



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION



PAUL R. LEPAGE
GOVERNOR

PATRICIA W. AHO
COMMISSIONER

November 3, 2014

Mr. Robert Dunbar
Town of Madawaska
328 St. Thomas Street, Suite 101
Madawaska, ME 04756
bdunbar@townofmadawaska.net

RE: Maine Pollutant Discharge Elimination System (MEPDES) Permit # ME0101681
Maine Waste Discharge License (WDL) Application # W002602-6C-I-M
Final Permit

Dear Mr. Dunbar:

Enclosed please find a copy of your **final** MEPDES permit and Maine WDL **renewal** which was approved by the Department of Environmental Protection. Please read this permit/license renewal and its attached conditions carefully. You must follow the conditions in the order to satisfy the requirements of law. Any discharge not receiving adequate treatment is in violation of State Law and is subject to enforcement action.

Any interested person aggrieved by a Department determination made pursuant to applicable regulations, may appeal the decision following the procedures described in the attached DEP FACT SHEET entitled "*Appealing a Commissioner's Licensing Decision.*"
If you have any questions regarding the matter, please feel free to call me at 215-1579.

Sincerely,

Yvette Meunier
Division of Water Quality Management
Bureau of Land and Water Quality

Enc.

cc: Sean Bernard, DEP/NMRO
Sandy Mojica, USEPA
Olga Vergara, USEPA
Marelyn Vega, USEPA

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
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PRESQUE ISLE, MAINE 04679
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STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
17 STATE HOUSE STATION AUGUSTA, MAINE 04333-0017

DEPARTMENT ORDER

IN THE MATTER OF

TOWN OF MADAWASKA)	MAINE POLLUTANT DISCHARGE
MADAWASKA, AROOSTOOK COUNTY MAINE)		ELIMINATION SYSTEM PERMIT
PUBLICLY OWNED TREATMENT WORKS)	AND
#ME0101681)	WASTE DISCHARGE LICENSE
#W002602-6C-I-R)	RENEWAL
APPROVAL)	

In compliance with the applicable provisions of *Pollution Control*, 38 M.R.S.A. §§ 411 – 424-B, *Water Classification Program*, 38 M.R.S.A. §§ 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 the application of the TOWN OF MADAWASKA (TOWN), with its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

APPLICATION SUMMARY

On July 3, 2013, the Department accepted as complete for processing from the Town a renewal application for Waste Discharge License (WDL) #W002602-5L-E-R / Maine Pollutant Discharge Elimination System (MEPDES) permit #ME0101681, which was issued on December 10, 2008 for a five year term. The 12/10/08 MEPDES permit authorized the monthly average discharge of 0.674 million gallons per day (MGD) of secondary treated sanitary wastewater from a publicly owned treatment works (POTW) as well as an unspecified quantity of untreated combined sanitary and storm water from two combined sewer overflow outfalls (CSOs) to the St. John River, Class C, in Madawaska, Maine.

The Department issued a permit modification on May 4, 2010 to modify the schedule of compliance as listed under Special Condition K section 4 *CSO Master Plan*, and a minor revision on December 20, 2012 to grant an extension for the Twin Rivers Pump Station upgrade and associated work. A minor revision for the extension of the Twin Rivers Pump Station completion date and for the submission of the CSO Master Plan was granted on December 9, 2013.

PERMIT SUMMARY

This permitting action is carrying forward all the terms and conditions of the previous permitting action except it is:

1. Revising the minimum monitoring frequency requirements for biochemical oxygen demand (BOD₅), total suspended solids (TSS), settleable solids, and *Escherichia coli* bacteria based on the results of facility testing;

PERMIT SUMMARY (cont'd)

2. Incorporating the interim mercury limits established by the Department for this facility pursuant to *Certain deposits and discharges prohibited*, 38 M.R.S.A. § 420 and *Waste discharge licenses*, 38 M.R.S.A. § 413 and *Interim Effluent Limitations and Controls for the Discharge of Mercury*, 06-096 CMR 519 (last amended October 6, 2001);
3. Revising former Special Condition J, *Disposal of Septage Waste in Waste Water Treatment Facility*;
4. Establishing monitoring and reporting requirements for phosphorous and stream flow;
5. Revising the sampling and Total Residual Chlorine footnote language in the permit;
6. Revising former Special Condition H, *Wet Weather Flow Management Plan*;
7. Revising former Special Condition K, *Combined Sewer Overflows (CSO's)*; and
8. Eliminating the waiver from the requirement to achieve 85 percent removal for BOD5 and TSS.

CONCLUSIONS

Based on the findings summarized in the attached Fact Sheet dated November 3, 2014, 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.A. § 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 natural resource, that water quality will be maintained and protected;
 - (c) The standards of classification of the receiving water body are met or, where the standards of classification of the receiving water body are not met, the discharge will not cause or contribute to the failure of the water body to meet the standards of classification;

CONCLUSIONS (cont'd)

- (d) Where the actual quality of any classified receiving water body 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 water body, 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 discharges (including the 2 CSO's) will be subject to effluent limitations that require application of best practicable treatment as defined in 38 M.R.S.A. § 414-A(1)(D).

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ACTION

Based on the findings and conclusions as stated previously, the Department APPROVES the above noted application of the TOWN OF MADAWASKA to discharge a monthly average flow of 0.674 million gallons per day (MGD) of secondary treated sanitary wastewater from Outfall 001 and an unspecified quantity of excess untreated combined sanitary and storm water from two CSO outfalls to the St. John River, Class C, in Madawaska, Maine, SUBJECT TO THE ATTACHED CONDITIONS, and all applicable standards and regulations including:

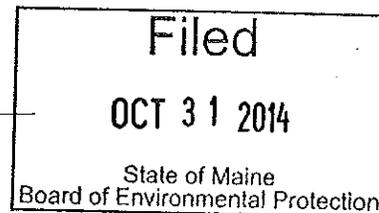
1. *Maine Pollutant Discharge Elimination System Permit Standard Conditions Applicable To All Permits*, revised July 1, 2002, copy attached.
2. The attached Special Conditions, including any effluent limitations and monitoring requirements.
3. This permit and the authorization to discharge become effective upon the date of signature below and expire at midnight five (5) years from the effective date. If a renewal application is timely submitted and accepted as complete for processing prior to the expiration of this permit, the authorization to discharge and the terms and conditions of this permit and all modifications and minor revisions thereto remain in effect until a final Department decision on the renewal application becomes effective. [*Maine Administrative Procedure Act*, 5 M.R.S.A. § 10002 and *Rules Concerning the Processing of Applications and Other Administrative Matters*, 06-096 CMR 2(21)(A) (amended August 25, 2013)]

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

DONE AND DATED AT AUGUSTA, MAINE, THIS 31st DAY OF October 2014.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: Michael Kuhn
for PATRICIA W. AHO, Commissioner



Date filed with Board of Environmental Protection _____

Date of initial receipt of application: June 24, 2013

Date of application acceptance: July 3, 2013

This Order prepared by Yvette Meunier, BUREAU OF LAND & WATER QUALITY

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge secondary treated municipal sanitary wastewater from Outfall #001 to the St. John River. Such discharges are limited and must be monitored by the permittee as specified below⁽¹⁾:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements			
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type
Flow [50050]	0.674 MGD [03]	---	Report (MGD)	---	---	---	Continuous [99/99]	Recorder [RC]
Biochemical Oxygen Demand (BOD ₅) [00310]	169 lbs./day [26]	253 lbs./day [26]	281 lbs./day [26]	30 mg/L [19]	45 mg/L [19]	50 mg/L [19]	1/Week [01/07]	Composite [24]
BOD ₅ Percent Removal ⁽²⁾ [81010]	85 % [23]	---	---	---	---	---	1/Month [01/30]	Calculate [24]
Total Suspended Solids (TSS) [00530]	169 lbs./day [26]	253 lbs./day [26]	281 lbs./day [26]	30 mg/L [19]	45 mg/L [19]	50 mg/L [19]	1/Week [01/07]	Composite [24]
TSS Percent Removal ⁽²⁾ [81011]	85 % [23]	---	---	---	---	---	1/Month [01/30]	Calculate [24]
Settleable Solids [00545]	---	---	---	---	---	0.3 ml/L [25]	3/Week [03/07]	Grab [GR]
<i>E. coli</i> Bacteria ⁽⁶⁾ [31633] (<i>May 15- September 30</i>)	---	---	---	126/100ml ⁽⁴⁾ [13]	---	949/100 ml [13]	1/Week [01/07]	Grab [GR]
Total Residual Chlorine ⁽⁵⁾ [50060]	---	---	---	---	---	1.0 mg/L [19]	5/Week [05/07]	Grab [GR]
pH (Standard Units) [00400]	---	---	---	---	---	6.0-9.0 [12]	5/Week [05/07]	Grab [GR]
Mercury ⁽⁶⁾ [71900]	---	---	---	7.1 ng/L [3M]	---	10.6 ng/L [3M]	1/Year [01/YR]	Grab [GR]
Phosphorus (Total) ⁽⁷⁾ [00665] June 1 - September 30, 2015	---	---	---	Report µg/L [28]	---	Report µg/L [28]	2/Month [02/30]	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.

FOOTNOTES: See Pages 7 through 8 of this permit for applicable footnotes.

SPECIAL CONDITIONS

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

- The permittee is required to conduct Ambient Water Quality Monitoring in the St. John River as specified below, designated as **Outfall #001** for the purpose of Permit Compliance System tracking as specified below⁽¹⁾⁽⁸⁾.

Monitoring Parameter	Reporting Requirements			Minimum Monitoring Requirements	
	Monthly Average	Weekly Average	Daily Maximum Report	Measurement Frequency	Sample Type
Phosphorus (Total) ⁽⁹⁾ [00665] June 15 – September 15, 2015	---	---	Report µg/L [28]	3/Year [03/YR]	Grab [GR]
Stream Flow (Daily Mean) ⁽¹⁰⁾ [00061]	---	---	Report (cfs) [08]	3/Year [03/YR]	Measure ⁽⁹⁾ [MS]

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.

FOOTNOTES: See Pages 7 through 8 of this permit for applicable footnotes.

