

B. Filing with MassDEP – As previously noted, **only** facilities in Massachusetts that were previously unpermitted and discharge to an Outstanding Resource Water (ORW) and High Quality Waters must submit an NOI to MassDEP. In such cases, a completed copy of the NOI must also be sent to:

Massachusetts Department of Environmental Protection
Division of Watershed Management
8 New Bond Street
Worcester, MA 01606

C. Filing with NH DES – All applicants in New Hampshire must also provide a completed copy of their NOI to NH DES at the following address:

New Hampshire Department of Environmental Services
Water Division, Wastewater Engineering Bureau
29 Hazen Drive, P.O. Box 95
Concord, New Hampshire 03302-0095

III. Suggested Notice of Intent (NOI) Format

A. Facility Information

1. *Indicate applicable General Permit for discharge*

MAG640000

NHG640000

2. *Facility Data*

Facility Name Georgetown Water Department

Street/PO Box 1 Moulton Street City Georgetown

State MA Zip Code 01833

Latitude +4272020 Longitude -7102208

SIC Code(s) 4941 - Water Supply

Type of Business Municipal Water Supplier

3. *Facility Mailing Address (if different from Location Address, above)*

Facility Name (same as above)

Street/PO Box _____ City _____

State _____ Zip Code _____

4. Facility Owner:

Legal Name Georgetown Water Department
Email ygallagher@georgetownma.gov
Street/PO Box 1 Moulton Street City Georgetown
State MA Zip Code 01833
Contact Person James Gallagher Tel # (978) 352-5750
Owner is (check one): Federal State Tribal Private
Other (describe) Municipal

5. Facility Operator (if different from above):

Legal Name (same as above)
Email _____
Street/PO Box _____ City _____
State _____ Zip Code _____
Contact Person _____ Tel # _____

6. Currently (Administratively) Covered Under the Expired P WTF General Permit? (Please check yes or no):

Yes No

a) Has a prior NPDES permit (either individual or general permit coverage) been granted for the discharge that is listed on the NOI? Yes No If Yes, Permit Number MAG640048

b) Is the discharge a "new discharger" as defined by 40 CFR Section 122.22? Yes No

c) Is the facility covered by an individual NPDES permit for other discharges? Yes No

If yes, Permit Number: _____

d) Is there a pending NPDES application (either individual or general permit) on file with EPA for this discharge? Yes No

If yes, date of submittal: _____ and Permit Number, if available _____

7. Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? See attached

B. Discharge Information (Attach additional sheets as needed):

1. Name of receiving water into which discharge will occur: Parker River

Check Appropriate Box: Freshwater Marine Water

State Water Quality Classification Class B

Type of Receiving Water Body (e.g., stream, river, lake, reservoir, estuary, etc.) River; includes an

2. Indicate the frequency of the discharge:

Emergency Only Infrequent (Once/ Twice a Year) Intermittent***

Other***

impoundment area (75 acres +/-) created by beaver dams. Notes currently working toward removal of beavers and dams.

***If Intermittent (i.e., occurs sometimes but not regularly as in batch discharge), provide # of days per year the discharge occurs May-October: daily; November-April: every 2-3 days

***If Other, explain (255 days/yr +/-)

3. Describe the discharge activities for which the owner/applicant is seeking coverage, including process discharges not specifically authorized in the P WTF GP which need to be authorized for discharge (and which attain the effluent limits and other conditions of the general permit.)

(This description should include all treatment methods used on the wastewater prior to discharge including lagoons, baffles, filter presses, etc. If lagoons are used at the facility, please include the number and size of lagoons; the size and elevation of the entry pipe; the time of travel from the entry point of the discharge into the lagoon to the entry point to the receiving waters; and the length of backwash cycle for any combination of filters.)

