



STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JOHN ELIAS BALDACCI  
GOVERNOR

BETH NAGUSKY  
ACTING COMMISSIONER

November 22, 2010

Mr. Richard Knowlton  
Vice President, Operations  
Aqua Maine, Inc.  
P.O. Box 310  
West Rockport, ME 04865  
[rlknowlton@aquaamerica.com](mailto:rlknowlton@aquaamerica.com)

**RE: Permit Compliance System Tracking (PCS) #MEU508214  
Maine Waste Discharge License (WDL) Application #W008214-5S-C-R  
FINALIZED WDL**

Dear Mr. Knowlton:

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

Any interested person aggrieved by a Department determination made pursuant to applicable regulations, may appeal the decision following the procedures described in the attached DEP FACT SHEET entitled "*Appealing a Commissioner's Licensing Decision.*"

If you have any questions regarding the matter, please feel free to call me at 485-2281.

Sincerely,

Bill Hinkel  
Division of Water Quality Management  
Bureau of Land and Water Quality  
[bill.hinkel@maine.gov](mailto:bill.hinkel@maine.gov)

Enc.

cc: Denise Behr, DEP    Lori Mitchell, DEP    Sandy Mojica, USEAP    File # W8214

AUGUSTA  
17 STATE HOUSE STATION  
AUGUSTA, MAINE 04333-0017  
(207) 287-3901 FAX: (207) 287-3435  
RAY BLDG., HOSPITAL ST.

BANGOR  
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312 CANCO ROAD  
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1235 CENTRAL DRIVE, SKYWAY PARK  
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STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
17 STATE HOUSE STATION  
AUGUSTA, ME 04333

DEPARTMENT ORDER

**IN THE MATTER OF**

AQUA MAINE, INC.	)	PROTECTION AND IMPROVEMENT
DRINKING WATER TREATMENT FACILITY	)	OF WATERS
WARREN, KNOX COUNTY, MAINE	)	
PCS TRACKING #MEU508214	)	WASTE DISCHARGE LICENSE
WDL #W008214-5S-C-R	)	<b>RENEWAL</b>
<b>APPROVAL</b>	)	

Pursuant to the provisions of *Conditions of licenses*, 38 M.R.S.A. § 414-A, and applicable regulations, the Maine Department of Environmental Protection (Department) has considered the application of AQUA MAINE, INC., (applicant or licensee) with its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

**APPLICATION SUMMARY**

The applicant has applied to the Department for renewal of Waste Discharge License (WDL) #W008214-5S-A-N which was issued on April 25, 2005, and WDL Modification #W008214-5S-B-M, which was issued on October 22, 2007. The 4/25/05 WDL and 10/22/07 WDL Modification expired concurrently on April 25, 2010. The 4/25/05 WDL and 10/22/07 WDL Modification authorized the monthly average discharge of up to 6,000 gallons per day (GPD) of filter cleaning (backwash) wastewater from a drinking water treatment plant to ground waters, Class GW-A, in Warren, Maine.

**LICENSE SUMMARY**

**This licensing action is similar to the 4/25/05 WDL and 10/22/07 WDL Modification in that it is:**

1. Carrying forward a monthly average discharge flow limitation of 6,000 GPD;
2. Carrying forward effluent monitoring and reporting requirements for total manganese, total iron and total arsenic; and
3. Carrying forward a daily maximum technology-based effluent concentration limit of 0.3 ml/L for settleable solids.

**This licensing action is significantly different than the 4/25/05 WDL and 10/22/07 WDL Modification in that it is:**

1. Eliminating the monthly total discharge flow reporting requirement;
2. Establishing influent monitoring and reporting requirements for total manganese, total iron and total arsenic;
3. Eliminating the pH monitoring and reporting requirement; and
4. Revising the minimum monitoring frequency requirement for settleable solids from once per month to once per calendar quarter.

