



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION



JANET T. MILLS
GOVERNOR

MELANIE LOYZIM
ACTING COMMISSIONER

January 25, 2021

Mr. Roger Brown
Passamaquoddy Tribal Government
P.O. Box 301
Princeton, Maine 04668
Indtownshipww@gmail.com

*Sent via electronic mail
Delivery confirmation requested*

RE: ICIS Tracking Number #MEU500872
Maine Waste Discharge License (WDL) Application #W000872-6B-G-R
Proposed Draft MEPDES License Renewal

Dear Mr. Brown,

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

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

The comment period begins on January 25, 2021 and ends on Thursday, February 25, 2021. All comments on the proposed draft permit must be received in the Department of Environmental Protection office on or before the close of business Thursday, February 25, 2021. Failure to submit comments in a timely fashion will result in the proposed draft/license document being issued as drafted.

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
(207) 287-7688 FAX: (207) 287-7826

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

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

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04769
(207) 764-0477 FAX: (207) 760-3143

Roger Brown
January 25, 2021
Page 2 of 2

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

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

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

Sincerely,



Aaron Dumont
Division of Water Quality Management
Bureau of Water Quality
Aaron.A.Dumont@maine.gov
ph: 207-287-1939

Enc.

cc:

Clarissa Trasko, MEDEP
Pamela Parker, DEP
Lori Mitchell, DEP
John Hopeck, MEDEP
Marelyn Vega, USEPA
Richard Carvalho, USEPA
Nathan Chien, USEPA



DEPARTMENT ORDER

IN THE MATTER OF

PASSAMAQUODDY TRIBAL GOVERNMENT)	PROTECTION AND IMPROVEMENT
INDIAN TOWNSHIP WASHINGTON COUNTY MAINE))	OF WATERS
SURFACE WASTEWATER DISPOSAL SYSTEM)	WASTE DISCHARGE LICENSE
MEU500872)	
W000872-6B-G-R)	
APPROVAL)	RENEWAL

Pursuant to *Conditions of licenses*, 38 M.R.S. § 414-A, and applicable regulations, the Department of Environmental Protection (Department) has considered the application of the PASSAMAQUODDY TRIBAL GOVERNMENT (PTG), with its supportive data, agency review comments, and other related materials on file, and FINDS THE FOLLOWING FACTS:

APPLICATION SUMMARY

On January 2, 2020, the Department accepted as complete for processing an application from PTG for renewal of Waste Discharge License (WDL) W000872-6B-F-R, which was issued on March 2, 2015 for a five-year term. The 3/2/2015 WDL authorized PTG to operate a surface wastewater disposal system with a total design capacity of 0.095 million gallons per day (MGD) for the treatment and seasonal (April 15-November 15) discharge of up to 1,990,535 gallons per week via spray irrigation, to ground water, Class GW-A, in Indian Township, Maine. The facility has been assigned Integrated Compliance Information System (ICIS) tracking number MEU500872.

LICENSE SUMMARY

This licensing action is carrying forward all the terms and conditions of the previous licensing action and subsequent permit modifications except for the following:

CONCLUSIONS

Based on the findings summarized in the attached Fact Sheet dated January 25, 2020, and subject to the Conditions listed below, the Department makes the following CONCLUSIONS:

1. The discharge, either by itself or in combination with other discharges, will not lower the quality of any classified body of water below such classification.
2. The discharge, either by itself or in combination with other discharges, will not lower the quality of any unclassified body of water below the classification which the Department expects to adopt in accordance with state law.
3. The provisions of the State's antidegradation policy, *Classification of Maine waters*, 38 M.R.S. § 464(4)(F), will be met, in that:
 - (a) Existing in-stream water uses and the level of water quality necessary to protect and maintain those existing uses will be maintained and protected;
 - (b) Where high quality waters of the State constitute an outstanding 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
 - (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. § 414-A(1)(D).

ACTION

THEREFORE, the Department APPROVES the above noted application of the PASSAMAQUODDY TRIBAL GOVERNMENT to operate a surface wastewater disposal system with a total design capacity of 0.095 MGD, of which the following quantities of sanitary wastewater will be treated and disposed of via spray irrigation: 1,990,535 gallons per week for SF#1, SF#2, SF#3 and SF#4 (April 15 – November 15), on 29.32 acres. Wastewater is authorized to be applied onto the surface of the land in Indian Township, Maine, SUBJECT TO THE ATTACHED CONDITIONS, and all applicable standards and regulations including:

1. *Maine Pollutant Discharge Elimination System Permit Standard Conditions Applicable to All Permits*, revised July 1, 2002, copy attached.
2. The attached Special Conditions, including any effluent limitations and monitoring requirements.
3. This license and the authorization to discharge become effective upon the date of signature below and expire at midnight five (5) years from the effective date. If a renewal application is timely submitted and accepted as complete for processing prior to the expiration of this 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. § 10002 and *Rules Concerning the Processing of Applications and Other Administrative Matters*, 06-096 CMR 2(21)(A) (amended June 9, 2018)].

