



STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION



PAUL R. LEPAGE  
GOVERNOR

PATRICIA W. AHO  
COMMISSIONER

September 16, 2014

Mr. Danny J. Daigle  
Moosehead Sanitary District  
P.O. Box 1141  
1010 Spruce St.  
Greenville, ME. 04441  
[Moosandis@yahoo.com](mailto:Moosandis@yahoo.com)

RE: Permit Compliance System Tracking Number #MEU502119  
Maine Waste Discharge License (WDL) Application #W002119-6C-D-R  
**Final License**

Dear Mr. Daigle:

Enclosed please find a copy of your **final** Maine WDL **renewal** which was approved by the Department of Environmental Protection. Please read this 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 287-7693.

Sincerely,

Gregg Wood  
Division of Water Quality Management  
Bureau of Land and Water Quality

Enc.

cc: Tanya Hovell, DEP/EMRO  
Lori Mitchell, DEP/CMRO  
Sandy Mojica, USEPA

AUGUSTA  
17 STATE HOUSE STATION  
AUGUSTA, MAINE 04333-0017  
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BANGOR, MAINE 04401  
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PORTLAND  
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PORTLAND, MAINE 04103  
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PRESQUE ISLE  
1235 CENTRAL DRIVE, SKYWAY PARK  
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

MOOSEHEAD SANITARY DISTRICT	)	PROTECTION AND IMPROVEMENT
GREENVILLE, PISCATAQUIS CTY, MAINE	)	OF WATERS
PUBLICLY OWNED TREATMENT WORKS	)	
SURFACE WASTEWATER DISPOSAL SYSTEM)	)	
#MEU502119	)	WASTE DISCHARGE LICENSE
#W002119-6C-D-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 applicable rules of the Department of Environmental Protection (Department), the Department has considered the application of the MOOSEHEAD SANITARY DISTRICT (MOOSEHEAD S.D.), with its supportive data, agency review comments, and other related materials on file, and FINDS THE FOLLOWING FACTS:

**APPLICATION SUMMARY**

Moosehead S.D. submitted a timely and complete application to the Department for renewal of Waste Discharge License (WDL) #W002119-6C-C-R / Permit Compliance System (PCS) tracking #MEU502119 which was issued on June 3, 2009 for a five year term. The 6/3/09 WDL authorized Moosehead S.D. to treat and discharge sanitary wastewater, up to 33,938 gallons per acre per week to Spray Irrigation Field Outfall #008A (April 1 – November 30), as well as up to 116,745 gallons per acre per week to the Enhanced Spray Irrigation/Snowmaking Field, Outfall #009A (April 1 – October 31) and effluent snow making of up to 61 million gallons per year (as Outfall #SM1A from November 1 – March 31), to ground water, Class GW-A, in Greenville, Maine.

**LICENSE SUMMARY**

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

1. Revising the method of reporting the weekly maximum application rate of wastewater discharged to the Spray Irrigation and Snow Spraying fields. The amount discharged will no longer be reported to the Department in gallons per acre. Rather a maximum weekly volume is being established to allow for flexibility in better management of the fields;
2. Revising the monitoring well monitoring frequency for copper and lead based on facility data;
3. Eliminating the Special Condition L. *Schedule of Compliance* regarding the repair and/or replacement of MW-8 based on facility monitoring results;
4. Revising the Monthly Operations Log Sheet;

**LICENSE SUMMARY (cont'd)**

5. Revising the monitoring frequency for Lagoon Freeboard;
6. Eliminating Special Condition O. *Disposal of Septage Waste in Wastewater Treatment Facility*;
7. Amending Outfall #008 total acreage for spray irrigation based on updated information from the applicant;
8. Revising the timing of the metals testing (see Footnote #7 on Page 11 of this license);
9. Incorporating Special Condition O. *Disposal of Transported Wastes In Wastewater Treatment Facility*; and
10. Revising the Lagoon Effluent metals testing frequency based facility testing results.

**CONCLUSIONS**

Based on the findings summarized in the attached Fact Sheet dated August 12, 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;
  - (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

**CONCLUSIONS (cont'd)**

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

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**ACTION**

THEREFORE, the Department APPROVES the above noted application of the MOOSEHEAD SANITARY DISTRICT to operate a surface wastewater disposal system with a total design capacity of 0.17 MGD, of which the following quantities of sanitary wastewater will be treated and disposed of via spray irrigation:

1,242,131 gallons per week for Outfall #008A (April 1 – November 30, 36.6 acres); and  
3,035,370 gallons per week for Outfall #009A (April 1- October 31, 26 acres).

A total annual maximum of 61 million gallons may be treated and disposed of via snowmaking at Outfall #009A from November 1- March 31.

Wastewater is authorized to be applied onto the surface of the land in Greenville, Maine, SUBJECT TO THE ATTACHED CONDITIONS, and all applicable standards and regulations including:

1. Standard Conditions of Approval for Publicly Owned Treatment Works (POTW) Waste Discharge Licenses dated July 16, 1996, copy attached.
2. The attached Special Conditions, including any effluent limitations and monitoring requirements.
3. This license expires five (5) years from the date of the signature below. If a renewal application is timely submitted and accepted as complete for processing prior to the expiration of this license, the authorization to discharge and the terms and conditions of this license 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)*]

DONE AND DATED AT AUGUSTA, MAINE, THIS 17<sup>th</sup> DAY OF September 2014.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

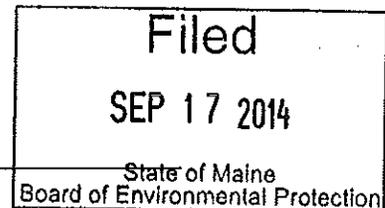
BY: Michael Kubus  
for PATRICIA W. AHO, Commissioner

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: January 17, 2014  
Date of application acceptance: January 21, 2014

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

This Order prepared by Cindy L. Dionne, BUREAU OF LAND & WATER QUALITY



**SPECIAL CONDITIONS**

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

- The licensee is authorized to discharge treated sanitary wastewater from a lagoon to land. The LAGOON EFFLUENT (OUTFALL #001A) must be limited and monitored as specified below<sup>(1)(2)</sup>.

Effluent Characteristic	Discharge Limitations		Minimum Monitoring Requirements	
	Daily Minimum	Daily Maximum	Measurement Frequency	Sample Type
Biochemical Oxygen Demand [003101]	---	100 mg/L [19]	1/Month <sup>(3)</sup> [01/30]	Grab [GR]
Total Suspended Solids [005301]	---	100 mg/L [19]	1/Month <sup>(3)</sup> [01/30]	Grab [GR]
Nitrate-Nitrogen [006201]	---	Report mg/L [19]	1/Month <sup>(3)</sup> [01/30]	Grab [GR]
pH (Standard Units) [004001]	---	Report S.U. [12]	1/Month <sup>(3)</sup> [01/30]	Grab [GR]
Lagoon Freeboard [82564]	3 ft. <sup>(4)</sup> [27]	---	2/Year <sup>(5)</sup> [02/7R]	Measure <sup>(6)</sup> [MS]
<u>Metals (Total):</u> Arsenic, Cadmium, Chromium, Copper, Lead, Nickel and Zinc [01002, 01027, 01034, 01042, 01051, 01067, 01092]	---	Report µg/L [28]	Annually <sup>(7)</sup> [01/7R]	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 10 through 11 of this license for applicable footnotes.

**SPECIAL CONDITIONS**

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

2. The application of treated sanitary wastewater to the land at **SPRAY IRRIGATION FIELD OUTFALL #008A** (36.6 acres) via a spray irrigation system must be limited to the time period of **April 1 to November 30** of each calendar year and as specified below:

Effluent Characteristic	Discharge Limitations			Minimum Monitoring Requirements	
	Monthly Total	Weekly Maximum	Daily Maximum	Measurement Frequency	Sample Type
Application Rate <i>[51125]</i>	---	1,242,131 gallons <sup>(8)</sup> <i>[8G]</i>	---	1/Week <i>[01/07]</i>	Calculate <i>[CA]</i>
Flow – Total Gallons <i>[51500]</i>	Report (gallons) <i>[80]</i>	---	---	1/Month <i>[01/30]</i>	Calculate <i>[CA]</i>

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 10 through 11 of this license for applicable footnotes.