Discharge to the Parker River comes from the backwash settling lagoons following the treatment plant. The treatment process is greensand pressure filtration to remove iron and manganese. The oxidants are sodium hypochlorite (NaOCl) and potassium permanganate (KMnO4). The pH is raised from mid-6's to 7.0-7.2 prior to oxidation and filtration. Backwash water flows from the drain trough in the treatment plant to an 80,000 gal surge tank to attenuate the flow to the lagoons down to 2120 gpm +/- . One lagoon is used while the other is maintained as a drying bed for residuals. Travel time through lagoons is 12 hrs +/- . Elevation data: lagoon influent invert = 87.75'; underdrain = 83.7'; decant overflow = 89.0'.

4. Attach a line drawing or flow schematic showing water flow through the facility including sources of intake water, operations contributing to flow, treatment units, outfalls, and receiving water(s).

Line drawing or flow diagram attached? See attached.

5. Identify the source of the water being discharged:

Surface water Groundwater (3) gravel pack wells Other (describe)

6. Number of Outfalls 1 Latitude and Longitude to the nearest second for each Outfall. Attach additional pages if necessary.

Outfall # 1 Latitude +4243180 Longitude -7101220
Outfall # _____ Latitude _____ Longitude _____
Outfall # _____ Latitude _____ Longitude _____

7. For each outfall, indicate the proposed sampling location(s) for both effluent and ambient water (when applicable) and proposed consistent times of the month for collecting samples:

Outfall # 1
Samples are taken once/week from the lagoon discharge pipe as it enters the channel leading to the wetlands adjacent to the Parker River. Sampled parameters include: total suspended solids, residual chlorine, pH, and turbidity. This is the same process followed since the construction of the water treatment plant in 2000.

~~Outfall #~~

C. Effluent Characteristics

1. List here and attach additional information (on separate sheet) on any water additives used at the facility. This includes chemicals (including aluminum, iron, or phosphorus-containing chemicals) for pH adjustment, dechlorination, control of biological growth, and control of corrosion and scale in water pipes.

GWD employs the following treatment process/chemical addition:
- Potassium hydroxide (KOH) at each of (3) wells for pH adjustment,
- Sodium hypochlorite (NaOCl) and potassium permanganate (KMnO₄) for oxidation of iron and manganese just prior to greensand filters
- NaOCl for disinfection following filtration (for finished water only)
- KOH for pH adjustment of final WTP effluent and distribution system corrosion control (for finished water only).

2. Report any known remediation activities or water quality issues in the vicinity of the discharge.
GWD is not aware of any remediation activities or water quality issues in the vicinity of the discharge.

3. Are aluminum compounds or polymers used as coagulants at this facility?*

Yes No

*If answer is "Yes" and the facility was not covered under the PWTF GP that expired on

10/2/14, additional monitoring data and information is required. **Please complete Item III.C.12.**

4. Does the facility use any alum-based products for algae control?*

Yes_ No

*If answer is "Yes" and the facility was *not* covered under the PWTf GP that expired on 10/2/14, additional monitoring data and information is required. **Please complete Item III.C.12.**

5. Are iron-containing coagulants used at this facility?

Yes_ No

6. Does the facility's discharge contain residual chlorine?

Yes No

[If Yes, EPA will calculate a Total Residual Chlorine effluent limit for your facility]

7. Does the facility provide treatment to remove arsenic from the raw water source? Yes

No

8. a. Are phosphorus-containing chemicals added to the treated water at this facility? Yes

No

- b. If answer to 8.a. is Yes, does the facility discharge to Phosphorus-Impaired waters? Yes No

N/A

- c. If answer to 8.b. is Yes, provide name of P-Impaired waterbody:

N/A

9. Does the facility remove radium or other radioactive substances from raw water sources to comply with drinking water standards?

Yes No

10. Provide the reported or calculated seven day- ten year low flow (7Q10) of the receiving water

7Q10: 0.03 cfs *(as recorded at USGS Stream Gage 01101000 Parker River at Byfield, MA)*

NOTE: For facilities that discharge in New Hampshire, the state permitting authority **must** be contacted at the address listed in Appendix VI of the PWTf GP to determine and/or confirm the 7Q10 and/or dilution factor. For facilities that discharge in Massachusetts, it is highly recommended to contact the relevant state authority (MassDEP) to determine and/or confirm the 7Q10 and/or dilution factor.
Attach any calculation sheets used to support the stream flow and dilution factors. See Appendix VII for equations and additional information.

