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STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

File

JOHN ELIAS BALDACCI  
GOVERNOR

DAWN R. GALLAGHER  
COMMISSIONER

Mr. Thomas Milligan  
City Engineer  
City of Biddeford  
P.O. Box 586  
Biddeford, Maine 04005

June 25, 2003

RE: Maine Pollutant Discharge Elimination System (MEPDES) Permit #ME0100048  
Maine Waste Discharge License (WDL) Application #W000683-5M-E-R  
**Final Permit/License**

Dear Mr. Milligan:

Enclosed please find a copy of your **final** MEPDES permit and Maine WDL **renewal** which was approved by the Department of Environmental Protection. This permit/license replaces the National Pollutant Discharge Elimination System (NPDES) permit #ME0000396, last issued by the Environmental Protection Agency (EPA) on September 30, 1996. Please read the 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.*"

We would like to make you aware of the fact that your monthly Discharge Monitoring Reports (DMR) may not reflect the revisions in this permitting action for several months however, you are required to report applicable test results for parameters required by this permitting action that do not appear on the DMR. Please see the attached April 2003 O&M Newsletter article regarding this matter. If you have any questions regarding the matter, please feel free to call me at 287-7693.

Sincerely,

Gregg Wood  
Division of Water Resource Regulation  
Bureau of Land and Water Quality

Enc.

cc: Stuart Rose, DEP/SMRO

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## DMR Lag

When the Department renews discharge permits, the parameter limits may change or parameters may be added or deleted. In some cases, it is merely the replacement of the federally issued NPDES permit with a state-issued MEPDES permit that results in different limits. When the new permit is finalized, a copy of the permit is passed to our data entry staff for coding into EPA's Permits Compliance System (PCS) database. PCS was developed in the 1970's and is not user-friendly. Entering or changing parameters can take weeks or even months.

This can create a lag between the time your new permit becomes effective and the new permit limits appearing on your DMRs. If you are faced with this, it can create three different situations that have to be dealt with in different ways.

1. If the parameter was included on previous DMRs, but only the limit was changed, there will be a space for the data. Please go ahead and enter it. When the changes are made to PCS, the program will have the data and compare it to the new limit.
2. When a parameter is eliminated from monitoring in your new permit, but there is a delay in changing the DMR, you will have a space on the DMR that needs to be filled. For a parameter that has been eliminated, please enter the space on the DMR for that parameter only with "NODI-9" (No Discharge Indicator Code #9). This code means monitoring is conditional or not required this monitoring period.
3. When your new permit includes parameters for which monitoring was not previously required, and coding has

not caught up on the DMRs, there will not be any space on the DMR identified for those parameters. In that case, please fill out an extra sheet of paper with the facility name and permit number, along with all of the information normally required for each parameter (parameter code, data, frequency of analysis, sample type, and number of exceedances). Each data point should be identified as monthly average, weekly average, daily max, etc. and the units of measurement such as mg/L or lb/day. Staple the extra sheet to the DMR so that the extra data stays with the DMR form. Our data entry staff cannot enter the data for the new parameters until the PCS coding catches up. When the PCS coding does catch up, our data entry staff will have the data right at hand to do the entry without having to take the extra time to seek it from your inspector or from you.

EPA is planning significant improvements for the PCS system that will be implemented in the next few years. These improvements should allow us to issue modified permits and DMRs concurrently. Until then we appreciate your assistance and patience in this effort.

*Phil Garwood*



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

DEPARTMENT ORDER

IN THE MATTER OF

CITY OF BIDDEFORD	)	MAINE POLLUTANT DISCHARGE
BIDDEFORD, YORK COUNTY, MAINE	)	ELIMINATION SYSTEM PERMIT
PUBLICLY OWNED TREATMENT WORKS	)	AND
ME0100048	)	WASTE DISCHARGE LICENSE
W000683-5M-E-R	)	RENEWAL
APPROVAL		

Pursuant to the provisions of the Federal Water Pollution Control Act, Title 33 USC, Section 1251, et. seq. and Maine Law 38 M.R.S.A., Section 414-A et seq., and applicable regulations, the Department of Environmental Protection (the Department) has considered the application of the CITY OF BIDDEFORD (City), with its supportive data, agency review comments, and other related material on file and finds the following facts:

**APPLICATION SUMMARY**

The applicant has applied to the Department for renewal of Department Waste Discharge License (WDL) #W000683-47-C-R which was issued on August 4, 1997 and expired on August 4, 2002. The 8/4/97 WDL authorized the discharge of up to a monthly average flow of 6.5 million gallons per day (MGD) of secondary treated waste waters from a publicly owned waste water treatment facility to the Saco River, Class SC, in Biddeford, Maine. The WDL also authorized the City to discharge untreated combined storm water and sanitary waste waters from fourteen (14) combined sewer overflows (CSO) to the Saco River and to Thatcher Brook, Class B.

On January 12, 2001, the Department received authorization from the U.S. Environmental Protection Agency (EPA) to administer the National Pollutant Discharge Elimination System (NPDES) permit program in Maine. From this point forward, the program will be referenced as the Maine Pollutant Discharge Elimination System (MEPDES) permit program and permit #ME0100048 (same as NPDES permit number) will be utilized as the primary reference number.

**PERMIT SUMMARY**

This permitting action is similar to the 8/4/97 WDL action in that it is;

1. Carrying forward the monthly average flow limit of 6.5 MGD.
2. Carrying forward the monthly average, weekly average and daily maximum technology based concentration limits for biochemical oxygen demand (BOD<sub>5</sub>) and total suspended solids (TSS).
3. Carrying forward the daily maximum "Report" only requirement for BOD<sub>5</sub> and TSS.

**PERMIT SUMMARY (cont'd)**

4. Carrying forward the monthly average and weekly average technology based mass limits for BOD<sub>5</sub> and TSS.
5. Carrying forward the monthly average and daily maximum water quality based concentration limits for fecal coliform bacteria.
6. Carrying forward the daily maximum technology based concentration limit for total residual chlorine.
7. Carrying forward the surveillance and screening level whole effluent toxicity (WET) and chemical specific (priority pollutant) testing.
8. Carrying forward authorization to introduce up to 6,500 gpd of septage into the waste water treatment process and up to 10,000 gallons per day into the septage receiving/holding facility.
9. Carrying forward the chronic no observed effect level (C-NOEL) limit of 5.9% for the sea urchin and inland silverside.