SPECIAL CONDITIONS

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

FOOTNOTES

1. **Sampling** – Influent sampling for BOD₅ and TSS must be sampled at the headworks building influent channel. For the purposes of this permitting action, BOD₅ and TSS samples taken at this location will serve as the influent values for calculating percent removals for secondary treated wastewater. Effluent receiving secondary treatment (Outfall #001) must be sampled at the end of the chlorine contact chamber but prior to the discharge pipe. Any change in sampling location must be reviewed and approved by the Department in writing.

The permittee must conduct 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 sent to a POTW licensed pursuant to *Waste discharge licenses*, 38 M.R.S.A. § 413 are subject to the provisions and restrictions of *Maine Comprehensive and Limited Environmental Laboratory Certification Rules*, 10-144 CMR 263 (effective April 1, 2010). 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 Discharge Monitoring Report.

All analytical test results from monitoring of parameters required by this license shall be reported to the Department including results which are quantified below the respective reporting limits (RLs) specified by the Department or as specified by other approved test methods. See **Attachment A** of this permit for a list of the Department's RL's. A non-detect analytical test result shall be reported as <Y where Y is the minimum level for reporting quantitative data specified by the laboratory in their report for each respective parameter. Reporting a value of <Y that is greater than an established RL is not acceptable and will be rejected by the Department. Lab data that have an estimated value ("J" flagged) below an established RL shall be reported as "<RL". Reporting analytical data and its use in calculations must follow established Department guidelines specified in this permit or in available Department guidance documents.

2. **Percent Removal** - The permittee must achieve a minimum of 85 percent removal of both total suspended solids and biochemical oxygen demand for all flows receiving secondary treatment. The percent removal is calculated based on influent and effluent concentration values.
3. **Bacteria Limits** – *E. coli* bacteria limits and monitoring requirements are seasonal and apply between May 15 and September 30 of each year. The Department reserves the right to require year-round bacteria limits to protect the health, safety 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. **TRC Monitoring** – Limitations and monitoring requirements are in effect any time elemental chlorine or chlorine-based compounds are utilized to disinfect the discharge(s). The permittee must utilize a USEPA-approved test method capable of bracketing the TRC limitations specified in this permitting action. Monitoring for TRC is only required when elemental chlorine or chlorine-based compounds are in use for effluent disinfection. For instances when a facility has not disinfected with chlorine-based compounds for an entire reporting period, the facility must report “NODI-9” for this parameter on the monthly DMR or “N9” if the submittal is an electronic DMR. The permittee must utilize approved test methods that are capable of bracketing the TRC limitation in this permit.
6. **Mercury** – The permittee must conduct all mercury sampling 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 B** for a Department report form for mercury test results. Compliance with the monthly average limitation established in Special Condition A.1 of this permit will be based on the cumulative arithmetic mean of all mercury tests results that were conducted utilizing sampling Methods 1669 and analysis Method 1631E on file with the Department for this facility.
7. **Phosphorus (Total)** – Effluent total phosphorous sampling must be done in accordance with **Attachment C**.
8. **Ambient Data Collection** – Ambient phosphorous and stream flow sampling is to be collected during calendar year 2015, unless the permittee has submitted and the Department has approved equivalent data from calendar year 2014. If the Department has approved 2014 data, the ambient phosphorous and stream flow monitoring requirements are satisfied. If 2015 ambient monitoring is not required because 2014 data were used to satisfy this condition, the permittee must report “NODI-9” for both parameters on the monthly DMR or “N9” if the submittal is an electronic DMR.
9. **Phosphorus (Total)** – Receiving water samples must be collected upstream of the discharge on the St. John River. See page 13 of fact sheet for guidance on selecting a sampling location. Samples must be collected several days and preferably a week apart. If possible try to obtain a sample during the same week effluent sampling occurs. Samples should be collected when flows at the USGS Gauge #01014000 referred to as “St. John River below Fish River, near Ft. Kent” are below daily median flow.
10. **Stream flow** – Stream flow measurements must be recorded on the same day as background total phosphorus samples are collected. Flows must be obtained from USGS Gauge #01014000, unless another method of obtaining stream flow data is approved by the Department.

SPECIAL CONDITIONS

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 usages 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 usages 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 that impairs the usages 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 treatment facility must be operated by a person holding a minimum of a **Grade III** certificate (or Registered Maine Professional Engineer) pursuant to *Sewerage Treatment Operators*, 32 M.R.S.A. §§ 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.

D. 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 July 3, 2013; 2) the terms and conditions of this permit; and 3) only from Outfall #001 and two combined sewer outfalls listed in Special Condition L, *Combined Sewer Overflows*, of this permit. Discharges of wastewater from any other point source(s) are not authorized under this permit, and must be reported in accordance with Standard Condition B(5), *Bypasses*, of this permit.

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 in the volume or character of pollutants being introduced into the wastewater collection and treatment system by a source introducing pollutants to the system at the time of permit issuance. For the purposes of this section, notice regarding substantial change must include information on:

SPECIAL CONDITIONS

E. NOTIFICATION REQUIREMENT (cont'd)

- (a) the quality and quantity of wastewater introduced to the wastewater collection and treatment system; and
- (b) any anticipated impact caused by the change in the quantity or quality of the wastewater to be discharged from the treatment system.

F. 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).

G. MONITORING AND REPORTING

Monitoring results obtained during the previous month must be summarized for each month and reported on separate Discharge Monitoring Report (DMR) forms provided by the Department and **postmarked on or before the thirteenth (13th) day of the month or hand-delivered to the Department's Regional Office such that the DMR's are received by the Department on or before the fifteenth (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 inspector (unless otherwise specified by the Department) at the following address:

Department of Environmental Protection
Northern Maine Regional Office
Bureau of Land and Water Quality
Division of Water Quality Management
1235 Central Drive-Skyway Park
Presque Isle, Maine 04769

Alternatively, if the permittee submits an electronic DMR (eDMR), the completed eDMR must be electronically submitted to the Department by a facility authorized DMR Signatory not later than close of business on the **15th day of the month** following the completed reporting period. Hard copy documentation submitted in support of the eDMR must be postmarked on or before the **thirteenth (13th) day of the month or hand-delivered** to the Department's Regional Office such that it is received by the Department on or before the fifteenth (15th) day of the month following the completed reporting period. Electronic documentation in support of the eDMR must be submitted not later than close of business on the 15th day of the month following the completed reporting period.

SPECIAL CONDITIONS

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 [EFIS Code 96299]. 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;
- (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 (hailed) 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. OPERATIONS AND 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.

SPECIAL CONDITIONS

J. WET WEATHER MANAGEMENT PLAN

The permittee must maintain an approved Wet Weather 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. A specific objective of the plan must be to maximize the volume of wastewater receiving secondary treatment under all operating conditions. The revised plan 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.

K. DISPOSAL OF TRANSPORTED WASTES IN WASTEWATER TREATMENT FACILITY

Pursuant to this permit and *Standards for the Addition of Transported Wastes to Waste Water Treatment Facilities*, 06-096 CMR 555 (effective March 9, 2009), during the effective period of this permit, the permittee is authorized to receive and introduce into the treatment process or solids handling stream up to a **daily maximum of 4,000 gallons per day (gpd)** of transported wastes, subject to the following terms and conditions.

1. "Transported wastes" means any liquid non-hazardous waste delivered to a wastewater treatment facility by a truck or other similar conveyance that has different chemical constituents or a greater strength than the influent described on the facility's application for a waste discharge license. Such wastes may include, but are not limited to septage, industrial wastes or other wastes to which chemicals in quantities potentially harmful to the treatment facility or receiving water have been added.
2. The character and handling of all transported wastes received must be consistent with the information and management plans provided in application materials submitted to the Department.
3. At no time must the addition of transported wastes cause or contribute to effluent quality violations. Transported wastes may not cause an upset of or pass through the treatment process or have any adverse impact on the sludge disposal practices of the wastewater treatment facility. Wastes that contain heavy metals, toxic chemicals, extreme pH, flammable or corrosive materials in concentrations harmful to the treatment operation must be refused. Odors and traffic from the handling of transported wastes may not result in adverse impacts to the surrounding community. If any adverse effects exist, the receipt or introduction of transported wastes into the treatment process or solids handling stream must be suspended until there is no further risk of adverse effects.

SPECIAL CONDITIONS

K. DISPOSAL OF TRANSPORTED WASTES IN WASTEWATER TREATMENT FACILITY (cont'd)

4. The permittee must maintain records for each load of transported wastes in a daily log which must include at a minimum the following.
 - (a) The date;
 - (b) The volume of transported wastes received;
 - (c) The source of the transported wastes;
 - (d) The person transporting the transported wastes;
 - (e) The results of inspections or testing conducted;
 - (f) The volumes of transported wastes added to each treatment stream; and
 - (g) The information in (a) through (d) for any transported wastes refused for acceptance.These records must be maintained at the treatment facility for a minimum of five years.
5. The addition of transported wastes into the treatment process or solids handling stream must not cause the treatment facilities design capacity to be exceeded. If, for any reason, the treatment process or solids handling facilities become overloaded, introduction of transported wastes into the treatment process or solids handling stream must be reduced or terminated in order to eliminate the overload condition.
6. Holding tank wastewater from domestic sources to which no chemicals in quantities potentially harmful to the treatment process have been added must not be recorded as transported wastes but should be reported in the treatment facility's influent flow.
7. During wet weather events, transported wastes may be added to the treatment process or solids handling facilities only in accordance with a current high flow management plan approved by the Department that provides for full treatment of transported wastes without adverse impacts.
8. In consultation with the Department, chemical analysis is required prior to receiving transported wastes from new sources that are not of the same nature as wastes previously received. The analysis must be specific to the type of source and designed to identify concentrations of pollutants that may pass through, upset or otherwise interfere with the facility's operation.
9. Access to transported waste receiving facilities may be permitted only during the times specified in the application materials and under the control and supervision of the person responsible for the wastewater treatment facility or his/her designated representative.
10. The authorization in the Special Condition is subject to annual review and, with notice to the permittee and other interested parties of record, may be suspended or reduced by the Department as necessary to ensure full compliance with 06-096 CMR 555 and the terms and conditions of this permit.

SPECIAL CONDITIONS

L. EFFLUENT LIMITATIONS AND CONDITIONS FOR COMBINED SEWER OVERFLOWS (CSOs)

Pursuant to *Combined Sewer Overflow Abatement*, 06-096 CMR 570 (last amended February 5, 2000), the permittee is authorized to discharge from the following locations of CSOs (stormwater and sanitary wastewater) subject to the conditions and requirements herein.

