average | 0.120 | 0.07 – 0.12 | 0.1 |
| Daily Maximum | Report | 0.09 – 0.30 | 0.2 |

**6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)**

b. Dilution Factors: The Department established applicable dilution factors for the discharge in accordance with freshwater protocols established in *Surface Water Toxics Control Program,* 06-096 CMR 530 (last amended March 21, 2012). An assessment of flow from the upstream dam indicates that the minimum release flow is 3.7 cubic feet per second (cfs). No additional adjustments were added given the proximity of the dam to the discharge point. Therefore, with a monthly average flow limit of 0.12 MGD, dilution factors for the facility are as follows:

| | |
|---|---|
| Dilution Factor ⇒ | $\frac{\text{River Flow (cfs)(Conv. Factor)} + \text{Plant Flow (MGD)}}{\text{Plant Flow (MGD)}}$ |
| Acute: 1Q10 = 3.7 cfs | $\Rightarrow \frac{(3.7\text{ cfs})(0.6464) + (0.12\text{ MGD})}{(0.12\text{ MGD})} = 21{:}1$ |
| Chronic: 7Q10 = 3.7 cfs | $\Rightarrow \frac{(3.7\text{ cfs})(0.6464) + (0.12\text{ MGD})}{(0.12\text{ MGD})} = 21{:}1$ |
| Harmonic Mean: = 11.1 cfs | $\Rightarrow \frac{(11.1\text{ cfs})(0.6464) + (0.12\text{ MGD})}{(0.12\text{ MGD})} = 61{:}1$ |

The harmonic mean dilution factor is approximated by multiplying the chronic dilution factor by three (3). This multiplying factor is based on guidelines for estimation of human health dilution presented in the USEPA publication Technical Support Document for Water Quality-Based Toxics Control (Office of Water; EPA/505/2-90-001, page 88), and represents an estimation of harmonic mean flow.

c. $BOD_5$ and TSS: Previous permitting action established, and this permitting action is carrying forward, monthly average and weekly average $BOD_5$ and TSS concentration limits of 30 mg/L and 45 mg/L, respectively, which were based on secondary treatment requirements pursuant to 40 CFR 133.102 and 06-096 CMR 525(3)(III). Previous permitting action also established, and this permitting action is carrying forward, daily maximum $BOD_5$ and TSS concentration limits of 50 mg/L based on a Department best professional judgement (BPJ) of BPT for secondary treated wastewater. All three concentration limitations are applicable on a year-round basis and are being carried forward in this permitting action.

## 6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)

The previous permitting action established seasonal monthly average and weekly average mass limits based on a monthly average limit of 0.12 MGD for the months of October 1 through May 31, which are being carried forward in this permitting action. The mass limits were calculated as follows:

Monthly average: (0.12 MGD)(8.34)(30 mg/L) = 30 lbs./day
Weekly average: (0.12 MGD)(8.34)(45 mg/L) = 45 lbs./day
Daily maximum: (0.12 MGD)(8.34)(50 mg/L) = 50 lbs./day

For the summer months (June 1 – September 30), water quality-based limits were established as limitations necessary to comply with the 30-day rolling average Class C dissolved oxygen criteria of 6.5 mg/L at 22°C in the receiving water based on a Department BPJ given water quality data and modeling at the time of permit issuance. The mass limits were derived as follows:

Monthly average: (0.12 MGD)(8.34)(17 mg/L) = 17 lbs./day
Weekly average: (0.12 MGD)(8.34)(45 mg/L) = 45 lbs./day
Daily maximum: (0.12 MGD)(8.34)(50 mg/L) = 50 lbs./day

All mass limits are being carried forward in this permitting action. The Department reviewed DMRs that were submitted for the period of December 1, 2011 through May 1, 2016. A review of data indicates the following:

***Summer (June 1 – September 30)***

**BOD Mass (n=16)**

| Value | Limit (lbs./day) | Range (lbs./day) | Average (lbs./day) |
|---|---|---|---|
| Monthly Average | 17 | 1.4 – 7.6 | 4 |
| Weekly Average | 45 | 2 – 11 | 5 |
| Daily Maximum | 50 | 2 – 11 | 5 |

**BOD Concentration (n=16)**

| Value | Limit (mg/L) | Range (mg/L) | Average (mg/L) |
|---|---|---|---|
| Monthly Average | 17 | 3 – 11 | 6 |
| Weekly Average | 45 | 3 – 18 | 7 |
| Daily Maximum | 50 | 3 – 18 | 7 |

## 6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)

***Non-summer (October 1 – May 31)***

**BOD Mass (n=37)**

| Value | Limit (lbs./day) | Range (lbs./day) | Average (lbs./day) |
|---|---|---|---|
| Monthly Average | 30 | 1.8 – 21 | 9 |
| Weekly Average | 45 | 6 – 35 | 14 |
| Daily Maximum | 50 | 5 – 35 | 14 |

**BOD Concentration (n=37)**

| Value | Limit (mg/L) | Range (mg/L) | Average (mg/L) |
|---|---|---|---|
| Monthly Average | 30 | 3 – 24 | 12 |
| Weekly Average | 45 | 8 – 32 | 16 |
| Daily Maximum | 50 | 6 - 32 | 16 |

***Year-round***

**TSS mass (n=53)**

| Value | Limit (lbs./day) | Range (lbs./day) | Average (lbs./day) |
|---|---|---|---|
| Monthly Average | 30 | 1 - 17 | 6 |
| Weekly Average | 45 | 1 – 25 | 9 |
| Daily Maximum | 50 | 1 - 25 | 9 |

**TSS concentration (n=53)**

| Value | Limit (mg/L) | Range (mg/L) | Average (mg/L) |
|---|---|---|---|
| Monthly Average | 30 | 1 – 20 | 8 |
| Weekly Average | 45 | 2 - 42 | 12 |
| Daily Maximum | 50 | 2 - 42 | 12 |

This permitting action is carrying forward the monitoring frequencies for $BOD_5$ and TSS of 1/Week.

This permitting action is also carrying forward the requirement for a minimum of 85% removal of $BOD_5$ & TSS pursuant to 06-096 C.M.R. 525(3)(III)(a)(3) and (b)(3). The permittee has not demonstrated that it qualifies for special considerations pursuant to 06-096 C.M.R. 525(3)(IV) to maintain a waiver from the 85% removal requirement when influent concentration is less than 200 mg/L, which was established in the previous permit. Therefore, this permitting action is eliminating the waiver from the 85% removal requirement provided in the previous permitting action when influent concentration is less than 200 mg/L.

**6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)**

A review of the DMR data for the period December 2011 – May 2016 indicates values have been reported as follows:

**BOD % Removal (n=28)**

| Value | Limit (%) | Range (%) | Average (%) |
|---|---|---|---|
| Monthly Average | 85 | 90 - 99 | 96 |

**TSS % Removal (n=5)**

| Value | Limit (%) | Range (%) | Average (%) |
|---|---|---|---|
| Monthly Average | 85 | 92 - 99 | 96 |

Monitoring frequencies for $BOD_5$ and TSS percent removal of 1/Month are being carried forward in this permitting action.

d. Settleable Solids: The previous permitting action established a daily maximum concentration limit of 0.3 milliliters per liter (mL/L) for settleable solids and is considered by the Department as a best professional judgement of BPT for secondary treated wastewater. A review of the DMR data for the period of December 1, 2011 through May 1, 2016 (n = 53) indicates all values were less than the 0.3 daily maximum limits. Due to the consistent nature of the results, this permitting action is reducing the monitoring frequency from 5/Week to 3/Week.

e. *Escherichia coli* bacteria: The previous permitting action established, and this permitting action is carrying forward, seasonal monthly average and daily maximum *Escherichia coli* bacteria limitations of 126 colonies/100 ml (geometric mean) and 949 colonies/100 ml (instantaneous), respectively, that are in effect between May 15 and September 30, inclusive, of each year.