**SPECIAL CONDITIONS**

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

3. The application of treated sanitary wastewater to the land at the **ENHANCED SPRAY IRRIGATION / SNOWMAKING FIELD** **OUTFALL #009A / #SM1A** (26 acres) via a spray irrigation/snowmaking system must be limited and monitored as specified below:

**SPRAY IRRIGATION APPLICATION IS LIMITED TO APRIL 1 through OCTOBER 31**  
**SNOWMAKING IS LIMITED TO NOVEMBER 1 through MARCH 31**

Effluent Characteristic	Discharge Limitations			Minimum Monitoring Requirements		
	Annual Total	Monthly Total	Weekly Maximum	Daily Maximum	Measurement Frequency	Sample Type
<b>Spray Irrigation (#009A)</b> <i>Application Rate</i> <i>(April 1 – October 31)</i> <i>[51125]</i>	---	---	3,035,370 gallons <sup>(8)</sup> [8C]	---	1/Week [01/07]	Calculate [CA]
<b>Spray Irrigation (#009A)</b> <i>Flow</i> <i>(April 1 – October 31)</i> <i>[51125]</i>	---	Report (Gallons) [80]	---	---	1/Month [01/30]	Calculate [CA]
<b>Snow Making (#SM1A)</b> <i>Application Rate</i> <i>(November 1 – March 31)</i> <i>[51128]</i>	61 Million Gallons <sup>(9)</sup> [8E]	---	---	---	1/Month [01/30]	Calculate [CA]
<b>Snow Making (#SM1A)</b> <i>Flow</i> <i>(November 1 – March 31)</i> <i>[51128]</i>	---	Report (Gallons) [8D]	---	---	1/Month [01/30]	Calculate [CA]

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 10 through 11 of this license for applicable footnotes.**

**SPECIAL CONDITIONS**

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

4. **GROUNDWATER MONITORING WELLS** MW-1, MW-2, MW-3, MW-5, MW-6, MW-8, MW-10, MW-11, MW-12 (Compliance Tracking ID's: MW002A, MW003A, MW004A, MW005A, MW006A, MW007A, MW010A, MW011A, and MW012A, respectively) must be limited and monitored as specified below<sup>(1)</sup>:

Monitoring Characteristic	Limitations		Minimum Monitoring Requirements	
	Daily Maximum	Measurement Frequency	Sample Type	
Depth to Water Level Below Land Surface [72019]	Report (feet) <sup>(10)</sup> [27]	2/Year <sup>(5)</sup> [02YR]	Measure [MS]	
Nitrate-Nitrogen [00630]	10 mg/L [19]	2/Year <sup>(5)</sup> [02YR]	Grab [GR]	
Specific Conductance <sup>(11,12)</sup> [00095]	Report (umhos/cm) [11]	2/Year <sup>(5)</sup> [02YR]	Grab [GR]	
Temperature <sup>(11)</sup> [00011]	Report (°C) [04]	2/Year <sup>(5)</sup> [02YR]	Grab [GR]	
pH (Standard Units) <sup>(11)</sup> [00400]	Report (S.U.) [12]	2/Year <sup>(5)</sup> [02YR]	Grab [GR]	
Total Suspended Solids [00530]	Report (mg/L) [19]	2/Year <sup>(5)</sup> [02YR]	Grab [GR]	
<u>Metals (Total):</u> Arsenic, Cadmium, Chromium, Nickel and Zinc [01002, 01027, 01034, 01067, 01092]	Report µg/L [28]	1/5 Years <sup>(7)</sup> [015Y]	Grab [GR]	
<u>Metals (Total):</u> Copper and Lead [01042, 01051]	Report µg/L [28]	Annually <sup>(7)</sup> [01YR]	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 10 through 11 of this license for applicable footnotes.

**SPECIAL CONDITIONS**

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

5. Sampling of the LAGOON UNDERDRAIN SYSTEM (OUTFALL #UD1A) must be conducted as specified below:

Monitoring Characteristic	Limitations		Minimum Monitoring Requirements	
	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type
Flow Rate [00058]	---	Report GPM [78]	3/Year <sup>(13)</sup> [03/YR]	Estimate [ES]
Specific Conductance [00095]	---	Report (umhos/cm) [11]	3/Year <sup>(13)</sup> [03/YR]	Grab [GR]
Temperature [00011]	---	Report (°C) [04]	3/Year <sup>(13)</sup> [03/YR]	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 10 through 11 of this license for applicable footnotes.

**SPECIAL CONDITIONS**

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

**FOOTNOTES**

1. **Sampling** – Any change in sampling location must be approved by the Department in writing. The licensee 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 (last amended February 13, 2000). If the licensee monitors any pollutant more frequently than required by the license using test procedures approved under 40 CFR part 136 or as specified in this license, 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 must be reported to the Department including results which are detected below the respective reporting limits (RLs) specified by the Department or as specified by other approved test methods. If a non-detect analytical test result is below the respective RL, the concentration result must be reported as <Y where Y is the RL achieved by the laboratory for each respective parameter. Reporting a value of <Y that is greater than an established RL or reporting an estimated value ("J" flagged) is not acceptable and will be rejected by the Department. Reporting analytical data and its use in calculations must follow established Department guidelines specified in this license or in available Department guidance documents.

2. **Storage Lagoon Effluent Sampling Location** - Storage lagoon effluent sampling must be conducted at a point in the operations building prior to being pumped to the spray field(s) or snowmaking field and must be representative of what is actually being applied to the fields.
3. **Storage Lagoon Effluent Sampling Frequency** - Storage lagoon effluent sampling must be conducted at a minimum frequency of once per month during the months of **April, May, August, and October** of each year, unless otherwise specified by the Department. The District is not required to test for the monthly parameters during a month in which no wastewater was disposed of via the disposal system.
4. **Lagoon Freeboard** – Lagoon freeboard is limited as specified in Special Condition I. *Lagoon Maintenance*, #3.
5. **Measurement Frequency** – The licensee must sample the specified parameter during the months of **May and October** of each year, unless otherwise specified by the Department.
6. **Lagoon Freeboard Measurement** – Lagoon freeboard must be reported as the mathematical difference between the water level in the lagoon and the lowest elevation point in the lagoon berm. It must be measured to the nearest one tenth (1/10<sup>th</sup>) of a foot, with the minimum monthly value

**SPECIAL CONDITIONS**

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

**FOOTNOTES**

reported on the DMR. If site conditions prevent safe or accurate measurements, the licensee must estimate this value and indicate this to the Department.

7. **Screening Level Metals Testing** – The licensee must conduct one round of testing for the specified metals during the fourth calendar quarter of the fourth year of the license, unless otherwise specified by the Department.
8. **Weekly Maximum for Spray Irrigation** – “Weekly” is defined as Sunday through Saturday. The licensee must measure the flow of wastewater to the irrigation area by the use of a flow measuring device that is checked for calibration at least once per calendar year. For DMR reporting purposes, the licensee must report the highest weekly application rate for the month in the applicable box on the form. Compliance with weekly reporting requirements must be reported for the month in which the calendar week ends. See Footnote 9 for conditions specific to spray irrigation on the snowmaking field.
9. **Annual Limit** – The enhanced spray irrigation/snowmaking field (as #SM1A) is subject to an annual snowmaking application limit of 61 million gallons of wastewater between November 1 and March 31 each year. The enhanced spray irrigation/snowmaking (as #009A) is also subject to spray irrigation application rates between April 1 and October 31 each year as noted in Special Condition A.3 (table), Footnote 8, and other applicable conditions contained in this license. In addition to the amount of wastewater applied per month via spray irrigation and snowmaking respectively, the licensee must report the season cumulative amount of effluent snowmaking applied to date.
10. **Depth to Water Level** - Depth to water level must be measured to the nearest one-tenth (1/10<sup>th</sup>) of a foot as referenced from the surface of the ground at the base of the monitoring well.
11. **Field Measurements** - Temperature and pH are considered to be “field” parameters and are to be measured in the field via instrumentation. Specific conductance (calibrated to 25.0° C) may be measured either in the field or the laboratory pursuant to sampling guidance above. The licensee is required to test for these parameters whether wastewater was disposed of via the spray-irrigation system or not.
12. **Specific Conductance** - Temperature must be calibrated to 25.0°C. Specific Conductance values indicating a statistically significant trend upwards or sudden spikes from previous levels may necessitate the need for additional groundwater testing requirements to determine causes and effects as related to spray irrigation/drip dispersal activities.
13. **Lagoon Underdrain Monitoring** - Lagoon underdrain sampling must be conducted in the months of July, August, and September of each year, unless otherwise specified by the Department.

## SPECIAL CONDITIONS

### B. NARRATIVE EFFLUENT LIMITATIONS

1. The effluent must not contain materials in concentrations or combinations which would impair the usages designated for the classification of the ground water.
2. 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. TREATMENT PLANT OPERATOR

The treatment facility must be operated by a person holding a minimum of a **Grade II Spray Irrigation Treatment System (SITS) certificate**, a **Grade II Biological Treatment System Operator certificate**, or a **Maine Professional Engineer (PE) certificate** 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 licensee may engage the services of the contract operator.

### D. AUTHORIZED DISCHARGES

The licensee is authorized to discharge only in accordance with: 1) the licensee's General Application for Waste Discharge License, accepted for processing on January 21, 2014; 2) the terms and conditions of this license; and 3) only to the spray irrigation disposal fields identified in the Waste Discharge License application. Discharges of wastewater from any other point source(s) are not authorized under this license, and must be reported in accordance with Standard Condition 11, *Bypasses of Waste Treatment Facilities*, of this license.

### E. NOTIFICATION REQUIREMENT

In accordance with Standard Condition #6, the licensee 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 license issuance. For the purposes of this section, notice regarding substantial change must include information on:
  - (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.

## SPECIAL CONDITIONS

### F. GENERAL OPERATIONAL CONSTRAINTS

1. All wastewater must receive biological treatment through a properly designed, operated and maintained lagoon system prior to disposal via spray irrigation or snowmaking.
2. The spray irrigation and snowmaking facilities must be effectively maintained and operated at all times so that there is no discharge to surface waters, nor any contamination of groundwater which will render it unsatisfactory for usage as a public drinking water supply.
3. The surface wastewater disposal system must not cause the lowering of the quality of the ground water, as measured in the groundwater monitoring wells specified by this license, below the State Primary and Secondary Drinking Water Standards specified in the Maine State Drinking Water Regulations pursuant to 22 M.R.S.A. § 2611.

In the event the groundwater monitoring results indicate adverse effects, the licensee may be required to take immediate remedial action(s), which may include but not be limited to, adjustment of the irrigation schedule or application rates, a reduction of the pollutant loading, or ceasing operation of the system until the Department determines that such actions are no longer required.

4. The Department must be notified as soon as the licensee becomes aware of any threat to public health, unlicensed discharge of wastewater, sanitary system overflows (SSO's) or any malfunction that threatens the proper operation of the system. Notification must be made in accordance with the attached Standard Condition #4 of this license. A SSO is the release of raw sewage from a sanitary collection system prior to reaching the treatment plant or facility. Spills out of manholes, into basements, onto municipal or private property, etc., and into the waters of the State are all considered to be SSO's.
5. The licensee must maintain a file on the location of all system components and relevant features. Each component must be mapped and field located sufficiently to allow adequate inspections and monitoring by both the licensee and the Department.
6. All system components including collection pipes, tanks, manholes, pumps, pumping stations, spray / snow disposal fields, and monitoring wells must be identified and referenced by a unique identifier (alphabetic, numeric, or alpha-numeric) in all logs and reports.
7. The licensee must at all times maintain in good working order and operate at maximum efficiency all wastewater collection, treatment and/or control facilities. **Within one hour after start-up of the spray-irrigation and snowmaking systems**, the licensee must inspect the spray-irrigation and snowmaking site or have other means to check the system for leakage in the piping system and determine if individual sprayheads and pump(s) are functioning as designed, and verify that application rates are appropriate for the existing site conditions. The procedures used to determine the system is functioning as designed must be described in the facility's O&M manual. Should significant malfunctions or leaks be detected, the licensee must shut down the malfunctioning/leaking sections of the spray and snowmaking system and make necessary repairs before resuming operation. The licensee must cease irrigation if runoff is observed outside the

## SPECIAL CONDITIONS

### F. GENERAL OPERATIONAL CONSTRAINTS (cont'd)

designated boundaries of the spray and snowmaking field(s). The licensee must field calibrate equipment to ensure proper and uniform spray applications when operating. Calibration involves collecting and measuring application rate at different locations within the application area or other site specific procedures approved by the Department's compliance inspector. A description of the calibration procedures and a log sheet that have been used for recording calibration results must be included as part of the Operations & Maintenance manual.

8. **The licensee must maintain a daily log** of all spray irrigation and snowmaking operations which records the date, weather, rainfall, areas irrigated, volume sprayed (gallons), application rates (daily and weekly), and other relevant observations/comments from daily inspections. The log must be in accordance with the general format of the "*Monthly Operations Log*" form provided as **Attachment A** of this license, or other format approved by the Department. Weekly application rates must be reported in accordance with the general format of the "*Spray Application Report by Week*" form provided as **Attachment B** of this license or other format as approved by the Department. The *Monthly Operations Log and Spray Application Report by Week* for each month must be submitted to the Department as an attachment to the monthly DMRs in a format approved by the Department. Copies will also be maintained on site for Department review and for license operation maintenance purposes.

### G. SPRAY IRRIGATION AND SNOWMAKING OPERATIONAL CONSTRAINTS, LOGS, AND REPORTS

1. Suitable vegetative cover must be maintained. Wastewater (as liquid spray irrigation) must not be applied to areas without sufficient vegetation or ground cover as to prevent erosion or surface water runoff outside the designated boundaries of the spray fields. The licensee must have an updated facilities management plan that includes provisions for maintaining the spray irrigation and snowmaking areas in optimum condition for the uptake of nutrients and moisture holding capacity.
2. At least 10 inches of separation from the ground surface to the ground water table must be present prior to spray irrigating.
3. No wastewater may be spray irrigated as liquid following a rainfall accumulation exceeding 1.0 inches within the previous 24-hour period. A rain gauge must be located on site to monitor daily precipitation. The licensee must also manage application rates by taking into consideration the forecast for rain events in the 48-hour period in the future.
4. No wastewater must be spray irrigated as liquid where there is snow present on the surface of the ground or there is any evidence of frost or frozen ground within the upper 10 inches of the soil profile.
5. No traffic or equipment must be allowed in the spray-irrigation and snowmaking field(s) except where installation occurs or where normal operations and maintenance are performed (this must include forest management operations).

## **SPECIAL CONDITIONS**

### **G. SPRAY IRRIGATION AND SNOWMAKING OPERATIONAL CONSTRAINTS, LOGS, AND REPORTS (cont'd)**

6. Prior to the commencement of spray irrigation for the season, the licensee must notify the Department's compliance inspector in writing that they have verified that soil conditions are appropriate (absence of frozen ground, soil conditions, etc.) for spray irrigation.
7. The licensee must maintain the equivalent of a minimum of one ground water level inspection well per spray field to verify that 10 inches of separation from the ground surface to the observed ground water level is present prior to spraying. Depth to ground water must be reported in accordance with the general format of the "*Depth to Groundwater*" form provided as Attachment C of this license or other format as approved by the Department.
8. Snow from effluent must only be made when conditions are conducive to snowmaking or ice making. When conditions are such that the effluent from the snow guns results in a liquid being sprayed on the site, the operator will cease snowmaking operations until proper conditions exist. Snowmaking will be interrupted to prevent runoff occurring off the site.

### **H. VEGETATION MANAGEMENT**

1. The licensee must remove/trim grasses and other vegetation such as shrubs and trees if necessary so as not to impair the operation of the spray-irrigation or snowmaking systems, ensure uniform distribution of wastewater over the desired application area and to optimize nutrient uptake and removal.
2. The vegetative buffer zones along the perimeter of the site must be maintained to maximize vegetation and forest canopy density in order to minimize off-site drift of spray or snow.

### **I. LAGOON MAINTENANCE**

1. The banks of the lagoon must be inspected periodically during the operating season (at least two times per year) and properly maintained at all times. There must be no overflow through or over the banks. Any signs of leaks, destructive animal activity or soil erosion of the banks must be repaired immediately.
2. The banks of the lagoon must be maintained to keep them free of woody vegetation and other vegetation that may be detrimental to the integrity of the bank and/or lagoon liner. The waters within the lagoon must be kept free of all vegetation (i.e. grasses, reeds, cattails, etc.) that hinders the operation of the lagoon.
3. The licensee must maintain lagoon freeboard at design levels or at least three (3) feet, whichever is greater, for all lagoons at the facility.
4. The treatment and storage lagoons must be dredged as necessary to maintain the proper operating depths in both lagoons that will provide best practicable treatment of the wastewater. All material

## **SPECIAL CONDITIONS**

### **I. LAGOON MAINTENANCE (cont'd)**

removed from the lagoon(s) must be properly disposed of in accordance with all applicable State and Federal rules and regulations.

### **J. INSPECTIONS AND MAINTENANCE**

The licensee must periodically inspect all system components to ensure the facility is being operated and maintained in accordance with the design of the system. Maintenance logs must be maintained on each major system component including pumps, pump stations, septic tanks, lagoons, spray apparatus, and pipes. At a minimum, the logs must include the unique identifier [see Special Condition F(6)], the date of maintenance performed, name(s) of person(s) performing the maintenance, and other relevant system observations.

### **K. GROUNDWATER MONITORING WELLS AND WATER QUALITY MONITORING PLAN DETAILS**

1. The licensee must maintain an approved groundwater quality monitoring plan prepared by a professional qualified in water chemistry. Annual reports must be prepared by the licensee and must include historical and current (most recent) monitoring data for each monitoring point, represented in tabular and graphical form.
2. All monitoring wells must be equipped with a cap and lock to limit access and must be maintained in a secured state at all times. The integrity of the monitoring wells must also be verified annually in order to ensure representative samples of groundwater quality.
3. The Department reserves the right to require increasing the depth and or relocating any of the groundwater monitoring wells if the well is perennially dry or is determined not to be representative of groundwater conditions.

### **L. OPERATIONS AND MAINTENANCE (O & M) PLAN AND SITE PLAN(S)**

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

**By December 31 of each year, or within 90 days of any process changes or minor equipment upgrades**, the licensee 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 the Department personnel upon request.

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

## SPECIAL CONDITIONS

### M. PUBLIC ACCESS TO LAND APPLICATION SITES AND SIGNAGE

Public access to the land application sites must be limited during the season of active site use. The licensee must install signs measuring at least 8 ½" x 11", in areas of concern around the perimeter of the lagoon and spray irrigation and snowmaking sites that inform the general public that the area is being used to dispose of sanitary wastewaters. The signs must be constructed of materials that are weather resistant. The licensee must annually inspect and make any necessary repairs to the signage to comply with this condition.

### N. MONITORING AND REPORTING

Monitoring results must be summarized for each month and reported on separate 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 the Department's 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 must be submitted to the following address:

Department of Environmental Protection  
Eastern Maine Regional Office  
Bureau of Land and Water Quality  
Division of Water Quality Management  
106 Hogan Road  
Bangor, Maine 04401

Alternatively, if the licensee 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 15<sup>th</sup> 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 (13<sup>th</sup>) 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 (15<sup>th</sup>) 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 15<sup>th</sup> day of the month following the completed reporting period.

### O. DISPOSAL OF TRANSPORTED WASTES IN WASTEWATER TREATMENT FACILITY

Pursuant to this license and *Standards for the Addition of Transported Wastes to Wastewater Treatment Facilities*, 06-096 CMR 555 (effective March 9, 2009), during the effective period of this license, the licensee is authorized to receive into the treatment process or solids handling stream up to **an annual maximum of 32,000 gallons** 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.

**SPECIAL CONDITIONS**

**O. DISPOSAL OF TRANSPORTED WASTES IN WASTEWATER TREATMENT FACILITY**

2. Of the 32,000 gallons authorized by this license, the licensee may receive and introduce into the treatment process or solids handling stream up to a daily maximum of 1,700 gallons per day (GPD) of septage wastes.
3. 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.
4. 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.
5. The licensee 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.
6. 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.
7. 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.
8. 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.

**SPECIAL CONDITIONS**

**O. DISPOSAL OF TRANSPORTED WASTES IN WASTEWATER TREATMENT FACILITY**

9. 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.
10. 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.
11. The authorization in the Special Condition is subject to annual review and, with notice to the licensee 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 license.

**P. REOPENING OF LICENSE FOR MODIFICATION**

In accordance with 38 M.R.S.A. § 414-A(5) and upon evaluation of any required test results, results of inspections and/or reporting required by the Special Conditions of this licensing action, additional site-specific data or any other pertinent information or test results obtained during the term of this license, the Department may, at any time and with notice to the licensee, modify this license to require additional monitoring, inspections and/or reporting based on the new information.

**Q. SEVERABILITY**

In the event that any provision(s), or part thereof, of this license is declared to be unlawful by a reviewing court, the remainder of the license 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.

STANDARD CONDITIONS OF PUBLICLY OWNED TREATMENT WORKS (POTW) WASTE  
DISCHARGE LICENSES

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STANDARD CONDITIONS OF PUBLICLY OWNED TREATMENT WORKS (POTW) WASTE  
DISCHARGE LICENSES

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1. GENERAL CONDITIONS

- A. All discharges shall be consistent with the terms and conditions of this license; 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 license; it shall be a violation of the terms and conditions of this license 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 license.
- B. the licensee shall permit the Department of Environmental Protection Staff upon the presentation of proper credentials:
  - (1) To enter upon licensee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this license;
  - (2) To have access to and copy any records required to be kept under the terms and conditions of this license;
  - (3) To inspect any monitoring equipment or monitoring method required in this license; or,
  - (4) To measure and/or sample at any intake, process or cooling effluent stream, waste water treatment facility and/or outfall.
- C. This license shall be subject to such monitoring requirements as may be reasonably required by the Department of Environmental Protection including the installation, use and maintenance of monitoring equipment or methods (including, where appropriate, biological monitoring methods). The licensee shall provide the Department of Environmental Protection with periodic reports on the proper Department of Environmental Protection reporting form of monitoring results obtained pursuant to the monitoring requirements contained herein.
- D. This license does not preclude obtaining other required Federal, State, or Municipal permits and does not authorize or approve the construction of any on-shore physical structures or facilities or the undertaking of any work in any navigable waters.
- E. The issuance of this license does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to public or private property or any invasion of personal rights nor any infringement of Federal, State or local laws or regulations.
- F. Nothing in this license shall be construed to relieve the licensee from civil or criminal penalties for non-compliance, whether or not such non-compliance is due to factors beyond the licensee's control, such as an accident, equipment breakdown, labor disputes or natural disaster.

STANDARD CONDITIONS OF PUBLICLY OWNED TREATMENT WORKS (POTW) WASTE  
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2. PRETREATMENT REQUIREMENTS

- A. The licensee shall comply with all Federal Statutes, regulations, and conditions of permits applicable to its discharge of waste waters, including, but not limited to, those requiring the installation of pretreatment facilities or establishment of pretreatment programs.
- B. Municipal or quasi-municipal licenses shall maintain user contracts, permits or ordinances to regulate industrial entities which discharge process waste water to the licensee's treatment facilities in quantities greater than 10% of the facility's design capacity. Such contracts, permits or ordinances shall be submitted to the Department for approval within three months of the effective date of this license or prior to acceptance of new or increased volumes of industrial waste water. All such contracts, permits or ordinances shall be an enforceable part of this license whether or not approved by the Department.

3. WASTE WATER TREATMENT AND SAMPLING FACILITIES

- A. The licensee shall collect all waste flows designated by the Department of Environmental Protection as requiring treatment and discharge them into an approved waste treatment facility in such a manner as to maximize removal of pollutants unless authorization to the contrary is obtained from the Department.
- B. The licensee 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 waste waters.
- D. Final plans and specifications must be submitted to the Department of Environmental Protection and approved prior to the construction or modification of any treatment facilities.
- E. The licensee shall install flow measuring facilities of a design approved by the Department of Environmental Protection.
- F. The licensee must provide an outfall of a design approved by the Department of Environmental Protection which is placed in the receiving waters in such a manner that maximize mixing and dispersion of the waste waters will be achieved as rapidly as possible.

4. NON-COMPLIANCE NOTIFICATION

- A. In the event the licensee bypasses collection or treatment facilities or is unable to comply with any of the conditions of this license due, among other reasons, to:
  - (1) breakdown of waste treatment equipment;
  - (2) accidents caused by error or negligence;
  - (3) high strength, high volume or incompatible wastes; or
  - (4) other causes such as acts of nature,

## STANDARD CONDITIONS OF PUBLICLY OWNED TREATMENT WORKS (POTW) WASTE

### DISCHARGE LICENSES

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the licensee shall notify the Department of Environmental Protection verbally as soon as its agents have knowledge of the incident.

B. Within five (5) days of becoming aware of such condition the licensee shall provide the Department of Environmental Protection in writing, the following information:

- (1) A description of the discharge and cause of non-compliance; and
- (2) The period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the non-complying discharge.

C. If the licensee knows in advance of changes in licensed facilities or activities which may result in non-compliance or of the need to bypass, it shall submit prior notice at least ten days in advance of such occurrence.

D. In the event of a bypass is due to inflow or infiltration of uncontaminated water into a sewer system, reporting requirements may be adjusted by the Department to a monthly basis.

#### 5. MONITORING AND REPORTING

A. 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 licensee 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.

B. Test Methods

The sampling, preservation, handling, and analytical methods used must conform with Standard Methods for the Examination of Water and Waste Waters, American Public Health Association, 1015 18<sup>th</sup> Street, N.W., Washington, D.C. 20036, latest approved edition, or methods referenced in 40 CFR Part 136, Guidelines Establishing Test Procedures for Analysis of Pollutants. However, different but equivalent methods are allowable if they receive the prior written approval from the Department of Environmental Protection.

- (1) All reports shall be submitted to the Department not later than the fifteenth of the month following the end of the monitoring period.
- (2) Any reports or records of monitoring activities and results shall include for all samples: (a) the date, exact place, and time of sampling; (b) the dates and times of analyses; (c) the analytical techniques/methods used, including sampling, handling, and preservation techniques; and (d) the results of all required analyses.

STANDARD CONDITIONS OF PUBLICLY OWNED TREATMENT WORKS (POTW) WASTE

DISCHARGE LICENSES

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C. All reports shall be signed by:

- (1) In the case of corporations, a principal executive officer of at least the level of vice president, or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the reporting form originates.
- (2) In the case of a partnership, a general partner or duly authorized representative.
- (3) In the case of a sole proprietorship, the proprietor or duly authorized representative.
- (4) In the case of a municipal, State, or other public facility, either a principal executive officer, ranking elected official, or duly authorized employee.

6. CHANGE OF DISCHARGE

The licensee shall notify the Department in writing as soon as it has knowledge of any significant changes or proposed changes in its discharge, including but not limited to:

- A. the temporary or permanent termination of the discharge;
- B. changes in the waste collection, treatment or disposal facilities;
- C. changes in the volume or character of waste water flows;
- D. permanent changes in industrial production rates;
- E. the proposed addition, directly or indirectly, of toxic pollutants not authorized by the license or reflected in the application filed with the Department;
- F. the addition to a municipal or quasi-municipal treatment system of industrial wastes which are categorically regulated by the U.S. EPA pursuant to the agency's pretreatment program.

7. TRANSFER OF OWNERSHIP

In the event that any person possessing a license issued by the Department shall transfer the ownership of the property, facility or structure which is the source of a licensed discharge, without transfer of the license being approved by the Department, the license granted by the Department shall continue to authorize a discharge within the limits and subject to the terms and conditions stated in the license, provided that the parties to the transfer shall be jointly and severally liable for any violation thereof until such times as the Department approves transfer or issuance of a waste discharge license to the new owner. The Department may in its discretion require the new owner to apply for a new license, or may approve transfer of the existing license upon a satisfactory showing that the new owner can abide by its terms and conditions.

8. RECORDS RETENTION

All records and information resulting from the monitoring activities required by this license including all records of analyses performed and calibrations and maintenance of instrumentation shall be retained for a minimum of three (3) years.

STANDARD CONDITIONS OF PUBLICLY OWNED TREATMENT WORKS (POTW) WASTE

DISCHARGE LICENSES

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9. 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

- (1) 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
- (2) known to be hazardous or toxic by the licensee.

B. The discharge of such materials will not violate applicable water quality standards.

10. 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 of Environmental Protection.

11. BYPASS OF WASTE TREATMENT FACILITIES

The diversion or bypass of any discharge from facilities utilized by the licensee to maintain compliance with the terms and conditions of this license is prohibited, except (1) where unavoidable to prevent loss of life or severe property damage, or (2) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the terms and conditions of this license. The licensee shall notify the Department of Environmental Protection of each such diversion or bypass in accordance with the procedure specified in paragraph 6 above for reporting non-compliance. It is the duty of the licensee to take all feasible steps to prevent, minimize and mitigate bypasses. If infiltration or inflow of stormwater or ground water contribute to bypasses, the licensee shall submit to the Department for approval, a wet weather flow management plan. The plan shall describe measures implemented to maximize the volume of flow through the treatment facilities and the efficiency of the treatment process. Submission of this plan shall not remove any responsibilities of the licensee pursuant to paragraph 6.

12. EMERGENCY ACTION-ELECTRIC POWER FAILURE

Within thirty days after the effective date of this license, the licensee shall notify the Department of Environmental Protection of facilities and plans to be used in the event the primary source of power to its waste water pumping and treatment facilities fails. During power failure, all waste waters 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 waste water facilities.

STANDARD CONDITIONS OF PUBLICLY OWNED TREATMENT WORKS (POTW) WASTE  
DISCHARGE LICENSES

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DEFINITIONS

FOR THE PURPOSE OF THIS LICENSE THE FOLLOWING SHALL APPLY

- A. Grab Sample: An individual sample collected in a period of less than 15 minutes.
- B. Composite Sample: A sample consisting of a minimum of eight grab samples collected at equal intervals during a 24-hour period (or a lesser period if specified in the section on Monitoring and Sampling) and combined proportional to flow or a sample continuously collected proportionally to flow over the same time period.
- C. Daily Maximum For Concentration: The maximum value not to be exceeded at any time.
- D. Daily Maximum For Quantity: The maximum value not to be exceeded during any day.
- E. Weekly or Monthly Average: The sum of all daily samples measurement or test results made during a week or month divided by the number of tests or measurement made during the respective time period. Exception: bacteriological tests shall be calculated as a geometric mean.
- F. Bypass: The diversion of waste water, either by act or by design, from any portion of a treatment facility or conveyance system.

# ATTACHMENT A

**Monthly Operations Log**

**MOOSEHEAD SANITARY DISTRICT**

#W002119-6C-D-R / #MEU502119

(Month/Year) ( \_\_\_\_\_ / \_\_\_\_\_ )

Weekly Application Rate: \_\_\_\_\_ gallons/week

	A	B	C	D	E	G	H
Day	Date	Precipitation Previous 24 hours (inches)	Air Temp (°F)	Weather	Wind- Direction/ Speed (mph)	Total Gallons Pumped	Name of Field(s) Used
	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						
	26						
	27						
	28						
	29						
	30						
	31						
<b>Monthly Total =</b>							

# ATTACHMENT B

**MOOSHEAD SANITARY DISTRICT**

**Spray Application Report by Week**

(Month/Year) ( / )

#W002119-6C-D-R / #MEU502119

Weekly Application Rate \_\_\_\_\_ gallons/week

Field Name/#	Effective Spray Area (Acres, when all used)	Weekly Limit (Gallons)	Actual Spray Application Rates (Gallons per acre)					Number of Exceptions to Weekly Limit	Monthly Average
			Week 1	Week 2	Week 3	Week 4	Week 5		
Spray Field #008A	36.6	1,242,131							
Spray / Snow Field #009A	26	116,745							
Note: 1 acre-inch is equivalent to 27,150 gallons of liquid 27,150 gallons per acre is equivalent to 1.0 inch			Total Number of Exceptions						

A spray-field's weekly application rate is the total gallons sprayed (Sunday through Saturday) divided by the size of the spray-field in acres or the size in acres of that portion of the spray field utilized.

Signature of Responsible Official: \_\_\_\_\_, Date \_\_\_\_\_

# ATTACHMENT C

Depth to Groundwater (Tenths of Feet)

(Month/Year) ( \_\_\_\_\_ / \_\_\_\_\_ )

MOOSEHEAD SANITARY DISTRICT

#W002119-6C-D-R / #MEU502119

Field Name/#	Monitoring Location	Depth to Groundwater (Measured From Ground Surface in Tenths of Feet)					Number of Exceptions	Monthly Average Depth
		Week 1	Week 2	Week 3	Week 4	Week 5		
Spray Field #008A								
Spray / Snow Field #009A								
Total Number of Exceptions								

Note: Special Condition G of the License requires that a depth of 10 inches from the ground surface to the groundwater table must be present prior to spraying.

Signature of Responsible Official: \_\_\_\_\_, Date \_\_\_\_\_

**MAINE WASTE DISCHARGE LICENSE**

**FACT SHEET**

DATE: **AUGUST 12, 2014**

PERMIT COMPLIANCE TRACKING NUMBER: **#MEU502119**

WASTE DISCHARGE LICENSE: **#W002119-6C-D-R**

NAME AND ADDRESS OF APPLICANT:

**MOOSEHEAD SANITARY DISTRICT  
P.O. BOX 1141  
GREENVILLE, MAINE 04441**

COUNTY: **PISCATAQUIS**

NAME AND ADDRESS WHERE DISCHARGE(S) OCCUR(S):

**MOOSEHEAD SANITARY DISTRICT  
101 SPRUCE STREET  
GREENVILLE, MAINE 04441**

RECEIVING WATER CLASSIFICATION: **GROUND WATER/CLASS GW-A**

COGNIZANT OFFICIAL CONTACT INFORMATION:

**MR. DANNY J. DAIGLE  
PLANT MANAGER  
(207) 695-3849  
EMAIL: [moosandis@yahoo.com](mailto:moosandis@yahoo.com)**

**1. APPLICATION SUMMARY**

Application: Moosehead S.D. submitted a timely and complete application to the Department for renewal of Waste Discharge License (WDL) #W002119-6C-C-R / Permit Compliance System (PCS) tracking #MEU502119 which was issued on June 3, 2009 for a five year term. The 6/3/09 WDL authorized Moosehead S.D. to treat and discharge sanitary wastewater, up to 33,938 gallons per acre per week to Spray Irrigation Field Outfall #008A (April 1 – November 30), as well as up to 116,745 gallons per acre per week to the Enhanced Spray Irrigation/Snowmaking Field, Outfall #009A (April 1 – October 31) and effluent snow making of up to 61 million gallons per year (as Outfall #SM1A from November 1 – March 31), to ground water, Class GW-A, in Greenville, Maine.

## 2. LICENSE SUMMARY

a. Terms and Conditions: This licensing action is carrying forward all the terms and conditions of the previous license except it is:

1. Revising the method of reporting the weekly maximum application rate of wastewater discharged to the Spray Irrigation and Snow Spraying fields. The amount discharged will no longer be reported to the Department in gallons per acre. Rather a maximum weekly volume is being established to allow for flexibility in better management of the fields;
2. Revising the monitoring well monitoring frequency for copper and lead based on facility data;
3. Eliminating the Special Condition L. *Schedule of Compliance* regarding the repair and/or replacement of MW-8 based on facility monitoring results;
4. Revising the Monthly Operations Log Sheet;
5. Revising the monitoring frequency for Lagoon Freeboard;
6. Eliminating Special Condition O. *Disposal of Septage Waste in Wastewater Treatment Facility*;
7. Amending Outfall #008 total acreage for spray irrigation based on updated information from the applicant;
8. Revising the timing of the metals testing (see Footnote #7 on Page 11 of this license);
9. Incorporating Special Condition O. *Disposal Of Transported Wastes In Wastewater Treatment Facility*; and
10. Revising the Lagoon Effluent metals testing frequency based facility testing results.

b. History: The most current relevant regulatory actions include:

*January 29, 2003* – The Department issued WDL #W-002119-5L-B-R to the Moosehead S.D. for renewal of its WDL to operate a surface wastewater disposal system for the treatment and disposal of sanitary wastewater through spray irrigation and effluent snowmaking in Greenville, Maine. The WDL was issued for a five-year period. This action superseded WDL #W-002119-59-A-R issued on July 27, 1988 and all prior Department actions beginning with WDL #2119 issued on April 26, 1978.

*July 6, 2004* - The Department administratively modified WDL #W-002119-5L-B-R to eliminate requirements for a soils monitoring program for the Moosehead S.D. spray irrigation and snowmaking sites.

*January 13, 2009* – Moosehead S.D. submitted a timely application for renewal of its surface

## 2. LICENSE SUMMARY (cont'd)

wastewater disposal system WDL. The application was assigned WDL #W-002119-6C-C-R / PCS Tracking #MEU502119.

*June 3, 2009* – The Department issued WDL #W-002119-6C-C-R / #MEU502119 for a five-year term.

*January 17, 2014* – Moosehead S.D. submitted a timely and complete General Application to the Department for renewal of the 6/3/09 MEPDES license. The application was accepted for processing on January 21, 2014, and was assigned WDL #W002119-6C-D-R / PCS Tracking # MEU502119.

- c. Source Description: Moosehead S.D. receives sanitary wastewater from residential and commercial customers within the Town of Greenville as well as smaller volumes of cooling water from Greenville Steam, floor drain holding tank wastewater from the town garage, and drinking water filter backwash from Aqua Maine. The Moosehead S.D. wastewater collection system and treatment facility became operational in 1979. The facility was designed based on a population of 1,500 users with an average daily flow capacity of 0.17 MGD. The Moosehead S.D. collection system consists of 14-miles of sanitary sewers and storm sewers and seven pump stations, but contains no Combined Sewer Overflows (CSOs). Moosehead S.D. requested and was approved to accept septage waste into its treatment facility in the last license renewal. Evaluations for I/I removal are ongoing and sewer manhole inspections and repairs are scheduled to begin in the spring of 2014. A map showing the location of the treatment facility is included as Fact Sheet Attachment A.
- d. Wastewater Treatment: The Moosehead S.D. wastewater treatment and disposal system consists of three aerated facultative biological treatment lagoons, two treated effluent storage lagoons, and a combined summer/winter land application system for the disposal of treated effluent.

Wastewater generated in the Town of Greenville is conveyed to the sanitary district facility through the wastewater collection system described above. The Moosehead S.D. lagoon treatment system consists of three earthen lagoons with synthetic liners. The aerated lagoons have volumes of 3.1 million gallons (MG), 1.5 MG, and 1.5 MG, and are each designed for 10-feet of liquid depth and 3-feet of freeboard. After the treatment lagoon system, treated wastewater is routed to a 33.2 MG (4.44 million cubic foot) storage lagoon with two compartments. At the design flow of 0.17 MGD, wastewater remains in the treatment lagoon system for 27 to 36 days depending on whether the second and third lagoons are operated in parallel or series, then can be stored in the storage lagoon system for up to 180 days. When appropriate conditions exist, Moosehead S.D. disposes of the treated wastewater via land application as described below.

1. Spray Irrigation - Between April 1<sup>st</sup> and November 30<sup>th</sup> and between April 1<sup>st</sup> and October 31<sup>st</sup> of each year, wastewater from the storage lagoon may be conveyed to Moosehead S.D.'s spray irrigation fields (Outfall #008A, 71-acres) and enhanced spray irrigation / snow making field (Outfall #009A, 26-acres), respectively for spray irrigation. Due to the decrease in population in the region, as well as the efforts to control I/I along the collection system, during the past five years, the Moosehead S.D. has been utilizing only the enhanced spray irrigation field. The enhanced spray irrigation / snow making field is designated as Outfall #009A for its spray irrigation activities and #SM1A for its snowmaking activities. The spray irrigation field (Outfall #008A) is authorized to receive a weekly maximum of 2,409,598 gallons of treated wastewater for disposal, whereas the enhanced spray irrigation / snow making field (Outfall #009A) is authorized to receive a weekly maximum of 3,035,370 of wastewater. The spray irrigation activities must be

## 2. LICENSE SUMMARY (cont'd)

conducted pursuant to License Special Conditions F, *General Operational Constraints*, Special Condition G, *Spray Irrigation and Snowmaking Operational Constraints, Logs, and Reports*, and other related requirements contained herein. The enhanced spray irrigation / snow making field (#009A/#SM1A) is subject to additional requirements related to effluent snowmaking, as described below. The Moosehead S.D. utilizes 10 spray irrigation nozzles and moves them about the spray fields as conditions necessitate. Each spray head distributes water in a circular pattern measuring 224 feet in diameter.

2. **Snowmaking:** Between November 1<sup>st</sup> and March 31<sup>st</sup> of each year, wastewater from the storage lagoon is converted to snow via compressed air and stored in piles on the enhanced spray irrigation / snowmaking field (#SM-1, 26-acres). Two fixed snow towers are used to distribute the snow over the parcel. The snow storage area has been designed to accept up to a maximum of 61 million gallons per snowmaking season (November – March). Water from the snow piles is slowly released to the environment via evaporation (assume 15%) during the snowmaking process, sublimation (assume 20%) of the snow piles over time, and infiltration into the ground as the snow piles melt in the spring and early summer. Other similar sites licensed by the Department have been modeled assuming melting would occur during the months of March (5%), April (15%), May (30%), June (40%) and July (10%). On average, the application rate of 61 million gallons of snow melting water over a period of 22 weeks on 26 acres is 3.9 inches/week or 107,000 gallons per week.

The Greenville site is in an area of hilly topography which slopes downward to the northwest of the site. The overall slope is 3-15% percent. The site was formerly used as woodland and agricultural fields, and the overstory canopy is of a mixture of hardwood and softwood.

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

- e. Groundwater Monitoring Wells. The Moosehead S.D monitors the following groundwater monitoring wells for compliance with this WDL.

Monitoring Wells	Compliance Tracking Identifier	Location
MW-1	002A	Upgradient background well, east of the spray field and northeast of the spray/snow field.
MW-2	003A	Downgradient well, west of the treatment lagoons and north of the spray field.
MW-3	004A	Downgradient well, on the western edge of the spray field and northwest of the spray/snow field.
MW-5	006A	Downgradient well, on the northwestern edge of the spray field and west of the spray/snow field.
MW-6	007A	Downgradient well, west of the spray field and property boundary.
MW-8	005A	Downgradient overburden well, within the eastern portion of the spray/snow field, southwest of the site "duck pond".
MW-10	010A	Upgradient background well, south of the storage lagoons and southeast of the spray field and spray/snow field.
MW-11	011A	Downgradient well, within the southwestern portion of the spray field and southwest of the spray/snow field.
MW-12	012A	Downgradient well, within the northerly portion of the spray field and southwest of the treatment lagoons.

**3. CONDITIONS OF LICENSE**

*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.

**4. RECEIVING WATER QUALITY STANDARDS**

*Classification of groundwater*, 38 M.R.S.A. § 470 states "All ground water must be classified as not less than Class GW-A, except as otherwise provided in this section." *Standards of classification of ground water*, 38 M.R.S.A. § 465-C(1) contains the standards for the classification of ground waters. "Class GW-A must be the highest classification and must be of such quality that it can be used for public drinking water supplies. These waters must be free of radioactive matter or any matter that imparts color, turbidity, taste or odor which would impair usages of these waters, other than that occurring from natural phenomena."