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

DONE AND DATED AT AUGUSTA, MAINE, THIS _____ DAY OF _____ 2021.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
for Melanie Loyzim, Acting Commissioner

Date of initial receipt of application: December 10, 2020

Date of application acceptance: January 2, 2020

FILED
MAR 30, 2020
State of Maine
Board of Environmental Protection

Date filed with Board of Environmental Protection _____

This Order prepared by Aaron Dumont, BUREAU OF WATER QUALITY

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. The licensee is authorized to operate a surface wastewater treatment and disposal system. The **STORAGE LAGOON EFFLUENT (OUTFALL #001A)** must be limited and monitored as specified below⁽¹⁾⁽²⁾:

Effluent Characteristic	Discharge Limitations		Minimum Monitoring Requirements	
	Daily Minimum	Daily Maximum	Measurement Frequency	Sample Type
Biochemical Oxygen Demand <i>[00310]</i>	---	100 mg/L <i>[19]</i>	1/Month ⁽²⁾ <i>[01/30]</i>	Grab <i>[GR]</i>
Total Suspended Solids <i>[00530]</i>	---	100 mg/L <i>[19]</i>	1/Month ⁽²⁾ <i>[01/30]</i>	Grab <i>[GR]</i>
Nitrate-Nitrogen <i>[00620]</i>	---	Report mg/L <i>[19]</i>	1/Month ⁽²⁾ <i>[01/30]</i>	Grab <i>[GR]</i>
pH (Standard Units) <i>[00400]</i>	6.0 S.U. <i>[12]</i>	9.0 S.U. <i>[12]</i>	1/Month ⁽²⁾ <i>[01/30]</i>	Grab <i>[GR]</i>
Metals (Total): Arsenic, Cadmium, Chromium, Copper, Lead, Nickel and Zinc <i>[01002, 01027, 01034, 01042, 01051, 01067, 01092]</i>	---	Report µg/L <i>[28]</i>	1/5 Years ⁽³⁾ <i>[01/5Y]</i>	Grab <i>[GR]</i>
Specific Conductance ^(4,5) <i>[00095]</i>		Report (umhos/cm) <i>[11]</i>	2/Year ⁽⁶⁾ <i>[02/YR]</i>	Measure <i>[MS]</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 8 through 9 of this license for applicable footnotes.

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. **OUTFALL #100 (Administrative Outfall)** designated to track lagoon freeboard. The **LAGOON EFFLUENT (OUTFALL #100)** must be limited and monitored as specified below⁽¹⁾. It is noted that this is not physically a separate outfall from #001A; rather, Outfall #100 is an administrative outfall for compliance purposes.

Effluent Characteristic	Discharge Limitations		Minimum Monitoring Requirements	
	Daily Minimum	Daily Maximum	Measurement Frequency	Sample Type
Lagoon Freeboard <i>[82564]</i>	3 ft. ⁽⁷⁾ <i>[27]</i>	---	2/Year ⁽⁸⁾ <i>[02/YR]</i>	Measure ⁽⁹⁾ <i>[MS]</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 9 through 10 of this license for applicable footnotes.

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

3. The application of treated sanitary wastewater to the land at **SPRAY IRRIGATION FIELD OUTFALLS: SF#1 (6.65 acres), SF#2 (6.57 acres), SF#3 (7.9 acres) and SF#4 (8.2 acres)**

Spray irrigation system must be limited to the time period of **April 15 to November 15 of each calendar year.**

Effluent Characteristic	Discharge Limitations		Minimum Monitoring Requirements	
	Monthly Total	Weekly Maximum ⁽¹⁰⁾	Measurement Frequency	Sample Type
Application Rate [51128]				
SF-1	---	451,469 Gallons	1/Week	Calculate
SF-2	---	446,037 Gallons	1/Week	Calculate
SF-3	---	536,331 Gallons	1/Week	Calculate
SF-4	---	556,698 Gallons [8B]	1/Week [01/07]	Calculate [CA]
Flow – Total Gallons [51500]				
SF-1	Report Gallons	---	1/Month	Calculate
SF-2	Report Gallons	---	1/Month	Calculate
SF-3	Report Gallons	---	1/Month	Calculate
SF-4	Report Gallons [57]	---	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 9 through 10 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-4, MW-5 and MW-6 (ICIS) ID's: **MW1A, MW2A, MW4A, MW5A and MW6A**, respectively) must be limited and monitored as specified below⁽¹⁾:

Monitoring Characteristic	Limitations	Minimum Monitoring Requirements	
		Measurement Frequency	Sample Type
Depth to Water Level Below Land Surface <i>[72019]</i>	Report (feet) ⁽¹¹⁾ <i>[27]</i>	2/Year ⁽⁶⁾ <i>[02/YR]</i>	Measure <i>[MS]</i>
Depth of Well Below Land Surface <i>[72025]</i>	Report (feet) ⁽¹¹⁾ <i>[27]</i>	2/Year ⁽⁶⁾ <i>[02/YR]</i>	Measure <i>[MS]</i>
Nitrate-Nitrogen <i>[00620]</i>	10 mg/L <i>[19]</i>	2/Year ⁽⁶⁾ <i>[02/YR]</i>	Grab <i>[GR]</i>
Specific Conductance ^(4,5) <i>[00095]</i>	Report (umhos/cm) <i>[11]</i>	2/Year ⁽⁶⁾ <i>[02/YR]</i>	Measure <i>[MS]</i>
Temperature ⁽⁴⁾ <i>[00010]</i>	Report (°C) <i>[04]</i>	2/Year ⁽⁶⁾ <i>[02/YR]</i>	Grab <i>[GR]</i>
pH (Standard Units) ⁽⁴⁾ <i>[00400]</i>	Report (S.U.) <i>[12]</i>	2/Year ⁽⁶⁾ <i>[02/YR]</i>	Grab <i>[GR]</i>
Total Suspended Solids <i>[00530]</i>	Report (mg/L) <i>[19]</i>	2/Year ⁽⁶⁾ <i>[02/YR]</i>	Grab <i>[GR]</i>
<u>Metals (Total):</u> Arsenic, Cadmium, Chromium, Copper, Lead, Nickel and Zinc <i>[01002, 01027, 01034, 01042, 01051, 01067, 01092]</i>	Report µg/L <i>[28]</i>	1/5 Years ⁽³⁾ <i>[01/5Y]</i>	Grab <i>[GR]</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 9 through 10 of this license for applicable footnotes.

SPECIAL CONDITIONS

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

5. **LAGOON UNDERDRAIN SYSTEM (OUTFALL #001B and #001C)** Outfall #001B refers to Pit Valve E and Outfall #001C refers to Pit Valve L. Sampling of the **LAGOON UNDERDRAIN SYSTEM (OUTFALL #001B and #001C)** must be conducted as specified below⁽¹²⁾:

Monitoring Characteristic	Limitations		Minimum Monitoring Requirements	
	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type
Flow Rate <i>[00058]</i>	---	Report GPM <i>[78]</i>	3/Year ⁽¹³⁾ <i>[03/YR]</i>	Estimate <i>[ES]</i>
Specific Conductance <i>[00095]</i>	---	Report (umhos/cm) <i>[11]</i>	3/Year ⁽¹³⁾ <i>[03/YR]</i>	Grab <i>[GR]</i>
Temperature <i>[00011]</i>	---	Report (°C) <i>[04]</i>	3/Year ⁽¹³⁾ <i>[03/YR]</i>	Grab <i>[GR]</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 9 through 10 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 publicly owned treatment works (POTW) pursuant to *Waste discharge licenses*, 38 M.R.S. § 413 are subject to the provisions and restrictions of *Maine Comprehensive and Limited Environmental Laboratory Certification Rules*, 10-144 CMR 263 (effective December 19, 2018). Laboratory facilities that analyze compliance samples in-house are subject to the provisions and restrictions of 10 – 144 CMR 263. 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 (DMR).
2. **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. PTG is not required to test for the monthly parameters during a month in which no wastewater was disposed of via the disposal system.
3. **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.
4. **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.
5. **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.
6. **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. Samples from Outfalls #001A, 001B, 001C, MW-1, MW-2, MW-4, MW-5 and MW-6 must all be taken on the same day.
7. **Lagoon Freeboard** – Lagoon freeboard is limited as specified in Special Condition I. *Lagoon Maintenance*, #3. The licensee is required to test for this parameter at the specified monitoring frequency.

SPECIAL CONDITIONS

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

FOOTNOTES

8. **Measurement Frequency** – The licensee must sample the specified parameter during the months of **April and October** of each year, unless otherwise specified by the Department.
9. **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 (1/10th) of a foot, with the minimum monthly value reported on the DMR. If site conditions prevent safe or accurate measurements, the licensee must estimate this value and indicate this to the Department.
10. **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.
11. **Depth to Water Level** - Depth to water level or bottom of monitoring well must be measured to the nearest one-tenth (1/10th) of a foot as referenced from the surface of the ground at the base of the monitoring well.
12. **Underdrain Sampling** – Monitoring for this outfall is from two separate locations, Outfall #001B refers to Pit Valve E and Outfall #001C refers to Pit Valve L.
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.

B. NARRATIVE EFFLUENT LIMITATIONS

1. The effluent must not contain materials in concentrations or combinations which are hazardous or toxic to aquatic life, or which would impair the use designated by the classification of the groundwater.
2. The effluent must not lower the quality of any classified body of groundwater below such classification, (groundwater is a classified body of water under 38 M.R.S. § 465-C) or lower the existing quality of any body of water if the existing quality is higher than the classification.

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SPECIAL CONDITIONS

C. TREATMENT PLANT OPERATOR

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

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 2, 2020; 2) the terms and conditions of this license; and 3) only to the existing spray-irrigation fields. Discharges of wastewater from any other point source(s) are not authorized under this license and must be reported in accordance with Standard Condition D(1)(F), *Twenty-four-hour reporting*, of this license.

E. NOTIFICATION REQUIREMENT

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

1. 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.
2. 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.

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.
2. The spray irrigation facility 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.

SPECIAL CONDITIONS

F. GENERAL OPERATIONAL CONSTRAINTS (cont'd)

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. § 2611.

In the event that groundwater monitoring results indicate lowering of the existing groundwater quality, 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, groundwater remediation, or ceasing operation of the system until the groundwater attains applicable standards.

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 D 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 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 system**, the licensee must inspect the spray-irrigation 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 system and make necessary repairs before resuming operation. The licensee must cease irrigation if runoff is observed outside the designated boundaries of the spray 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.

SPECIAL CONDITIONS

F. GENERAL OPERATIONAL CONSTRAINTS (cont'd)

8. **The licensee must maintain a daily log** of all spray irrigation 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 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 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 field(s) except where installation occurs or where normal operations and maintenance are performed (this must include forest management operations).
6. The licensee must utilize observation wells to collect data on soil saturation in the spray fields. Data collected must be reported in column “F” of **Attachment A** of this license.

SPECIAL CONDITIONS

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 system, 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.

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 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.

SPECIAL CONDITIONS

K. GROUNDWATER MONITORING WELLS AND WATER QUALITY MONITORING PLAN DETAILS

1. All monitoring wells must be equipped with a cap and lock to limit access and must always be maintained in a secured state. The integrity of the monitoring wells must also be verified annually in order to insure representative samples of groundwater quality.
2. 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)

This facility must have a current written comprehensive 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. One item of importance is the management of the spray application sites such that the spray sites are given ample periods of rest to prevent over application.

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.

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 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.

SPECIAL CONDITIONS

N. MONITORING AND REPORTING

Electronic Reporting

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

Electronic Discharge Monitoring Reports (DMRs) submitted using the USEPA NetDMR system, must be:

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

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

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

Toxsheet reporting forms must be submitted electronically as an attachment to an email sent to your Department compliance inspector. In addition, a signed hardcopy of your toxsheet must also be submitted.

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

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

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

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SPECIAL CONDITIONS

O. REOPENING OF LICENSE FOR MODIFICATION

In accordance with 38 M.R.S. § 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.

P. 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.

ATTACHMENT A

Monthly Operations Log

PASSAMAQUODDY TRIBAL GOVERNMENT

#W000872-6B-F-R / #MEU500872

(Month/Year) (_____ / _____)

Weekly Application Rate: _____ gallons/week

Day	A Date	B Precipitation Previous 24 hours (inches)	C Air Temp (°F)	D Weather	E Wind- Direction/ Speed (mph)	F Soil Moisture	G Total Gallons Pumped	H Name of Field(s) Used
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
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	17							
	18							
	19							
	20							
	21							
	22							
	23							
	24							
	25							
	26							
	27							
	28							
	29							
	30							
	31							
Monthly Total =								

ATTACHMENT B

PASSAMAQUODDY TRIBAL GOVERNMENT

Spray Application Report by Week

(Month/Year) (____ / ____)

#W000872-6B-F-R / #MEU500872

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 #SF-1	6.65	451,369							
Spray Field #SF-2	6.57	445,939							
Spray Field #SF-3	7.9	536,213							
Spray Field #SF-4	8.2	556,575							
Note: 1 acre-inch is equivalent to 27,150 gallons of liquid 67,875 gallons per acre is equivalent to 2.5 inches						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 _____

MAINE WASTE DISCHARGE LICENSE

FACT SHEET

DATE: **January 25, 2021**

PERMIT COMPLIANCE TRACKING NUMBER: **MEU500872**

WASTE DISCHARGE LICENSE: **W000872-6B-G-R**

NAME AND ADDRESS OF APPLICANT:

**PASSAMAQUODDY TRIBAL GOVERNMENT
P.O. BOX 301
INDIAN TOWNSHIP, MAINE 04930**

COUNTY: **WASHINGTON**

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

**PASSAMAQUODDY TRIBAL GOVERNMENT
GRAND LAKE STREAM ROAD
INDIAN TOWNSHIP, MAINE 04930**

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

COGNIZANT OFFICIAL CONTACT INFORMATION:

**MR. ROGER BROWN
(207) 214-4763
EMAIL: Indtownshipww@gmail.com**

1. APPLICATION SUMMARY

On January 2, 2020, the Department accepted as complete for processing an application from PTG for renewal of Waste Discharge License (WDL) W000872-6B-F-R, which was issued on March 2, 2015 for a five-year term. The 3/2/2015 WDL authorized PTG to operate a surface wastewater disposal system with a total design capacity of 0.095 million gallons per day (MGD) for the treatment and seasonal (April 15-November 15) discharge of up to 1,990,535 gallons per week via spray irrigation, to ground water, Class GW-A, in Indian Township, Maine. The facility has been assigned Integrated Compliance Information System (ICIS) tracking number MEU500872.

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:

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

June 8, 1988 – The Department issued WDL W000872-45-A-R for a five-year term.

May 2, 1990 – The Department issued license modification WDL W000872-58-B-M.

August 2, 1994 – The Department issued WDL W000872-58-D-R for a five-year term.

December 23, 2009 – The Department issued WDL W000872-58-E-R for a five-year term. The facility has been assigned number MEU500872 for tracking compliance in the Department's permit compliance system (PCS).

March 2, 2015 – The Department issued ICIS MEU500872/WDL W000872-6B-F-R to PGT for a five-year term.