**This permitting action is different than the 8/4/97 WDL action in that it is;**

10. Establishing a daily maximum best practicable treatment (BPT) limit of 0.3 ml/L for settleable solids and deleting the monthly average concentration "Report" only requirement.
11. Revising the daily maximum BPT pH range limit from 6.0 – 8.5 standard units to 6.0 – 9.0 standard units based on a new Department regulation.
12. Establishing a technology based minimum requirement of 85% removal for BOD<sub>5</sub> and TSS.
13. Requiring the City to periodically update and maintain a Wet Weather Flow Management Plan and Operation and Maintenance (O&M) Plan.
14. Establishing monthly average and or daily maximum mass and concentration limits for total copper and seasonal limits for ammonia.
15. Eliminating the acute no observed effect level (A-NOEL) limit of 10.3% for the mysid shrimp and inland silverside.
16. Eliminating the quarterly testing for arsenic, antimony, cadmium, cyanide, lead, nickel, silver and thallium.
17. Eliminating the requirement for ambient water quality monitoring in the Saco River.
18. Revising the number of combined sewer overflows (CSOs) from fourteen down to eleven.

## CONCLUSIONS

BASED on the findings in the attached Fact Sheet dated May 9, 2003 (revised June 9, 2003) and subject to the Conditions listed below, the Department makes the following CONCLUSIONS.

For discharge of secondary treated waste waters from the waste water treatment facility:

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, 38 MRSA Section 464(4)(F), will be met, in that:
  - a. Existing in-stream water uses and the level of water quality necessary to protect and maintain those existing uses will be maintained and protected;
  - b. Where high quality waters of the State constitute an outstanding national resource, that water quality will be maintained and protected;
  - c. 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;
  - 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 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 eleven CSO's) will be subject to effluent limitations that require application of best practicable treatment as defined in Maine law, 38 M.R.S.A., §414-A(1)(D).

**ACTION**

THEREFORE, the Department APPROVES the application of the CITY OF BIDDEFORD, to discharge secondary treated waste waters to the Saco River and untreated combined storm water and sanitary waste water to Thatcher Brook, Class B, and the Saco River, Class SC, in Biddeford Maine. The discharges shall be 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 expires five (5) years from the date of signature below.

DONE AND DATED AT AUGUSTA, MAINE, THIS 25<sup>th</sup> DAY OF June, 2003.

COMMISSIONER OF ENVIRONMENTAL PROTECTION

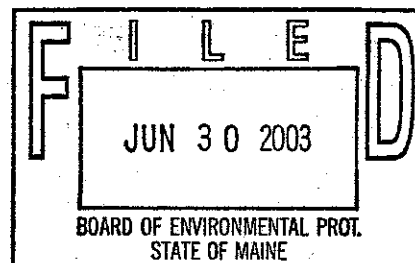
BY: *Dawn E. Gallagher*

Dawn Gallagher, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application December 9, 2002

Date of application acceptance December 16, 2002



Date filed with Board of Environmental Protection \_\_\_\_\_

This Order prepared by GREGG WOOD, BUREAU OF LAND & WATER QUALITY

W06835me

6/9/03

## SPECIAL CONDITIONS

## A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning the effective date of the permit and lasting through permit expiration, the permittee is authorized to discharge secondary treated sanitary waste waters from **OUTFALL #001** to the Saco River. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic				Discharge Limitations			Monitoring Requirements			
	Monthly Average lb/day	Weekly Average lb/day	Daily Maximum lb/day	Monthly Average as specified	Weekly Average as specified	Daily Maximum as specified	Measurement Frequency as specified	Sample Type as specified		
Flow [50050]	6.5 MGD [03]	---	Report MGD [03]	---	---	---	Continuous [09/09]	Recorder [RC]		
Biochemical Oxygen Demand (BOD <sub>5</sub> ) [00310]	1,626 #/day [26]	2,439 #/day [26]	Report #/day [26]	30 mg/L [19]	45 mg/L [19]	50 mg/L [19]	5/Week [05/07]	Composite [24]		
BOD <sub>5</sub> % Removal <sup>(1)</sup> [01010]	---	---	---	85% [19]	---	---	1/Month [01/30]	Calculate [CA]		
Total Suspended Solids (TSS) [00530]	1,626 #/day [26]	2,439 #/day [26]	Report #/day [26]	30 mg/L [19]	45 mg/L [19]	50 mg/L [19]	5/Week [05/07]	Composite [24]		
TSS % Removal <sup>(1)</sup> [01011]	---	---	---	85% [19]	---	---	1/Month [01/30]	Calculate [CA]		
Settleable Solids [00545]	---	---	---	---	---	0.3 ml/L [25]	1/Day [01/01]	Grab [GR]		
Fecal Coliform Bacteria <sup>(2)</sup> [31616]	---	---	---	15/100 ml <sup>(3)</sup> [13]	---	50/100 ml [13]	5/Week [05/07]	Grab [GR]		
Total Residual Chlorine <sup>(2)</sup> [50060]	---	---	---	---	---	0.1 mg/L [19]	2/Day [02/01]	Grab [GR]		
pH (Std. Unit) [00400]	---	---	---	---	---	6.0 -- 9.0 [12]	1/Day [01/01]	Grab [GR]		

The italicized numeric values bracketed in the table above and on the following pages are not limitations but code numbers that Department personnel utilize to code the monthly Discharge Monitoring Reports (DMR's).



## SPECIAL CONDITIONS

## A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - OUTFALL #001 (cont'd)

Effluent Characteristic		Discharge Limitations					Monitoring Requirements		
	Monthly Average lb/day	Weekly Average lb/day	Daily Maximum lb/day	Monthly Average as specified	Weekly Average as specified	Daily Maximum as specified	Measurement Frequency as specified	Sample Type as specified	
Ammonia (as N) [00610] Nov. 1 – April 30	1,374 lbs/day [26]	---	---	25 mg/L [19]	---	---	1/Year [01/YR]	Composite [24]	
Ammonia (as N) [00610] May 1 – Oct. 30	916 lbs/day [26]	---	---	17 mg/L [19]	---	---	1/Year [01/YR]	Composite [24]	
Copper (Total) [01042]	---	---	1.5 lbs/day [26]	---	---	42 ug/L [26]	2/Year [02/YR]	Composite [24]	

**SURVEILLANCE LEVEL** - Beginning upon issuance of the permit and lasting through twelve months prior to permit expiration.