During calendar year 2005, Maine's Legislature approved a new daily maximum water quality standard of 236 colonies/100 ml for Class B and Class C waters. The Department has determined that end-of-pipe limitations for the instantaneous concentration standard of 236 colonies/100 mL will be achieved through available dilution of the effluent with the receiving waters and need not be revised in MEPDES permits for facilities with adequate dilution.

**6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)**

A review of the bacterial testing data as reported on the monthly DMRs for the period of December 1, 2011 – May 1, 2016 indicates the permittee has been in compliance with the permit limits 100% of the time. A statistical summary of the reported *E. coli* bacteria test results is as follows:

***E. coli* Bacteria (n=20)**

| Value | Limit (col/100 ml) | Range (col/100 ml) | Mean (col/100 ml) |
|---|---|---|---|
| Monthly Average | 126 | 1 – 12 | 3 |
| Daily Maximum | 949 | 1 – 36 | 7 |

f. Total Residual Chlorine (TRC): The previous permitting action established a technology based (BPT) limit of 0.1 mg/L and a daily maximum water quality based limit of 0.28 mg/L that are being carried forward in this permitting action (this permit is correcting a minor rounding error for the daily maximum limit). This permit modification updates the end-of-pipe water quality based concentration limits below. Limits on total residual chlorine (TRC) are specified to ensure that ambient water quality standards are maintained and that BPT technology is being applied to the discharge. The Department imposes the more stringent of the water quality or technology based limits in permitting actions. End-of-pipe water quality based concentration thresholds may be calculated as follows:

| Criterion | | Dilution Factors | Calculated Threshold |
|---|---|---|---|
| Mod. Acute | 0.019 mg/L | 21:1 | 0.4 mg/L |
| Chronic | 0.011 mg/L | 21:1 | 0.23 mg/L |

To meet the new water quality based thresholds calculated above, the permittee must continue to dechlorinate the effluent prior to discharge. The Department has established daily maximum and monthly average best practicable treatment (BPT) limitations of 0.3 mg/L and 0.1 mg/L respectively, for facilities that need to dechlorinate their effluent unless calculated water quality based limits are lower than the BPT limits. In the case of the permittee's facility, the calculated acute water quality based limit is higher than 0.3 mg/L, thus the daily maximum BPT-based limit of 0.3 mg/L is imposed. As for the monthly average, the calculated chronic water quality based limit is higher than the BPT limit of 0.1 mg/L, thus the monthly average BPT limit of 0.1 mg/L is imposed.

Although bacteria limitations are seasonal and apply between May 15 and September 30 of each year, the facility must monitor and report TRC during any period that chlorine-based compounds are in use at the facility because chlorine compounds are toxic at all times of the year. This permit is carrying forward the 1/Day monitoring requirement while chlorine-based compounds are being used.

## 6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)

A summary of TRC data as reported on the monthly DMRs for the period of December 1, 2011 – May 1, 2016 is as follows:

**Total residual chlorine (DMRs=20)**

| Value | Limit (mg/L) | Range (mg/L) | Mean (mg/L) |
|---|---|---|---|
| Monthly Average | 0.1 | 0.01 – 0.02 | 0.0 |
| Daily Maximum | 0.3 | 0.02 – 0.12 | 0.1 |

g. pH: The previous permitting action established a technology based pH range limitation of 6.0 – 9.0 standard units pursuant to 06-096 CMR 525(3)(III)(c) along with a monitoring frequency of 1/Day. A review of the DMR data for the period of December 1, 2011 through May 1, 2016 (n = 53) indicates the pH values ranged from 6.4 to 7.4 standard units. This permitting action is carrying forward the previously established pH range limitation, however this, this permitting action is reducing the monitoring frequency from 1/Day to 3/Week based on the consistent results.

### *Whole Effluent Toxicity, Priority Pollutant, and Analytical Chemistry Testing*

38 M.R.S. § 414-A and 38 M.R.S. § 420 prohibit the discharge of effluents containing substances in amounts that would cause the surface waters of the State to contain toxic substances above levels set forth in Federal Water Quality Criteria as established by the USEPA. 06-096 CMR 530 sets forth effluent monitoring requirements and procedures to establish safe levels for the discharge of toxic pollutants such that existing and designated uses of surface waters are maintained and protected and narrative and numeric water quality criteria are met. 06-096 CMR 584 sets forth ambient water quality criteria (AWQC) for toxic pollutants and procedures necessary to control levels of toxic pollutants in surface waters.

WET, priority pollutant and analytical chemistry testing, as required by 06-096 CMR 530, is included in this permit in order to characterize the effluent. WET monitoring is required to assess and protect against impacts upon water quality and designated uses caused by the aggregate effect of the discharge on specific aquatic organisms. Acute and chronic WET tests are performed on the water flea *(Ceriodaphnia dubia)* and the brook trout *(Salvelinus fontinalis).* Chemical-specific monitoring is required to assess the levels of individual toxic pollutants in the discharge, comparing each pollutant to acute, chronic, and human health water quality criteria. Priority pollutant testing refers to the analysis for levels of priority pollutants listed under "Priority Pollutants" on the form included as **Attachment E** of the permit. Analytical chemistry refers to those pollutants listed under "Analytical Chemistry" on the form included as **Attachment E** of the permit.

## 6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)

06-096 CMR 530(2)(A) specifies the dischargers subject to the rule as:

> All licensed dischargers of industrial process wastewater or domestic wastes discharging to surface waters of the State must meet the testing requirements of this section. Dischargers of other types of wastewater are subject to this subsection when and if the Department determines that toxicity of effluents may have reasonable potential to cause or contribute to exceedences of narrative or numerical water quality criteria.

Sabattus discharges domestic (sanitary) wastewater to surface waters and is therefore subject to the testing requirements of the toxics rule.

06-096 CMR 530(2)(B) categorizes dischargers subject to the toxics rule into one of four levels (Levels I through IV).

The four categories for dischargers are as follows:

| | |
|---|---|
| Level I | Chronic dilution factor of <20:1 |
| Level II | Chronic dilution factor of ≥20:1 but <100:1. |
| Level III | Chronic dilution factor ≥100:1 but <500:1 or >500:1 and Q ≥1.0 MGD |
| Level IV | Chronic dilution factor >500:1 and Q ≤1.0 MGD |

Based on the criteria, the permittee's facility is considered a Level II discharger as the chronic dilution of the receiving water is ≥ 20:1 (21:1). 06-096 CMR 530(2)(D) specifies routine WET, priority pollutant, and analytical chemistry test schedules for Level II dischargers as follows.

**Surveillance level testing**

| Level | WET Testing | Priority pollutant testing | Analytical chemistry |
|---|---|---|---|
| II | 1 per year | None required | 2 per year |

**Screening level testing**

| Level | WET Testing | Priority pollutant testing | Analytical chemistry |
|---|---|---|---|
| II | 2 per year | 1 per year | 4 per year |

**6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)**

This permit provides for reconsideration of effluent limits and monitoring schedules after evaluation of toxicity testing results. The monitoring schedule includes consideration of results currently on file, the nature of the wastewater, existing treatment, and receiving water characteristics.

h. Whole Effluent Toxicity: 06-096 CMR 530(3)(E) states:

> For effluent monitoring data and the variability of the pollutant in the effluent**,** the Department shall apply the statistical approach in Section 3.3.2 and Table 3-2 of USEPA's "Technical Support Document for Water Quality-Based Toxics Control" (USEPA Publication 505/2-90-001, March, 1991, EPA, Office of Water, Washington, D.C.) to data to determine whether water-quality based effluent limits must be included in a waste discharge license. Where it is determined through this approach that a discharge contains pollutants or WET at levels that have a reasonable potential to cause or contribute to an exceedence of water quality criteria, appropriate water quality-based limits must be established in any licensing action.

