



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION



PAUL R. LEPAGE
GOVERNOR

PAUL MERCER
COMMISSIONER

April 5, 2016

Mr. Rick Knowlton
Maine Water Company
93 Industrial Park
Saco, Maine 04072
rlknowlton@mainewater.com

*Sent via electronic mail
Delivery confirmation requested*

**RE: *Maine Waste Discharge License (WDL) Application #W008214-5S-D-R
Reissued WDL Renewal***

Dear : Mr. Knowlton:

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.*"

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

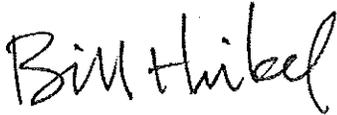
PORTLAND
312 CANCO ROAD
PORTLAND, MAINE 04103
(207) 822-6300 FAX: (207) 822-6303

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

Letter to Maine Water
April 6, 2016
Page 2 of 2

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

Sincerely,

A handwritten signature in black ink that reads "Bill Hinkel". The signature is written in a cursive, slightly slanted style.

Bill Hinkel
Division of Water Quality Management
Bureau of Water Quality
bill.hinkel@maine.gov
ph: 207.485.2281

Enc.

ec: Denise Behr, MDEP
Lori Mitchell, MDEP
Olga Vergara, USEPA
Marelyn Vega, USEPA
Sandy Mojica, USEPA
Richard Carvalho, USEPA



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

DEPARTMENT ORDER

IN THE MATTER OF

MAINE WATER COMPANY)	PROTECTION AND IMPROVEMENT
DRINKING WATER TREATMENT FACILITY)	OF WATERS
WARREN, KNOX COUNTY, MAINE)	
#MEU508214)	WASTE DISCHARGE LICENSE
WDL #W008214-5S-D-R)	RENEWAL
APPROVAL)	

In compliance with the applicable provisions of *Pollution Control*, 38 M.R.S. §§ 411 – 424-B, *Water Classification Program*, 38 M.R.S. §§ 464 – 470, and applicable rules of the Department of Environmental Protection (Department), the Department has considered the application of the MAINE WATER COMPANY (Maine Water), with its supportive data, agency review comments, and other related materials on file, and FINDS THE FOLLOWING FACTS:

APPLICATION SUMMARY

On February 1, 2016, the Department accepted as complete for processing, a renewal application from Maine Water for Waste Discharge License (WDL) #W008214-5S-C-R, which was issued to Aqua Maine, Inc. (former company name) on November 22, 2010 for a five-year term. The November 22, 2010 WDL authorized Aqua Maine, Inc. to discharge a monthly average of 6,000 gallons per day (GPD) of filter cleaning (backwash) wastewater from a drinking water treatment facility to ground waters, Class GW-A, in Warren, Maine.

LICENSE SUMMARY

This licensing action is carrying forward all the terms and conditions of the November 22, 2010 licensing action, except that it is:

1. Establishing a daily maximum discharge flow reporting requirement;
2. Eliminating the effluent monitoring and reporting requirements for total manganese and total iron based on results of effluent testing;
3. Revising the effluent minimum monitoring frequency requirement for total arsenic from once per month to once per calendar quarter based on results of effluent testing; and
4. Eliminating all influent monitoring and reporting requirements based on results of influent testing.

CONCLUSIONS

Based on the findings summarized in the attached and incorporated Fact Sheet dated February 29, 2016, and subject to the special and standard conditions that follow, 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) 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 license*, 38 M.R.S. § 414-A(1)(D).