December 10, 2019 – The licensee submitted a timely and complete general application to the Department for renewal of the March 2, 2015 WDL. The application was accepted for processing on January 2, 2020 and was assigned ICIS MEU500872/WDL W000872-6B-G-R.

c. Source Description: PTG's wastewater treatment facility became operational in April 1992 for the collection and treatment of sanitary wastewaters generated by residential and commercial entities in two distinct areas of Indian Township – The Strip in Princeton and Peter Dana Point. The Strip is located along Route #1 next to Lewy Lake and serves 132 residential users and 7 institutional (*i.e.*, schools, offices, and other light commercial facilities) users. The Peter Dana Point area is located along Peter Dana Point, Long Lake, and Big Lake and serves 53 residential users and 4 institutional users.

The design for the wastewater treatment facility and 14 larger pump stations was based upon the current user composition, plus some future growth, at expected average and peak sewer flow rates. The system has historically been prone to some inflow and infiltration which has been factored into the basis of design. See **Attachment B** of this Fact Sheet for location map depicting the wastewater collection system.

Sewers in the Strip area are connected to septic tanks maintained by PTG. Following these septic tanks, wastewater is collected by gravity sewers, 76 residential grinder pump stations, 14 large pump stations and force mains and conveyed to the Main Pump Station, a submersible style station, with two pumps. Flow is pumped through a 6" Ø HDPE force main for 10,000 LF to the Route 1 pump station. This is also a submersible style pump station with two pumps. There is a small development near the intersection of Route 1 and Grand Lake Stream Road that bypasses the pretreatment facility and flows directly to this pump station. The Route 1 pump station conveys wastewater over a distance of 7,000 LF, along Grand Lake Stream Road, to the wastewater treatment facility.

2. LICENSE SUMMARY (cont'd)

Raw wastewater for the Peter Dana Point area flows through septic tanks like the Strip area. Following these septic tanks are a series of gravity sewers, small pump stations and force mains that convey all of the wastewater from this area to one central pump station on Pit Road. This is a wetwell mounted style pump station, inside a building, with two series-connected pumps. Flow is pumped through an 8" Ø PVC force main for 12,000 LF along Peter Dana Point Road and Grand Lake Stream Road to the wastewater treatment facility.

- d. Wastewater Treatment: A pretreatment facility is located at The Strip where the existing treatment plant used to exist. Wastewater from The Strip area collects at the pretreatment facility and flows through its channels by gravity. It consists of a manually raked bar screen and an aerated grit chamber. The bar screen collects rags, sticks, and other large debris that need to be periodically raked off and disposed of. The aerated grit chamber consists of an 8' Ø chamber, diffusers, and one blower. Grit must be removed periodically by hand or with a pumper truck. To remove grit, flow must be diverted from the chamber. The pretreatment facility has reached its useful lifespan and is being removed as part of a 2014 upgrade to the Main Pump Station.

Wastewater is pumped via 14 larger pump station to a headworks building which contains an in-line grinder, an influent magnetic flowmeter, and automatic bypass piping. The influent then flows to an aerated treatment lagoon system. The wastewater receives secondary biological treatment in three aerated lagoons in series. Each lagoon can store up to 13.4 MG each, for a total of 26.8 MG of working storage volume.

Treated effluent is discharged to, and stored in, two storage lagoons. Treated effluent is held without air during periods when site conditions do not allow for land application. Under normal conditions, effluent will be stored from November to mid-May. The purpose of the storage lagoons is to store treated effluent until it can be discharged to the wooded spray fields.

The spray irrigation system draws wastewater effluent from the storage lagoons and discharges to four spray irrigation fields. The spray season is generally from May through October of each year, although this is dependent on the weather and soil conditions. The design of the facility requires that by the latter part of the spray season (Fall), the storage lagoons should be emptied. This provides storage over the late fall, winter and early spring seasons of each year, then will be land applied by spray irrigation over at least a five-month period between May and October.

Pursuant to *Regulations for Wastewater Operator Certification*, 06-096 CMR 531(2)(D) (effective May 8, 2006) the Department has made a best professional judgment that all municipally owned treatment facilities utilizing spray irrigation must be run by an operator with a Grade II license or higher. The Department has determined that for this facility a Grade II is appropriate.

2. LICENSE SUMMARY (cont'd)

Spray pumps deliver effluent to four spray irrigation fields, covering just less than 30 acres with 120 sprinkler heads. See **Attachment C** of this Fact Sheet for the layout of the spray fields. The acreage for each spray field is as follows:

Spray Field	Acreage
SF-1	6.65
SF-2	6.57
SF-3	7.90
SF-4	8.20

- e. Groundwater Monitoring Wells: PTG monitors the following groundwater monitoring wells for compliance with this WDL. In accordance with Special Condition K of the 2015 WDL required that the PTG repair or replace MW-1. The Department acknowledges that remedial actions were taken and MW-1 was replaced within 180 days after the permit was issued.

Monitoring Wells	Location
MW-1	South of Sprayfield #3, down gradient
MW-2	South of Sprayfield #4, down gradient
MW-4	North of Sprayfield #1, up gradient
MW-5	South of Storage lagoon #3, down gradient
MW-6	East of Storage lagoon #2, down gradient

- f. Lagoon Underdrain System: Outfalls 001B and 001C refer to Pit Valve E and Pit Valve L, respectively. Samples from Outfall 001B represent the underdrain system that is associated with the two 660,000-gallon aerated lagoons. Outfall 001C represents the underdrain system associated with the two 13.4 MG storage lagoons.