11. For *each* outfall, provide the following discharge information:

Outfall # 1

- a) *Design Flow of Facility (in million gallons per day, MGD):* 2.5

This value will determine the facility's daily maximum flow limit, up to a maximum of 1.0 MGD.

- b) *Discharge Flow (in gallons per day, GPD):*

Maximum Daily Flow 85,000 GPD Average Monthly Flow 59,384 GPD

- c) *TSS (mg/l):* Number of samples: 52/yr (Minimum of 10 samples)

Maximum Daily 4.0 mg/l Average Monthly 0.3 mg/l

d) pH (s.u.) : Number of samples: 52/yr (Minimum of 10 samples)
Minimum 7.0 s.u. Maximum 7.4 s.u.

e) Total Residual Chlorine (ug/l): Number of samples: 52/yr (Minimum of 10 samples)
Maximum Daily 20 ug/l

NOTE: TRC is only required for discharges which have been previously chlorinated or contain residual chlorine

N/A

12) The following section must be completed for any facility that answered "Yes" to Question III.C.3 or III.C.4 (e.g. adds an aluminum-containing chemical to the water being treated and/or discharged) AND was not covered under the previous PWTF GP (which expired on 10/2/14).

- a) Collect, analyze and submit **12 effluent samples and 10 ambient surface water samples** from a location upstream of and not affected by the discharge. For facilities in New Hampshire and Massachusetts, each sample should be analyzed for total recoverable Al in micrograms per liter. All laboratory results shall be submitted on a separate sheet.
- a. The samples shall be composite samples consisting of four grab samples taken at approximately equal intervals on a flow weighted basis during the time at which the discharge is entering the receiving water after the start of the backwash cycle.
 - b. For each sampling event, the effluent and surface water samples shall be collected on the same day and during a representative discharge event. The samples shall be no more frequent than weekly and, if time allows in completing the NOI, at monthly intervals and at different flow conditions. If taking the ambient water quality sample from lakes/reservoirs, the 10 samples should be composited vertically.
 - c. Discharge flow at the time of effluent sampling should be recorded. Flow conditions at the time of ambient water sampling should be recorded (or estimated from nearest gaging station).
 - d. Do not include dilution when recording the results.
 - e. See Section 2.1.2.3 and Footnote 12 of Section 2.1.1 for MA facilities (or Section 3.1.2.3 and Footnote 10 of 3.1.1 for NH facilities) for key information on minimum level for analysis and sufficiently sensitive test procedures.
 - f. Sampling data that was collected within one year of the effective date of this general permit AND that adheres to all of the requirements above may be submitted in lieu of new samples. This must be denoted with the submitted data.
- b) Provide a description of control measures, chemical substitutions, waste handling methods, and operational changes evaluated and/or used by the facility to minimize the discharge of aluminum to surface waters. (Include additional sheet(s), if necessary)

D. Endangered Species Act Eligibility Information

Using the instructions in Appendix III of the P WTF GP, which of the following criteria apply to your facility?

U.S. Fish and Wildlife Service (USFWS) Criteria: A B C

1. If you selected USFWS criteria B, has consultation with the U.S. Fish and Wildlife Service been completed?

Yes

No

N/A

2. If consultation with US Fish & Wildlife Service was completed, was a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat received?

Yes

No

N/A

3. Attach documentation of ESA eligibility for USFWS as required at Part 1.4 and Appendix III of the General Permit. **Documentation attached?** _____

4. For facilities seeking coverage under the Potable Water Treatment Facility General Permit for the *first* time, respond to the following questions to assist in ESA eligibility for NMFS:

a) Indicate if the facility discharges into any of the stretches of the following rivers which can support or provide habitat to either Shortnose or Atlantic Sturgeon:

Merrimack River (from Essex Dam in Lawrence, Downstream (including Haverhill) to mouth of River) Yes No

Connecticut River (from Turner's Falls, downstream through Holyoke (including Holyoke Dam region) Yes No

Taunton River Yes No

Piscataqua River (in NH) Yes No

b) Has the facility had any previous formal or informal consultation with NMFS?

Yes

No

If yes, attach the results of the consultation(s).

Documentation attached? _____

N/A

E. National Historic Properties Act Eligibility

1. Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? Yes No

2. Have any State or Tribal Historic Preservation Officers been consulted in this determination?
Yes No

If yes, attach the results of the consultation(s). Documentation attached?

3. Which of the three National Historic Preservation Act scenarios listed in Appendix II, Section III have you met?

1 2 3

F. Supplemental Information

Please provide any supplemental information, including antidegradation review information applicable to new or increased discharges. Attach any analytical data used to support the application. Attach any certification(s) required by the General Permit.

G. Signature Requirements

The NOI must be signed by the operator in accordance with the signatory requirements of 40 CFR § 122.22 (see below) including the following certification:

I certify under penalty of law that (1) the discharge for which I am seeking coverage under the general permit consists solely of a surface water discharge from a potable water treatment facility; (2) any chemicals used to treat the discharge have been identified in this NOI; and (3) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature James Gallagher Date 05/26/17

Printed Name and Title James Gallagher, Assistant Superintendent

Federal regulations require this application to be signed as follows:

1. For a corporation, by a responsible corporate party;
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

Note: Permits No. MAG640000 and NHG640000 may be found at <http://www3.epa.gov/region1/npdes/pwtfgp.html>

H. “Opt-Out Request” from NetDMR Requirement

1. Check the box if you are applying for an “opt-out request.”
2. Provide a detailed explanation of the technical or administrative factors that support your request to “opt-out” from the requirement to submit DMRs and reports electronically. (Add additional lines, if necessary.)



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104
<http://www.fws.gov/newengland>

In Reply Refer To:

May 26, 2017

Consultation Code: 05E1NE00-2017-SLI-1679

Event Code: 05E1NE00-2017-E-03380

Project Name: Georgetown Water Treatment Plant Lagoon Effluent Discharge

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the

human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office

70 Commercial Street, Suite 300

Concord, NH 03301-5094

(603) 223-2541

Project Summary

Consultation Code: 05E1NE00-2017-SLI-1679

Event Code: 05E1NE00-2017-E-03380

Project Name: Georgetown Water Treatment Plant Lagoon Effluent Discharge

Project Type: WATER SUPPLY / DELIVERY

Project Description: Project is the permitting of an existing discharge pipe from the backwash water settling lagoons following the Georgetown Water Treatment Plant (greensand pressure filtration).

Project Location:

Approximate location of the project can be viewed in Google Maps:

<https://www.google.com/maps/place/42.721305196447304N71.02219133981663W>



Counties: Essex, MA

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area. Please contact the designated FWS office if you have questions.

Mammals

NAME

STATUS

Northern Long-eared Bat (*Myotis septentrionalis*) Threatened

No critical habitat has been designated for this species.

Species profile: <https://ecos.fws.gov/ecp/species/9045>

Critical habitats

There are no critical habitats within your project area.

Endangered species review

Step 2: Evaluate determination keys

The U.S. Fish and Wildlife Service has performed up-front analysis for certain project types, agencies, and species. This analysis has been compiled into *determination keys*, a simple interview process to arrive at a recommended determination for some species in your project area.

There is a determination key that may apply to your project. Each determination key starts with a qualification interview to see if the key is appropriate for your project.

- FHWA, FRA, FTA Programmatic Consultation for Transportation Projects affecting NLEB or Indiana Bat

⊘ Your project does not qualify for this key, based on the answers provided. ←

Species determinations

For listed species

¹ not covered by determination keys, an impact analysis should be performed to reach a conclusion about how this project will impact the species. These conclusions will result in *determinations* for each species, which will be used in consultation with the U.S. Fish and Wildlife Service.

Mammals

Northern Long-eared Bat
Myotis septentrionalis

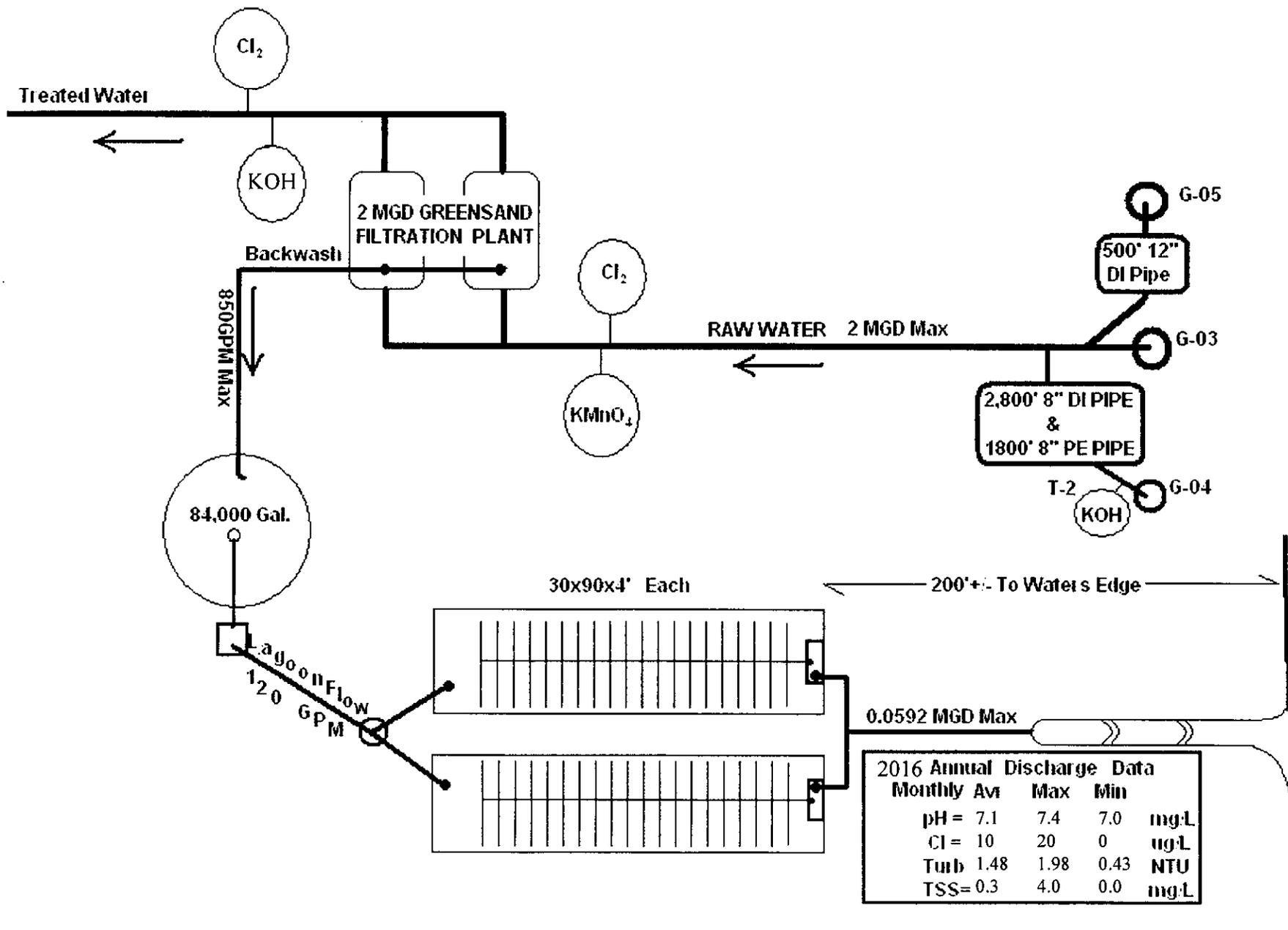
None

Critical habitats

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION. ←

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information.

**GEORGETOWN, MASSACHUSETTS PWS ID# 3105000-T1
FLOW DIAGRAM**

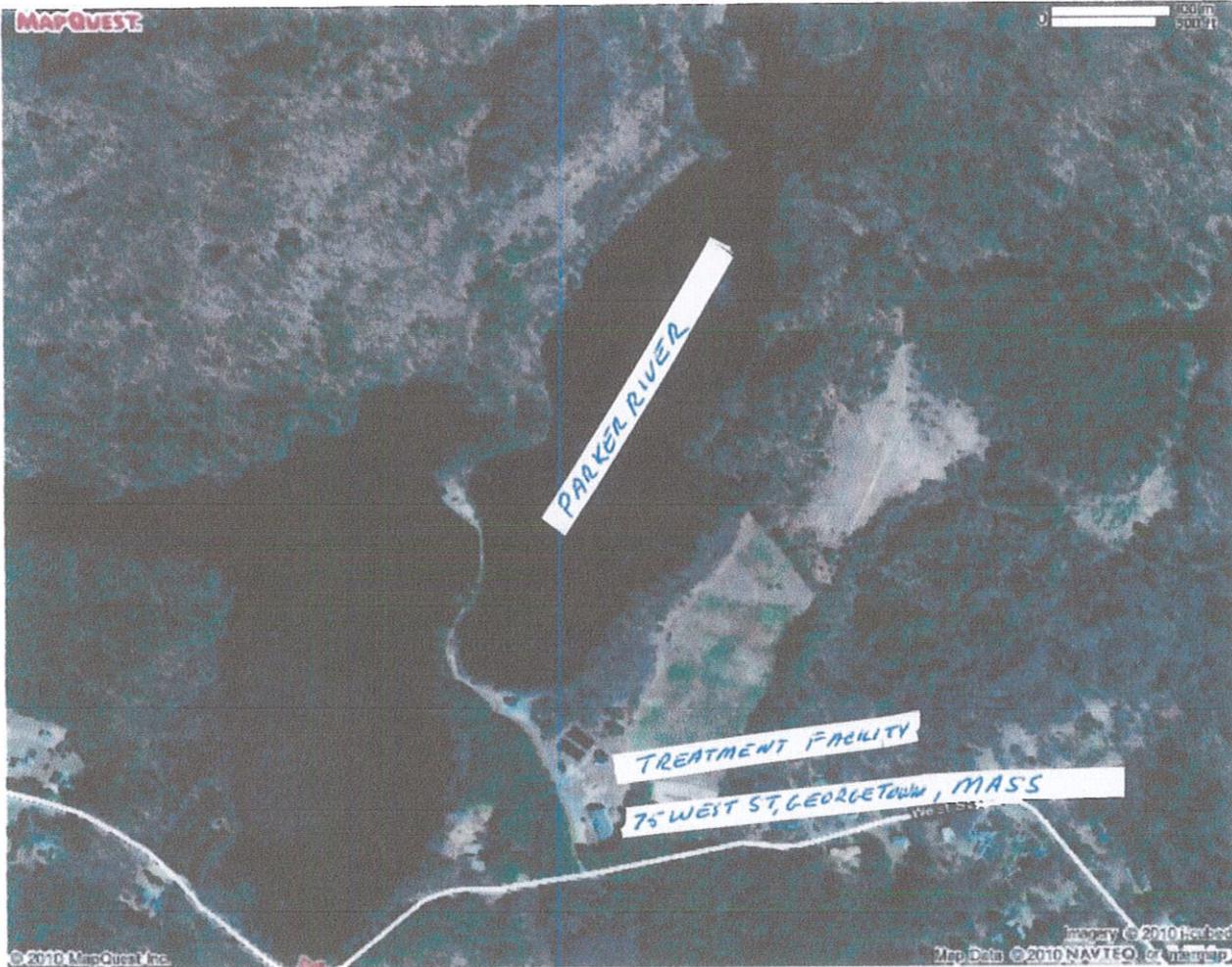




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 **75 West St**
Georgetown, MA 01833-1324



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