Effluent Characteristic		Discharge Limitations				Monitoring Requirements	
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Report % <sup>[23]</sup>	Measurement Frequency <sup>[24]</sup>	Sample Type <sup>[24]</sup>
<u>Whole Effluent Toxicity(4)</u> <u>Acute – NOEL</u> <i>Mysidopsis bahia</i> <sup>(10M4E)</sup> (Mysid Shrimp)  <i>Menidia beryllina</i> <sup>(10M4E)</sup> (Inland Silverside)  <u>Chronic – NOEL</u> <i>Menidia beryllina</i> <sup>(10M4E)</sup> (Inland Silverside)  <i>Arbacia punctulata</i> <sup>(10M4E)</sup> (Sea urchin)	---	---	---	---	Report % <sup>[23]</sup>	1/Year <sup>[01/YR]</sup>	Composite <sup>[24]</sup>
	---	---	---	---	Report % <sup>[23]</sup>	1/Year <sup>[01/YR]</sup>	Composite <sup>[24]</sup>
	---	---	---	---	5.9 % <sup>[23]</sup>	1/Year <sup>[01/YR]</sup>	Composite <sup>[24]</sup>
	---	---	---	---	5.9 % <sup>[23]</sup>	1/Year <sup>[01/YR]</sup>	Composite <sup>[24]</sup>
<u>Chemical Specific (5)</u> <sup>(10004E)</sup>	---	---	---	---	Report ug/L <sup>[23]</sup>	1/Year <sup>[01/YR]</sup>	Composite/Grab <sup>[24]</sup>

## SPECIAL CONDITIONS

## A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS - OUTFALL #001 (cont'd)

**SCREENING LEVEL - Beginning twelve months prior to permit expiration.**

Effluent Characteristic		Discharge Limitations				Monitoring Requirements	
		Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type
<b>Whole Effluent Toxicity(4)</b> <b>Acute - NOEL</b> <i>Mysidopsis bahia</i> [TDM3E] <i>(Mysid Shrimp)</i>  <i>Menidia beryllina</i> [TDM6B] <i>(Inland Silverside)</i>  <b>Chronic - NOEL</b> <i>Menidia beryllina</i> [TDF6B] <i>(Inland Silverside)</i>  <i>Arbacia punctulata</i> [TBH3A] <i>(Sea urchin)</i>		---	---	---	Report % [23]	1/Quarter [01/90]	Composite [24]
		---	---	---	Report % [23]	1/Quarter [01/90]	Composite [24]
		---	---	---	5.9% [23]	1/Quarter [01/90]	Composite [24]
		---	---	---	5.9 % [23]	1/Quarter [01/90]	Composite [24]
Chemical Specific (5) [50008]		---	---	---	Report ug/L [28]	1/Quarter [01/90]	Composite/Grab [24]

## SPECIAL CONDITIONS

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

#### Footnotes:

**Sampling Locations:** Influent sampling shall be conducted just prior to the bar screen for the waste water treatment facility. Effluent sampling for all parameters shall be sampled at the manhole after the chlorination/dechlorination structures but prior to the flow meter on a year-round basis. Any change in sampling location must be approved by the Department in writing.

**Sampling** - Sampling and analysis must be conducted in accordance with; a) methods approved in 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 shall be analyzed by a laboratory certified by the State of Maine's Department of Human Services.

1. **Percent Removal** - The treatment facility shall maintain a minimum of 85 percent removal of both total suspended solids and biochemical oxygen demand for all flows receiving secondary treatment. The percent removal shall be calculated based on influent and effluent concentration values. The percent removal shall be waived when the monthly average influent concentration is less than 200 mg/L. For instances when this occurs, the facility shall report "NODI-9" on the monthly Discharge Monitoring Report.
2. **Fecal coliform bacteria and total residual chlorine (TRC)** - Limits apply on a year-round basis.
3. **Fecal coliform bacteria** - The monthly average limitation of 15 colonies/100 ml is a geometric mean limitation and results shall be calculated and reported as such.
4. **Whole effluent toxicity (WET) testing** - Definitive WET testing is a multi-concentration testing event (a minimum of five dilutions bracketing the critical acute and chronic dilutions of 10.3 % and 5.9 % respectively), which provides a point estimate of toxicity in terms of No Observed Effect Level, commonly referred to as NOEL or NOEC. A-NOEL is defined as the acute no observed effect level with survival as the end point. C-NOEL is defined as the chronic no observed effect level with survival, reproduction and growth as the end points.

## SPECIAL CONDITIONS

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

#### Footnotes:

**Beginning upon issuance of the permit and lasting through twelve months prior to the expiration date of the permit**, the permittee shall conduct surveillance level WET testing at a frequency of 1/Year. The permittee shall conduct a WET test in a different calendar quarter each year such that a test is conducted in each of the four calendar quarters during the first four years of the term of the permit. Acute tests shall be conducted on the mysid shrimp (*Mysidopsis bahia*) and the inland silverside (*Menidia beryllina*). Chronic tests shall be conducted on the inland silverside (*Menidia beryllina*) and on the sea urchin (*Arbacia punctulata*). Results shall be reported to the Department within 30 days of the permittee receiving the test results from the laboratory conducting the testing.

**Beginning twelve months prior to the expiration date of the permit**, the permittee shall conduct screening level WET testing at a frequency of 1/Quarter for four consecutive calendar quarters. Acute tests shall be conducted on the mysid shrimp (*Mysidopsis bahia*) and the inland silverside (*Menidia beryllina*). Chronic tests shall be conducted on the inland silverside (*Menidia beryllina*) and on the sea urchin (*Arbacia punctulata*). Results shall be reported to the Department within 30 days of the permittee receiving the test results from the laboratory conducting the testing.

**The permittee is also required to analyze the effluent for the parameters specified in the analytic chemistry on the form in Attachment A of this permit every time a WET test is performed.**

Toxicity tests must be conducted by an experienced laboratory approved by the Department. The laboratory must follow procedures as described in the following U.S.E.P.A. methods manuals.

- a. Short Term Methods for Estimating the Chronic Toxicity of Effluent and Receiving Water to Marine and Estuarine Organisms, Fifth Edition, October 2002, EPA-821-R-02-014.
  - b. Methods for Measuring the Acute Toxicity of Effluent and Receiving Waters to Freshwater and Marine Organisms, Third Edition, October 2002, EPA-821-R-02-012.
5. **Priority pollutant** - (chemical specific testing pursuant to Department rule Chapter 530.5) testing are those parameters listed by the USEPA pursuant to Section 307(a) of the Clean Water Act and published a 40 CFR Part 122, Appendix D, Tables II and III.

## SPECIAL CONDITIONS

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

#### Footnotes:

**Beginning upon issuance of the permit and lasting through twelve months prior to the expiration date of the permit** surveillance level chemical specific testing shall be conducted at a frequency of once per year. Chemical specific testing shall be conducted on samples collected at the same time as those collected for whole effluent toxicity tests where applicable, such that a chemical specific test is conducted in a different calendar quarter each year such that a test is conducted in each of the four calendar quarters during the first four years of the term of the permit. **Beginning twelve months prior to the expiration date of the permit**, screening level chemical specific testing shall be conducted at a frequency of four per year (four consecutive calendar quarters).

Chemical specific testing shall be conducted using methods that permit detection of a pollutant at existing levels in the effluent or that achieve minimum reporting levels of detection as specified by the Department. Results shall be submitted to the Department within thirty (30) days of the permittee receiving the data report from the laboratory conducting the testing. **For the purposes of Discharge Monitoring Report (DMR) reporting, enter a "1" for yes, testing done this monitoring period or "NODI-9," monitoring not required this period.**

All mercury sampling shall be conducted in accordance with EPA's "clean sampling techniques" found in EPA Method 1669, Sampling Ambient Water For Trace Metals At EPA Water Quality Criteria Levels. All mercury analysis shall be conducted in accordance with EPA Method 1631, Determination of Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Fluorescence Spectrometry.