3. CONDITIONS OF LICENSE

Conditions of licenses, 38 M.R.S. § 414-A, requires that the effluent limitations prescribed for discharges, including, but not limited to, effluent toxicity, require 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. § 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. § 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 use of these waters, other than that occurring from natural phenomena.

5. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Monitoring Parameters: Lagoon effluent monitoring parameters established in this licensing action are biochemical oxygen demand (BOD₅), total suspended solids (TSS), nitrate-nitrogen, pH, and certain metals (arsenic, cadmium, chromium, copper, lead, nickel, and zinc). Monitoring for these parameters yields an indication of the effectiveness of the lagoon treatment process and the condition of the wastewater being applied. Lagoon effluent monitoring for all parameters except the metals must be conducted during the months of April, May, August, and October of each year. Lagoon effluent monitoring for the specified metals is only required to be performed during the fourth calendar quarter of the fourth year of the license. Well monitoring is required at the frequency specified in this licensing action, whether or not spray irrigation occurs.

Storage Lagoon Outfall (Outfall #001):

- a. Biochemical Oxygen Demand (BOD₅) and Total Suspended Solids (TSS): Monitoring for BOD₅ and TSS yields an indication of the condition of the wastewater being applied from the lagoon, of the degree of loading of organic material and the effectiveness of the spray-irrigation treatment process.

Previous licensing action established, and this licensing action is carrying forward, a daily maximum limit of 100 mg/L for BOD₅ and TSS, which is considered by the Department as a best practicable treatment (BPT) standard for spray irrigation facilities, along with a minimum frequency of once per month during the months of **April, May, August, and October** of each year.

The Department reviewed the DMRs that were submitted for the period March 2015–June 2020. A review of data indicates the following:

BOD₅ concentration (DMRs=13)

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Daily Maximum	100	6 – 18	11.3

TSS concentration (DMRs=14)

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Daily Maximum	100	2.5 – 53	14

- 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 minimum monitoring frequency of once per month during the months of **April, May, August, and October** of each year.

The Department reviewed the DMRs that were submitted for the period March 2015–June 2020. A review of data indicates the following:

Nitrate-nitrogen concentration (DMRs=14)

Value	Limit (mg/L)	Range (mg/L)	Average (mg/L)
Daily Maximum	Report	0.50 – 2.70	1.06

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

- c. pH: The previous licensing action established, and this license is carrying forward, a minimum and maximum pH limitations of 6.0–9.0 S.U., and a once per month monitoring requirement respectively.

The Department reviewed the DMRs that were submitted for the period March 2015–June 2020. A review of data indicates the following:

pH (DMRs=13)

Value	Limit (S.U.)	Range (mg/L)
Daily Maximum	6.0–9.0	7.1 – 9.35

- 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. The previous permit established a once per month monitoring frequency when discharging. In order to conduct monitoring when the lagoons are most susceptible to overflowing following spring and in preparation for winter storage volumes, this permitting action is reducing the monitoring frequency to twice a year in May and October.

The Department reviewed the DMRs that were submitted for the period March 2015–June 2020. A review of data indicates the following:

Storage Lagoon Freeboard Outfall #001 (DMRs=10)

Value	Minimum (feet)	Maximum (feet)	Mean (feet)
Report Daily Minimum	1.70	16	7.12

- e. Metals (Total): Total metals are required to be analyzed once per 5 years (1/5 Years) to determine the characteristics of the effluent from the storage lagoon. A summary of the results from grab samples taken on 10/31/2018 indicates the following:

Parameter	Daily Maximum Limit (µg/L)	Result (µg/L)
Arsenic	Report only	1.2
Cadmium		<0.2
Chromium		<1.0
Copper		2.81
Lead		<0.2
Nickel		1.26
Zinc		4.1

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

Spray Irrigation Fields Outfall #SF#1, SF#2, SF#3 and SF#4:

- f. Application Rate and Flow: The previous licensing action established a seasonal (April 15th to November 15th) weekly average application rate of 67,890 gallons per acre per week (2.5 inches/week) for the four Spray Irrigation Field SF#1, SF#2, SF#3 and SF#4 based on the characteristics of the in-situ soils. See **Attachment B** of this fact sheet for a diagram of the spray irrigation field locations. The previous license established a weekly maximum application rate of 1,990,096 gallons/week in order to allow for flexibility in managing the spray irrigation fields. The weekly maximum application rate was calculated using the following formula:

$$67,890 \text{ gallons/acre/week} \times 29.32 \text{ acres} = 1,990,535 \text{ gallons/week}$$

The Department reviewed the DMRs that were submitted for the period March 2015–June 2020. A review of data indicates the following:

Weekly Application Rate (DMRs=30)

Spray Field	Weekly Maximum (gallons/week)	Minimum (gallons/week)	Maximum (gallons/week)	Mean (gallons/week)
SF#1	451,469	91,598	1,790,000	383,676
SF#2	446,037	91,598	1,790,000	380,343
SF#3	536,331	103,207	2,054,500	426,155
SF#4	556,698	103,207	2,054,500	426,138

SF#1–For the period March 2015–June 2020 there were a total of 4 excursions from the weekly maximum of 451,469 gallons/week.