**5. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

**STORAGE LAGOON OUTFALL (OUTFALL #001A)**

- a. Biochemical Oxygen Demand (BOD<sub>5</sub>) and Total Suspended Solids (TSS): Previous licensing action established, and this licensing action is carrying forward, a daily maximum limit of 100 mg/L for BOD<sub>5</sub> and TSS, which is considered by the Department as a best practicable treatment (BPT) standard for spray irrigation facilities, along with a 1/Month monitoring frequency.

The Department reviewed 12 DMRs that were submitted for the period January 2011 – January 2014. A review of data indicates the following:

**BOD<sub>5</sub> concentration**

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Daily Maximum	100	12 - 88	55

**TSS concentration**

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Daily Maximum	100	12 - 74	46

- b. Nitrate-nitrogen: Nitrate-nitrogen compounds are by-products of the biological breakdown of ammonia and are inherent in domestic-like sanitary wastewater. Because nitrate-nitrogen is weakly absorbed by soil, it functions as a reliable indicator of contamination from waste-disposal sites. Elevated levels of nitrate-nitrogen in the drinking water supply are of human health concern. This license is carrying forward the previously established monitoring requirement.

The Department reviewed 8 DMRs that were submitted for the period January 2011 – January 2014. A review of data indicates the following:

**Nitrate-nitrogen concentration**

Value	Limit (ml/L)	Range (ml/L)	Average (ml/L)
Daily Maximum	Report	1.0 – 10.0	3

- c. pH Previous licensing action established, and this license is carrying forward, a reporting requirement of once per month for the monitoring of pH.

The Department reviewed 31 DMRs that were submitted for the period January 2011 – January 2014. A review of data indicates the following:

**pH**

Value	Limit (SU)	Minimum (SU)	Maximum (SU)
Range	Report	5.8	9.5

- d. Freeboard: Freeboard is the vertical distance from the surface water level in the lagoon to a point that is even with the top of the lagoon dike wall. This licensing action eliminates the condition to monitor freeboard as it is conditioned in the license Under Special Condition I. *Lagoon Maintenance* (3). It should also be noted that as part of the application materials, Moosehead S.D. submitted the

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

following narrative:

“This facility has 6 months of storage capacity at design flow and we are at 70% of that. The ponds are 30’ deep and changes in level are not drastic even on a monthly basis.”

The Department reviewed 8 DMRs that were submitted for the period January 2010 – January 2014. A review of data indicates the following:

**Freeboard**

Value	Minimum (feet)	Maximum (feet)	Mean (feet)
Report Daily Minimum	4	30	17

- e. Metals (Total): Total metals are required to be analyzed once per 5 years (1/5 Years) to determine the character of the effluent from the storage lagoon.

A summary of the results from grab samples taken on 10/31/2013 indicates the following:

Parameter	Daily Maximum Limit (µg/L)	Result (µg/L)
Arsenic	Report only	1.6
Cadmium		<0.2
Chromium		<1.0
Copper		14
Lead		0.3
Nickel		2.1
Zinc		27
Mercury		<0.2

**SPRAY IRRIGATION FIELD OUTFALL #008A (36.6 acres)**

- f. Application Rate and Flow: No wastewater was discharged to this outfall within the last license cycle. The previous licensing action established a weekly maximum wastewater application rate for outfall #008A of 33,938 gallons/acre. With this license, the Department is establishing a weekly maximum application rate in order to allow for flexibility in managing the spray irrigation fields. The new weekly maximum application rate was calculated using the following formula:

$$33,938 \text{ gallons/acre/week} \times 36.6 \text{ acres} = 1,242,131 \text{ gallons/week}$$

**ENHANCED SPRAY IRRIGATION FIELD OUTFALL #009A (26 acres)**

- g. Application Rate and Flow: The previous licensing action established a weekly maximum wastewater application rate for outfall #009A of 116,745 gallons/acre. With this license, the Department is establishing a weekly maximum application rate in order to allow for flexibility in managing the spray

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

irrigation fields. The new weekly maximum application rate was calculated using the following formula:

$$116,745 \text{ gallons/acre/week} \times 26 \text{ acres} = 3,035,370 \text{ gallons/week}$$

The Department reviewed 22 DMRs for spray irrigation Outfall #009A that were submitted for the period January 2010 – January 2014. A review of data indicates the following:

**Weekly Application Rate**

Weekly Maximum (gallons/acre)	Minimum (gallons/acre)	Maximum (gallons/acre)	Mean (gallons/acre)
116,745	62,233	110,250	93,671

**Total Monthly Flow**

Monthly Total Limit (gallons)	Minimum (gallons)	Maximum (gallons)	Mean (gallons)
Report	3,096,500	10,578,600	5,626,108

**SNOWMAKING FIELD OUTFALL #SM1A**

- h. **Annual Total Snowmaking:** The previous licensing action established, and this license is carrying forward, an annual total limit of 61 million gallons to be applied from November 1 through March 31 to the Enhanced Spray Irrigation/Snowmaking field.

The Department reviewed 24 DMRs for snow-making discharge at #SM1A that were submitted for the period November 2010 – March 2013. A review of data indicates the following:

**Annual Total Gallons Snowmaking**

Annual Total Limit	Year	Total (gallons)
61 million gallons	2011	27,978,000
	2012	23,400,000
	2013	38,600,000

**GROUND WATER MONITORING WELLS**

- i. **Ground water monitoring wells:** MW-1, MW-, 2, MW-3, MW-5, and MW-6, MW-8, MW-10, MW-11, MW-12 (Compliance Outfalls # 002A, 003A, 004A, 006A, 007A, 005A, 010A, 011A, and 012A, respectively) are monitored for the parameters listed in Special Condition A.4 of the license. These parameters, their monitoring frequency, and their applicable limits are being carried forward in this license. The Department reviewed DMRs for the period of January 2011 – January 2014. A review of

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

the data indicates:

**Metals (10/31/2013 Sample Date)**

Monitoring Well ID	Total Arsenic (µg/L)	Total Cadmium (µg/L)	Total Chromium (µg/L)	Total Copper (µg/L)	Total Lead (µg/L)	Total Nickel (µg/L)	Total Zinc (µg/L)
MW-1	1.1	0.4	5.5	584	9.9	24.0	172
MW-2	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MW-3	2.0	0.4	2.9	86	3.8	8.2	55
MW-5	4.6	4.5	6.1	208	26	14	94
MW-6	<1.0	<0.2	1.5	103	3.9	13	56
MW-8	4.9	0.2	14	58	7.5	26	76
MW-10	No data	No data	No data	No data	No data	No data	No data
MW-11	<1.0	0.3	1.5	88	1.7	3.4	35
MW-12	2.8	0.6	3.6	2,020	9.8	11	106

**Depth to Water Level Below Land Surface**

Monitoring Well ID	Limit	Minimum (feet)	Maximum (feet)	Mean (feet)
MW-1	Report Daily Maximum	5.0	13.0	9
MW-2		0.7	6.9	3
MW-3		8.0	14.0	11
MW-5		2.0	7.9	4
MW-6		0.7	6.0	2
MW-8		3.0	12.0	8
MW-10		9.0	15.0	12
MW-11		0.0	7.0	3
MW-12		5.0	10.0	7

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

**Nitrate-Nitrogen**

Monitoring Well ID	Limit	Minimum (mg/L)	Maximum (mg/L)	Mean (mg/L)
MW-1	10 mg/L	1.1	3.0	2
MW-2		1.0	1.0	1
MW-3		<1.0	7.1	2
MW-5		<1.0	1.0	1
MW-6		<1.0	1.0	<1
MW-8		<1.0	22.0	8
MW-10		1.0	1.1	1
MW-11		<1.0	1.7	1
MW-12		1.0	1.0	1

**Specific Conductance**

Monitoring Well ID	Limit	Minimum (umhos/cm)	Maximum (umhos/cm)	Mean (umhos/cm)
MW-1	Report Daily Maximum	72	171	99
MW-2		11	113	41
MW-3		6	68	32
MW-5		13	61	30
MW-6		20	90	37
MW-8		84	224	137
MW-10		56	106	85
MW-11		44	85	67
MW-12		9	36	24

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

**Temperature**

Monitoring Well ID	Limit	Minimum (°C)	Maximum (°C)	Mean (°C)
MW-1	Report Daily Maximum	6.2	13	9
MW-2		5.2	12	9
MW-3		9	14	11
MW-5		7	15	10
MW-6		7.2	14	10
MW-8		7.6	15	10
MW-10		5.5	11	8
MW-11		7.9	12	10
MW-12		4.5	14	9

**pH**

Monitoring Well ID	Limit	Minimum (S.U.)	Maximum (S.U.)	Mean (S.U.)
MW-1	Report Daily Maximum	4	5.1	4.6
MW-2		3.2	5.8	4.5
MW-3		4.7	5.7	5.2
MW-5		4.2	5.6	4.9
MW-6		4.8	6.6	5.4
MW-8		3.7	5.6	5.0
MW-10		4.8	6.4	5.7
MW-11		4.7	6.4	5.5
MW-12		3.8	5.7	4.8

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

**TSS**

Monitoring Well ID	Limit	Minimum (mg/L)	Maximum (mg/L)	Mean (mg/L)
MW-1	Report Daily Maximum	2.2	296	120
MW-2		46	4,600	1,075
MW-3		20	2,730	886
MW-5		34	2,900	656
MW-6		25	908	217
MW-8		15	3,510	756
MW-10		16	523	260
MW-11		7.3	472	120
MW-12		13	628	154

The previous 2009 license required investigation of MW-8 due to elevated nitrate results. The well was repaired and recent results from MW-8 indicate that it is in compliance (October 2012, May 2013, and October 2013 data).

**LAGOON UNDERDRAIN SYSTEM**

- j. Lagoon Underdrain Monitoring Requirements – Previous licensing action established, and this license is continuing lagoon under-drain monitoring requirements for: flow rate; specific conductance; and temperature, to occur three times per year (in the months of July, August, and September). These requirements are being carried forward in this licensing action based on Department best professional judgment of appropriate underdrain monitoring requirements.

The Department reviewed 9 DMRs for the period of January 2011 – January 2014. A review of the data indicates:

**Storage Lagoon Underdrain System (Outfall #UD1)**

Parameter	Minimum	Maximum	Average
Flow Rate (gal/minute)	1.00	20.00	12
Specific Conductance	140 umhos/cm	294 umhos/cm	215 umhos/cm
Temperature (°C)	13	19	16

## 6. TRANSPORTED WASTES

The previous license authorized Moosehead S.D. to introduce a maximum of 1,700 gallons per day of septage subject to the terms and conditions outlined in the 2009 license. Since the issuance of the 2009 license, *Standards for the Addition of Transported Wastes to Wastewater Treatment Facilities*, 06-096 CMR 555 (1) has been amended to read:

**Scope.** This chapter applies to the treatment in a wastewater treatment facility of certain liquid nonhazardous transported wastes from septic tanks, cesspools, holding tanks, commercial and industrial processes and similar sources having characteristics substantially different from the normal influent to that facility.

These rules do not apply to the treatment of transported wastes having similar or compatible chemical composition and strength to the influent typically received by a particular treatment facility. Sanitary holding tank wastes to which no chemicals in quantities potentially harmful to the treatment facility or receiving water have been added are considered similar to the influent of a domestic wastewater treatment facility. These rules do not apply to facilities licensed pursuant to the Department's Septage Management Rules, 06-096 CMR Chapter 420.

Therefore, conditions required under Special Condition O. *Disposal of Septage Waste in Wastewater Treatment Facility* of the 6/3/09 license, are no longer required and this condition has been eliminated. Any addition of transported waste to the treatment facility must comply with *Standards for the Addition of Transported Wastes to Wastewater Treatment Facilities*, 06-096 CMR 555.

## 7. DISCHARGE IMPACT ON RECEIVING WATER QUALITY

As licensed, 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 GW-A classification.

## 8. PUBLIC COMMENTS

Public notice of this application was made in the Moosehead Matters newspaper on or about January 20, 2014. 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 licenses must have at least 30 days in which to submit comments on the draft or to request a public hearing, pursuant to *Application Processing Procedures for Waste Discharge Licenses*, 06-096 CMR 522 (effective January 12, 2001).

## 9. DEPARTMENT CONTACTS

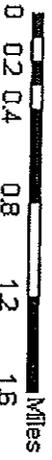
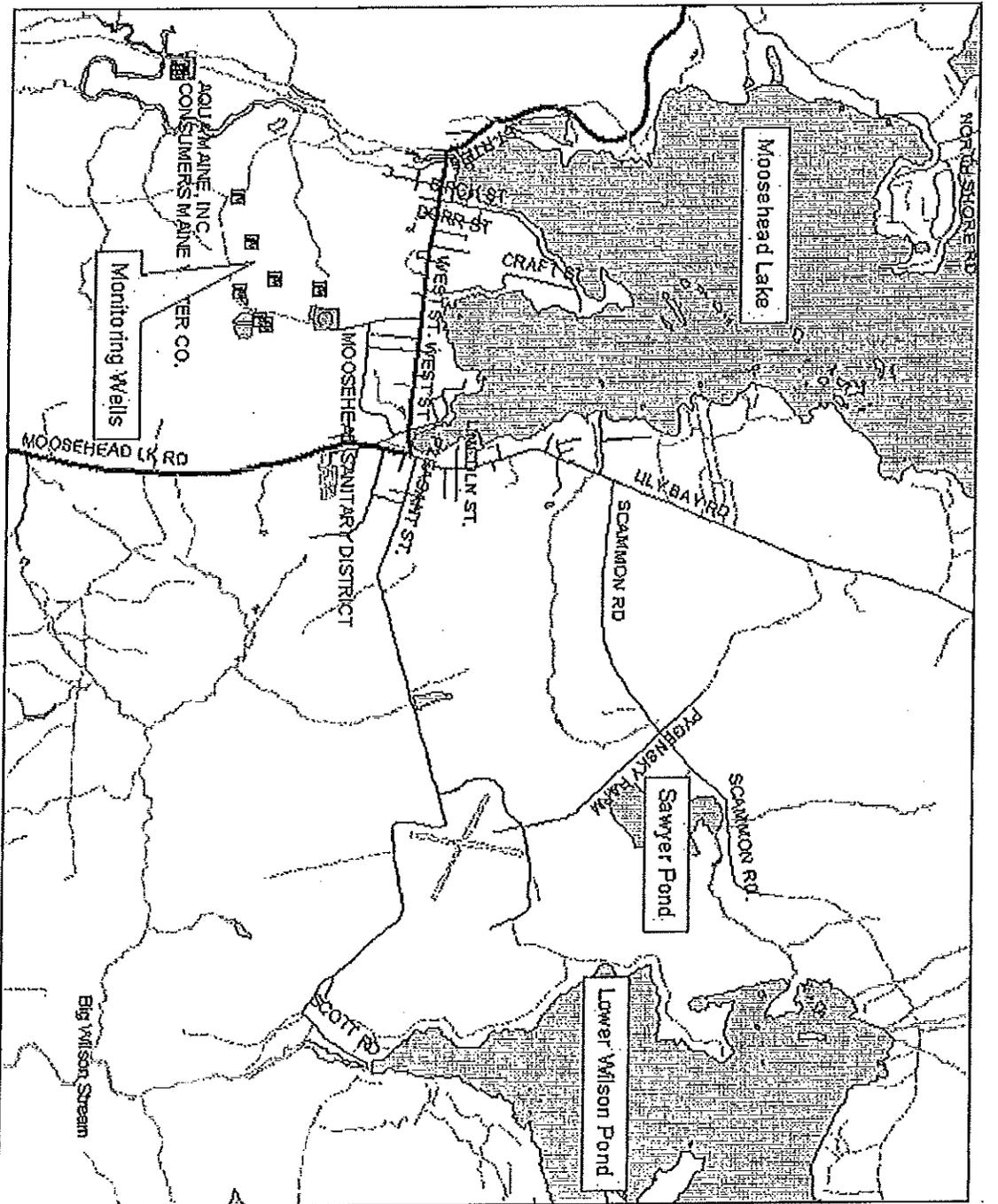
Additional information concerning this licensing action may be obtained from, and written comments sent to:

Cindy L. Dionne  
Division of Water Quality Management  
Bureau of Land & Water Quality  
Department of Environmental Protection  
17 State House Station  
Augusta, Maine 04333-0017 Telephone: (207) 592-7161  
e-mail: [cindy.l.dionne@maine.gov](mailto:cindy.l.dionne@maine.gov)

## 10. RESPONSE TO COMMENTS

During the period of July 11, 2014, through the issuance date of the license, the Department solicited comments on the proposed draft license to be issued for the discharge(s) from the licensee's facility. The Department did not receive comments from the licensee, state or federal agencies or interested parties that resulted in any substantive change(s) in the terms and conditions of the license. Therefore, the Department has not prepared a Response to Comments.

# ATTACHMENT A



# Moosehead Sanitary District Greenville, Maine

Map created by:  
 Bob Stratton  
 Division of Water Quality Management  
 Maine Department of Environmental Protection

### Legend

- Rivers**
- AA
- A
- B
- C
- Streams
- AA
- A
- B
- C
- Ponds and Lakes**
- Wastewater\_Facilities
- Wastewater\_Outfalls
- Roads**
- JURISDICTION**
- Town Road
- Town Road - Summer
- Town Road - Winter
- State Highway
- Toll Highway
- Private Road
- Reservation Road
- Seasonal Parkway