On February 17, 2017, the Department conducted a statistical evaluation on the most recent 60 months of WET test results on file with the Department for the Sabattus POTW in accordance with the statistical approach outlined above. The 2/17/17 statistical evaluation indicates the discharge from Sabattus has not exceeded or demonstrated a reasonable potential to exceed the critical acute or chronic ambient water quality thresholds for the water flea *(Ceriodaphnia dubia)* or brook trout *(Salvelinus fontinalis)*. See **Attachment D** of this Fact Sheet for a summary of the WET test results.

06-096 CMR 530(2)(D)(3)(c) states, "Dischargers in Level II may reduce surveillance testing to one WET or specific chemical series every other year provided that testing in the preceding 60 months does not indicate any reasonable potential for exceedance as calculated pursuant to section 3(E)."

Based on the provisions of 06-096 CMR 530 and Department best professional judgment, this permitting action is carrying forward the reduced surveillance level WET testing requirements for this facility. Special Condition H. *06-096 CMR 530(2)(D)(4) Statement For Reduced/Waived Toxics Testing* of this Permit explains the statement required by the discharger to reduce WET testing.

## 6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)

i. Analytical Chemistry & Priority Pollutant Testing Evaluation:

06-096 CMR 530(4)(C) states:

> The background concentration of specific chemicals must be included in all calculations using the following procedures. The Department may publish and periodically update a list of default background concentrations for specific pollutants on a regional, watershed or statewide basis. In doing so, the Department shall use data collected from reference sites that are measured at points not significantly affected by point and non-point discharges and best calculated to accurately represent ambient water quality conditions. The Department shall use the same general methods as those in section 4(D) to determine background concentrations. For pollutants not listed by the Department, an assumed concentration of 10% of the applicable water quality criteria must be used in calculations.

06-096 CMR 530(3)(E) states, "Where it is determined through [the statistical approach referred to in USEPA's Technical Support Document for Water Quality-Based Toxics Control] that a discharge contains pollutants or WET at levels that have a reasonable potential to cause or contribute to an exceedence of water quality criteria, appropriate water quality-based limits must be established in any licensing action."

06-096 CMR 530(3)(D) states, "Where the need for effluent limits has been determined, limits derived from acute water quality criteria must be expressed as daily maximum values. Limits derived from chronic or human health criteria must be expressed as monthly average values."

On February 16, 2017, the Department conducted a statistical evaluation of the most recent 60 months of chemical-specific test results on file with the Department. The evaluation indicated that the facility no longer has a reasonable potential to exceed the ambient water quality criteria (AWQC) for lead, and therefore this parameter no longer needs to be limited in this permit. This permitting action is eliminating the effluent limitations and monitoring requirements for total lead. As for the remaining chemical specific parameters tested to date, none of the test results in the 60-month evaluation period exceed or have a reasonable potential to exceed applicable acute, chronic or human health AWQC. See **Attachment E** of this Fact Sheet for test dates and results for the pollutants of concern.

## 6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)

Based on the provisions of 06-096 CMR 530 and Department best professional judgment, this permitting action is establishing reduced surveillance level chemical specific testing requirements for this facility. Special Condition H. *06-096 CMR 530(2)(D)(4) Statement For Reduced/Waived Toxics Testing* of this Permit explains the statement required by the discharger to reduce chemical specific testing. As with reduced WET testing, the permittee must file an annual certification with the Department pursuant to Chapter 530 §2(D)(3) and Special Condition H of the permit.

j. Mercury: Pursuant to 38 M.R.S. § 420 and 38 M.R.S. § 413 and 06-096 CMR 519, the Department issued a *Notice of Interim Limits for the Discharge of Mercury* to the permittee thereby administratively modifying WDL # W002624-59-C-R by establishing interim monthly average and daily maximum effluent concentration limits of 4.5 ppt and 6.8 ppt, respectively, and a minimum monitoring frequency requirement of 4 tests per year for mercury.

38 M.R.S. § 420(1-B)(B)(1) provides that a facility is not in violation of the AWQC for mercury if the facility is in compliance with an interim discharge limit established by the Department. A review of the Department's database for the period August 1998 through December 2015 is as follows.

**Mercury (n = 17)**

| Value | Limit (ng/L) | Range (ng/L) | Mean (ng/L) |
|---|---|---|---|
| Monthly Average | 4.5 | 0.75 – 11.0 | 2 |
| Daily Maximum | 6.8 | | |

On February 6, 2012, the Department issued a minor revision to the September 27, 2011 permit thereby revising the minimum monitoring frequency requirement from four times per year to once per year pursuant to 38 M.R.S. § 420(1-B)(F). This minimum monitoring frequency is being carried forward in this permitting action.

k. Total Phosphorus: The previous permitting action established a seasonal (June-September) 2/Month monitoring and reporting condition for total phosphorus. Sabattus was required to report both monthly average and daily maximum mass and concentration values. A review of the data for the period of June 2012 through September 2015 is as follows:

**Phosphorus Mass**

| Value | Limit (lbs./day) | Range (lbs./day) | Average (lbs./day) |
|---|---|---|---|
| Monthly Average | Report | 1 – 5.6 | 3 |
| Daily Maximum | Report | 1 – 7 | 4 |

## 6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)

**Phosphorus Concentration**

| Value | Limit (mg/L) | Range (mg/L) | Average (mg/L) |
|---|---|---|---|
| Monthly Average | Report | 2.7 – 6.2 | 4 |
| Daily Maximum | Report | 2.8 – 8.2 | 5 |

*Waste Discharge License Conditions,* 06-096 CMR 523 specifies that water quality-based limits are necessary when it has been determined that a discharge has a reasonable potential to cause or contribute to an excursion above any State water quality standard including State narrative criteria.[1] In addition, 06-096 CMR 523 specifies that water quality based limits may be based upon criterion derived from a proposed State criterion, or an explicit State policy or regulation interpreting its narrative water quality criterion, supplemented with other relevant information which may include: USEPA's Water Quality Standards Handbook, October 1983, risk assessment data, exposure data, information about the pollutant from the Food and Drug Administration, and current USEPA criteria documents.[2] USEPA's Quality Criteria for Water 1986 (Gold Book) puts forth an in-stream phosphorus concentration goal of less than 0.100 mg/L in streams or other flowing waters not discharging directly to lakes or impoundments, to prevent nuisance algal growth. The use of the 0.100 mg/L Gold Book value is consistent with the requirements of 06-096 CMR 523 noted above for use in a reasonable potential (RP) calculation.

Based on the above rationale, the Department has chosen to utilize the Gold Book value of 0.100 mg/L. It is the Department's intent to continue to make determinations of actual attainment or impairment based upon environmental response indicators from specific water bodies. The use of the Gold Book value of 0.100 mg/L for use in the RP calculation will enable the Department to establish water quality-based limits in a manner that is reasonable and that appropriately establishes the potential for impairment, while providing an opportunity to acquire environmental response indicator data, numeric nutrient indicator data, and facility data as needed to refine the establishment of site specific water quality based limits for phosphorus. This permit may be reopened during the term of the permit to modify any reasonable potential calculations, phosphorus limits, or monitoring requirements based on new site-specific data.

Data from 2004 on the Sabattus River indicates that the ambient phosphorus level for the discharger is 0.053 mg/L. No new data has been collected since that time, therefore, for this calculation, 0.053 mg/L is considered the background (ambient) concentration.

The permittee has been conducting effluent monitoring as required by the November 2006 permit and carried forward in the 2011 permit renewal. Based on this data, the monthly average effluent concentration was 4.0 mg/L (4,000 micrograms per liter (µg/L)) and is considered representative of the discharge from the facility.

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[1] *Waste Discharge License Conditions,* 06-096 CMR 523(5)(d)(1)(i) (effective date January 12, 2001)
[2] 06-096 CMR 523(5)(d)(1)(vi)(A)

**6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)**

Using the following calculation and criteria, Sabattus exceeds the USEPA's Total P Ambient Water Quality Gold Book goal of 0.100 mg/L (100 µg/L) and the Department's draft ambient water quality criterion of 0.033 mg/L for phosphorus in rivers and streams not feeding lakes.

Reasonable Potential Analysis

$$Cr = \frac{QeCe + QsCs}{Qr}$$

| | | |
|---|---|---|
| Qe = Sabattus effluent flow | = | 0.12 MGD |
| Ce = effluent pollutant concentration | = | 4 mg/L |
| Qs = 7Q10 flow of receiving water | = | 2.39 MGD |
| Cs = upstream concentration | = | 0.053 mg/L |
| Qr = receiving water flow (2.39 MGD + 0.12 MGD) | = | 2.51 MGD |
| Cr = receiving water concentration | | |

$$Cr = \frac{(0.12 \text{ MGD} \times 4 \text{ mg/L}) + (2.39 \text{ MGD} \times 0.053 \text{ mg/L})}{2.51 \text{ MGD}} = 0.242 \text{ mg/L}$$

Cr = 0.242 mg/L > 0.100 (EPA Gold Book) mg/L⇒ **Exceedance**
Cr = 0.242 mg/L >0.033 (Maine Draft Criterion) mg/L ⇒ **Exceedance**

According to Department guidance, if there is reasonable potential at the Draft Criteria Rule, as well as at the Gold Book goal, a discharger must be issued a limit based on the 100 ppb (Gold Book goal), monitoring the effluent (5 Years), and conduct ambient water quality sampling to determine background phosphorus levels (1Year).

Based on effluent and ambient sampling results, this permitting action is establishing a seasonal (June 1 – September 30) monthly average limitation of 1.04 pounds per day with a 1/Week monitoring requirement for total phosphorus. The limit is based on a permitted flow of 0.12 MGD, a water quality based discharge concentration limit of 1.04 mg/L and a standard conversion factor of 8.34.

## 6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)

End of Pipe (EOP) concentration calculation
[Dilution factor x % of available capacity[3] x AWQC] + [% of background capacity x AWQC]

[21 x 0.47 x 0.1] + [0.53 x 0.1] = [0.987] + [0.053] = 1.04 mg/L

Mass limit
(EOP concentration in mg/L)(8.34 lbs./gal)(Permit flow limit in MGD)

(1.04)(8.34)(0.12) = **1.04 lbs./day**

## 7. DISCHARGE IMPACT ON RECEIVING WATER QUALITY

As permitted, the Department has determined the existing water uses will be maintained and protected and the discharge will not cause or contribute to the failure of the waterbody to meet standards for Class C classification.

## 8. PUBLIC COMMENTS

Public notice of this application was made in the *Lewiston Sun Journal* newspaper on or about January 30, 2017. The Department receives public comments on an application until the date a final agency action is taken on the application. Those persons receiving copies of draft permits must have at least 30 days in which to submit comments on the draft or to request a public hearing, pursuant to *Application Processing Procedures for Waste Discharge Licenses,* 06-096 CMR 522 (effective January 12, 2001).

## 9. DEPARTMENT CONTACTS

Additional information concerning this permitting action may be obtained from, and written comments sent to:

Cindy L. Dionne
Division of Water Quality Management
Bureau of Water Quality
Department of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017 Telephone: (207) 557-5950
e-mail: Cindy.L.Dionne@maine.gov

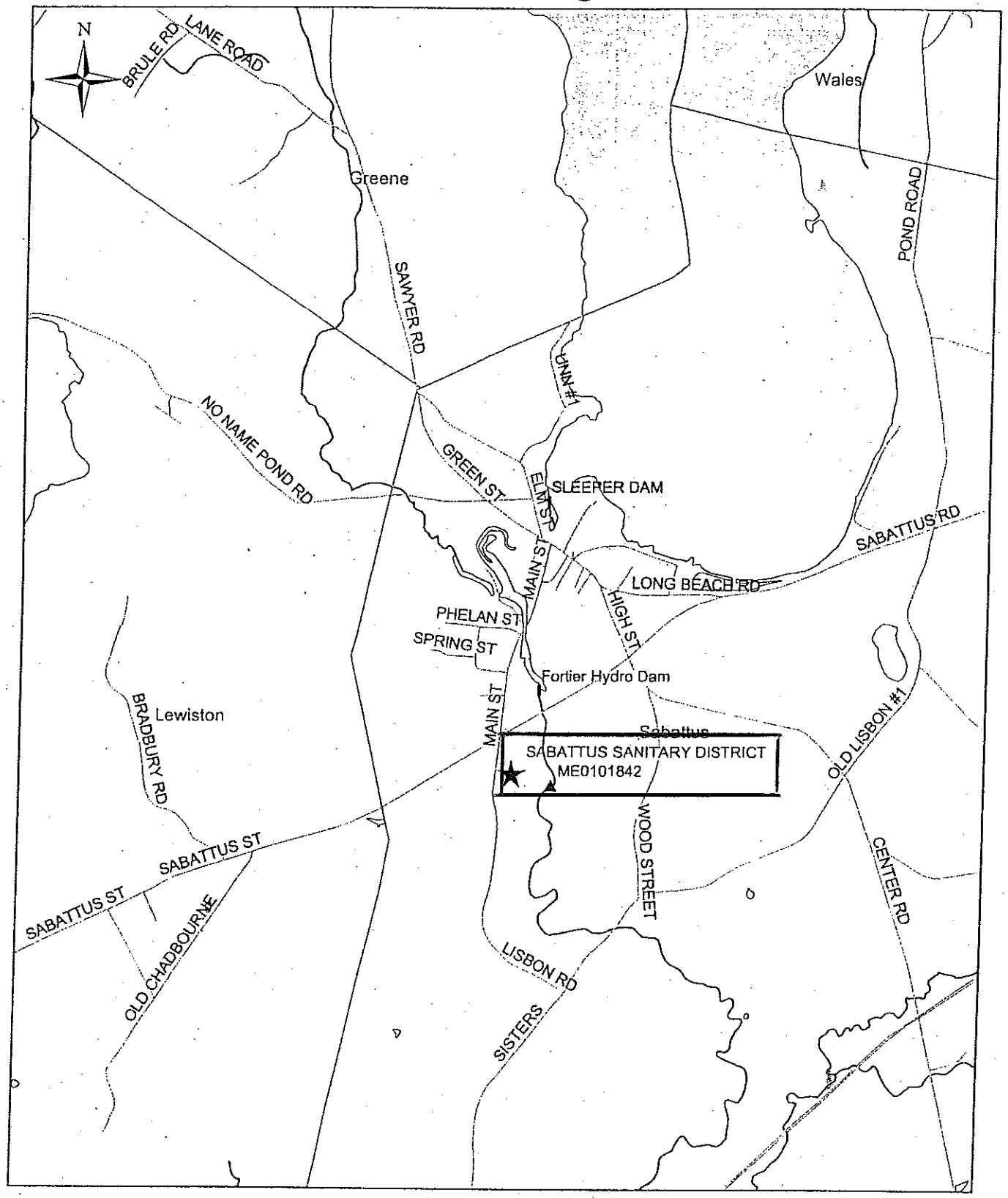
[3] % of available capacity for phosphorus = 0.1 mg/L (Gold Book) – 0.053 mg/L (background) = 0.047 mg/L or 0.47% of the Gold Book value.

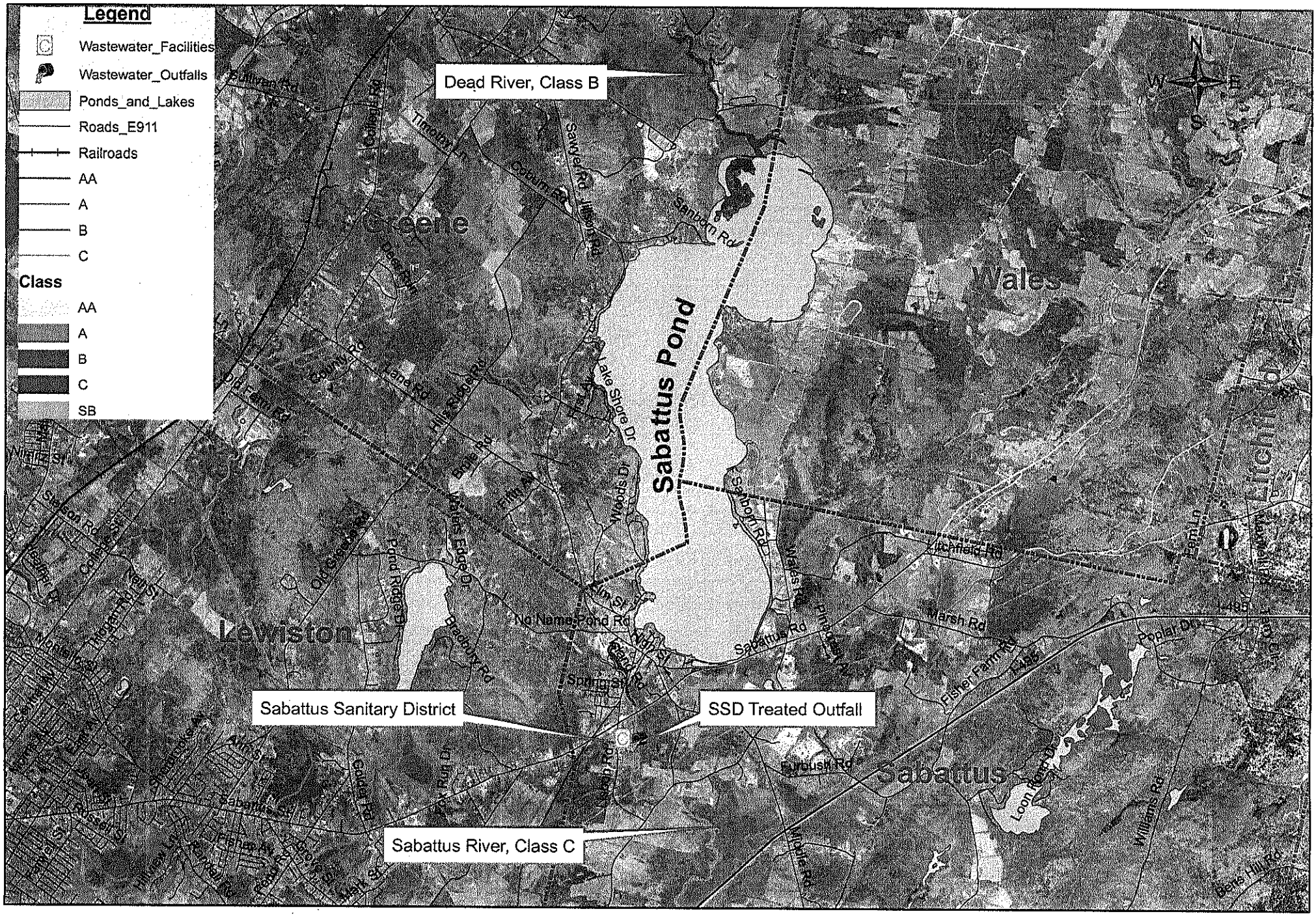
## 10. RESPONSE TO COMMENTS

*Reserved until the end of the comment period.*

# ATTACHMENT A

# Wastewater Licensing Information






# Sabattus Sanitary District Area Map, Sabattus, Maine

Map created by Maine DEP
August 21, 2006

DEPARTMENT OF ENVIRONMENTAL PROTECTION · STATE OF MAINE

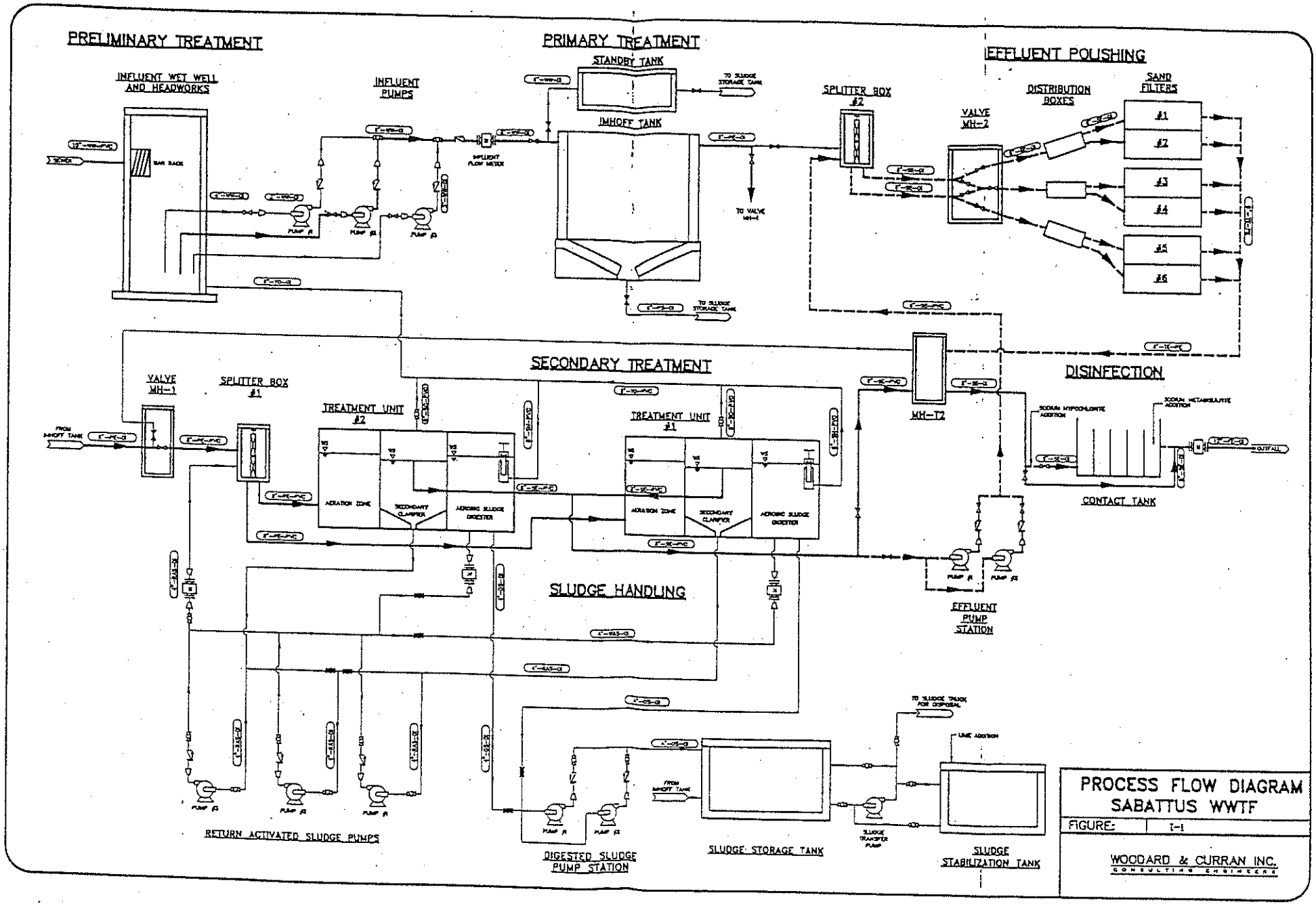

0 225 450 900 Feet

# Sabattus Sanitary District Detail, Sabattus, Maine

Map created by Maine DEP
August 21, 2006

DEPARTMENT OF ENVIRONMENTAL PROTECTION · STATE OF MAINE

# ATTACHMENT B


PRELIMINARY TREATMENT
PRIMARY TREATMENT
EFFLUENT POLISHING
INFLUENT WET WELL AND HEADWORKS
INFLUENT PUMPS
STANDBY TANK
IMHOFF TANK
SPLITTER BOX #2
VALVE MH-2
DISTRIBUTION BOXES
SAND FILTERS
#1
#2
#3
#4
#5
#6
SECONDARY TREATMENT
DISINFECTION
VALVE MH-1
SPLITTER BOX #1
TREATMENT UNIT #2
TREATMENT UNIT #1
MH-T2
CONTACT TANK
SLUDGE HANDLING
EFFLUENT PUMP STATION
RETURN ACTIVATED SLUDGE PUMPS
DIGESTED SLUDGE PUMP STATION
SLUDGE STORAGE TANK
SLUDGE STABILIZATION TANK
PROCESS FLOW DIAGRAM
SABATTUS WWTF
FIGURE: I-1
WOODARD & CURRAN INC.
CONSULTING ENGINEERS

# ATTACHMENT C

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAPTER 530.2(D)(4) CERTIFICATION

MEPDES#_____Facility Name_____

| Since the effective date of your permit, have there been; | | NO | YES<br>Describe in comments section |
|---|---|---|---|
| 1 | Increases in the number, types, and flows of industrial, commercial, or domestic discharges to the facility that in the judgment of the Department may cause the receiving water to become toxic? | ☐ | ☐ |
| 2 | Changes in the condition or operations of the facility that may increase the toxicity of the discharge? | ☐ | ☐ |
| 3 | Changes in storm water collection or inflow/infiltration affecting the facility that may increase the toxicity of the discharge? | ☐ | ☐ |
| 4 | Increases in the type or volume of hauled wastes accepted by the facility? | ☐ | ☐ |

COMMENTS:

Name (printed): _____

Signature:_____Date: _____

**This document must be signed by the permittee or their legal representative.**

This form may be used to meet the requirements of Chapter 530.2(D)(4). This Chapter requires all dischargers having waived or reduced toxic testing to file a statement with the Department describing changes to the waste being contributed to their system as outlined above. As an alternative, the discharger may submit a signed letter containing the same information.

**Scheduled Toxicity Testing for the next calendar year**

| Test Conducted | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter |
|---|---|---|---|---|
| WET Testing | □ | □ | □ | □ |
| Priority Pollutant Testing | □ | □ | □ | □ |
| Analytical Chemistry | □ | □ | □ | □ |
| Other toxic parameters [1] | □ | □ | □ | □ |

*Please place an "X" in each of the boxes that apply to when you will be conducting any one of the three test types during the next calendar year.*

[1] This only applies to parameters where testing is required at a rate less frequently than quarterly.

# ATTACHMENT D

# WET TEST REPORT

**Data for tests conducted for the period**

17/Feb/2012 - 17/Feb/2017

**SABATTUS** NPDES= ME0101842 Effluent Limit: Acute (%) = 4.762 Chronic (%) = 4.762

| Species | Test | Percent | Sample date | Critical % | Exception | RP |
|---|---|---|---|---|---|---|
| TROUT | A_NOEL | 100 | 01/22/2013 | 4.762 | | |
| TROUT | A_NOEL | 100 | 05/05/2014 | 4.762 | | |
| TROUT | A_NOEL | 100 | 09/08/2015 | 4.762 | | |
| TROUT | A_NOEL | 100 | 10/19/2015 | 4.762 | | |
| TROUT | A_NOEL | 100 | 03/21/2016 | 4.762 | | |
| TROUT | A_NOEL | 100 | 06/20/2016 | 4.762 | | |
| TROUT | A_NOEL | 100 | 09/19/2016 | 4.762 | | |
| TROUT | C_NOEL | 100 | 01/22/2013 | 4.762 | | |
| TROUT | C_NOEL | 100 | 05/05/2014 | 4.762 | | |
| TROUT | C_NOEL | 100 | 09/08/2015 | 4.762 | | |
| TROUT | C_NOEL | 100 | 10/19/2015 | 4.762 | | |
| TROUT | C_NOEL | 100 | 03/21/2016 | 4.762 | | |
| TROUT | C_NOEL | 100 | 06/20/2016 | 4.762 | | |
| TROUT | C_NOEL | 100 | 09/19/2016 | 4.762 | | |
| WATER FLEA | A_NOEL | 100 | 01/22/2013 | 4.762 | | |
| WATER FLEA | A_NOEL | 100 | 05/05/2014 | 4.762 | | |
| WATER FLEA | A_NOEL | 100 | 09/08/2015 | 4.762 | | |
| WATER FLEA | A_NOEL | 100 | 10/19/2015 | 4.762 | | |
| WATER FLEA | A_NOEL | 100 | 03/21/2016 | 4.762 | | |
| WATER FLEA | A_NOEL | 100 | 06/20/2016 | 4.762 | | |
| WATER FLEA | A_NOEL | 100 | 09/19/2016 | 4.762 | | |
| WATER FLEA | C_NOEL | 100 | 01/22/2013 | 4.762 | | |
| WATER FLEA | C_NOEL | 50 | 05/05/2014 | 4.762 | | |
| WATER FLEA | C_NOEL | 100 | 09/08/2015 | 4.762 | | |
| WATER FLEA | C_NOEL | 100 | 10/19/2015 | 4.762 | | |
| WATER FLEA | C_NOEL | 100 | 03/21/2016 | 4.762 | | |
| WATER FLEA | C_NOEL | 100 | 06/20/2016 | 4.762 | | |
| WATER FLEA | C_NOEL | 100 | 09/19/2016 | 4.762 | | |

**SABATTUS SANITARY DISTRICT** NPDES= ME0101842 Effluent Limit: Acute (%) = 4.762 Chronic (%) = 4.762

| Species | Test | Percent | Sample date | Critical % | Exception | RP |
|---|---|---|---|---|---|---|
| TROUT | A_NOEL | 100 | 10/19/2015 | 4.762 | | |
| TROUT | C_NOEL | 100 | 10/19/2015 | 4.762 | | |
| WATER FLEA | A_NOEL | 100 | 10/19/2015 | 4.762 | | |