SF#2–For the period March 2015–June 2020 there were a total of 5 excursions from the weekly maximum of 446,037 gallons/week.

SF#3–For the period March 2015–June 2020 there were a total of 2 excursions from the weekly maximum of 536,331 gallons/week.

SF#4– For the period March 2015–June 2020 there were a total of 2 excursions from the weekly maximum of 536,331 gallons/week.

Total Monthly Flow (DMRs=30)

Spray Field	Monthly Total Limit (gallons)	Minimum (gallons)	Maximum (gallons)	Mean (gallons)
SF#1	Report	123,000	6,305,000	1,222,322
SF#2		123,000	6,305,000	1,222,322
SF#3		219,500	7,226,500	1,368,909
SF#4		219,500	11,226,500	1,502,243

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

- g. Ground Water Monitoring Wells: MW-1, MW-2, MW-4, MW-5, MW-6 and MW-7 (Compliance Tracking ID's: MW1A, MW2A, MW4A, MW5A, MW6A and MW7A, respectively) are monitored for the parameters listed in Special Condition A.3 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 March 2015–June 2020. A review of the data indicates:

Ground Water Monitoring Wells:

Metals

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	<1.0	<0.25	<1.0	0.<0.6	<0.2	1.04	<2.0
MW-2	<1.0	<0.2	<1.0	<0.6	0.46	1.80	<2.0
MW-4	<1.0	<0.2	<1.0	2.56	<0.2	0.64	2.3
MW-5	<1.0	<0.2	<1.0	<0.6	<0.2	0.92	<2.0
MW-6	<1.0	<0.2	<1.0	<0.6	<0.2	<0.4	<2.0

Depth to Water Level Below Land Surface (DMRs=11)

Monitoring Well ID	Limit	Minimum (feet)	Maximum (feet)	Mean (feet)
MW-1	Report Daily Maximum	1.7	8.2	3.0
MW-2		2.7	8.1	4.6
MW-4		4.5	8.1	5.7
MW-5		8.1	12.1	9.8
MW-6		-3.0	2.1	-1.0

Nitrate-Nitrogen (DMRs=11)

Monitoring Well ID	Limit	Minimum (mg/L)	Maximum (mg/L)	Mean (mg/L)
MW-1	10 mg/L	0.50	1.0	0.9
MW-2		<1.0	1.0	1.0
MW-4		<1.0	1.0	1.0
MW-5		<1.0	1.0	1.0
MW-6		1.0	2.0	1.3

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

Ground Water Monitoring Wells:

Specific Conductance (DMRs=11)

Monitoring Well ID	Limit	Minimum (umhos/cm)	Maximum (umhos/cm)	Mean (umhos/cm)
MW-1	Report Daily Maximum	56	203	103
MW-2		50	83	59
MW-4		235	435	296
MW-5		99	147	108
MW-6		148	217	163

Temperature (DMRs=11)

Monitoring Well ID	Limit	Minimum (°C)	Maximum (°C)	Mean (°C)
MW-1	Report Daily Maximum	5.2	13.1	9.3
MW-2		5.5	11.0	9.0
MW-4		5.4	11.0	8.5
MW-5		6.2	15.7	9.9
MW-6		6.3	11.6	9.0

pH (DMRs=11)

Monitoring Well ID	Limit	Minimum (S.U.)	Maximum (S.U.)
MW-1	Report Daily Maximum	5.5	7.2
MW-2		5.3	6.1
MW-4		6.8	7.4
MW-5		6.1	6.6
MW-6		6.1	6.9

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

Ground Water Monitoring Wells:

TSS (DMRs=11)

Monitoring Well ID	Limit	Minimum (mg/L)	Maximum (mg/L)	Mean (mg/L)
MW-1	Report Daily Maximum	1.0	5.2	2.5
MW-2		1.0	21.0	7.9
MW-4		1.0	7.6	3.5
MW-5		1.6	13.0	4.7
MW-6		1.2	9.2	3.8

During the 2009 licensee renewal the Licensee requested that monitoring wells 5 and 7 be eliminated as monitoring points in the 2009 license renewal because those wells are adjacent to the storage lagoon, and the only well down gradient is MW-6. The monitoring of the underdrain system is required to detect any leakage from the storage lagoons along with MW-6. Given that MW-5 and MW-7 are the only two background wells which can be used for comparison of natural conditions, the Department used best professional judgment and continue monitoring background at MW-5 and eliminate the requirement to monitor at MW-7.

Depth of the well below land surface monitoring in being established in this licensing action in order to observe sedimentation of the well and damage to the well.

Lagoon Underdrain System:

- h. Lagoon Underdrain Monitoring Requirements – Previous licensing action established, and this license is continuing lagoon underdrain 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 6 DMRs for the period of March 2015–June 2020. A review of the data indicates:

Ground Water Monitoring Wells:

Storage Lagoon Underdrain System (Outfall #001B)

Parameter	Minimum	Maximum	Average
Flow Rate (gal/minute)	0.5	2.0	0.75
Specific Conductance	163 umhos/cm	214 umhos/cm	187 umhos/cm
Temperature (°C)	14.3	20.0	17.6

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

Storage Lagoon Underdrain System (Outfall #001C)

Parameter	Minimum	Maximum	Average
Flow Rate (gal/minute)	0.5	5.0	2.75
Specific Conductance	170 umhos/cm	213 umhos/cm	191 umhos/cm
Temperature (°C)	5.5	11.0	8.8

6. 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.