ACTION

Based on the findings and conclusions as stated above, the Department APPROVES the above noted application of MAINE WATER COMPANY to discharge a monthly average of 6,000 gallons per day of filter cleaning (backwash) wastewater from a drinking water treatment plant to ground waters, Class GW-A, in Warren, Maine, SUBJECT TO THE ATTACHED CONDITIONS, and all applicable standards and regulations including:

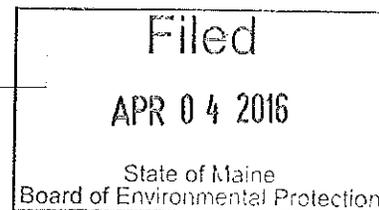
1. *Standard Conditions of Approval for POTW Waste Discharge Licenses*, revised July 16, 1996, copy attached.
2. The attached Special Conditions, including any effluent limitations and monitoring requirements.
3. This license and the authorization to discharge become effective upon the date of signature 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 C.M.R. 2(21)(A) (amended October 19, 2015)]

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

DONE AND DATED AT AUGUSTA, MAINE, THIS 1ST DAY OF April 2016.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: Michael Kuhns
for PAUL MERCER, Commissioner



Date filed with Board of Environmental Protection _____

Date of initial receipt of application: February 1, 2016

Date of application acceptance: February 1, 2016

This Order prepared by Bill Hinkel, BUREAU OF WATER QUALITY

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. The licensee is authorized to discharge **drinking water filter backwash wastewater** via **Outfall #001A** to ground waters in Warren, Maine. Such discharges are limited and must be monitored by the licensee as specified below⁽¹⁾:

Effluent Characteristic	Discharge Limitations				Minimum Monitoring Requirements	
	<u>Monthly Average</u> as specified	<u>Daily Maximum</u> as specified	<u>Monthly Average</u> as specified	<u>Daily Maximum</u> as specified	<u>Measurement Frequency</u> as specified	<u>Sample Type</u> as specified
Flow <i>[50050]</i>	6,000 GPD <i>[07]</i>	Report GPD <i>[07]</i>	---	---	1/Month <i>[01/30]</i>	Measured <i>[MS]</i>
Total Arsenic <i>[01002]</i>	---	Report lbs./day <i>[26]</i>	---	Report µg/L <i>[28]</i>	1/Quarter <i>[01/90]</i>	Grab <i>[GR]</i>
Settleable Solids <i>[00545]</i>	---	---	---	0.3 ml/L <i>[25]</i>	1/Quarter <i>[01/90]</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 Page 5 of this license for applicable footnotes.

SPECIAL CONDITIONS

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

FOOTNOTES

1. **Sampling** – All effluent monitoring must be conducted during the midpoint of a filter backwash discharge event and from a sampling port installed on the effluent line exiting the flush tank as to be representative of end-of-pipe effluent characteristics. 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) licensed pursuant to *Waste discharge licenses*, 38 M.R.S. § 413 are subject to the provisions and restrictions of *Maine Comprehensive and Limited Environmental Laboratory Certification Rules*, 10-144 C.M.R. 263 (effective date April 1, 2010). 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).

B. NARRATIVE EFFLUENT LIMITATIONS

1. The licensee must not discharge effluent that contains materials in concentrations or combinations which would impair the uses designated by the classification of the ground water.
2. The licensee must not discharge effluent that lowers the quality of any classified body of water below such classification, or lowers the existing quality of any body of water if the existing quality is higher than the classification.

C. AUTHORIZED DISCHARGES

The licensee is authorized to discharge only in accordance with the licensee's General Application for Waste Discharge License, accepted for processing on February 1, 2016; the terms and conditions of this license; and only from Outfall #001A. Discharges of wastewater from any other point source(s) are not authorized under this license, and must be reported in accordance with Standard Condition 4, *Non-Compliance Notification*, of this license.

SPECIAL CONDITIONS

D. NOTIFICATION REQUIREMENTS

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.
2. For the purposes of this section, adequate notice must include information on:
 - a. The quality or quantity of wastewater introduced to the wastewater collection and treatment system; and
 - b. Any anticipated impact of the change in the quantity or quality of the wastewater to be discharged from the treatment system.

E. MONITORING AND REPORTING

Monitoring results obtained during the previous month must be summarized for each month and reported on separate DMR forms provided by the Department and **postmarked on or before the thirteenth (13th) day of the month or hand-delivered to the Department's Regional Office such that the DMRs are received by the Department on or before the fifteenth (15th) day of the month** following the completed reporting period. A signed copy of the DMR and all other reports required herein must be submitted to the Department assigned inspector (unless otherwise specified by the Department) at the following address:

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

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 **15th day of the month** following the completed reporting period. Hard copy documentation submitted in support of the eDMR must be postmarked on or before the **thirteenth (13th) day of the month or hand-delivered** to the Department's Regional Office such that it is received by the Department on or before the fifteenth (15th) day of the month following the completed reporting period. Electronic documentation in support of the eDMR must be submitted not later than close of business on the 15th day of the month following the completed reporting period.

SPECIAL CONDITIONS

F. OPERATIONS AND MAINTENANCE (O&M) PLAN

The licensee must have a current written Operation & Maintenance (O&M) Plan for the facility. The plan must provide a systematic approach by which the licensee must at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the 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 waste water treatment facility to ensure that it is up-to-date. The O&M Plan must be kept on-site at all times and made available to Department personnel upon request.

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

G. REOPENING OF LICENSE FOR MODIFICATION

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

H. 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.

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARD CONDITIONS OF
INDUSTRIAL WASTE DISCHARGE LICENSES

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MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARD CONDITIONS OF
INDUSTRIAL WASTE DISCHARGE LICENSES

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, wastewater 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 onshore 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 noncompliance, whether or not such noncompliance is due to factors beyond his control, such as an accident, equipment breakdown, labor disputes or natural disaster.

2. TREATMENT PLANT OPERATOR

The Treatment Facility must be operated by a person holding a Grade certificate pursuant to 32 M.R.S.A., Section 4171 et seq. All proposed contracts for facility operation by any person must

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARD CONDITIONS OF
INDUSTRIAL WASTE DISCHARGE LICENSES

be approved by the department before the licensee may engage the services of the contract operator.

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 wastewater collection, treatment and/or control facilities.
- c. All necessary waste treatment facilities will be installed and operational prior to the discharge of any wastewaters.
- d. Final plans and specifications must be submitted to the staff of 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 maximum mixing and dispersion of the wastewaters will be achieved as rapidly as possible.

4. 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 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. The sampling, preservation, handling, and analytical methods used must conform with Standard Methods for the Examination of Water and Wastewaters, American Public Health Association, 1015 18th 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.

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARD CONDITIONS OF
INDUSTRIAL WASTE DISCHARGE LICENSES

c. Reporting

- (1) The results of the above monitoring requirements shall be reported on reporting forms supplied by the department in the units specified at a frequency of once:

monthly
- (2) All reports shall be submitted to the Department by not later than the tenth of the month following the end of the monitoring period.
- (3) 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 analyses; (d) the analytical techniques/methods used; including sampling, handling, and preservation techniques; and (e) the results of all required analyses.

d. All reports shall be signed by:

- (1) In the case of corporations, by 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, by a general partner or duly authorized representative.
- (3) In the case of a sole proprietorship, the proprietor or duly authorized representative.
- (4) All monitoring reports and future correspondence regarding monitoring facilities should be directed to:

Bureau of Water Quality Control
Department of Environmental Protection
State House Station #17
Augusta, Maine 04333

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

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARD CONDITIONS OF
INDUSTRIAL WASTE DISCHARGE LICENSES

- 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 noncompliance; 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.

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 wastewater 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 time 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.

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARD CONDITIONS OF
INDUSTRIAL WASTE DISCHARGE LICENSES

8. RECORDS RETENTION

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

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 wastewaters 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

In order to maintain compliance with the effluent limitations and prohibitions of this license, the licensee shall either:

- a. maintain an alternative power source sufficient to operate the wastewater control facilities; or

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION STANDARD CONDITIONS OF
INDUSTRIAL WASTE DISCHARGE LICENSES

- b. Halt, reduce or otherwise control production and/or all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.

13. SPILL PREVENTION AND CONTAINMENT

The licensee shall within six (6) months of the effective date of this license submit to the Department of Environmental Protection's spill prevention plan. Said plan shall delineate methods and measures to be taken to prevent and or contain any spills of pulp, chemicals, oils, or other contaminants and shall specify means of disposal and/or treatment to be practiced.