## CONCLUSIONS

BASED on the findings in the attached Fact Sheet dated November 22, 2010, and subject to the Conditions listed below, the Department makes the following CONCLUSIONS:

1. The discharge, either by itself or in combination with other discharges, will not lower the quality of any classified body of water below such classification.
2. The discharge, either by itself or in combination with other discharges, will not lower the quality of any unclassified body of water below the classification which the Department expects to adopt in accordance with state law.
3. The provisions of the State's antidegradation policy, *Classification of Maine waters*, 38 M.R.S.A. § 464(4)(F), will be met, in that:
  - (a) Existing in-stream water uses and the level of water quality necessary to protect and maintain those existing uses will be maintained and protected;
  - (b) Where high quality waters of the State constitute an outstanding national resource, that water quality will be maintained and protected;
  - (c) The standards of classification of the receiving water body are met or, where the standards of classification of the receiving water body are not met, the discharge will not cause or contribute to the failure of the water body to meet the standards of classification;
  - (d) Where the actual quality of any classified receiving water body exceeds the minimum standards of the next highest classification that higher water quality will be maintained and protected; and
  - (e) Where a discharge will result in lowering the existing 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 discharge will be subject to effluent limitations that require application of best practicable treatment as defined in 38 M.R.S.A. § 414-A(1)(D).

**ACTION**

THEREFORE, the Department APPROVES the above noted application of AQUA MAINE, INC. to discharge a monthly average of up to 6,000 GPD of filter backwash wastewater from a drinking water treatment facility to ground waters, Class GW-A, in Warren, Maine, SUBJECT TO THE ATTACHED CONDITIONS, and all applicable standards and regulations including:

1. The attached Special Conditions, including any effluent limitations and monitoring requirements.
2. *Standard Conditions of Approval for POTW Waste Discharge Licenses*, revised July 16, 1996, copy attached.
3. This license becomes effective upon the date of signature below and expires at midnight five (5) years thereafter.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: March 30, 2010  
Date of application acceptance: March 30, 2010  
This Order prepared by Bill Hinkel, BUREAU OF LAND & WATER QUALITY

**SPECIAL CONDITIONS**

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

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

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
<b>Flow</b> <i>[50050]</i>	6,000 GPD <i>[07]</i>	---	---	---	1/Month <i>[01/30]</i>	Measured <i>[MS]</i>
<b>Total Manganese</b> <i>[01055]</i>	---	---	---	Report ug/L <i>[28]</i>	1/Month <i>[01/30]</i>	Grab <i>[GR]</i>
<b>Total Iron</b> <i>[01045]</i>	---	---	---	Report ug/L <i>[28]</i>	1/Month <i>[01/30]</i>	Grab <i>[GR]</i>
<b>Total Arsenic</b> <i>[01002]</i>	---	Report lbs./day <i>[26]</i>	---	Report ug/L <i>[28]</i>	1/Month <i>[01/30]</i>	Grab <i>[GR]</i>
<b>Settleable Solids</b> <i>[00545]</i>	---	---	---	0.3 ml/L <i>[25]</i>	1/Quarter <i>[01/90]</i>	Grab <i>[GR]</i>

2. **Influent Monitoring:** The licensee required to conduct influent monitoring of the raw ground water at the raw water feed from the production well (identified as **Outfall #002A**) as specified below<sup>(1)</sup>:

Influent Characteristic	Reporting Requirements				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
<b>Total Manganese</b> <i>[01055]</i>	---	---	---	Report ug/L <i>[28]</i>	1/Month <i>[01/30]</i>	Grab <i>[GR]</i>
<b>Total Iron</b> <i>[01045]</i>	---	---	---	Report ug/L <i>[28]</i>	1/Month <i>[01/30]</i>	Grab <i>[GR]</i>
<b>Total Arsenic</b> <i>[01002]</i>	---	Report lbs./day <i>[26]</i>	---	Report ug/L <i>[28]</i>	1/Month <i>[01/30]</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** shall 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. **Influent monitoring** shall be conducted from the well water feed prior to filtration. Changes to the influent and effluent sampling locations may be approved by the Department in writing.