7. PUBLIC COMMENTS

Public notice of this application was made in the *Calais Advertiser* newspaper on or about December 12, 2019. 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).

8. DEPARTMENT CONTACTS

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

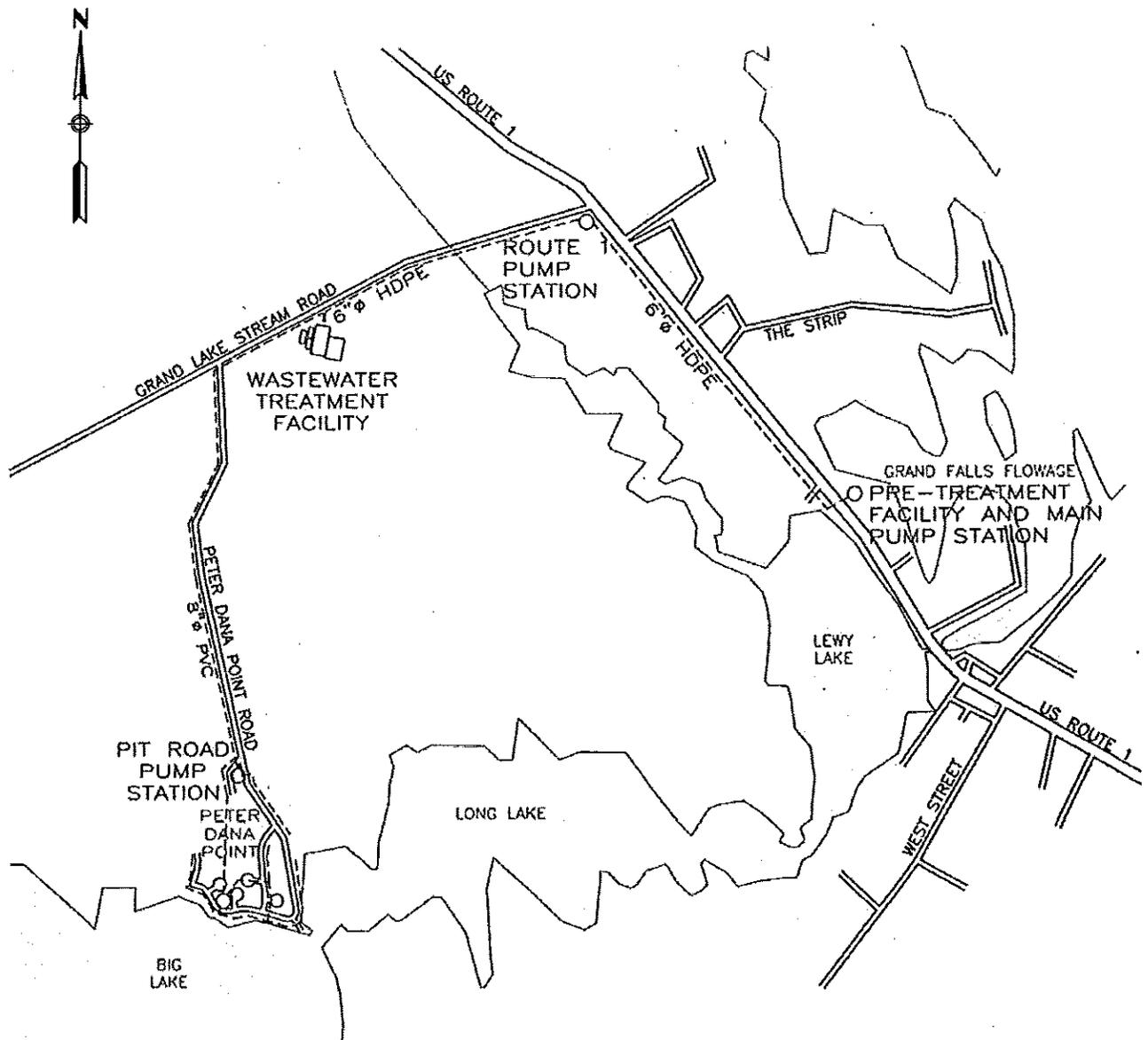
Aaron Dumont
Division of Water Quality Management
Bureau of Water Quality
Department of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017 Telephone: (207) 287-1939
e-mail: Aaron.A.Dumont@maine.gov

9. RESPONSE TO COMMENTS

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ATTACHMENT B

ATTACHMENT C



PASSAMAQUODDY TRIBAL GOVERNMENT
AT INDIAN TOWNSHIP

EXISTING WASTEWATER
COLLECTION SYSTEM

FIGURE 3



OLVER ASSOCIATES INC.
ENVIRONMENTAL ENGINEERS
290 MAIN STREET WINTERPORT, MAINE

ATTACHMENT D