14. CONNECTION TO MUNICIPAL TREATMENT SYSTEM

All wastewaters designated by the Department of Environmental Protection as treatable in a municipal treatment system will be consigned to a municipal treatment system when said system becomes available. This waste discharge license will automatically expire 90 days after a municipal facility becomes available unless this time is extended by the Department, in writing, for good cause shown.

15. PRETREATMENT

- A. The licensee shall comply with all Federal Statutes, regulations, and conditions of permits applicable to its discharge of wastewaters, including, but not limited to, those requiring the installation of pretreatment facilities or establishment of pretreatment programs.

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 wastewater, either by act or by design, from any portion of a treatment facility or conveyance system.

MAINE WASTE DISCHARGE LICENSE

FACT SHEET

DATE: FEBRUARY 29, 2016

WASTE DISCHARGE LICENSE: #W008214-5S-D-R
COMPLIANCE TRACKING NUMBER: #MEU508214

NAME AND ADDRESS OF APPLICANT:

**MAINE WATER COMPANY
93 INDUSTRIAL PARK ROAD
SACO, MAINE 04072**

NAME AND ADDRESS WHERE DISCHARGE OCCURS:

**MAINE WATER COMPANY
98 PATTERSON MILL ROAD
WARREN, MAINE 04865**

COUNTY: KNOX

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

**COGNIZANT OFFICIAL AND TELEPHONE NUMBER: MR. RICK KNOWLTON
VICE PRESIDENT, OPERATIONS
rlknowlton@mainewater.com
(800) 287-1643**

1. APPLICATION SUMMARY

Application: On February 1, 2016, the Department of Environmental Protection (Department) accepted as complete for processing, a renewal application from Maine Water Company (Maine Water) for Waste Discharge License (WDL) #W008214-5S-C-R, which was issued to Aqua Maine, Inc. (former company name) November 22, 2010 for a five-year term. The November 22, 2010 WDL authorized Aqua Maine, Inc. to discharge a monthly average of 6,000 gallons per day (GPD) of filter cleaning (backwash) wastewater from a drinking water treatment facility to ground waters, Class GW-A, in Warren, Maine.

2. LICENSE SUMMARY

- a. Terms and Conditions: This licensing action is carrying forward all the terms and conditions of the November 22, 2010 licensing action, except that it is:
1. Eliminating the effluent monitoring and reporting requirements for total manganese and total iron based on results of effluent testing;
 2. Revising the effluent minimum monitoring frequency requirement for total arsenic from once per month to once per calendar quarter based on results of effluent testing; and
 3. Eliminating all influent monitoring and reporting requirements based on results of influent testing.
- b. Facility History: This section provides a summary of significant licensing actions that have been completed for Maine Water's Warren Village Well facility.

April 25, 2005 – The Department issued (initial) WDL #W008214-5S-A-N to Aqua Maine, Inc. for the monthly average discharge of up to 1,250 gallons per day (GPD) of filter cleaning (backwash) wastewater from a drinking water treatment facility to ground waters in Warren. The April 25, 2005 expired on April 25, 2010.

October 22, 2007 – The Department issued WDL Modification #W008214-5S-B-M to Aqua Maine, Inc. thereby modifying the monthly average discharge flow limitation from 1,250 GPD to 6,000 GPD based on the as-built design capacity of the subsurface wastewater disposal system.

November 22, 2010 – The Department issued WDL #W008214-5S-C-R to Aqua Maine, Inc. for the monthly average discharge of 6,000 gallons per day (GPD) of filter cleaning (backwash) wastewater from a drinking water treatment facility to ground waters in Warren. The license expired on November 22, 2015.

August 29, 2014– Aqua Maine, Inc. amended the name of the company to Maine Water Company.

February 1, 2016 – Maine Water Company submitted a General Application to the Department for the renewal of WDL #W008214-5S-C-R. The application was accepted for processing on February 1, 2016, and was assigned WDL #W008214-5S-D-R.

- c. Source Description: Maine Water Company currently utilizes two ground water wells – a 300-foot deep bedrock well and a 187-foot deep drilled well – located on a 19+/- acre site off Patterson Mill Road in Warren to supply potable water to customers in the village area of the Town of Warren. The Maine Drinking Water Program identifies the public water supply (PWS) as #ME0091565 and has identified the raw water as containing arsenic levels that are higher than the MCL of 10 parts per billion ($\mu\text{g/L}$). In order to comply with the revised MCL, Aqua Maine, Inc. installed filtration equipment at this facility in 2005 to reduce arsenic levels in the public water supply to less than 10 $\mu\text{g/L}$. Historically, untreated well water has an arsenic concentration of 15 $\mu\text{g/L}$. The filtration equipment at the facility produces a waste stream from backwashing the filters to remove solids and to regenerate the filter media.

2. LICENSE SUMMARY (cont'd)

The number of backwashes varies per month and typically generates approximately 3,700 gallons of wastewater per month.

A map showing the location of the treatment facility is included as Fact Sheet Attachment A.

- d. Wastewater Treatment: The backwash water is first directed to a 7,000-gallon flush/settling tank. After settling, the supernatant from the tank is pumped to a subsurface chamber system designed to accommodate flows up to 6,000 gallons per day. Solids are removed from the flush/settling tank periodically by a septic hauler.

Details regarding the subsurface disposal system are available in the Department's administrative record and were included as Fact Sheet Attachment B of the April 25, 2005 WDL.

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 U.S. Clean Water Act, and ensure that the receiving waters attain the State water quality standards as described in Maine's Water Classification System.

4. RECEIVING WATER QUALITY STANDARDS

Classification of ground water, 38 M.R.S. § 470 states "All ground water shall 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 shall be the highest classification and shall be of such quality that it can be used for public drinking water supplies. These waters shall 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 & MONITORING REQUIREMENTS

- a. Flow: The previous licensing action established a monthly average discharge flow limitation of 6,000 gallons per day (GPD) based on the quantity of wastewater generated by the installed treatment system, which is being carried forward in this licensing action.

A summary of the monthly average discharge flow data as reported on the Discharge Monitoring Reports (DMRs) submitted to the Department for Outfall #001A for the period December 2010 through December 2015 demonstrates that discharge flow has ranged from 426 GPD to 4,002 GPD with an arithmetic mean of 2,458 GPD (#DMRs = 61).

This licensing action is carrying forward the minimum monitoring frequency requirement for discharge flow of once per month.

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

- b. Settleable Solids: The previous licensing action established a daily maximum technology-based concentration limit of 0.3 ml/L for settleable solids based on a Department best professional judgment determination of best practicable treatment, which is consistent with the limit established for other drinking water facility discharges. A summary of settleable solids data as reported on the DMRs for the period of December 2010 through December 2015 demonstrates the daily maximum settleable solids concentration discharge has been in compliance with the 0.3 ml/L limit (0.1 ml/L or less) 100% of the time during said monitoring period (#DMRs = 21). The minimum monitoring frequency requirement of once per calendar quarter is being carried forward based on Department best professional judgment.
- c. Total Iron: The treatment system utilized by Maine Water Company is designed to reduce iron in the raw ground water. The previous licensing action established a daily maximum concentration reporting requirement for total iron.

A summary of the effluent total iron data as reported on the DMRs submitted to the Department for the period December 2010 through December 2015 demonstrates that effluent total iron has ranged from 10 µg/L to 2,250 µg/L with an arithmetic mean of 293 µg/L (#DMRs = 61).

The U.S. Environmental Protection Agency (USEPA) has established National Secondary Drinking Water Regulations, which are non-mandatory water quality standards for 15 contaminants. USEPA does not enforce these "secondary maximum contaminant levels" (SMCLs). They are established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL. The Maine Department of Health and Human Services has adopted these same standards.

The SMCL for iron is 0.3 mg/L (300 µg/L). The long-term average effluent concentration prior to treatment in the subsurface wastewater disposal system is 293 µg/L. The Department is making a best professional judgment determination based on a statistically significant data set that the treated effluent is not anticipated to cause or contribute to ground water levels of iron to exceed the SMCL of 0.3 mg/L. Consequently, the Department finds that iron is not a pollutant of concern associated with this discharge that requires regulation to ensure ground water quality standards are achieved. Therefore, this licensing action is eliminating the monitoring and reporting requirements for total iron.

- d. Total Manganese: The treatment system utilized by Maine Water Company is designed to reduce manganese in the raw ground water. The previous licensing action established a daily maximum concentration reporting requirement for total manganese.

A summary of the effluent total manganese data as reported on the DMRs submitted to the Department for the period December 2010 through December 2015 demonstrates that effluent total manganese has ranged from 10 µg/L to 210 µg/L with an arithmetic mean of 49 µg/L (#DMRs = 61).

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

The U.S. Environmental Protection Agency (USEPA) has established National Secondary Drinking Water Regulations, which are non-mandatory water quality standards for 15 contaminants. USEPA does not enforce these "secondary maximum contaminant levels" (SMCLs). They are established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL. The Maine Department of Health and Human Services has adopted these same standards.

The SMCL for manganese is 0.5 mg/L (500 µg/L). The long-term average effluent concentration prior to treatment in the subsurface wastewater disposal system is 49 µg/L. The Department is making a best professional judgment determination based on a statistically significant data set that the treated effluent is not anticipated to cause or contribute to ground water levels of manganese to exceed the SMCL of 0.5 mg/L. Consequently, the Department finds that manganese is not a pollutant of concern associated with this discharge that requires regulation to ensure ground water quality standards are achieved. Therefore, this licensing action is eliminating the monitoring and reporting requirements for total manganese.

- e. Total Arsenic: The installed treatment system is designed to reduce raw water total arsenic levels to less than 10 µg/L. The U.S. Environmental Protection Agency (USEPA) has established National Primary Drinking Water Regulations (NPDWRs or primary standards), which are legally enforceable standards that apply to public water systems. Primary standards protect public health by limiting the levels of contaminants in drinking water. The Maine Department of Health and Human Services has adopted these same standards. The previous licensing action established effluent daily maximum concentration and mass reporting requirements and a minimum monitoring frequency requirement of once per month (1/Month) for total arsenic.

A summary of the effluent total arsenic data as reported on the DMRs submitted to the Department for the period December 2010 through December 2015 demonstrates that effluent total arsenic has ranged from 3.5 µg/L to 30 µg/L with an arithmetic mean of 8 µg/L (#DMRs = 61).

The NPDWR for arsenic is 0.01 mg/L (10 µg/L). The long-term average effluent concentration prior to treatment in the subsurface wastewater disposal system is 8 µg/L. The Department is making a best professional judgment determination based on a statistically significant data set that the licensee should continue to monitor and report effluent arsenic levels since the arsenic standard is a human health-based enforceable numeric standard for which compliance is required. Therefore, this licensing action is carrying forward the daily maximum concentration and mass reporting requirements for total arsenic but is revising the minimum monitoring frequency requirement from once per month to once per calendar quarter based on the availability of a statistically significant data set characterizing the effluent quality.

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

- f. Influent Monitoring: The previous licensing action established influent monitoring to characterize ground water used to produce treated drinking water. The Department has sufficient information at this time and has not identified any concerns that necessitate additional or further regulation. Therefore, influent monitoring and reporting requirements for total manganese, total iron and total arsenic are being eliminated in this licensing action.

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 *Bangor Daily* newspaper on or about February 1, 2016. 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 shall 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 C.M.R. 522 (effective January 12, 2001).

8. DEPARTMENT CONTACTS

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

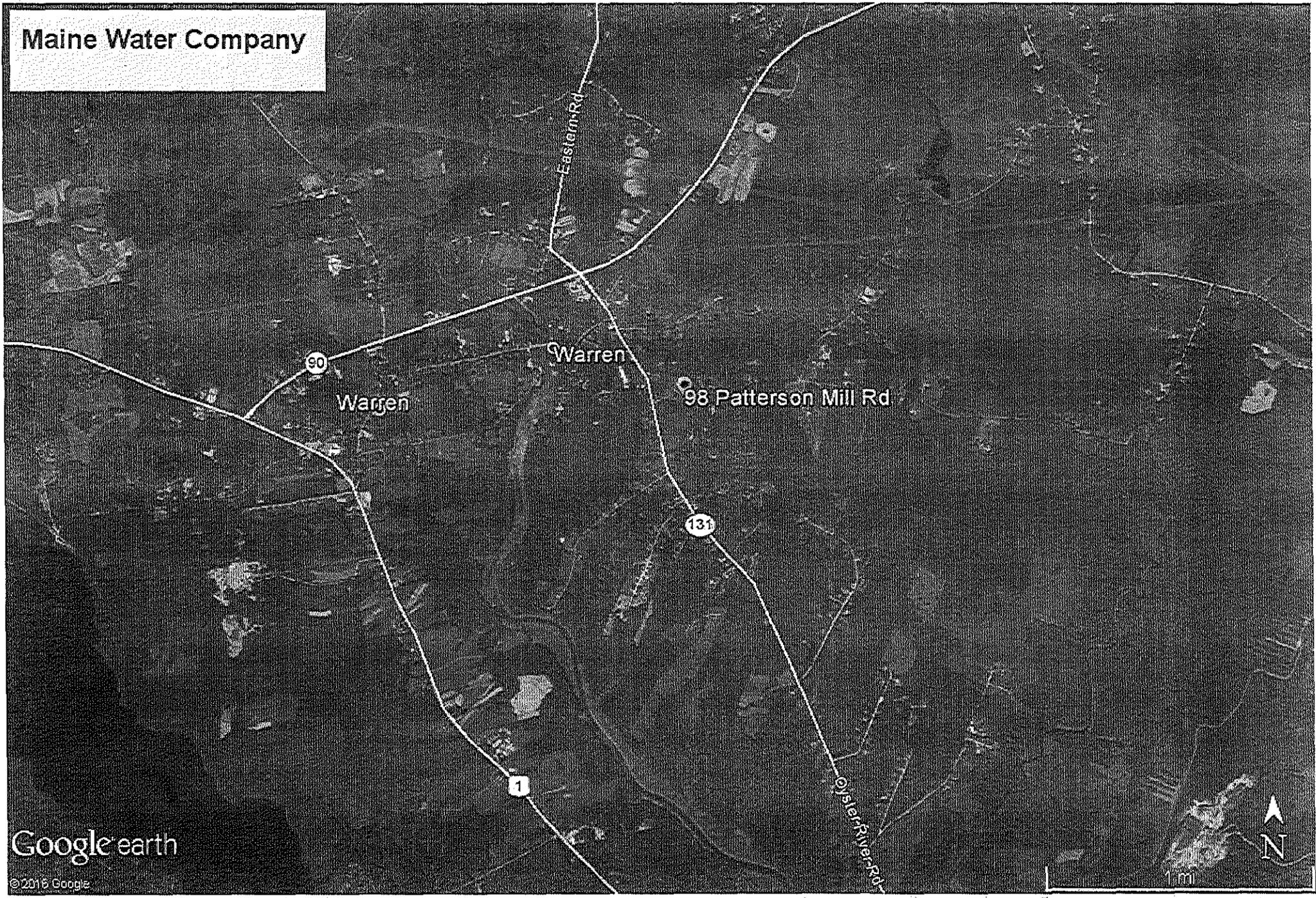
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9. RESPONSE TO COMMENTS

During the period of February 29, 2016 through the effective date of this final agency action, the Department solicited comments on the draft WDL. The Department did not receive substantive comments on the draft license, except for a request from the Department Compliance Inspector to include a daily maximum discharge flow reporting requirement to assist in evaluating treatment system use and performance. The final license has been revised to include such a reporting requirement. It is noted that minor typographical and grammatical errors identified in comments were not summarized in this section, but were corrected, where necessary, in the final license.

ATTACHMENT A

Maine Water Company



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