1. CSO Locations

<u>CSO Outfall Identification</u>	<u>Location</u>	<u>Receiving Water & Class</u>
#001	Main Pump Station	St. John River, Class C
#002	Twin Rivers Pump Station	St. John River, Class C

2. Prohibited Discharges

- a) The discharge of dry weather flows is prohibited. All such discharges must be reported to the Department in accordance with Standard Condition D (1) of this permit.
- b) No discharge may occur as a result of mechanical failure, improper design or inadequate operation or maintenance.
- c) No discharges may occur at flow rates below the maximum design capacities of the wastewater treatment facility, pumping stations or sewerage system.

3. Narrative Effluent Limitations

- a) The permittee must not discharge wastewater that contains a visible oil sheen, settled substances, foam, or floating solids at any time that impair the characteristics and designated uses ascribed to the classification of the receiving waters.
- b) The permittee must not discharge wastewater that contains materials in concentrations or combinations that are hazardous or toxic to aquatic life; or which would impair the usage designated by the classification of the receiving waters.
- c) The permittee must not discharge wastewater that imparts color, turbidity, toxicity, radioactivity or other properties that cause the receiving waters to be unsuitable for the designated uses and other characteristics ascribed to their class.
- d) Notwithstanding specific conditions of this permit, the effluent by itself or in combination with other discharges may not lower the quality of any classified body of water below such classification, or lower the existing quality of any body of water if the existing quality is higher than the classification.

4. CSO Master Plan [see 06-096 CMR 570(2) and (3)]

The permittee must implement CSO control projects in accordance with an approved CSO Master Plan entitled, *Town of Madawaska, Maine, CSO Master Plan Submitted to the Department*, dated September 30, 2009, prepared by Woodard & Curran, as amended by the *Proposed Engineering Report – CSO Abatement Alternatives*, dated January 14, 2010, prepared by Woodard & Curran,

SPECIAL CONDITIONS

L. EFFLUENT LIMITATIONS AND CONDITIONS FOR COMBINED SEWER OVERFLOWS (CSOs)

and the *CSO Master Plan Update and Abatement Alternatives PER Proposed Schedule of Project Elements letter*, dated March 1, 2010, prepared by Woodard & Curran. The permittee must:

On or before December 31, 2014, [PCS Code CSO001] the permittee must submit to the Department for review and approval a final Updated Master Plan evaluating the effectiveness of the CSO abatement projects completed and if necessary propose future abatement project(s) and schedule to eliminate the wet weather overflows.

To modify the dates and/or projects specified above (but not dates in the Master Plan), the permittee must file an application with the Department to formally modify this permit. The work items identified in the abatement schedule may be amended from time to time based upon approval by the Department. The permittee must notify the Department in writing prior to any proposed changes to the implementation schedule.

5. Nine Minimum Controls (NMC) [see 06-096 CMR 570(5)]

The permittee must implement and follow the Nine Minimum Control documentation as approved by USEPA on March 29, 1997. Work performed on the Nine Minimum Controls during the year must be included in the annual *CSO Progress Report* (see below).

6. CSO Compliance Monitoring Program [see 06-096 CMR 570(6)]

The permittee must conduct block testing or flow monitoring according to an approved *Compliance Monitoring Program* on all CSO points, as part of the CSO Master Plan. Annual flow volumes for all CSO locations must be determined by actual flow monitoring, or by estimation using a model such as USEPA's Storm Water Management Model (SWMM). L.

Results must be submitted annually as part of the annual *CSO Progress Report* (see below), and must include annual precipitation, CSO volumes (actual or estimated) and any block test data required. Any abnormalities during CSO monitoring must also be reported. The results must be reported on the Department form "CSO Activity and Volumes" (**Attachment D** of this permit) or similar format and submitted to the Department on diskette.

CSO control projects that have been completed must be monitored for volume and frequency of overflow to determine the effectiveness of the project toward CSO abatement. This requirement must not apply to those areas where complete separation has been completed and CSO outfalls have been eliminated.

7. Additions of New Wastewater [see 06-096 CMR 570(8)]

06-096 CMR 570(8) lists requirements relating to any proposed addition of wastewater to the combined sewer system. Documentation of the new wastewater additions to the system and associated mitigating measures must be included in the annual *CSO Progress Report* (see below). Reports must contain the volumes and characteristics of the wastewater added or authorized for addition and descriptions of the sewer system improvements and estimated effectiveness.

SPECIAL CONDITIONS

L. EFFLUENT LIMITATIONS AND CONDITIONS FOR COMBINED SEWER OVERFLOWS (CSOs)

8. Annual CSO Progress Reports [see 06-096 CMR 570(7)]

By **March 1** of each year the permittee must submit *CSO Progress Reports* covering the previous calendar year (January 1 to December 31). The CSO Progress Report must include, but is not necessarily limited to, the following topics as further described in 06-096 CMR 570: CSO abatement projects, schedule comparison, progress on inflow sources, costs, flow monitoring results, CSO activity and volumes, nine minimum controls update, sewer extensions, and new commercial or industrial flows.

The CSO Progress Reports must be completed on a standard form entitled "Annual CSO Progress Report", furnished by the Department, and submitted in electronic form, if possible, to the following address:

CSO Coordinator
Department of Environmental Protection
Bureau of Land and Water Quality
17 State House Station
Augusta, Maine 04333
e-mail: CSOCoordinator@maine.gov

9. Signs

If not already installed, the permittee must install and maintain an identification sign at each CSO location as notification to the public that intermittent discharges of untreated sanitary wastewater occur. The sign must be located at or near the outfall and be easily readable by the public. The sign must be a minimum of 12" x 18" in size with white lettering against a green background and must contain the following information:

**TOWN OF MADAWASKA
WET WEATHER
SEWAGE DISCHARGE
CSO # AND NAME**

10. Definitions

For the purposes of this permitting action, the following terms are defined as follows:

- a. Combined Sewer Overflow - a discharge of excess waste water from a municipal or quasi-municipal sewerage system that conveys both sanitary wastes and stormwater in a single pipe system and that is in direct response to a storm event or snowmelt.
- b. Dry Weather Flows - flow in a sewerage system that occurs as a result of non-storm events or are caused solely by ground water infiltration.
- c. Wet Weather Flows - flow in a sewerage system that occurs as a direct result of a storm event, or snowmelt in combination with dry weather flows.

SPECIAL CONDITIONS

M. REOPENING OF PERMIT FOR MODIFICATION

In accordance with 38 M.R.S.A. § 414-A(5) and upon evaluation of the tests results or monitoring requirements specified in 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 limits 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.

N. SEVERABILITY

In the event that any provision(s), 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.

ATTACHMENT A

Maine Department of Environmental Protection
WET and Chemical Specific Data Report Form

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 Avg. for Month (MGD)⁽²⁾ _____
 Acute dilution factor _____ Date Sample Collected _____
 Chronic dilution factor _____ Date Sample Analyzed _____
 Human health dilution factor _____
 Criteria type: M(arine) or F(resh) _____
 Laboratory Address _____ Telephone _____
 Last Revision - February 4, 2014
 Lab Contact _____ Lab ID # _____

FRESH WATER VERSION

Please see the footnotes on the last page.

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

This form is for reporting laboratory data and facility information. Official compliance reviews will be done by DEP.

PRIORITY POLLUTANTS (4)		Reporting Limit	Effluent Limits		Reporting Limit Check	Possible Exceedence (7)	
			Acute (6)	Chronic (6)		Acute	Chronic
M	ANTIMONY	5					
M	BERYLLIUM	2					
M	MERCURY (6)	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-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					

ATTACHMENT B

Effluent Mercury Test Report

Name of Facility: _____

Federal Permit # ME _____

Pipe # _____

Purpose of this test: Initial limit determination

Compliance monitoring for: year _____ calendar quarter _____

Supplemental or extra test

SAMPLE COLLECTION INFORMATION

Sampling Date:

--	--	--

mm dd yy

Sampling time: _____ AM/PM

Sampling Location: _____

Weather Conditions: _____

Please describe any unusual conditions with the influent or at the facility during or preceding the time of sample collection:

Optional test - not required but recommended where possible to allow for the most meaningful evaluation of mercury results:

Suspended Solids _____ mg/L

Sample type: _____ Grab (recommended) or
_____ Composite

ANALYTICAL RESULT FOR EFFLUENT MERCURY

Name of Laboratory: _____

Date of analysis: _____ Result: _____ ng/L (PPT)

Please Enter Effluent Limits for your facility

Effluent Limits: Average = _____ ng/L Maximum = _____ ng/L

Please attach any remarks or comments from the laboratory that may have a bearing on the results or their interpretation. If duplicate samples were taken at the same time please report the average.

CERTIFICATION

I certify that to the best of my knowledge the foregoing information is correct and representative of conditions at the time of sample collection. The sample for mercury was collected and analyzed using EPA Methods 1669 (clean sampling) and 1631 (trace level analysis) in accordance with instructions from the DEP.

By: _____ Date: _____

Title: _____

PLEASE MAIL THIS FORM TO YOUR ASSIGNED INSPECTOR

ATTACHMENT C

Attachment C

Protocol for Total Phosphorus Sample Collection and Analysis for Waste Water Effluent

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 (laboratory must be certified for any method performed)

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 D

**MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
CSO ACTIVITY AND VOLUMES**

MUNICIPALITY OR DISTRICT		MEPDES / NPDES PERMIT NO.											
REPORTING YEAR		SIGNED BY:											
YEARLY TOTAL PRECIPITATION		DATE:											
CSO EVENT NO.	START DATE OF STORM	PRECIP. DATA		FLOW DATA (GALLONS PER DAY) OR BLOCK ACTIVITY ("1")						EVENT OVERFLOW GALLONS	EVENT DURATION HRS		
		TOTAL INCHES	MAX. HR. INCHES	LOCATION: NUMBER:	LOCATION: NUMBER:	LOCATION: NUMBER:	LOCATION: NUMBER:	LOCATION: NUMBER:	LOCATION: NUMBER:				
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
TOTALS													

Note 1: Flow data should be listed as gallons per day. Storms lasting more than one day should show total flow for each day.
 Note 2: Block activity should be shown as a "1" if the block floated away.