| | | | | |
|---|---|---|---|---|
| WATER FLEA | C_NOEL | 100 | 10/19/2015 | 4.762 |

# ATTACHMENT E

# FACILITY PRIORITY POLLUTANT DATA REPORT

**Data Date Range:** 27/Feb/2012 - 27/Feb/2017

Showing all data

Facility name: **SABATTUS** Permit Number: **ME0101842**

| **Parameter:** | ALUMINUM | **Test date** | **Result (ug/l)** | **Lsthan** |
|---|---|---|---|---|
| | | 01/22/2013 | 26.000 | N |
| | | 05/05/2014 | 20.000 | Y |
| | | 09/08/2015 | 33.000 | N |
| | | 10/19/2015 | 29.000 | N |
| | | 03/21/2016 | 20.000 | Y |
| | | 06/20/2016 | 21.000 | N |
| | | 09/19/2016 | 35.000 | N |
| **Parameter:** | AMMONIA | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 01/22/2013 | 100.000 | Y |
| | | 05/05/2014 | 100.000 | Y |
| | | 09/08/2015 | 100.000 | Y |
| | | 03/21/2016 | 100.000 | Y |
| | | 06/20/2016 | 100.000 | Y |
| | | 09/19/2016 | 100.000 | Y |
| **Parameter:** | ANTIMONY | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 10/19/2015 | 2.000 | Y |
| **Parameter:** | ARSENIC | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 04/04/2012 | 3.000 | N |
| | | 07/05/2012 | 3.000 | Y |
| | | 10/03/2012 | 3.000 | N |
| | | 01/22/2013 | 2.000 | N |
| | | 04/02/2013 | 5.000 | N |
| | | 07/10/2013 | 7.000 | N |
| | | 05/05/2014 | 2.000 | Y |
| | | 09/08/2015 | 3.000 | N |
| | | 10/19/2015 | 3.000 | N |
| | | 03/21/2016 | 2.000 | Y |
| | | 06/20/2016 | 3.000 | N |
| | | 09/19/2016 | 4.000 | N |
| **Parameter:** | BERYLLIUM | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 10/19/2015 | 1.000 | Y |
| **Parameter:** | CADMIUM | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 01/22/2013 | 0.500 | Y |
| | | 05/05/2014 | 0.500 | Y |
| | | 09/08/2015 | 0.500 | Y |
| | | 10/19/2015 | 0.500 | Y |
| | | 03/21/2016 | 0.500 | Y |
| | | 06/20/2016 | 0.500 | Y |
| | | 09/19/2016 | 0.500 | Y |
| **Parameter:** | CALCIUM | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 01/22/2013 | 44000.000 | N |
| | | 05/05/2014 | 33000.000 | N |
| | | 09/08/2015 | 57000.000 | N |
| | | 10/19/2015 | 58000.000 | N |

Facility name: **SABATTUS** Permit Number: **ME0101842**

| **Parameter:** | CHROMIUM | **Test date** | **Result (ug/l)** | **Lsthan** |
|---|---|---|---|---|
| | | 01/22/2013 | 2.000 | Y |
| | | 05/05/2014 | 2.000 | Y |
| | | 09/08/2015 | 2.000 | Y |
| | | 10/19/2015 | 2.000 | Y |
| | | 03/21/2016 | 2.000 | Y |
| | | 06/20/2016 | 2.000 | Y |
| | | 09/19/2016 | 1.000 | Y |
| **Parameter:** | COPPER | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 04/04/2012 | 17.000 | N |
| | | 07/05/2012 | 21.000 | N |
| | | 10/03/2012 | 19.000 | N |
| | | 01/22/2013 | 13.000 | N |
| | | 04/02/2013 | 6.000 | N |
| | | 07/10/2013 | 8.000 | N |
| | | 10/02/2013 | 10.000 | N |
| | | 01/02/2014 | 11.000 | N |
| | | 04/02/2014 | 5.000 | N |
| | | 05/05/2014 | 9.000 | N |
| | | 07/02/2014 | 9.000 | N |
| | | 10/08/2014 | 5.000 | N |
| | | 01/07/2015 | 6.000 | N |
| | | 04/08/2015 | 7.000 | N |
| | | 07/08/2015 | 16.000 | N |
| | | 09/08/2015 | 12.000 | N |
| | | 10/05/2015 | 7.000 | N |
| | | 10/19/2015 | 9.000 | N |
| | | 01/06/2016 | 4.000 | N |
| | | 03/21/2016 | 11.000 | N |
| | | 04/06/2016 | 11.000 | N |
| | | 06/20/2016 | 12.000 | N |
| | | 07/06/2016 | 12.000 | N |
| | | 09/19/2016 | 17.000 | N |
| | | 10/05/2016 | 16.000 | N |
| **Parameter:** | CYANIDE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 01/22/2013 | 5.000 | Y |
| | | 05/05/2014 | 5.000 | Y |
| | | 09/08/2015 | 5.000 | Y |
| **Parameter:** | CYANIDE TOTAL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 03/21/2016 | 5.000 | Y |
| | | 06/20/2016 | 5.000 | Y |
| | | 09/19/2016 | 5.000 | Y |
| **Parameter:** | LEAD | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 04/04/2012 | 3.000 | Y |
| | | 07/05/2012 | 3.000 | Y |
| | | 10/03/2012 | 1.000 | Y |

Facility name: **SABATTUS** Permit Number: **ME0101842**

| | | | | |
|---|---|---|---|---|
| | | 01/22/2013 | 0.600 | N |
| | | 04/02/2013 | 1.000 | Y |
| | | 07/10/2013 | 1.000 | Y |
| | | 10/02/2013 | 3.000 | Y |
| | | 01/02/2014 | 3.000 | Y |
| | | 04/02/2014 | 3.000 | Y |
| | | 05/05/2014 | 5.000 | N |
| | | 07/02/2014 | 3.000 | Y |
| | | 10/08/2014 | 4.000 | N |
| | | 01/07/2015 | 3.000 | Y |
| | | 04/08/2015 | 3.000 | Y |
| | | 07/08/2015 | 3.000 | Y |
| | | 09/08/2015 | 0.600 | N |
| | | 10/05/2015 | 3.000 | Y |
| | | 10/19/2015 | 0.500 | Y |
| | | 01/06/2016 | 3.000 | Y |
| | | 03/21/2016 | 0.500 | Y |
| | | 04/06/2016 | 3.000 | Y |
| | | 06/20/2016 | 0.600 | N |
| | | 07/06/2016 | 3.000 | Y |
| | | 09/19/2016 | 0.600 | N |
| | | 10/05/2016 | 3.000 | Y |
| | | 01/04/2017 | 3.000 | Y |
| **Parameter:** | MAGNESIUM | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 01/22/2013 | 5700.000 | N |
| | | 05/05/2014 | 4500.000 | N |
| | | 09/08/2015 | 7200.000 | N |
| | | 10/19/2015 | 7400.000 | N |
| **Parameter:** | MERCURY | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 01/10/2013 | 0.002 | N |
| | | 01/08/2014 | 0.001 | Y |
| | | 01/07/2015 | 0.001 | N |
| | | 01/06/2016 | 0.001 | N |
| **Parameter:** | NICKEL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 01/22/2013 | 2.000 | N |
| | | 05/05/2014 | 2.000 | Y |
| | | 09/08/2015 | 5.000 | N |
| | | 10/19/2015 | 2.000 | Y |
| | | 03/21/2016 | 2.000 | N |
| | | 06/20/2016 | 3.000 | N |
| | | 09/19/2016 | 3.000 | N |
| **Parameter:** | SELENIUM | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 10/19/2015 | 2.000 | Y |
| **Parameter:** | SILVER | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 01/22/2013 | 1.000 | Y |
| | | 05/05/2014 | 1.000 | Y |

Facility name: **SABATTUS** Permit Number: **ME0101842**

| | | | | |
|---|---|---|---|---|
| | | 09/08/2015 | 1.000 | Y |
| | | 10/19/2015 | 1.000 | Y |
| | | 03/21/2016 | 1.000 | Y |
| | | 06/20/2016 | 1.000 | Y |
| | | 09/19/2016 | 1.000 | Y |
| **Parameter:** | SPECIFIC CONDUCTANCE (UMH | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 06/20/2016 | 663.000 | N |
| | | 09/19/2016 | 723.000 | N |
| **Parameter:** | THALLIUM | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 10/19/2015 | 1.000 | Y |
| **Parameter:** | TOC | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 05/05/2014 | 7400.000 | N |
| | | 09/08/2015 | 8600.000 | N |
| **Parameter:** | TSS | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 05/05/2014 | 2500.000 | Y |
| | | 09/08/2015 | 1100.000 | N |
| **Parameter:** | ZINC | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 01/22/2013 | 60.000 | N |
| | | 05/05/2014 | 47.000 | N |
| | | 09/08/2015 | 78.000 | N |
| | | 10/19/2015 | 66.000 | N |
| | | 03/21/2016 | 52.000 | N |
| | | 06/20/2016 | 65.000 | N |
| | | 09/19/2016 | 75.000 | N |

Facility name: **SABATTUS SANITARY DISTRICT** Permit Number: **ME0101842**

| | | | | |
|---|---|---|---|---|
| **Parameter:** | 1,1,1-TRICHLOROETHANE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 1,1,2,2-TETRACHLOROETHANE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 1,1,2-TRICHLOROETHANE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 1,1-DICHLOROETHANE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 1,1-DICHLOROETHYLENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 3.000 | Y |
| **Parameter:** | 1,2-(O)DICHLOROBENZENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 1,2,4-TRICHLOROBENZENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 1,2-DICHLOROETHANE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 3.000 | Y |
| **Parameter:** | 1,2-DICHLOROPROPANE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 1,2-DIPHENYLHYDRAZINE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 10.000 | Y |
| **Parameter:** | 1,2-TRANS-DICHLOROETHYLEN | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 1,3-(M)DICHLOROBENZENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 1,3-DICHLOROPROPYLENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 1,4-(P)DICHLOROBENZENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 2,4,6-TRICHLOROPHENOL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 3.000 | Y |
| **Parameter:** | 2,4-DICHLOROPHENOL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 2,4-DIMETHYLPHENOL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 2,4-DINITROPHENOL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 45.000 | Y |
| **Parameter:** | 2,4-DINITROTOLUENE | **Test date** | **Result (ug/l)** | **Lsthan** |

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|---|---|---|---|---|
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 2,6-DINITROTOLUENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 2-CHLOROETHYLVINYL ETHER | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 20.000 | Y |
| **Parameter:** | 2-CHLORONAPHTHALENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 2-CHLOROPHENOL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 2-NITROPHENOL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 3,3'-DICHLOROBENZIDINE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 15.000 | Y |
| **Parameter:** | 3,4-BENZO(B)FLUORANTHENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 4,4'-DDD | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | 4,4'-DDE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | 4,4'-DDT | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | 4,6-DINITRO-O-CRESOL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 25.000 | Y |
| **Parameter:** | 4-BROMOPHENYLPHENYL ETHE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 2.000 | Y |
| **Parameter:** | 4-CHLOROPHENYL PHENYL ETH | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | 4-NITROPHENOL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 20.000 | Y |
| **Parameter:** | A-BHC | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | ACENAPHTHENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | ACENAPHTHYLENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | ACROLEIN | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 25.000 | Y |

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|---|---|---|---|---|
| **Parameter:** | ACRYLONITRILE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 25.000 | Y |
| **Parameter:** | A-ENDOSULFAN | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | ALDRIN | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | ALUMINUM | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 24.000 | N |
| **Parameter:** | AMMONIA | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 100.000 | Y |
| **Parameter:** | ANTHRACENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | ARSENIC | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 2.000 | N |
| **Parameter:** | B-BHC | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | B-ENDOSULFAN | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | BENZENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | BENZIDINE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 45.000 | Y |
| **Parameter:** | BENZO(A)ANTHRACENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | BENZO(A)PYRENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 3.000 | Y |
| **Parameter:** | BENZO(G,H,I)PERYLENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | BENZO(K)FLUORANTHENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 3.000 | Y |
| **Parameter:** | BIS(2-CHLOROETHOXY)METHA | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | BIS(2-CHLOROETHYL)ETHER | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 6.000 | Y |
| **Parameter:** | BIS(2-CHLOROISOPROPYL)ETH | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 6.000 | Y |
| **Parameter:** | BIS(2-ETHYLHEXYL)PHTHALATI | **Test date** | **Result (ug/l)** | **Lsthan** |

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|---|---|---|---|---|
| | | 12/30/2015 | 3.000 | Y |
| **Parameter:** | BROMOFORM | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | BUTYLBENZYL PHTHALATE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | CADMIUM | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.500 | Y |
| **Parameter:** | CARBON TETRACHLORIDE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | CHLORDANE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | CHLOROBENZENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | CHLORODIBROMOMETHANE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 3.000 | Y |
| **Parameter:** | CHLOROETHANE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | CHLOROFORM | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | CHROMIUM | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 2.000 | Y |
| **Parameter:** | CHRYSENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 3.000 | Y |
| **Parameter:** | COPPER | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 6.000 | N |
| **Parameter:** | CYANIDE TOTAL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | D-BHC | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | DIBENZO(A,H)ANTHRACENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | DICHLOROBROMOMETHANE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 3.000 | Y |
| **Parameter:** | DIELDRIN | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | DIETHYL PHTHALATE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |

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| | | | | |
|---|---|---|---|---|
| **Parameter:** | DIMETHYL PHTHALATE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | DI-N-BUTYL PHTHALATE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | DI-N-OCTYL PHTHALATE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | ENDOSULFAN SULFATE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | ENDRIN | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | ENDRIN ALDEHYDE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | ETHYLBENZENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | FLUORANTHENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | FLUORENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | G-BHC | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | HEPTACHLOR | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | HEPTACHLOR EPOXIDE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.050 | Y |
| **Parameter:** | HEXACHLOROBENZENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 2.000 | Y |
| **Parameter:** | HEXACHLOROBUTADIENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 1.000 | Y |
| **Parameter:** | HEXACHLOROCYCLOPENTADIEI | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 10.000 | Y |
| **Parameter:** | HEXACHLOROETHANE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 2.000 | Y |
| **Parameter:** | INDENO(1,2,3-CD)PYRENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | ISOPHORONE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | LEAD | **Test date** | **Result (ug/l)** | **Lsthan** |

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|---|---|---|---|---|
| | | 12/30/2015 | 0.500 | Y |
| **Parameter:** | METHYL BROMIDE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | METHYL CHLORIDE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | METHYLENE CHLORIDE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | NAPHTHALENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | NICKEL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 2.000 | Y |
| **Parameter:** | NITROBENZENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | N-NITROSODIMETHYLAMINE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 1.000 | Y |
| **Parameter:** | N-NITROSODI-N-PROPYLAMINE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | N-NITROSODIPHENYLAMINE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | PCB-1016 | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.200 | Y |
| **Parameter:** | PCB-1221 | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.200 | Y |
| **Parameter:** | PCB-1232 | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.200 | Y |
| **Parameter:** | PCB-1242 | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.200 | Y |
| **Parameter:** | PCB-1248 | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.200 | Y |
| **Parameter:** | PCB-1254 | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.200 | Y |
| **Parameter:** | PCB-1260 | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.200 | Y |
| **Parameter:** | P-CHLORO-M-CRESOL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | PENTACHLOROPHENOL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 20.000 | Y |

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|---|---|---|---|---|
| **Parameter:** | PHENANTHRENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | PHENOL | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | PYRENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | SILVER | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 1.000 | Y |
| **Parameter:** | SPECIFIC CONDUCTANCE (UMH | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 590.000 | N |
| **Parameter:** | TETRACHLOROETHYLENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | TOLUENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | TOXAPHENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 0.100 | Y |
| **Parameter:** | TRICHLOROETHYLENE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 3.000 | Y |
| **Parameter:** | VINYL CHLORIDE | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 5.000 | Y |
| **Parameter:** | ZINC | **Test date** | **Result (ug/l)** | **Lsthan** |
| | | 12/30/2015 | 38.000 | N |