## **SPECIAL CONDITIONS**

### **B. NARRATIVE EFFLUENT LIMITATIONS**

1. The effluent shall not contain a visible oil sheen, foam or floating solids at any time which would impair the usages designated by the classification of the receiving waters.
2. The effluent shall not contain materials in concentrations or combinations which are hazardous or toxic to aquatic life, or which would impair the usages designated by the classification of the receiving waters.
3. The discharges shall not cause visible discoloration or turbidity in the receiving waters which would impair the usages designated by the classification of the receiving waters.
4. Notwithstanding specific conditions of this permit the effluent must 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.

### **C. DISINFECTION**

If chlorination is used as a means of disinfection, an approved chlorine contact tank providing the proper detention time consistent with good engineering practice must be utilized, followed by a dechlorination system if the total residual chlorine (TRC) limit cannot be met by dissipation in the detention tank. The TRC in the effluent shall at no time cause any demonstrable harm to aquatic life in the receiving waters. The dose of chlorine applied shall be sufficient to leave a TRC concentration that will effectively reduce bacteria to levels below those specified in Special Condition A, "*Effluent Limitations and Monitoring Requirements*", above.

### **D. TREATMENT PLANT OPERATOR**

The treatment facility must be operated by a person holding a **Grade V**, certificate pursuant to Title 32 M.R.S.A., Section 4171 et seq. 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.

### **E. LIMITATIONS FOR INDUSTRIAL USERS**

Pollutants introduced into the waste water collection and treatment system by a non-domestic source (user) shall not pass through or interfere with the operation of the treatment system.

## **SPECIAL CONDITIONS**

### **F. UNAUTHORIZED DISCHARGES**

The permittee is authorized to discharge only in accordance with the terms and conditions of this permit and only from Outfall 001 and the eleven (11) CSOs. Discharges of waste water from any other point source are not authorized under this permit, but shall be reported in accordance with Standard Condition B(5) (Bypass) of this permit.

### **G. MONITORING AND REPORTING**

Monitoring results obtained during the previous month shall 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 (13<sup>th</sup>) day of the month or hand-delivered to a Department Regional Office such that the DMR's are received by the Department on or before the fifteenth (15<sup>th</sup>) day of the month** following the completed reporting period. A signed copy of the DMR and all other reports required herein shall be submitted to the following address:

Department of Environmental Protection  
Southern Maine Regional Office  
Bureau of Land and Water Quality  
Division of Compliance, Engineering & Technical Assistance  
312 Canco Road  
Portland, Maine 04103

### **H. NOTIFICATION REQUIREMENT**

In accordance with Standard Condition D, the permittee shall notify the Department of the following.

1. Any introduction of pollutants into the waste water collection and treatment system from an indirect discharger in a primary industrial category discharging process waste water; and
2. Any substantial change in the volume or character of pollutants being introduced into the waste water collection and treatment system by a source introducing pollutants into the system at the time of permit issuance. For the purposes of this section, notice regarding substantial change shall include information on:
  - (a) the quality and quantity of waste water introduced to the waste water collection and treatment system; and
  - (b) any anticipated impact caused by the change in the quantity or quality of the waste water to be discharged from the treatment system.

## **SPECIAL CONDITIONS**

### **I. DISPOSAL OF SEPTAGE WASTE IN WASTE WATER TREATMENT FACILITY**

During the effective period of this permit, the permittee is authorized to receive up to **10,000 gallons per day** into the solids handling facilities but is only authorized to introduce into the waste water treatment facility up to **6,500 gallons per day** of septage subject to the following terms and conditions:

1. This approval is limited to methods and plans described in the application and supporting documents. Any variations are subject to review and approval prior to implementation.
2. At no time shall the addition of septage cause or contribute to effluent quality violations. If such conditions do exist, the introduction of septage into the treatment process or solids handling stream shall be suspended until effluent quality can be maintained.
3. The permittee shall maintain records which shall include, as a minimum, the following by date: volume of septage received, source of the septage (name of municipality), the hauler transporting the septage, the dates and volume of septage added to the waste water treatment influent and test results.
4. The addition of septage into the treatment process or solids handling stream shall 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 septage into the treatment process or solids handling stream shall be reduced or terminated in order to eliminate the overload condition.
5. Septage known to be harmful to the treatment processes shall not be accepted. Wastes which contain heavy metals, toxic chemicals, extreme pH, flammable or corrosive materials in concentrations harmful to the treatment operation shall be refused.
6. Holding tank waste water shall not be recorded as septage but should be reported in the treatment facility's influent flow.

### **J. WET WEATHER FLOW MANAGEMENT PLAN**

The treatment facility staff shall maintain a 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. The permittee shall review their plan annually and record any necessary changes to keep the plan up to date.



## SPECIAL CONDITIONS

### K. OPERATION & MAINTENANCE (O&M) PLAN

This facility shall have a current written comprehensive Operation & Maintenance (O&M) Plan. The plan shall provide a systematic approach by which 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.

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

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

### L. COMBINED SEWER OVERFLOWS (CSO's)

Pursuant to Chapter 570 of Department Rules, *Combined Sewer Overflow Abatement*, the permittee is authorized to discharge from the following locations of combined sewer overflows (CSO's) (stormwater and sanitary wastewater) subject to the conditions and requirements herein.

#### 1. CSO locations

<u>Outfall #</u>	<u>Location</u>	<u>Receiving Water &amp; Class</u>
003	Brook Street CSO	Thatcher Brook, Class B
004	Bradbury Street CSO	Saco River, Class SC
005	Western Avenue CSO	Saco River, Class SC
006	Horrigan Court CSO	Saco River, Class SC
007	Elm Street (Route #1) CSO	Saco River, Class SC
008	Maple Street CSO	Saco River, Class SC
009	Water Street CSO	Saco River, Class SC
011	Biddeford Textile CSO	Saco River, Class SC
013	Rumery's Boatyard CSO	Saco River, Class SC
014	Lafayette Street CSO	Saco River, Class SC
016	FMI CSO	Thatcher Brook, Class B

## **SPECIAL CONDITIONS**

### **L. COMBINED SEWER OVERFLOWS (CSO's)**

#### **2. Prohibited Discharges**

- a) The discharge of dry weather flows is prohibited. All such discharges shall be reported to the Department in accordance with Standard Condition D (1) of this permit.
- b) No discharge shall occur as a result of mechanical failure, improper design or inadequate operation or maintenance.
- c) No discharges shall 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 effluent shall not contain 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 effluent shall not contain 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 discharge shall not impart 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.