Sampling and analysis must be conducted in accordance with; a) methods approved in Title 40 *Code of Federal Regulations* (40 CFR) Part 136, b) alternative methods approved by the Department in accordance with the procedures in 40 CFR Part 136, or c) as otherwise specified by the Department. Samples that are sent out for analysis shall be analyzed by a laboratory certified by the State of Maine's Department of Human Services. Samples that are sent to another POTW licensed pursuant to *Waste discharge licenses*, 38 M.R.S.A. § 413 are subject to the provisions and restrictions of the *Maine Comprehensive and Limited Environmental Laboratory Certification Rules*, 10-144 CMR 263 (last amended February 13, 2000). Laboratory facilities that analyze compliance samples in-house are subject to the provisions and restrictions of 10-144 CMR 263.

All analytical test results shall be reported to the Department including results which are Detected below the respective reporting limits (RLs) specified by the Department or as specified by other approved test methods. If a non-detect analytical test result is below the respective RL, the concentration result shall be reported as <Y where Y is the detection limit achieved by the laboratory for each respective parameter. Reporting a value of <Y that is greater than an established RL is not acceptable and will be rejected by the Department. For mass, if the analytical result is reported as <Y or if a detectable result is less than a RL, report a <X lbs/day, where X is the parameter specific limitation established in the permit.

### B. NARRATIVE EFFLUENT LIMITATIONS

1. The effluent shall not contain materials in concentrations or combinations which would impair the uses designated by the classification of the ground water.
2. The effluent must not lower the quality of any classified body of water (ground water is a classified body of water under Title 38, Section 465-C) below such classification, or lower 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: 1) in accordance with the licensee's General Application for Waste Discharge License, accepted for processing on March 30, 2010; 2) in accordance with the terms and conditions of this license; and 3) via Outfall #001A. Discharges of wastewater from any other point source are not authorized under this license, and shall be reported in accordance with Standard Condition 4, *Non-Compliance Notification*, of this license.

## SPECIAL CONDITIONS

### D. NOTIFICATION REQUIREMENT

In accordance with Standard Condition D, the licensee shall notify the Department of any substantial change in the volume or character of pollutants being introduced into the wastewater collection and treatment system. For the purposes of this section, notice regarding substantial change shall include information on:

1. the quality and quantity of wastewater introduced to the wastewater collection and treatment system; and
2. any anticipated impact caused by 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 shall be summarized for each month and reported on separate Discharge Monitoring Report (DMR) forms provided by the Department **and shall be postmarked by the thirteenth (13<sup>th</sup>) day of the month or hand-delivered to a Department Regional Office such that the DMRs are received by the Department by the fifteenth (15<sup>th</sup>) day of the month following the completed reporting period.** A signed copy of the DMR and all other reports required herein shall be submitted, unless otherwise specified, to the Department's facility inspector at:

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

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

## **SPECIAL CONDITIONS**

### **F. OPERATION & MAINTENANCE (O&M) PLAN**

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

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

### **G. REOPENING OF LICENSE FOR MODIFICATIONS**

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 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.

**MAINE WASTE DISCHARGE LICENSE**

**FACT SHEET**

DATE: **NOVEMBER 22, 2010**

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

NAME AND ADDRESS OF APPLICANT:

**AQUA MAINE, INC.  
P.O. BOX 310  
WEST ROCKPORT, ME 04865**

COUNTY: **KNOX**

NAME AND ADDRESS WHERE DISCHARGE OCCURS:

**AQUA MAINE, INC.  
98 PATTERSON MILL ROAD  
WARREN, ME 04865**

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

COGNIZANT OFFICIAL AND TELEPHONE NUMBER: **MR. RICK KNOWLTON  
VICE PRESIDENT, OPERATIONS  
[rlknowlton@aquaamerica.com](mailto:rlknowlton@aquaamerica.com)  
(207) 236-8428**

**1. APPLICATION SUMMARY**

Application: Aqua Maine, Inc. (applicant or licensee) has applied to the Department of Environmental Protection (Department) for renewal of Waste Discharge License (WDL) #W008214-5S-A-N which was issued on April 25, 2005 and WDL Modification #W008214-5S-B-M, which was issued on October 22, 2007. The 4/25/05 WDL and 10/22/07 WDL Modification expired concurrently on April 25, 2010. The 4/25/05 WDL and 10/22/07 WDL Modification authorized the monthly average discharge of up to 6,000 gallons per day (GPD) of filter cleaning (backwash) wastewater from a drinking water treatment plant to ground waters, Class GW-A, in Warren, Maine.

## 2. LICENSE SUMMARY

a. Terms and Conditions: **This licensing action is similar to the 4/25/05 WDL and 10/22/07 WDL Modification in that it is:**

1. Carrying forward a monthly average discharge flow limitation of 6,000 GPD;
2. Carrying forward effluent monitoring and reporting requirements for total manganese, total iron and total arsenic; and
3. Carrying forward a daily maximum technology-based effluent concentration limit of 0.3 ml/L for settleable solids.

**This licensing action is significantly different than the 4/25/05 WDL and 10/22/07 WDL Modification in that it is:**

1. Eliminating the monthly total discharge flow reporting requirement;
2. Establishing influent monitoring and reporting requirements for total manganese, total iron and total arsenic;
3. Eliminating the pH monitoring and reporting requirement; and
4. Revising the minimum monitoring frequency requirement for settleable solids from once per month to once per calendar quarter.

b. Facility History: This section provides a summary of significant licensing actions that have been completed for Aqua Maine, Inc'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 4/25/05 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.

March 30, 2010 – Aqua Maine, Inc. submitted a General Application to the Department for the renewal of WDL #W008214-5S-A-N. The application was accepted for processing on March 30, 2010 and was assigned WDL #W008214-5S-C-R.

c. Source Description: Aqua Maine, Inc. 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 revised (October 2001) MCL of 10 parts per billion ( $\mu\text{g/L}$ ). In order to comply with the revised MCL, Aqua Maine, Inc. in calendar year 2005, Aqua Maine, inc. installed filtration equipment at this facility 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

## 2. LICENSE SUMMARY (cont'd)

and to regenerate the filter media. Backwashing of the filter is expected to occur 4 to 5 times per month and generate 2,700 gallons of backwash water with each cycle.

A map showing the location of the treatment facility and the public water source wells 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.A. §414-A, requires that the effluent limitations prescribed for discharges, including, but not limited to, effluent toxicity, require application of best practicable treatment (BPT), be consistent with 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.A. § 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.A. § 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 1,250 gallons per day (GPD), which was based on the *proposed* drinking water treatment system to be installed at the project site. The system proposed for installation at the time the previous WDL was issued is different from the *actual* treatment system that was installed after issuance of the license. On October 22, 2007, the Department issued WDL Modification #W008214-5S-B-M to Aqua Maine, Inc. to increase the monthly average discharge flow limitation to 6,000 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 September 2007 through July 2010 indicates that discharge flow has ranged from 1,010 GPD to 3,116 GPD with an arithmetic mean of 1,927 GPD (#DMRs = 35).

This licensing action is carrying forward the minimum monitoring frequency requirement for discharge flow of once per month and is eliminating the monthly total discharge flow reporting requirement established in the April 25, 2005 WDL.

- 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 September 2007 through July 2010 indicates 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 = 34). The minimum monitoring frequency requirement of once per month is being reduced to once per calendar quarter based on the results of effluent testing to date and Department best professional judgment.
- c. Total Iron: The treatment system utilized by Aqua Maine, Inc. is designed to reduce iron in the raw ground water. The previous licensing action established daily maximum concentration and mass reporting requirements for total iron.

A summary of the effluent total iron data as reported on the DMRs submitted to the Department for the period September 2007 through July 2010 is as follows:

Total Iron	Minimum	Maximum	Arithmetic Mean	# DMRs
	20 mg/L	735 mg/L	207 mg/L	35
	0.0003 lbs./day	0.01 lbs./day	0.0031 lbs./day	35

Due to the nature of the treatment system utilized by Aqua Maine, Inc., effluent data are obtained from a point following settling but prior to additional treatment through the subsurface disposal system. This licensing action is establishing a requirement to monitor and report the daily maximum influent concentration of total iron for consistency with other drinking water

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

facility license conditions and to monitor changes in the raw water concentrations of iron and manganese. The Maine Department of Human Services has adopted a secondary (aesthetic) drinking water standard of 300 parts per billion ( $\mu\text{g/L}$ ) (same as 0.3 mg/L) for total iron. The Department is making a best professional judgment determination that the discharge from Aqua Maine, Inc., following treatment in the subsurface disposal system, is not causing or contributing to violations of the standards of classification for Class GW-A waters. Influent and effluent total iron monitoring and reporting requirements are being carried forward in this licensing action to assist in future evaluations of the discharge's impact on receiving water quality.

- d. Total Manganese: The basis for manganese monitoring and reporting requirements is the same as described above for total iron.

A summary of the effluent total manganese data as reported on the DMRs submitted to the Department for the period September 2007 through July 2010 is as follows:

Total Manganese	Minimum	Maximum	Arithmetic Mean	# DMRs
	5 mg/L 0.0001 lbs./day	570 mg/L 0.0078 lbs./day	45 mg/L 0.0009 lbs./day	35 35

This licensing action is establishing a requirement to monitor and report the daily maximum influent concentration of total manganese for consistency with other drinking water facility license conditions and to monitor changes in the raw water concentrations of manganese. The Maine Department of Human Services has adopted a secondary (aesthetic) drinking water standard of 50 parts per billion ( $\mu\text{g/L}$ ) (same as 0.05 mg/L) for total manganese. The Department is making a best professional judgment determination that the discharge from Aqua Maine, Inc., following treatment in the subsurface disposal system, is not causing or contributing to violations of the standards of classification for Class GW-A waters. Influent and effluent total manganese monitoring and reporting requirements are being carried forward in this licensing action to assist in future evaluations of the discharge's impact on receiving water quality.

- e. Total Arsenic: The installed treatment system is designed to reduce raw water total arsenic levels to less than 10  $\mu\text{g/L}$ , which is the Maine Department of Human Services' primary drinking water standard. 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 September 2007 through July 2010 is as follows:

Total Arsenic	Minimum	Maximum	Arithmetic Mean	# DMRs
	4 mg/L 0.00008 lbs./day	130 mg/L 0.0013 lbs./day	29 mg/L 0.00041 lbs./day	35 35

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

This licensing action is establishing a requirement to monitor and report the daily maximum influent concentration and mass of total arsenic for consistency with other drinking water facility license conditions and to monitor changes in the raw water concentrations of arsenic. The Department is making a best professional judgment determination that the discharge from Aqua Maine, Inc., following treatment in the subsurface disposal system, is not causing or contributing to violations of the standards of classification for Class GW-A waters.

- f. pH: The previous licensing action established an effluent daily maximum pH range limitation of 6.0 – 8.5 standard units (SU), which was based on Maine Department of Human Services' secondary drinking water standard. A summary of pH data as reported on the DMRs for the period of September 2007 through July 2010 indicates the effluent has ranged from 6.8 SU to 8.23 SU and the facility has been in compliance with the pH range limitation 100% during said period (# DMRs = 35). The Department is making a best professional judgment determination that continued pH monitoring of the effluent is not necessary to determine compliance with the State's secondary drinking water standards and is therefore 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 *Herald Gazette* newspaper on or about March 26, 2010. 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 CMR 522 (effective January 12, 2001).

## 8. DEPARTMENT CONTACTS

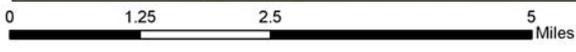
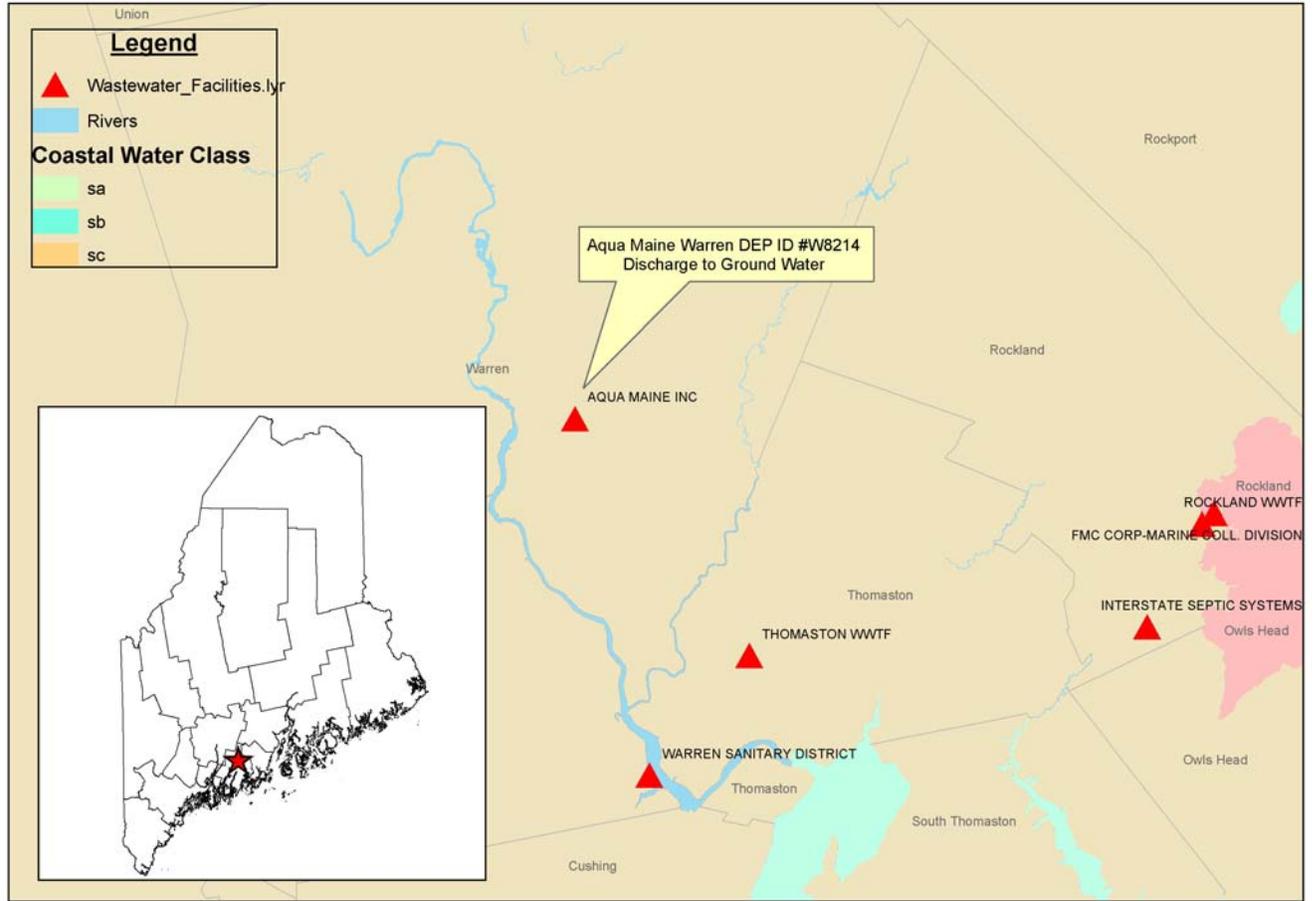
Additional information concerning this licensing action may be obtained from, and written comments sent to:

Bill Hinkel  
Division of Water Quality Management  
Bureau of Land & Water Quality  
Department of Environmental Protection  
17 State House Station  
Augusta, Maine 04333-0017 Telephone: (207) 485-2281  
[bill.hinkel@maine.gov](mailto:bill.hinkel@maine.gov)

## **9. RESPONSE TO COMMENTS**

During the period of October 12, 2010 through November 12, 2010, the Department solicited comments on the proposed draft Waste Discharge License to be issued to Aqua Maine, Inc. The Department did not receive significant comments on the draft license; therefore, a response to comments was not prepared.

# **ATTACHMENT A**



**Aqua Maine, Inc., Warren, Maine**

Map created by Maine DEP  
October 2010