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

FACT SHEET

DATE: November 3, 2014

PERMIT NUMBER: #ME0101681

WASTE DISCHARGE LICENSE: #W002602-6C-I-R

NAME AND ADDRESS OF APPLICANT:
TOWN OF MADAWASKA
328 ST. THOMAS STREET
MADAWASKA, MAINE 04756

COUNTY: AROOSTOOK

NAME AND ADDRESS WHERE DISCHARGE(S) OCCUR(S):
MADAWASKA POLLUTION CONTROL FACILITY
7 PUBLIC WORKS AVE.
MADAWASKA, MAINE 04756

RECEIVING WATER CLASSIFICATION: ST. JOHN RIVER/CLASS C

COGNIZANT OFFICIAL CONTACT INFORMATION:

MR. ROBERT G. DUNBAR, SUPERINTENDANT
(207) 728-3608
bdunbar@townofmadawaska.net

1. APPLICATION SUMMARY

Application: On July 3, 2013, the Department accepted as complete for processing, a renewal application for Waste Discharge License (WDL) #W002602-5L-E-R / Maine Pollutant Discharge Elimination System (MEPDES) permit #ME0101681, which was issued on December 10, 2008 for a five year term. The 12/10/08 MEPDES permit authorized the Town to discharge a monthly average flow of 0.674 million gallons per day (MGD) of secondary treated sanitary wastewater from a publicly owned treatment works (POTW) as well as an unspecified quantity of untreated combined sanitary and storm water from two combined sewer overflow outfalls (CSOs) to the St. John River, Class C, in Madawaska, Maine.

1. APPLICATION SUMMARY

The Department issued a permit modification on May 4, 2010 to modify the schedule of compliance as listed under Special Condition K section 4 *CSO Master Plan*, and a minor revision on December 20, 2012 to grant an extension for the Twin Rivers Pump Station upgrade and associated work. A minor revision for the extension of the Twin Rivers Pump Station completion date and for the submission of the CSO Master Plan was granted on December 9, 2013.

2. PERMIT SUMMARY

- a. Terms and Conditions: This permitting action is carrying forward all the terms and conditions of the previous permitting actions except it is:
1. Revising the minimum monitoring frequency requirements for biochemical oxygen demand (BOD₅), total suspended solids (TSS), settleable solids, and *Escherichia coli* bacteria based on the results of facility testing;
 2. Incorporating the interim mercury limits established by the Department for this facility pursuant to *Certain deposits and discharges prohibited*, 38 M.R.S.A. § 420 and *Waste discharge licenses*, 38 M.R.S.A. § 413 and *Interim Effluent Limitations and Controls for the Discharge of Mercury*, 06-096 CMR 519 (last amended October 6, 2001);
 3. Revising former Special Condition J, *Disposal of Septage Waste in Waste Water Treatment Facility*;
 4. Establishing monitoring and reporting requirements for phosphorous and stream flow;
 5. Revising the sampling and Total Residual Chlorine footnote language in the permit;
 6. Revising former Special Condition H, *Wet Weather Flow Management Plan*;
 7. Revising former Special Condition K, *Combined Sewer Overflows (CSO's)*, and
 8. Eliminating the waiver from the requirement to achieve 85 percent removal for BOD₅ and TSS.
- b. History: The most current relevant regulatory actions include:
- July 8, 1993* – The USEPA issued National Pollution Discharge Elimination System (NPDES) permit #ME0101681 for a five (5) year term.
- May 8, 1997* – The USEPA authorized a waiver from additional Whole Effluent Toxicity testing.
- July 10, 1997* – The MEDEP issued WDL # W002602-46-C-R for a four (4) year term.
- January 12, 2001* – The Department received authorization from the USEPA to administer the NPDES permitting program in Maine, excluding areas of special interest to Maine Indian Tribes. From this point forward, the program has been referred to as the Maine Pollutant Discharge Elimination System (MEPDES) program, and MEPDES permit #ME0101681 has been utilized for this facility. On March

2. PERMIT SUMMARY (cont'd)

26, 2011, the USEPA authorized the Department to administer the MEPDES program in Indian territories of the Penobscot Nation and Passamaquoddy Tribe.

November 14, 2003 – The Department issued MEPDES Permit #ME0101681/WDL #002602-5L-D-R for a five-year term.

January 16, 2004 – The Department issued an administrative modification of the 11/14/03 MEPDES Permit, Special Condition F, by eliminating the monthly requirement for the Town to document CSO events with dedicated or non-dedicated clarifiers (“primary bypass”).

April 10, 2006 – The Department issued a permit modification for testing requirements under Chapter 530, *Surface Waters Toxics Control Program*.

August 25, 2008 – The Town filed a timely and complete application with the Department to renew their MEPDES permit.

September 22, 2008 – The Town requested an increase in the facility’s permitted design flow from 0.600 MGD to 0.674 MGD based upon an engineering evaluation of upgrades completed in 1999.

December 10, 2008 – The Department issued MEPDES Permit #ME0101681/WDL #W002602-5L-E-R for a five-year term.

May 4, 2010 – The Department issued permit modification #ME0101681/WDL #W002602-6C-F-M for a requested change in the schedule of compliance in Special Condition K, *Combined Sewer Overflow (CSO’s)*, Section 4, *CSO Master Plan*.

December 20, 2012 – The Department issued a minor revision, #ME0101681/WDL #W002602-6C-H-M for a requested extension for the completion of the Twin Rivers Pump Station upgrade and associated work.

June 24, 2013 - The Town submitted a timely and complete application General Application to the Department for renewal of the December 10, 2008 MEPDES permit. The application was accepted for processing on July 3, 2013, and was assigned WDL #W002602-6C-I-R / MEPDES #ME0101681.

December 6, 2013 – The Town submitted a request for a minor revision, #ME0101681/WDL #W002602-6C-J-M for an extension for the completion of the Twin Rivers Pump Station upgrade project as well as an extension for the submission of an updated CSO Master Plan. The minor revision was granted on December 9, 2013.

- c. Source Description: The wastewater treatment facility receives sanitary wastewater from approximately 4,600 residential and commercial users in the Town of Madawaska and is permitted to receive up to 4,000 gallons per day of septage from local haulers. “Septage” must mean 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.

2. PERMIT SUMMARY (cont'd)

The Town completed a major upgrade of the waste water treatment facility in 1999. The primary purpose of the upgrade was to abate discharges bypassing the wastewater treatment facility by improving proposed and secondary treatment along with maximizing flows receiving secondary treatment and improving sludge handling and dewatering processes. On 9/22/08, Wright-Pierce Engineers (Topsham, ME) submitted a request to the Department on behalf of the Town asking that the design flow of the facility be increased from 0.600 MGD to 0.674 MGD based on an evaluation of the facility upgrades completed in 1999.

Construction involving the removal and replacement of the Twin Rivers Pump Station and associated main and a major upgrade to the Main Street pump station began in July 2013 and was completed in January 2014. The Town has also undertaken an aggressive I/I reduction campaign that involves inspection of floor/roof drains and sump pumps. A map showing the location of the treatment facility is included as Fact Sheet **Attachment A**.

- d. Wastewater Treatment: Influent is conveyed into the wastewater treatment facility via two pump stations. After screening and grit removal, the flow is evenly divided into two aeration basins which operate using fine-bubble diffusers.

Effluent disinfection is accomplished using sodium hypochlorite. Modifications made to the original chlorine contact tanks provide for additional detention time at higher design flows. The RAS chlorination system acts as a backup for the effluent chlorination system.

The treated effluent is discharged to the St. John River via an 18-inch outfall pipe which has an 8 foot depth below mean low water at the outlet.

Sodium hypochlorite is available at the septage tank for odor control and at each return sludge pipeline to control sludge bulking caused by filamentous bacteria. These applications are independent of the automatic effluent disinfection system.

The Town has a Maine DEP Biosolids utilization Program License #S-022071-SC-A-N.

A process flow diagram submitted by the permittee is included as Fact Sheet **Attachment B**.

3. CONDITIONS OF PERMIT

Conditions of licenses, 38 M.R.S.A. § 414-A, requires that the effluent limitations prescribed for discharges, including, but not limited to, effluent toxicity, require 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, 38 M.R.S.A. § 420 and 06-096 CMR 530 require the regulation of toxic substances not to exceed levels set forth in *Surface Water Quality Criteria for Toxic Pollutants*, 06-096 CMR 584 (last amended 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.A., § 467(15)(A)(4) classifies the “St. John River, main stem, from the international bridge in Madawaska to where the international boundary leaves the river in Hamlin, those waters lying within the State, including all impoundments,” which includes the river at the point of discharge, as Class C waters. *Standards for classification of fresh surface waters*, 38 M.R.S.A., § 465(4) describes the standards for Class C.

5. RECEIVING WATER QUALITY CONDITIONS

The State of Maine 2012 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 a 15.51-mile segment of the main stem of the St. John River from Madawaska to La Grande Isle (ADB Assessment Unit ME0101000116_117R) as “Category 2: Rivers and Streams Attaining Some Designated Uses-Insufficient Information for Other Uses.”

The report also lists the St. John River at Madawaska (ME0101000121_117R) as “Category 4-A: Rivers and Streams with Impaired Use other than mercury, TMDL Complete.” Impairment in this context refers to recreational use impairment associated with CSOs.

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 4-A (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 waters, and many fish from any given water, 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.A. § 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 at this time that the discharge from the Town of Madawaska, as permitted, will cause or contribute to the failure of the receiving water to meet the designated uses of its ascribed classification.

6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- a. Flow: The previous permitting action established, and this permitting action is carrying forward, a monthly average discharge flow limit of 0.674 MGD based an engineering evaluation of the 1998 facility upgrade and is considered to be representative of the monthly average design flow for the waste water treatment facility.