#### **4. CSO Master Plan (see Sections 2 & 3 of Chapter 570 Department Rules)**

The permittee shall implement CSO control projects in accordance with the approved CSO Master Plan entitled *Combined Sewer Overflow Master Plan Report, dated December 1992* (revised November 1994), the amended CSO Master Plan entitled, *Amended CSO Master Plan Phase 1*, dated July 1995, and in accordance with approved

## SPECIAL CONDITIONS

### L. COMBINED SEWER OVERFLOWS (CSO's)(cont'd)

implementation schedules, the latest of which was contained in a letter to EPA dated December 16, 2002. By August 1, 2004 (*PCS Code 33001*) the permittee shall submit to the Department for review and approval, a scope of work for the Phase II CSO Master Plan and by July 1, 2005 (*PCS Code 06699*) submit a draft Phase II CSO Master Plan and implementation schedule for review and approval by the Department. The abatement schedule(s) in the approved Master Plan may be amended from time to time based on mutual agreements between the permittee and the Department. The permittee must notify the Department in writing prior to any proposed changes to the implementation schedule(s).

5. Nine Minimum Controls (NMC) (see Section 5 Chapter 570 of Department Rules)

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

6. CSO Compliance Monitoring Program (see Section 6 Chapter 570 of Department Rules)

The permittee shall 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 shall be determined by actual flow monitoring, or by estimation using a model such as EPA's Storm Water Management Model (SWMM).

Results shall be submitted annually as part of the annual *CSO Progress Report* (see below), and shall include annual precipitation, CSO volumes (actual or estimated) and any block test data required. Any abnormalities during CSO monitoring shall also be reported. The results shall 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 shall be monitored for volume and frequency of overflow to determine the effectiveness of the project toward CSO abatement. This requirement shall not apply to those areas where complete separation has been completed and CSO outfalls have been eliminated.

## SPECIAL CONDITIONS

### L. COMBINED SEWER OVERFLOWS (CSO's)(cont'd)

7. Additions of New Wastewater (see Section 8 Chapter 570 of Department Rules)

Chapter 570 Section 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 shall 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.

8. Annual CSO Progress Reports (see Section 7 of Chapter 570 of Department Rules)

**By March 1 (PCS Code 33101)**, of each year the permittee shall submit *CSO Progress Reports* covering the previous calendar year (January 1 to December 31). The CSO Progress Report shall include, but is not necessarily limited to, the following topics as further described in Chapter 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 shall 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  
Division of Engineering, Compliance and Technical Assistance  
17 State House Station  
Augusta, Maine 04333  
e-mail: [CSOCoordinator@state.me.us](mailto:CSOCoordinator@state.me.us)

9. Signs

If not already installed, the permittee shall 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 shall be a minimum of 12" x 18" in size with white lettering against a green background and shall contain the following information:

**CITY OF BIDDEFORD  
WET WEATHER  
SEWAGE DISCHARGE  
CSO # AND NAME**

## **SPECIAL CONDITIONS**

### **L. COMBINED SEWER OVERFLOWS (CSO's)(cont'd)**

#### **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 storm water 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.

### **M. REOPENING OF PERMIT FOR MODIFICATIONS**

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 anytime 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. INDUSTRIAL PRETREATMENT PROGRAM**

1. Pollutants introduced into POTW's by a non-domestic source (user) shall not pass-through the publicly owned treatment works (POTW) or interfere with the operation or performance of the works.
  - a. The permittee shall develop and enforce specific effluent limits (local limits) for Industrial User(s), and all other users, as appropriate, which together with appropriate changes in the POTW facilities or operation, are necessary to ensure continued compliance with the POTW's MEPDES permit or sludge use or disposal practices. Specific local limits shall not be developed and enforced without individual notice to persons or groups who have requested such notice and an opportunity to respond.

## SPECIAL CONDITIONS

### N. INDUSTRIAL PRETREATMENT PROGRAM (cont'd)

**Within 180 days of the effective date of this permit, (PCS Code 08799),** the permittee shall prepare and submit a written technical evaluation to the Department analyzing the need to revise local limits. As part of this evaluation, the permittee shall assess how the POTW performs with respect to influent and effluent of pollutants, water quality concerns, sludge quality, sludge processing concerns/inhibition, bio-monitoring results, activated sludge inhibition, worker health and safety and collection system concerns. In preparing this evaluation, the permittee shall complete the attached form (Attachment B of this permit) with the technical evaluation to assist in determining whether existing local limits need to be revised. Justifications and conclusions should be based on actual plant data if available and should be included in the report. Should the evaluation reveal the need to revise local limits, the permittee shall complete the revisions within 120 days of notification by the Department and submit the revisions to the Department for approval. The permittee shall carry out the local limits revisions in accordance with EPA's Guidance Manual for the Development and Implementation of Local Discharge Limitations Under the Pretreatment Program (December, 1987).

2. The permittee shall implement the Industrial Pretreatment Program in accordance with the legal authorities, policies, procedures, and financial provisions described in the permittee's approved Pretreatment Program, and the General Pretreatment Regulations, found at 40 CFR 403 and Department rule Chapter 528. At a minimum, the permittee must perform the following duties to properly implement the Industrial Pretreatment Program (IPP):
  - a. Carry out inspection, surveillance, and monitoring procedures which will determine, independent of information supplied by the industrial user, whether the industrial user is in compliance with the Pretreatment Standards. At a minimum, all significant industrial users shall be sampled and inspected at the frequency established in the approved IPP but in no case less than once per year and maintain adequate records.
  - b. Issue or renew all necessary industrial user control mechanisms within 90 days of their expiration date or within 180 days after the industry has been determined to be a significant industrial user.
  - c. Obtain appropriate remedies for noncompliance by an industrial user with any pretreatment standard and/or requirement.
  - d. Maintain an adequate revenue structure for continued implementation of the Pretreatment Program.

**SPECIAL CONDITIONS**

**N. INDUSTRIAL PRETREATMENT PROGRAM (cont'd)**

- e. The permittee shall provide the Department with an annual report describing the permittee's pretreatment program activities for the twelve month period ending 60 days prior to the due date in accordance with federal regulation found at 40 CFR 403.12(i) and Department rule Chapter 528(12)(I). **The annual report shall be consistent with the format described in Attachment C of this permit and shall be submitted no later than March 1<sup>st</sup> of each calendar year. (PCS Code 61012)**
- f. The permittee must obtain approval from the Department prior to making any significant changes to the industrial pretreatment program in accordance with federal regulation found at 40 CFR 403.18(c) and Department rule Chapter 528(18).
- g. The permittee must assure that applicable National Categorical Pretreatment Standards are met by all categorical industrial users of the POTW. These standards are published in the federal regulations found at 40 CFR 405 et. seq.
- h. The permittee must modify its pretreatment program to conform to all changes in the federal regulations and State rules that pertain to the implementation and enforcement of the industrial pretreatment program. **Within 180 days of the effective date of this permit, (PCS Code 50999), the permittee must provide the Department in writing, proposed changes (if applicable) to the permittee's pretreatment program deemed necessary to assure conformity with current federal regulations and State rules. At a minimum, the permittee must address in its written submission the following areas: (1) Enforcement response plan; (2) revised sewer use ordinances; and (3) slug control evaluations. The permittee will implement these proposed changes pending the Department's approval under federal regulation 40 CFR 403.18 and Department rule Chapter 528(18). This submission is separate and distinct from any local limits analysis submission described in section 1(a) above.**

# ATTACHMENT A



## MARINE WHOLE EFFLUENT TOXICITY (WET) TEST REPORT

Facility \_\_\_\_\_ DEP License No. \_\_\_\_\_ NPDES permit No. \_\_\_\_\_

Contact person \_\_\_\_\_ Telephone No. \_\_\_\_\_

Date initially sampled mm/dd/yyyy Date tested mm/dd/yyyy Chlorinated? yes/no

Test type	screening	diagnostic	surveillance	Dechlorinated?
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
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91				
92				
93				
94				
95				
96				
97				
98				
99				
100				

Results	% effluent	Test required by DEP/EPA
Methyl chloroform	100	
1,1,1-trichloroethane	100	
1,1,2-trichloroethane	100	
1,1,2,2-tetrachloroethane	100	
1,1,2,2,3-pentachloroethane	100	
1,1,2,2,3,3-hexachloroethane	100	
1,1,2,2,3,3,4-heptachloroethane	100	
1,1,2,2,3,3,4,4-octachloroethane	100	
1,1,2,2,3,3,4,4,5-nonachloroethane	100	
1,1,2,2,3,3,4,4,5,5-decachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6-undecachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6-dodecachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7-tridecachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7-tetradecachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8-pentadecachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-hexadecachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9-heptadecachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-octadecachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10-nonadecachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-eicadecachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11-hentriacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-triaicachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12-tetraicachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13-hexacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-heptacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14-octacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15-decacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-undecacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16-dodecacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16-tridecacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17-tetradecacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17-pentadecacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18-hexadecacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18-heptadecacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19-octadecacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19-nonadecacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20-eicadecacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20-hentriacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21-triaicachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21-tetraicachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22-pentacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22-hexacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23-heptacachloroethane	100	
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13		

	Mysid shrimp	sea urchin	silverside
LC50			
A-NOEL			
C-NOEL			

Receiving Water Concentration	
A-NOEL	
C-NOEL	

Data summary		Myxid shrimp	sea urchin	silver side	
		% survival	% fertilized	% survival	
		A>90	>70	A>90	C>80
					final wt (mg)
					>0.50
QC standard					
lab control					
receiving water contrl					
conc. 1 ( %)					
conc. 2 ( %)					
conc. 3 ( %)					
conc. 4 ( %)					
conc. 5 ( %)					
conc. 6 ( %)					
stat test used					

place \* next to values statistically different from controls

Reference toxicant	Mysid shrimp	sea urchin	silver side	
	LC50/A-NOEL	C-NOEL	LC50/A-NOEL	C-NOEL
toxicant /date				
limits (mg/l)				
results (mg/l)				

	Solubility Adjustment
brine	
sea salt	
other	

[illegible]

**Laboratory Conducting Tests.** To the best of my knowledge this information is true, accurate, and complete

signature \_\_\_\_\_

signature	_____		
printed name	_____	company	_____
tel. no.	_____	address	_____

# ANALYTICAL CHEMISTRY RESULTS MARINE WATERS

Date collected

mm/dd/yy

Date analyzed

mm/dd/yy

Lab ID No.

Analyte	Report Units	Results		Detection level	Method
		receiving water	effluent		
Ammonia nitrogen	µg/L			µg/L	
Salinity	ppt			ppt	
Total residual oxidants	mg/L			mg/L	
Total organic carbon	mg/L			mg/L	
Total solids	mg/L			mg/L	
Total suspended solids	mg/L			mg/L	
Total aluminum	µg/L			µg/L	
Total cadmium	µg/L			µg/L	
Total chromium	µg/L			µg/L	
Total copper	µg/L			µg/L	
Total lead	µg/L			µg/L	
Total nickel	µg/L			µg/L	
Total zinc	µg/L			µg/L	
other ( pH )	S.U.			S.U.	
other ( )					

Comments

Laboratory conducting test. To the best of my knowledge this information is true, accurate, and complete

signature

lab name

printed name

address

tel no.

## ATTACHMENT B

### RE-ASSESSMENT OF TECHNICALLY BASED INDUSTRIAL DISCHARGE LIMITS

Pursuant to federal regulation 40 CFR §122.21(j)(4) and Department rule Chapter 528, all Publicly Owned Treatment Works (POTWs) with approved Industrial Pretreatment Programs (IPPs) shall provide the Department with a written evaluation of the need to revise local industrial discharge limits under federal regulation 40 CFR §403.5(c)(1) and Department rule Chapter 528(6).

Below is a form designed by the U.S. Environmental Protection Agency (EPA - New England) to assist POTWs with approved IPPs in evaluating whether their existing Technically Based Local Limits (TBLLs) need to be recalculated. The form allows the permittee and Department to evaluate and compare pertinent information used in previous TBLLs calculations against present conditions at the POTW.

**Please read the directions below before filling out the attached form.**

#### ITEM I.

- \* In Column (1), list what your POTW's influent flow rate was when your existing TBLLs were calculated. In Column (2), list your POTW's present influent flow rate. Your current flow rate should be calculated using the POTW's average daily flow rate from the previous 12 months.
- \* In Column (1) list what your POTW's SIU flow rate was when your existing TBLLs were calculated. In Column (2), list your POTW's present SIU flow rate.
- \* In Column (1), list what dilution ratio and/or 7Q10 value was used in your previous NPDES permit. In Column (2), list what dilution ratio and/or 7Q10 value is presently being used in your new/reissued MEPDES permit.

The 7Q10 value is the lowest seven day average flow rate, in the river, over a ten year period. The 7Q10 value and/or dilution ratio used by the Department in your MEPDES permit can be found in your MEPDES permit "Fact Sheet."

- \* In Column (1), list the safety factor, if any, that was used when your existing TBLLs were calculated.
- \* In Column (1), note how your bio-solids were managed when your existing TBLLs were calculated. In Column (2), note how your POTW is presently disposing of its biosolids and how your POTW will be disposing of its biosolids in the future.

## ITEM II.

- \* List what your existing TBLLs are - as they appear in your current Sewer Use Ordinance (SUO).

## ITEM III.

- \* Identify how your existing TBLLs are allocated out to your industrial community. Some pollutants may be allocated differently than others, if so please explain.