The Department reviewed 39 Discharge Monitoring Reports (DMRs) that were submitted for the

6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

period January 2010 – April 1, 2013. A review of data indicates the following:

Flow

Value	Limit (MGD)	Range (MGD)	Mean (MGD)
Monthly Average	0.674	0.03 – 1.15	0.4
Daily Maximum	Report	0.06 – 2.27	0.9

- b. Dilution Factors – Dilution factors associated with the permitted discharge flow of 0.674 MGD from the facility were derived in accordance with 06-096 CMR 530(4)(A) and were calculated as follows:

$$\text{Dilution Factor} = \frac{\text{River flow(cfs)}(\text{Conv. Factor}) + \text{Discharge Flow (MGD)}}{\text{Discharge Flow (MGD)}}$$

$$\text{Chronic: } 7\text{Q}10 = 839 \text{ cfs} \Rightarrow \frac{(839 \text{ cfs})(0.6464) + (0.674 \text{ MGD})}{(0.674 \text{ MGD})} = 805.6:1$$

$$\text{Acute: } 1\text{Q}10 = 823 \text{ cfs} \Rightarrow \frac{(823 \text{ cfs})(0.6464) + (0.674 \text{ MGD})}{(0.674 \text{ MGD})} = 790.3:1$$

$$\text{Acute } \frac{1}{4} \text{ of } 1\text{Q}10^{(1)} = 206 \text{ cfs} \Rightarrow \frac{(206 \text{ cfs})(0.6464) + (0.674 \text{ MGD})}{(0.674 \text{ MGD})} = 198.6:1$$

$$\text{Harmonic Mean} = 4311 \text{ cfs} \Rightarrow \frac{(4596 \text{ cfs})(0.6464) + (0.674 \text{ MGD})}{(0.674 \text{ MGD})} = 4135.5:1$$

- c. Biochemical Oxygen Demand (BOD₅) and Total Suspended Solids (TSS): Previous permitting action established, and this permitting action is carrying forward, monthly average and weekly average technology-based concentration limits of 30 mg/L and 45 mg/L, respectively, for BOD₅ and TSS based on the secondary treatment requirements specified at *Effluent Guidelines and Standards*, 06-096 CMR 525(3)(III) (effective January 12, 2001), and a daily maximum concentration limit of 50 mg/L, which is based on a Department best professional judgment (BPJ) of best practicable treatment (BPT) for secondary treated wastewater. This permitting action is carrying forward a requirement for a minimum of 85% removal of BOD₅ & TSS pursuant to 06-096 CMR 525(3)(III)(a&b)(3). The monthly average, weekly average and daily maximum technology-based mass limitations that are being carried forward in this permitting action are based on a monthly flow limit of 0.674 MGD. The mass limits were

¹ Chapter 530 (D)(4)(a) states that analyses using numeric acute criteria for aquatic life must be based on 1/4 of the 1Q10 stream design flow to prevent substantial acute toxicity within any mixing zone. The 1Q10 is the lowest one-day flow over a ten-year recurrence interval. The regulation goes on to say that where it can be demonstrated that a discharge achieves rapid and complete mixing with the receiving water by way of an efficient diffuser or other effective method, analyses may use a greater proportion of the stream design, up to including all of it. The Department has made the determination that the discharge does not receive rapid and complete mixing. Therefore, the default stream flow of 1/4 of the 1Q10 is applicable in acute statistical evaluations.

6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

derived as follows:

Monthly average: $(0.674 \text{ MGD})(8.34)(30 \text{ mg/L}) = 169 \text{ lbs./day}$

Weekly average: $(0.674 \text{ MGD})(8.34)(45 \text{ mg/L}) = 253 \text{ lbs./day}$

Daily Maximum: $(0.674 \text{ MGD})(8.34)(50 \text{ mg/L}) = 281 \text{ lbs./day}$

The Department is eliminating the waiver to achieve 85% removal of BOD and TSS when the monthly average influent is less than 200 mg/L as the secondary treatment regulations do not contain a provision for such a waiver. The requirement to achieve 85% removal of BOD and TSS applies at all times to all flows receiving secondary treatment.

The Department reviewed 39 DMRs that were submitted for the period January 1, 2010 – April 1, 2013. A review of data indicates the following:

BOD₅ mass

Value	Limit (lbs./day)	Range (lbs./day)	Mean (lbs./day)
Monthly Average	169	6.00 – 62.00	24.9
Weekly Average	253	8.00 – 171.00	42
Daily Maximum	281	8.00 – 199.00	54.4

BOD₅ concentration

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Monthly Average	30	3.00 – 12.00	6.6
Weekly Average	45	4.00 – 16.00	9
Daily Maximum	50	6.00 – 20.00	10.9

The Department reviewed 39 DMRs that were submitted for the period January 1, 2010 – April 1, 2013. A review of data indicates the following:

TSS mass

Value	Limit (lbs./day)	Range (lbs./day)	Mean (lbs./day)
Monthly Average	169	5.00 – 56.00	19.7
Weekly Average	253	8.00 – 131.00	36
Daily Maximum	281	10.00 – 192.00	47.4

TSS concentration

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Monthly Average	30	2.00 – 9.00	5.1
Weekly Average	45	3.00 – 14.00	8
Daily Maximum	50	5.00 – 21.00	9.3

On April 19, 1996, the USEPA issued a guidance document entitled, “*Interim Guidance for Performance Based Reductions of NPDES Permit Monitoring Frequencies*” (USEPA 1996) as the basis for determining reduced monitoring frequencies. The guidance document was issued to reduce unnecessary reporting while at the same time maintaining a high level of environmental protection for

6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

facilities that have a good compliance record and pollutant discharges at levels below permit requirements. Monitoring requirements are not considered effluent limitations under section 402(o) of the Clean Water Act and therefore, anti-backsliding prohibitions would not be triggered by reductions in monitoring frequencies.

The USEPA guidance indicates "...the basic premise underlying a performance-based reduction approach is that maintaining a low average discharge relative to the permit limits results in a low probability of the occurrence of a violation for a wide range of sampling frequencies." The monitoring frequency reductions in USEPA's guidance were designed to maintain approximately the same level of reported violations as that experienced with the existing baseline sampling frequency in the permit. To establish baseline performance the long term average (LTA) discharge rate for each parameter is calculated using the most recent two-year data set of monthly average effluent data representative of current operating conditions. The LTA/permit limit ratio is calculated and then compared to the matrix in Table I of USEPA's guidance to determine the potential monitoring frequency reduction. It is noted Table I of USEPA's guidance was derived from a probability table that used an 80% effluent variability or coefficient of variation (cv). The permitting authority can take into consideration further reductions in the monitoring frequencies if the actual cv for the facility is significantly lower than the default 80% utilized by the USEPA in Table I.

In addition to the parameter-by-parameter performance history via the statistical evaluation cited above, the USEPA recommends the permitting authority take into consideration the facility enforcement history and the parameter-by-parameter compliance history and factors specific to the State or facility. If the facility has already been given monitoring reductions due to superior performance, the baseline may be a previous permit.

The USEPA's 1996 guidance recommends evaluation of the most current two-years of effluent data for a parameter. A review of the monitoring data for BOD₅ and TSS indicate the ratios (expressed in percent) of the long term effluent average to the monthly average limits can be calculated as follows:

BOD₅

Long term average = 24.9 lbs./day
Monthly average limit = 169 lbs./day
Current monitoring frequency = 2/Week

$$\text{Ratio} = \frac{24.9 \text{ lbs./day}}{169 \text{ lbs./day}} = 15\%$$

According to Table I of the USEPA guidance, a 2/Week monitoring requirement can be reduced to 1/Month. However, the Department has determined that a reduction to 1/Week testing for BOD₅ is consistent with our analysis of the data and BPJ. Therefore, the monitoring frequency for BOD₅ has been reduced to 1/Week in this permitting action.

TSS

Long term average = 19.7 lbs./day

6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

Monthly average limit = 169 lbs./day
Current monitoring frequency = 2/Week
Ratio = $\frac{19.7 \text{ lbs./day}}{169 \text{ lbs./day}} = 12\%$

According to Table I of the EPA Guidance, a 2/Week monitoring requirement can be reduced to 1/Month. However, the Department has determined that a reduction to 1/Week testing for TSS is consistent with our analysis of the data and BPJ. Therefore, the monitoring frequency for TSS has been reduced to 1/Week in this permitting action.

- d. Settleable Solids: Previous permitting action established, and this permitting action is carrying forward, a technology-based daily maximum concentration limit of 0.3 ml/L for settleable solids, which is considered a best practicable treatment limitation (BPT) for secondary treated wastewater.

The Department reviewed 39 DMRs that were submitted for the period January 1, 2010 – April 1, 2013. A review of data indicates the following:

Settleable solids concentration

Value	Limit (ml/L)	Range (ml/L)	Average (ml/L)
Daily Maximum	0.3	0.10 – 0.10	0.1

A review of the monitoring data for settleable solids indicates the ratios (expressed in percent) of the long term effluent average to the monthly average limits can be calculated as follows:

Long term average = 0.1 ml/L
Daily maximum limit = 0.3 ml/L
Current monitoring frequency = 5/Week

Ratio = $\frac{0.1 \text{ ml/L}}{0.3 \text{ ml/L}} = 33\%$

According to Table I of the USEPA guidance, a 5/Week monitoring requirement can be reduced to 2/Week. However, the Department has determined that a reduction to 3/Week testing for settleable solids is consistent with our analysis of the data and BPJ. Therefore, the monitoring frequency for settleable solids has been reduced to 3/Week in this permitting action.

- e. Escherichia coli Bacteria: The previous permitting established, and this permitting action carrying forward, seasonal (May 15-September 30 of each year) monthly average and daily maximum *E. coli* bacteria concentration limits of 126 colonies/100 ml and 949 colonies/100 ml, respectively. The monthly average concentration limit is based on 38 M.R.S.A. § 465(4) which requires that the *E. coli* bacteria of human and domestic animal origin in Class C waters may not exceed a geometric mean of 126 colonies/100 ml or an instantaneous level of 236 colonies/100 ml. 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 AND MONITORING REQUIREMENTS (cont'd)

Although *E. coli* bacteria limits are seasonal and apply between May 15 and September 30 of each year, the Department reserves the right to impose year-round bacteria limits if deemed necessary to protect the health, safety and welfare of the public.

The Department reviewed 15 DMRs that were submitted for the period January 1, 2010 – April 1, 2013. A review of data indicates the following:

***E. coli* Bacteria**

Value	Limit (col/100 ml)	Range (col/100 ml)	Mean (col/100 ml)
Monthly Average	126	6 – 23	13
Daily Maximum	949	10 -72	41

A review of the monitoring data for *E. coli* bacteria indicates the ratios (expressed in percent) of the long term effluent average to the monthly average limits can be calculated as follows:

Long term average = 13 col/100 ml
 Monthly average limit = 126 col/100 ml
 Current monitoring frequency = 2/Week

$$\text{Ratio} = \frac{13 \text{ col/100 ml}}{126 \text{ col/100 ml}} = 10\%$$

According to Table I of the USEPA Guidance, a 2/Week monitoring requirement can be reduced to 1/Month. However, the Department has determined that a reduction to 1/Week testing for *E. coli* is consistent with our analysis of the data and BPJ. Therefore, the monitoring frequency for *E. coli* bacteria has been reduced to 1/Week during the monitoring period of May 15 – September 30 in this permitting action.

- f. Total Residual Chlorine (TRC): The previous permitting action established a technology-based monthly average daily maximum concentration limit of 1.0 mg/L for TRC. Limitations on TRC are specified to ensure that ambient water quality standards are maintained and that BPT technology is being applied to the discharge. Department permitting actions impose the more stringent of either a water quality-based or BPT-based limit. With dilution factors as determined above, end-of-pipe (EOP) water quality-based concentration thresholds for TRC may be calculated as follows:

Acute (A) Criterion	Chronic (C) Criterion	A & C Dilution Factors	Calculated Acute Threshold	Chronic Threshold
19 µg/L	11 µg/L	302:1 (A) 1241:1 (C)	5.1 mg/L	12.1 mg/L

Example calculations:
 Acute Limit $\Rightarrow 0.019 \text{ mg/L (268)} = 5.1 \text{ mg/L}$
 Chronic Limit $\Rightarrow 0.011 \text{ mg/L (1105)} = 12.1 \text{ mg/L}$

6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

The Department has established a daily maximum BPT limitation of 1.0 mg/L for facilities that disinfect their effluent with elemental chlorine or chlorine-based compounds. The monthly average technology-based standard of 1.0 mg/L is more stringent than the calculated chronic water quality-based threshold of 12.1 mg/L and is therefore being carried forward in this permitting action.

The Department reviewed 15 DMRs that were submitted for the period January 1, 2010 – April 1, 2013. A review of data indicates the following:

Total residual chlorine

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Daily Maximum	1.0	0.60 – 1.00	0.8

This permitting action is carrying forward the minimum monitoring frequency of 5/Week.

- g. **pH:** Previous permitting action established, and this permitting action is carrying forward, a technology-based pH limit of 6.0 – 9.0 standard units (SU), which is based on 06-096 CMR 525(3)(III), and a minimum monitoring frequency requirement of 5/Week.

The Department reviewed 39 DMRs that were submitted for the period January 1, 2010 – April 1, 2013. A review of data indicates the following:

pH

Value	Limit (SU)	Minimum (SU)	Maximum (SU)
Range	6.0 – 9.0	6.1	8.1

This permitting action is carrying forward the minimum monitoring frequency requirement of 5/Week.

- h. **Mercury:** Pursuant to *Certain deposits and discharges prohibited*, 38 M.R.S.A. § 420 and *Waste discharge licenses*, 38 M.R.S.A. § 413 and *Interim Effluent Limitations and Controls for the Discharge of Mercury*, 06-096 CMR 519 (last amended October 6, 2001), the Department issued a *Notice of Interim Limits for the Discharge of Mercury* to the permittee thereby administratively modifying WDL #W002602-5L-E-R by establishing an interim monthly average and daily maximum effluent concentration limits of 7.1 parts per trillion (ppt) and 10.6 ppt, respectively, and a minimum monitoring frequency requirement of two (2) tests per year for mercury. It is noted the limitations have been incorporated into Special Condition A, *Effluent Limitations And Monitoring Requirements*, of this permit.

38 M.R.S.A. § 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 data base for the period May 6, 2004 through the present indicates the following:

Mercury

Value	Limit (ng/L)	Range (ng/L)	Mean (ng/L)
Average	7.1	1.0 – 6.0	2.2
Daily Maximum	10.6		

6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

Pursuant to 38 M.R.S.A. §420(1-B)(F), the Department issued a minor revision on February 6, 2012 to the December 10, 2008 permit thereby revising the minimum monitoring frequency requirement from twice per year given the permittee has maintained at least 5 years of mercury testing data.

Pursuant to 38 M.R.S.A. §420(1-B)(F), this permitting action is carrying forward the 1/Year monitoring frequency established in the February 6, 2012, permit modification.

- i. Total Phosphorus: Waste Discharge License Conditions, 06-096 CMR 523 (effective January 12, 2001) specifies that water quality-based limits are necessary when it has been determined that a discharge has reasonable potential to cause or contribute to an excursion above any State water quality standard including State narrative criteria. In addition, Chapter 523 specifies that water quality based limits may be based upon criteria 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; or using USEPA's Water quality criteria, published under section 304(a) of the CWA supplemented where necessary by other relevant information.

USEPA's Quality Criteria for Water 1986 (Gold Book) puts forth an in-stream phosphorus concentration recommendation of less than 100 µg/L (0.1 mg/L) in streams or other flowing waters not discharging directly to lakes or impoundments, to prevent nuisance algal growth. The use of the 0.1 mg/L Gold Book goal is consistent with the requirements of 06-096 CMR 523 noted above for use in a RP calculation.

It is noted that the Department has developed a draft rule (Nutrient Criteria for Surface Waters, Chapter 583) that establishes nutrient criteria for surface waters. Methods described in the draft rule are intended to make decisions about attainment or impairment of designated and existing uses of surface waters. The draft rule specifies that nutrient criteria consist of a variety of environmental response indicators (such as percent algal cover, chlorophyll a, dissolved oxygen, etc.) and numeric nutrient indicators (total phosphorus) linked together. The draft rule further specifies that impairment is determined only if one or more of the environmental response indicators is not met. A water body cannot be determined to be impaired solely due to an exceedence of the phosphorus numeric nutrient indicator. The phosphorus numeric nutrient indicators in the draft rule are as follows: Class A: 18 ug/L, Class B: 30 ug/L, Class C: 33 ug/L. These values were derived based on Maine data.

Until Chapter 583, Nutrient Criteria for Surface Waters, is finally promulgated; the Department has chosen to utilize the USEPA national Gold Book goal of 100 ug/L total phosphorus as an interim in-stream threshold (rather than the numeric nutrient indicators in the draft rule) solely for the purposes of the RP calculation. 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 Department expects the actual numeric nutrient indicators for phosphorus will remain at or near the numbers established in the draft rule, though this is subject to further analysis.

Based on the above rationale, the Department has chosen to utilize the Gold Book recommendation of 100 ug/L for an initial RP determination. It is the Department's intent to continue to make determinations of actual attainment or impairment based upon environmental response indicators in the specific receiving water as specified in the Draft Nutrient Criteria. The use of the Gold Book goal of

6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

100 ug/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. Therefore, this permit may be reopened during the term of the permit to modify any reasonable potential calculation, phosphorus limits, or monitoring requirements based on site-specific data.

The permittee has not been conducting total phosphorus testing; however, the Department has numerous total phosphorus data results for publicly owned treatment works throughout the State. Based on this data the Department is assuming a discharge concentration of 2.2 mg/L (2,200 µg/L) (typical from POTWs). For the background concentration in the St. John at Madawaska, the Department utilized a total phosphorus sample taken in 2009 at Biomonitoring Station 368 located upstream of the facility in Madawaska and performed a mass balance analysis accounting for the addition of the Grand Isle discharge and instream assimilation and calculated an average background total phosphorus concentration of 17 ug/L. Using the following calculation and criteria, the Town does not exhibit a reasonable potential to exceed the EPA's Gold Book ambient water quality criteria of 0.1 mg/L (100 µg/L) for phosphorus or the Department's 06-096 CMR 583 draft criteria of 33 ug/L.

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

Qe = effluent flow i.e. facility design flow	=	0.674 MGD
Ce = effluent pollutant concentration	=	2.2 mg/L
Qs = 7Q10 flow of receiving water	=	542 MGD
Cs = upstream concentration	=	0.017 mg/L
Qr = receiving water flow	=	543MGD
Cr = receiving water concentration		

$$Cr = \frac{(0.674 \text{ MGD} \times 2.2 \text{ mg/L}) + (542 \text{ MGD} \times 0.017 \text{ mg/L})}{543 \text{ MGD}} = 0.020 \text{ mg/L}$$

$$Cr = 0.020 \text{ mg/L} < 0.1 \text{ mg/L} \Rightarrow \text{No Reasonable Potential}$$

$$Cr = 0.020 \text{ mg/L} < 0.033 \text{ mg/L} \Rightarrow \text{No Reasonable Potential}$$

Therefore, no end-of-pipe limitations for total phosphorus are being established in this permitting action. However, due to the absence of total phosphorous effluent data from the facility this permitting action is establishing a reporting only requirement for effluent total phosphorous concentrations at a frequency of 2/Month to characterize their effluent. Given that there is no total phosphorus background concentration for the St. John River directly upstream of the Van Buren outfall, this permit is also requiring the permittee to obtain background total phosphorus concentrations at a minimum of three samples spread out over the course of several days and preferably; at least a week apart between June 15 – September 15 of calendar year 2015, when flows at the USGS Gauge #01014000 are below median flow and not within 48 hours following a rain event of 0.5" or more within the watershed above the sampling location.

The upstream sampling location must be in the main flow of the receiving water, upstream of the facility outfall and downstream of the Twin Rivers, LLC discharge. The location should be safely accessible and collected in order of preference: by wading, by boat, from bridges in mid-flow, or from stream bank (only if flowing and representative).

6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

- j. Stream Flow: Stream flow measurements must be recorded on the same day as background total phosphorus samples are collected. Flows must be obtained from USGS Gauge #01014000 referred to as "St. John River below Fish River, near Ft. Kent," unless another method of obtaining stream flow data is approved by the Department. Stream gauge data for all Maine stations can be found on the USGS website at:
http://waterdata.usgs.gov/nwis/current/?type=dailydischarge&group_key=state_cd&search_site_no_station_nm=maine&site_no_name_select=station_nm (last accessed on July 17, 2014).

Whole Effluent Toxicity (WET), Priority Pollutant, and Analytical Chemistry Testing

38 M.R.S.A. § 414-A and 38 M.R.S.A. § 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(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.

06-096 CMR 530(2)(B) categorizes dischargers subject to the toxics rule into one of four levels (Levels I through IV). Level IV dischargers are those dischargers having a chronic dilution factor of at least 500 to 1. The chronic dilution factor associated with the discharge from the Town is 1105:1; therefore, this facility is considered a Level IV facility for purposes of toxics testing. 06-096 CMR 530(2)(D) (1) states that "*routine testing requirements for Level IV are waived, except that the Department shall require an individual discharger to conduct testing under the following conditions:*

- (a) The discharger's permit application or information available to the Department indicate that toxic compounds may be present in toxic amounts; or,*
- (b) Previous testing conducted by the discharger or similar dischargers indicates that toxic compounds may be present in toxic amounts."*

Therefore, this permitting action is carrying forward the toxics testing waiver pursuant to 06-096 CMR 530 and Department best professional judgment.

06-096 CMR 530(2)(D)(4) states, "*all dischargers having waived or reduced testing must file statements with the Department on or before December 31 of each year describing the following:*

- (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;*
and

6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (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 storm water 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 instituted if it determines that there have been changes in the character of the discharge or if annual certifications described above are not submitted. This permitting action carries forward Special Condition H 06-096 CMR 530(2)(D)(4) *Statement for Reduced/Waived Toxics Testing*, pursuant to 06-096 CMR 530(2)(D)(4).

7. COMBINED SEWER OVERFLOWS

This permit does not contain effluent limitations on the individual CSO outfalls listed in the table below.

<u>CSO Outfall Identification</u>	<u>Location</u>	<u>Receiving Water & Class</u>
#001	Main Pump Station	St. John River, Class C
#002	Twin Rivers Pump Station	St. John River, Class C

Combined Sewer Overflow Abatement 06-096 CMR 570 (last amended February 8, 1978) states that for discharges from overflows from combined municipal storm and sanitary sewer systems, the requirement of "best practicable treatment" specified in 38 M.R.S.A. 414-A(1)(D) may be met by agreement with the discharger, as a condition of its permit, through development of a plan within a time period specified by the Department.

The Town has been actively implementing the recommendations of the Master Plan. Special Condition L, *Effluent Limitations and Conditions For Combined Sewer Overflows*, of the permit contains a schedule of compliance for items in the most current up-to-date abatement plan which must be completed.

The Department acknowledges that the elimination of the two remaining CSOs in the collection system is a costly, long-term project. As the Madawaska sewer collection system is upgraded and maintained in according to the CSO Master Plan and Nine Minimum Controls, there should be reductions in the frequency and volume of CSO activities.

8. DISPOSAL OF SEPTAGE WASTE IN WASTE WATER TREATMENT FACILITY

The Town has applied for, and pursuant to *Standards for the Addition of Transported Wastes to Waste Water Treatment Facilities*, 06-096 CMR 555 (last amended February 5, 2009), and the Town's written septage management plan, this permitting action authorizes the Town to receive and introduce into the treatment process or solids handling stream up to a daily maximum of 4,000 GPD of transported wastes (septage wastes). See Special Condition K of the permit.

9. 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 water body to meet standards for Class C classification.

10. PUBLIC COMMENTS

Public notice of this application was made in the *St. John Valley Times* newspaper on or about June 17, 2013. 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).

11. DEPARTMENT CONTACTS

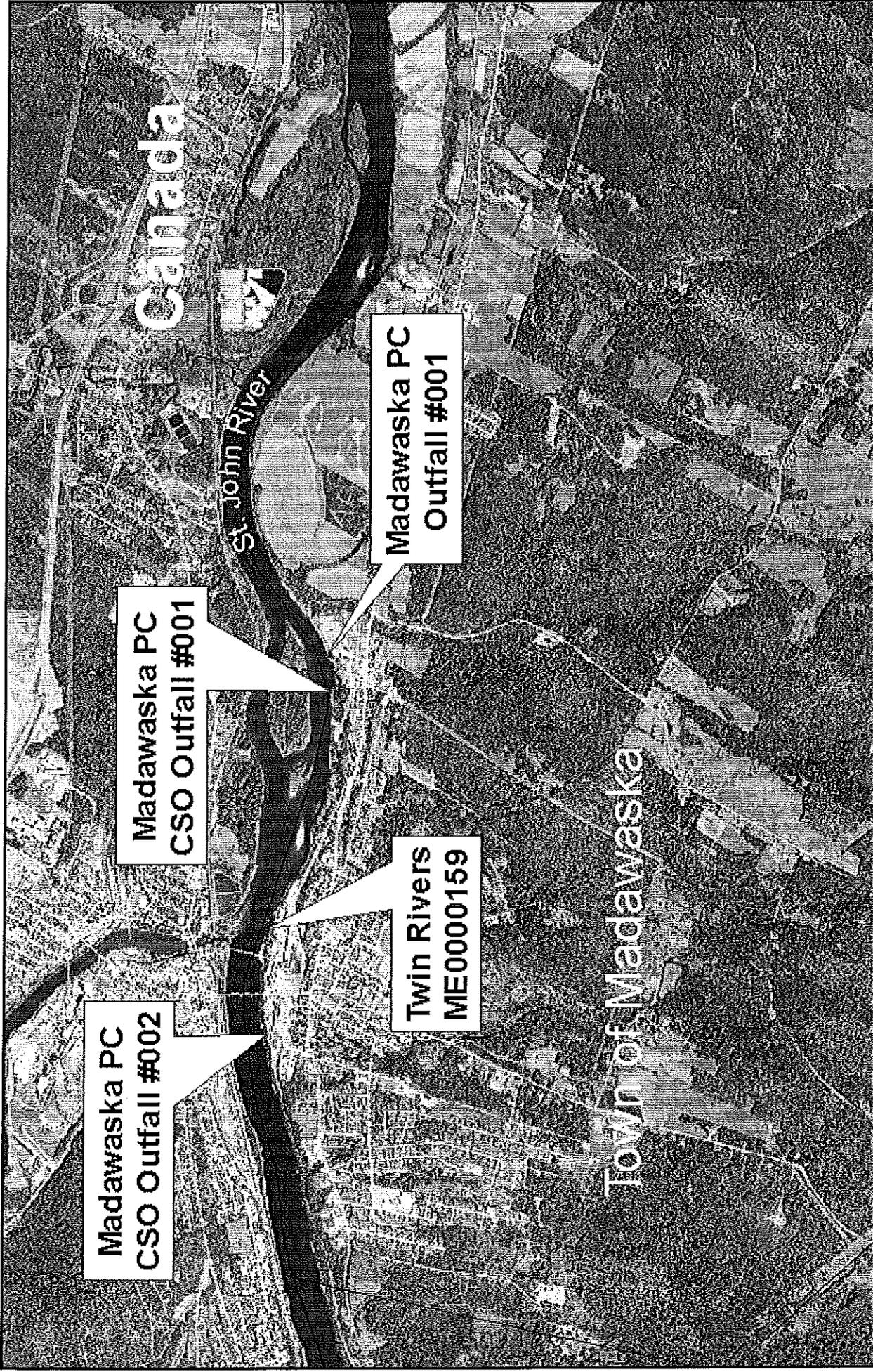
Additional information concerning this permitting action may be obtained from, and written comments sent to:

Yvette Meunier
Division of Water Quality Management
Bureau of Land & Water Quality
Department of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017 Telephone: (207) 215-1579
e-mail: Yvette.Meunier@Maine.gov

12. RESPONSE TO COMMENTS

During the period of October 2, 2014 through the issuance of this permit, the Department solicited comments on the proposed draft Maine Pollutant Discharge Elimination System Permit to be issued to the Town of Madawaska for the proposed discharge. The Department did not receive comments from the permittee, state or federal agencies or interested parties that resulted in any substantive change(s) in the terms and conditions of the permit. Therefore the Department has not prepared a Response to Comments. It is noted that minor typographical and grammatical errors identified in comments are not included in this section, but were corrected, where necessary, in the final permit.

ATTACHMENT A



Madawaska PC
CSO Outfall #002

Madawaska PC
CSO Outfall #001

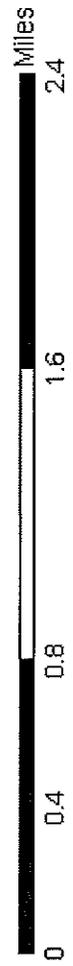
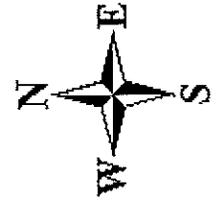
Twin Rivers
ME0000159