## ITEM IV.

- \* Since your existing TBLLs were calculated, identify the following in detail:
  - (1) if your POTW has experienced any upsets, inhibition, interference or pass-through as a result of an industrial discharge.
  - (2) if your POTW is presently violating any of its current MEPDES permit limitations - include toxicity.

## ITEM V.

- \* Using current sampling data, list in Column (1) the average and maximum amount of pollutants (in pounds per day) received in the POTW's influent. Current sampling data is defined as data obtained over the last 24 month period.

All influent data collected and analyzed must be in accordance with federal regulation 40 CFR §136. Sampling data collected should be analyzed using the lowest possible detection method(s), e.g. graphite furnace.

- \* Based on your existing TBLLs, as presented in Item II., list in Column (2) each Maximum Allowable Industrial Headworks Loading (MAIHL) value corresponding to each of the local limits derived from an applicable environmental criteria or standard, e.g. water quality, sludge, MEPDES, inhibition, etc. For each pollutant, the MAIHL equals the calculated Maximum Allowable Headwork Loading (MAHL) minus the POTW's domestic loading source(s). For more information, please see p.,3-28 in EPA's Guidance Manual on the Development and Implementation of Local Limits Under the Pretreatment Program, 12/87.

## ITEM VI.

- \* Using current sampling data, list in Column (1) the average and maximum amount of pollutants (in micrograms per liter) present your POTW's effluent. Current sampling data is defined as data obtained during the last 24 month period.

All effluent data collected and analyzed must be in accordance with federal regulation 40 CFR §136. Sampling data collected should be analyzed using the lowest possible detection method(s), e.g. graphite furnace.

- \* List in Column (2A) what the Water Quality Standards (WQS) were (in micrograms per liter) when your TBLLs were calculated, please note what hardness value was used at that time. Hardness should be expressed in milligram per liter of Calcium Carbonate.

List in Column (2B) the current WQSs or "Chronic Gold Book" values for each pollutant multiplied by the dilution ratio used in your new/reissued MEPDES permit. For example, with a dilution ratio of 25:1 at a hardness of 20 mg/l - Calcium Carbonate (copper's chronic WQS equals 2.99 ug/l) the chronic MEPDES permit limit for copper would equal 75 ug/l.

## ITEM VII.

- \* In Column (1), list all pollutants (in micrograms per liter) limited in your new/reissued MEPDES permit. In Column (2), list all pollutants limited in your old/expired NPDES permit.

## ITEM VIII.

- \* Using current sampling data, list in Column (1) the average and maximum amount of pollutants in your POTW's biosolids. Current data is defined as data obtained during the last 24 month period. Results are to be expressed as total dry weight.

All biosolids data collected and analyzed must be in accordance with federal 40 CFR §136.

In Column (2A), list current State and/or Federal sludge standards that your facility's biosolids must comply with. Also note how your POTW currently manages the disposal of its biosolids. If your POTW is planning on managing its biosolids differently, list in Column (2B) what your new biosolids criteria will be and method of disposal.

In general, please be sure the units reported are correct and all pertinent information is included in your evaluation. If you have any questions, please contact your pretreatment representative at the Maine Department of Environmental Protection, Bureau of Land & Water Quality, Division of Engineering, Compliance & Technical Assistance, State House Station #17, Augusta, ME. 04333. The telephone number is (207) 287-3901.

**REASSESSMENT OF TECHNICALLY BASED LOCAL LIMITS**  
**(TBLLs)**

POTW Name & Address : \_\_\_\_\_

MEPDES Permit # \_\_\_\_\_

Date the Department approved current TBLLs : \_\_\_\_\_

Date the Department approved current Sewer Use Ordinance : \_\_\_\_\_

**ITEM I.**

In Column (1) list the conditions that existed when your current TBLLs were calculated. In Column (2), list current conditions or expected conditions at your POTW.

	<b>Column (1)</b>	<b>Column (2)</b>
	<b><u>EXISTING TBLLs</u></b>	<b><u>PRESENT CONDITIONS</u></b>
POTW Flow (MGD)	_____	_____
SIU Flow (MGD)	_____	_____
Dilution Ratio or 7Q10 from the MEPDES Permit	_____	_____
Safety Factor	_____	N/A
Biosolids Disposal Method(s)	_____	_____

**ITEM II.**

**EXISTING TBLLs**

<u>POLLUTANT</u>	<u>NUMERICAL LIMIT</u> (mg/l) or (lb/day)	<u>POLLUTANT</u>	<u>NUMERICAL LIMIT</u> (mg/l) or (lb/day)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**ITEM III.**

Note how your existing TBLLs, listed in Item II., are allocated to your Significant Industrial Users (SIUs), i.e. uniform concentration, contributory flow, mass proportioning, other. Please specify by circling.

**ITEM IV.**

Has your POTW experienced any upsets, inhibition, interference or pass-through from industrial sources since your existing TBLLs were calculated?

If yes, explain. \_\_\_\_\_  
\_\_\_\_\_

Has your POTW violated any of its MEPDES permit limits and/or toxicity test requirements?

If yes, explain. \_\_\_\_\_  
\_\_\_\_\_

# ITEM V.

Using current POTW influent sampling data fill in Column (1). In Column (2), list your Maximum Allowable Industrial Headwork Loading (MAIHL) values used to derive your TBLLs listed in Item II. In addition, please note the environmental criteria for which each MAIHL value was established, i.e. water quality, sludge, MEPDES etc.

<u>Pollutant</u>	<u>Column (1)</u> <u>Influent Data Analyses</u>		<u>Column (2)</u> <u>MAIHL Values</u>	<u>Criteria</u>
	<u>Maximum</u> (lb/day)	<u>Average</u> (lb/day)	(lb/day)	
Arsenic				
Cadmium				
Chromium				
Copper				
Cyanide				
Lead				
Mercury				
Nickel				
Silver				
Zinc				
Other (List)				



# ITEM VI.

Using current POTW effluent sampling data, fill in Column (1). In Column (2A) list what the Water Quality Standards (Gold Book Criteria) were at the time your existing TBLLs were developed. List in Column (2B) current Gold Book values multiplied by the dilution ratio used in your new/reissued MEPDES permit.

Pollutant	Column (1)		Columns	
	Effluent Data Analyses		(2A)	(2B)
	<u>Maximum</u>	<u>Average</u>	Water Quality Criteria (Gold Book) <u>From TBLLs</u>	<u>Today</u>
	(ug/l)	(ug/l)	(ug/l)	(ug/l)
Arsenic				
Cadmium*				
Chromium*				
Copper*				
Cyanide				
Lead*				
Mercury				
Nickel*				
Silver				
Zinc*				
Other (List)				

\*Hardness Dependent (mg/l - CaCO3)

### ITEM VII.

In Column (1), identify all pollutants limited in your new/reissued MEPDES permit. In Column (2), identify all pollutants that were limited in your old/expired NPDES permit.