Madawaska PC
Outfall #001

Canada

St. John River

Town of Madawaska



Map Created by Maine DEP
August 8, 2014

Madawaska Pollution Control, Madawaska, Maine

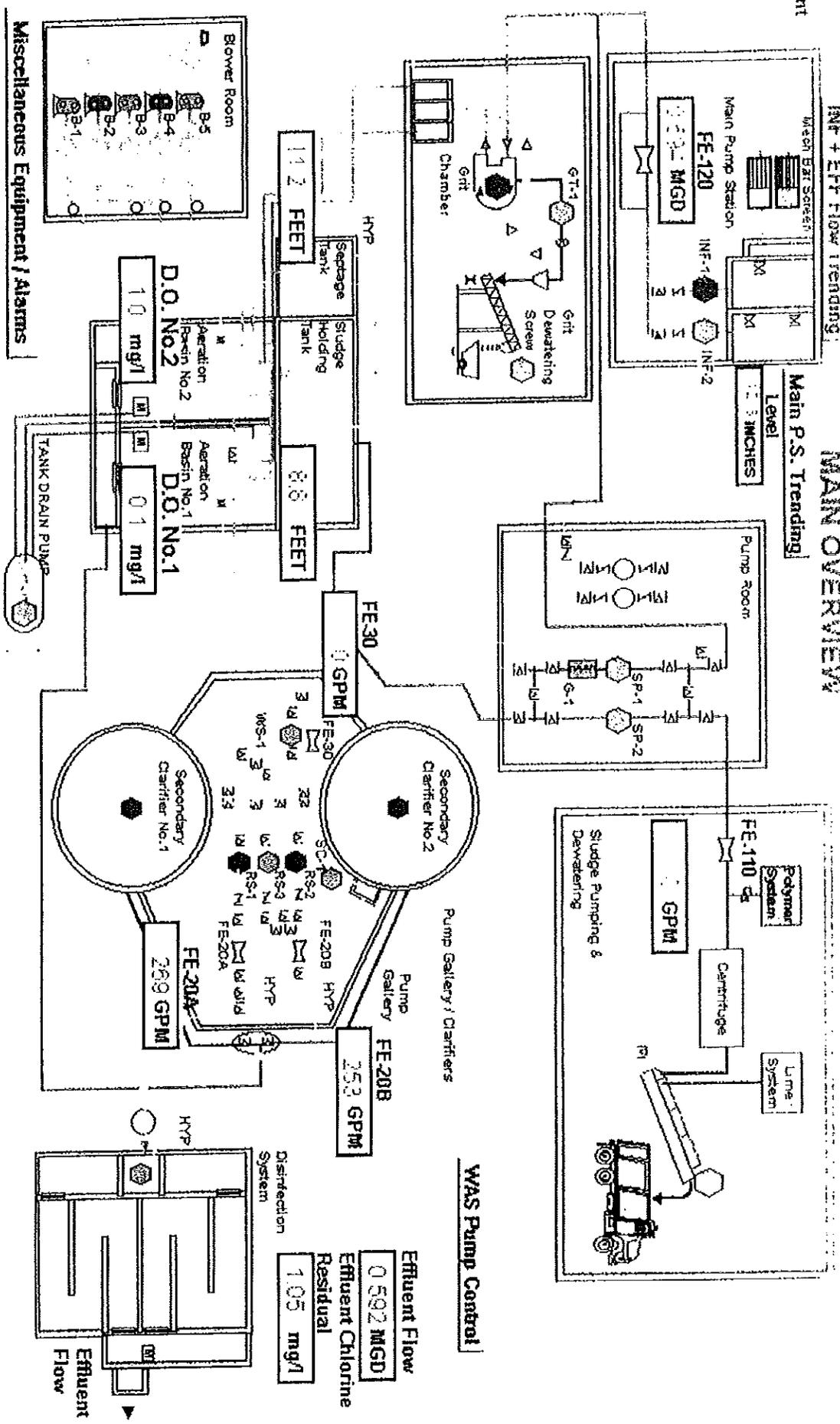
ATTACHMENT B

uent
w

INF + EFF Flow Trending

MAIN OVERVIEW

Main P.S. Trending



Question #2.A. Attachment

ATTACHMENT C



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAPTER 530.2(D)(4) CERTIFICATION

PAUL R. LEPAGE
GOVERNOR

PATRICIA W. AHO
Commissioner

MEPDES# _____ Facility Name _____

Since the effective date of your permit, have there been;		NO	YES 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?	<input type="checkbox"/>	<input type="checkbox"/>
2	Changes in the condition or operations of the facility that may increase the toxicity of the discharge?	<input type="checkbox"/>	<input type="checkbox"/>
3	Changes in storm water collection or inflow/infiltration affecting the facility that may increase the toxicity of the discharge?	<input type="checkbox"/>	<input type="checkbox"/>
4	Increases in the type or volume of hauled wastes accepted by the facility?	<input type="checkbox"/>	<input type="checkbox"/>

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	1 st Quarter	2 nd Quarter	3 rd Quarter	4 th Quarter
WET Testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Priority Pollutant Testing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analytical Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other toxic parameters ¹	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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.

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
(207) 287-7688 FAX: (207) 287-7826
RAY BLDG., HOSPITAL ST.

BANGOR
106 HOGAN ROAD, SUITE 6
BANGOR, MAINE 04401
(207) 941-4570 FAX: (207) 941-4584

PORTLAND
312 CANCO ROAD
PORTLAND, MAINE 04103
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04769-2094
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MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT
STANDARD CONDITIONS APPLICABLE TO ALL PERMITS

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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).

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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 of 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 MAINTENANCE 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

MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

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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.

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(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.

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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.

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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 MRS.A, § 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

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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).

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- (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.

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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 contaminants 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.

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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.

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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.



DEP INFORMATION SHEET

Appealing a Department Licensing Decision

Dated: March 2012

Contact: (207) 287-2811

SUMMARY

There are two methods available to an aggrieved person seeking to appeal a licensing decision made by the Department of Environmental Protection's ("DEP") Commissioner: (1) in an administrative process before the Board of Environmental Protection ("Board"); or (2) in a judicial process before Maine's Superior Court. An aggrieved person seeking review of a licensing decision over which the Board had original jurisdiction may seek judicial review in Maine's Superior Court.

A judicial appeal of final action by the Commissioner or the Board regarding an application for an expedited wind energy development (35-A M.R.S.A. § 3451(4)) or a general permit for an offshore wind energy demonstration project (38 M.R.S.A. § 480-HH(1)) or a general permit for a tidal energy demonstration project (38 M.R.S.A. § 636-A) must be taken to the Supreme Judicial Court sitting as the Law Court.

This INFORMATION SHEET, in conjunction with a review of the statutory and regulatory provisions referred to herein, can help a person to understand his or her rights and obligations in filing an administrative or judicial appeal.

I. ADMINISTRATIVE APPEALS TO THE BOARD

LEGAL REFERENCES

The laws concerning the DEP's *Organization and Powers*, 38 M.R.S.A. §§ 341-D(4) & 346, the *Maine Administrative Procedure Act*, 5 M.R.S.A. § 11001, and the DEP's *Rules Concerning the Processing of Applications and Other Administrative Matters* ("Chapter 2"), 06-096 CMR 2 (April 1, 2003).

HOW LONG YOU HAVE TO SUBMIT AN APPEAL TO THE BOARD

The Board must receive a written appeal within 30 days of the date on which the Commissioner's decision was filed with the Board. Appeals filed after 30 calendar days of the date on which the Commissioner's decision was filed with the Board will be rejected.

HOW TO SUBMIT AN APPEAL TO THE BOARD

Signed original appeal documents must be sent to: Chair, Board of Environmental Protection, c/o Department of Environmental Protection, 17 State House Station, Augusta, ME 04333-0017; faxes are acceptable for purposes of meeting the deadline when followed by the Board's receipt of mailed original documents within five (5) working days. Receipt on a particular day must be by 5:00 PM at DEP's offices in Augusta; materials received after 5:00 PM are not considered received until the following day. The person appealing a licensing decision must also send the DEP's Commissioner a copy of the appeal documents and if the person appealing is not the applicant in the license proceeding at issue the applicant must also be sent a copy of the appeal documents. All of the information listed in the next section must be submitted at the time the appeal is filed. Only the extraordinary circumstances described at the end of that section will justify evidence not in the DEP's record at the time of decision being added to the record for consideration by the Board as part of an appeal.

WHAT YOUR APPEAL PAPERWORK MUST CONTAIN

Appeal materials must contain the following information at the time submitted:

1. *Aggrieved Status.* The appeal must explain how the person filing the appeal has standing to maintain an appeal. This requires an explanation of how the person filing the appeal may suffer a particularized injury as a result of the Commissioner's decision.
2. *The findings, conclusions or conditions objected to or believed to be in error.* Specific references and facts regarding the appellant's issues with the decision must be provided in the notice of appeal.
3. *The basis of the objections or challenge.* If possible, specific regulations, statutes or other facts should be referenced. This may include citing omissions of relevant requirements, and errors believed to have been made in interpretations, conclusions, and relevant requirements.
4. *The remedy sought.* This can range from reversal of the Commissioner's decision on the license or permit to changes in specific permit conditions.
5. *All the matters to be contested.* The Board will limit its consideration to those arguments specifically raised in the written notice of appeal.
6. *Request for hearing.* The Board will hear presentations on appeals at its regularly scheduled meetings, unless a public hearing on the appeal is requested and granted. A request for public hearing on an appeal must be filed as part of the notice of appeal.
7. *New or additional evidence to be offered.* The Board may allow new or additional evidence, referred to as supplemental evidence, to be considered by the Board in an appeal only when the evidence is relevant and material and that the person seeking to add information to the record can show due diligence in bringing the evidence to the DEP's attention at the earliest possible time in the licensing process or that the evidence itself is newly discovered and could not have been presented earlier in the process. Specific requirements for additional evidence are found in Chapter 2.

OTHER CONSIDERATIONS IN APPEALING A DECISION TO THE BOARD

1. *Be familiar with all relevant material in the DEP record.* A license application file is public information, subject to any applicable statutory exceptions, made easily accessible by DEP. Upon request, the DEP will make the material available during normal working hours, provide space to review the file, and provide opportunity for photocopying materials. There is a charge for copies or copying services.
2. *Be familiar with the regulations and laws under which the application was processed, and the procedural rules governing your appeal.* DEP staff will provide this information on request and answer questions regarding applicable requirements.
3. *The filing of an appeal does not operate as a stay to any decision.* If a license has been granted and it has been appealed the license normally remains in effect pending the processing of the appeal. A license holder may proceed with a project pending the outcome of an appeal but the license holder runs the risk of the decision being reversed or modified as a result of the appeal.

WHAT TO EXPECT ONCE YOU FILE A TIMELY APPEAL WITH THE BOARD

The Board will formally acknowledge receipt of an appeal, including the name of the DEP project manager assigned to the specific appeal. The notice of appeal, any materials accepted by the Board Chair as supplementary evidence, and any materials submitted in response to the appeal will be sent to Board members with a recommendation from DEP staff. Persons filing appeals and interested persons are notified in advance of the date set for Board consideration of an appeal or request for public hearing. With or without holding a public hearing, the Board may affirm, amend, or reverse a Commissioner decision or remand the matter to the Commissioner for further proceedings. The Board will notify the appellant, a license holder, and interested persons of its decision.

II. JUDICIAL APPEALS

Maine law generally allows aggrieved persons to appeal final Commissioner or Board licensing decisions to Maine's Superior Court, see 38 M.R.S.A. § 346(1); 06-096 CMR 2; 5 M.R.S.A. § 11001; & M.R. Civ. P 80C. A party's appeal must be filed with the Superior Court within 30 days of receipt of notice of the Board's or the Commissioner's decision. For any other person, an appeal must be filed within 40 days of the date the decision was rendered. Failure to file a timely appeal will result in the Board's or the Commissioner's decision becoming final.

An appeal to court of a license decision regarding an expedited wind energy development, a general permit for an offshore wind energy demonstration project, or a general permit for a tidal energy demonstration project may only be taken directly to the Maine Supreme Judicial Court. See 38 M.R.S.A. § 346(4).

Maine's Administrative Procedure Act, DEP statutes governing a particular matter, and the Maine Rules of Civil Procedure must be consulted for the substantive and procedural details applicable to judicial appeals.

ADDITIONAL INFORMATION

If you have questions or need additional information on the appeal process, for administrative appeals contact the Board's Executive Analyst at (207) 287-2452 or for judicial appeals contact the court clerk's office in which your appeal will be filed.

Note: The DEP provides this INFORMATION SHEET for general guidance only; it is not intended for use as a legal reference. Maine law governs an appellant's rights.