Column (1) NEW PERMIT		Column (2) OLD PERMIT	
<u>Pollutants</u>	<u>Limitations</u> (ug/l)	<u>Pollutants</u>	<u>Limitations</u> (ug/l)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

### ITEM VIII.

Using current POTW biosolids data, fill in Column (1). In Column (2A), list the biosolids criteria that was used at the time your existing TBLLs were calculated. If your POTW is planing on managing its biosolids differently, list in Column (2B) what your new biosolids criteria would be and method of disposal.

<u>Pollutant</u>	Column (1)	Columns	
	Biosolids Data Analyses <u>Average</u> (mg/kg)	(2A) Biosolids Criteria From TBLLs (mg/kg)	(2B) New (mg/kg)
Arsenic	_____	_____	_____
Cadmium	_____	_____	_____
Chromium	_____	_____	_____
Copper	_____	_____	_____
Cyanide	_____	_____	_____
Lead	_____	_____	_____
Mercury	_____	_____	_____
Nickel	_____	_____	_____
Silver	_____	_____	_____
Zinc	_____	_____	_____
Molybdenum	_____	_____	_____
Selenium	_____	_____	_____
Other (List)	_____	_____	_____

**ATTACHMENT C**  
**MEPDES PERMIT REQUIREMENT**  
**FOR**  
**INDUSTRIAL PRETREATMENT ANNUAL REPORT**

1. A narrative description (paragraph) of program effectiveness including the following:

- present and proposed changes to the program
- Funding
- Staffing
- Ordinances
- Regulations
- Statutory authority
- Other

Our pretreatment program is very effective as indicated by the SIU compliance rate and the reduction in pollutant loading to the POTW.

The program is adequately funded and staffed to provide for annual training and completion of our regulatory responsibilities.

No changes have been made, or are proposed, to the City of Biddeford's Sewer Use Ordinance. The SUO provides adequate statutory authority to enforce in Local, State and Federal courts.

2. The date of the latest adoption of Local Limits and a statement as to whether the municipality is under a State or Federal compliance schedule that includes steps to be taken to revise Local Limits.

If yes, Compliance Schedule; if no, schedule not needed.

\_\_\_\_\_ 's Local Limits were last adopted (by local authority) on \_\_\_\_\_ and \_\_\_\_\_ is under no State or Federal compliance schedule that includes steps to be taken to revise Local Limits.

3. A description of actions taken to reduce the incidence of violations by SIU's;

Example:      Inspections – Notifications – Information/Education

4. A description of monitoring, sewer inspections and evaluations which were done during the past year to detect Interference and Pass Through, specifying parameters and frequencies;

Example:      Evaluations/investigations as a result of Monitoring, Sewer Inspections, and Evaluations, Influent – Effluent results, Spills, Dumps, Toxicity, or Unusual events.

5. A detailed description of all Interference and Pass Through that occurred during the past year; [statement of:

Event, Parameter, Violation, Cause, IU, POTW action, IU action, Result (see NOV #)].

\_\_\_\_\_ experienced no events of Interference or Pass- Through in this reporting period. If "Yes" then describe.

6. A thorough description of all investigations into Interference and Pass-Through during the past year;

A paragraph: Violation, Problem, Steps to resolve, Result.

(same as #5 or describe investigations.)

7. An updated list of all industrial users by category (40 CFR 403.8(f)(2)(i), indicating compliance or non- compliance with the following:

- baseline monitoring reporting requirements for newly promulgated industries
- compliance status reporting requirements for newly promulgated industries
- periodic (semi-annual) monitoring reporting requirements - categorical standards, and
- local limits

Example:

SIU	New Promulgated BMR/Compliance (Y/N) (Y/N)	Cat Limits Compliance (Y/N)	Local Limits Compliance (Y/N)	Semi-annual Reports Compliance (Y/N)
-----	--	-----------------------------------	-------------------------------------	--

8. A summary of compliance and enforcement activities during the preceding year including a:

- list of SIU's inspected by the POTW (dates, compliance status),
- list of SIU's sampled by the POTW (dates, compliance status),

Example:

SIU	Inspected	Sampled/self Sampled/POTW	Compliance Y/N
-----	-----------	---------------------------	----------------

- list of SIU's to which compliance schedules were issued,  
[SIU] - Violation - Compliance - Schedule

N/A or schedule plus Progress Reporting Dates]

- summary list of NOV's written to SIU's by name [statement],
- summary list of AO's written to SIU's by name [statement],
- list of criminal and/or civil suits filed by SIU,[usually a simple statement]
- list of penalty amounts obtained (by SIU) [a statement].

9. NOTE: Some items in numbers 9 & 10 may be combined in a chart, or charts. Be sure that any charts are logical, not cluttered, and don't contain an unreasonable amount of information. Any violations should be shown separately, in summary, for each item.

List of violating industries required to be published in a local newspaper (40 CFR 403.8(f)(2)(vii). [Statement]

10. A summary of all pollutant analytical results for:

- Influent [Annual average – show violations]
- Effluent [Annual average – show violations]
- Sludge [Annual average– show violations]
- Toxicity/Bioassay [Annual Average – show violations]
- comparison of influent sampling results versus threshold inhibitory concentrations for the POTW's wastewater treatment system.
- comparison of effluent sampling results versus water quality standards, considering the permitted dilution factor of the POTW.

NOTE: The sampling program shall be as described below OR any similar sampling program described in the MEPDES permit.

- At a minimum, annual sampling and analysis of/ the influent and effluent of the POTW's wastewater treatment plant shall be conducted on the following pollutants:

Example:

Influent	Inhibition Effluent	AWC
		Acute Chronic
- Total Cadmium		
- Total Chromium		
- Total Copper		
- Total Lead		
- Total Mercury (Methods 1669 & 1631)		
- Total Nickel		
- Total Silver		
- Total Zinc		
- Total Cyanide		
- Total Arsenic		

The sampling program shall consist of one 24-hour flow-proportioned composite that is representative of the flow received by the POTW. The composite shall consist of accurately flow-proportioned grab samples taken over a discharge day if the samples are collected manually, or shall consist of a minimum of 48 accurately flow-proportioned samples if an automatic sampler is used. Sampling and preservation shall be according to 40 CFR part 136.

## **ATTACHMENT D**

# MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION CSO ACTIVITY AND VOLUMES

MUNICIPALITY OR DISTRICT		PRECIP. DATA		FLOW DATA (GALLONS PER DAY) OR BLOCK ACTIVITY ("I")				EVENT	
REPORTING YEAR		TOTAL INCHES	MAX. HR. INCHES	LOCATION: NUMBER:	LOCATION: NUMBER:	LOCATION: NUMBER:	LOCATION: NUMBER:	OVERFLOW GALLONS	DURATION HRS
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.

MEPDES / NPDES PERMIT NO.

SIGNED BY:

DATE: