

July 12, 2017

US EPA, Region 1
Office of Ecosystem Protection
PWTF Coordinator (OEP06-1)
5 Post Office Square, Suite 100
Boston, MA 02109-3912

RE: Town of Weymouth - Arthur J. Bilodeau Water Treatment Plant
Potable Water Treatment Facility General Permit
NPDES General Permit No. MAG640080 Notice of Intent

To Whom It May Concern:

On behalf of the Town of Weymouth, please find enclosed a complete Notice of Intent (NOI) for coverage of the Arthur J. Bilodeau Water Treatment Plant (WTP) under the National Pollutant Discharge Elimination System (NPDES) General Permit for discharges from Potable Water Treatment Facilities (PWTF). The Bilodeau WTP is located at 95 Winter Street in Weymouth, Massachusetts (refer to Attachment I - Site Locus). This NOI details the renewal of the WTP's existing NPDES PWTF General Permit (MAG640080), which expired on October 2, 2014. Renewal is being applied for through the NPDES PWTF General Permit signed on March 6, 2017.

This complete NOI package consists of the following:

- Environmental Protection Agency (EPA) PWTF NPDES General Permit NOI form;
- Site figures including a site locus, site plan identifying WTP's discharge location, and the WTP's process flow diagram;
- Copies of the laboratory analytical reports for the April 2016 through March 2017 NPDES discharge monitoring events.

The NOI form provides an overview of the existing Bilodeau WTP physical and chemical treatment processes. The WTP currently has two lined residuals lagoons that discharge to the Mill River, a Class A waterbody in the Weymouth and Weir watershed.

Thank you for your cooperation and assistance. Please feel free to contact me at (617) 657-0281 (rja@envpartners.com) or the Water and Sewer Superintendent, Kenneth C. Morse at (781) 337-5100 (KMorse@weymouth.ma.us) if you have any questions or require additional information.

Very Truly Yours,
Environmental Partners Group, Inc.



Ryan J. Allgrove, P.E.
Project Manager

Encl: PWTF NPDES General Permit NOI
Figures
Laboratory analytical reports
ESA Eligibility Documentation

CC: Kenan Connell, Director of Public Works
Kenneth C. Morse, Water and Sewer, Superintendent
Alan Cowing, Treatment and Operations Manager

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND - REGION I
5 POST OFFICE SQUARE, SUITE 100
BOSTON, MASSACHUSETTS 02109-3912

Request for General Permit Authorization to Discharge Wastewater
Notice of Intent (NOI) to be covered by the General Permit

Potable Water Treatment Facility (PWTF)
NPDES General Permit No. MAG640000 and NHG640000

A. Facility Information

1. Indicate applicable General Permit for discharge

MAG640000

NHG640000

2. Facility Data

Facility Name Arthur J. Bilodeau WTP

Street/PO Box 95 Winter Street City Weymouth

State MA Zip Code 02188

Latitude 42°9'59.33"N Longitude 70°58'08.77"W

SIC Code(s) N/A

Type of Business Water Treatment Plant

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

Facility Name _____

Street/PO Box _____ City _____

State _____ Zip Code _____

4. Facility Owner:

Legal Name Town of Weymouth - Department of Public Works

Email kconnell@weymouth.ma.us

Street/PO Box 120 Winter Street City Weymouth

State MA Zip Code 02188

Contact Person Kenan Connell Tel # 781-337-5100

Owner is (check one): Federal _____ State _____ Tribal _____ Private _____

Other (describe)

Municipal

5. Facility Operator (if different from above):

Legal Name _____

Email _____

Street/PO Box _____ City _____

State _____ Zip Code _____

Contact Person _____ Tel # _____

6. Currently (Administratively) Covered Under the Expired PWF 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 MAG640080

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? Yes; see Attachment I

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

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

Check Appropriate Box:

☒ Freshwater

Marine Water

State Water Quality Classification

Class A

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

2. Indicate the frequency of the discharge:

Emergency Only

Infrequent (Once/Twice a Year)

Intermittent***

Continuous

Other***

***If Intermittent (i.e., occurs sometimes but not regularly as in batch discharge), provide # of days per year the discharge occurs _____

***If Other, explain _____

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.)

The A.J. Bilodeau WTP (capacity of 4 MGD) treats ground water from five groundwater wells for the production of drinking water using several physical and chemical treatment processes. Chemical addition at the facility consists of potassium permanganate for oxidation, poly-aluminum chloride for coagulation, sodium hydroxide for pH adjustment, sodium fluoride for fluoridation, chlorine gas for disinfection, and phosphoric acid for corrosion control. The physical treatment processes include aeration for partial removal of iron and manganese, dissolved carbon dioxide, and VOCs, flocculation with walking-beam type flocculators, sedimentation in parallel high rate tube settlers, and filtration with granular activated carbon for additional iron and manganese removal and VOC removal. Sedimentation residuals are pumped and filter backwash waste flow by gravity to two lined lagoons. Lagoon supernatant is discharged to the Mill River watershed.

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? Yes; see Attachment I

5. Identify the source of the water being discharged:

Surface water

Groundwater

Other (describe)

6. Number of Outfalls 2 Latitude and Longitude to the nearest second for each Outfall. Attach additional pages if necessary.

Outfall # 001 Latitude 42°12'1"N Longitude 70°57'0"W

Outfall # 002 Latitude 42°11'59"N Longitude 70°56'59"W

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 # 001

Only one outfall is active at a time. The proposed sampling location is at the discharge of the active lagoon outfall pipe. Samples for pH and TSS are proposed to be collected weekly.

Outfall # 002

Only one outfall is active at a time. The proposed sampling location is at the discharge of the active lagoon outfall pipe. Samples for pH and TSS are proposed to be collected weekly.

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.

Potassium permanganate, poly-aluminum chloride, sodium hydroxide, chlorine gas, phosphoric acid, and sodium fluoride.

2. Report any known remediation activities or water quality issues in the vicinity of the discharge

Not applicable

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 ☒

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

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: 0.12 cfs

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 # 001/002

a) Design Flow of Facility (in million gallons per day, MGD): 4

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 77,000 GPD Average Monthly Flow 76,300 GPD

c) TSS (mg/l): Number of samples: 10 (Minimum of 10 samples)

Maximum Daily 31.0 mg/l Average Monthly 7.89 mg/l

d) pH (s.u.) : Number of samples: 10 (Minimum of 10 samples)

Minimum 7.00 s.u. Maximum 7.58 s.u.

e) Total Residual Chlorine (ug/l): Number of samples: 10 (Minimum of 10 samples)

Maximum Daily 0 ug/l

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

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 PWTF 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

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

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

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:

<i>Merrimack River</i> (from Essex Dam in Lawrence, Downstream (including Haverhill) to mouth of River)	Yes	No
---	-----	----

<i>Connecticut River</i> (from Turner’s Falls, downstream through Holyoke (including Holyoke Dam region)	Yes	No
--	-----	----

<i>Taunton River</i>	Yes	No
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<i>Piscataqua River (in NH)</i>	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?** _____

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



Date

7.12.17

Printed Name and Title

Kenan Connell, Director of Public Works

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>

Attachment I

Figures

NPDES GENERAL PERMIT MAG640080 NOI

ARTHUR J. BILODEAU WATER TREATMENT PLANT TOWN OF WEYMOUTH, MASSACHUSETTS

July 2017



LIST OF DRAWINGS

SHEET NUMBER	DRAWING TITLE
C-1	SITE PLAN - NPDES DISCHARGE LOCATION
G-1	AJB WTP PROCESS FLOW DIAGRAM

DEPARTMENT OF PUBLIC WORKS

KENAN CONNELL, DIRECTOR

KENNETH MORSE, WATER & SEWER SUPERINTENDENT

ALAN R. COWING, TREATMENT & OPERATIONS MANAGER



LOCUS PLAN

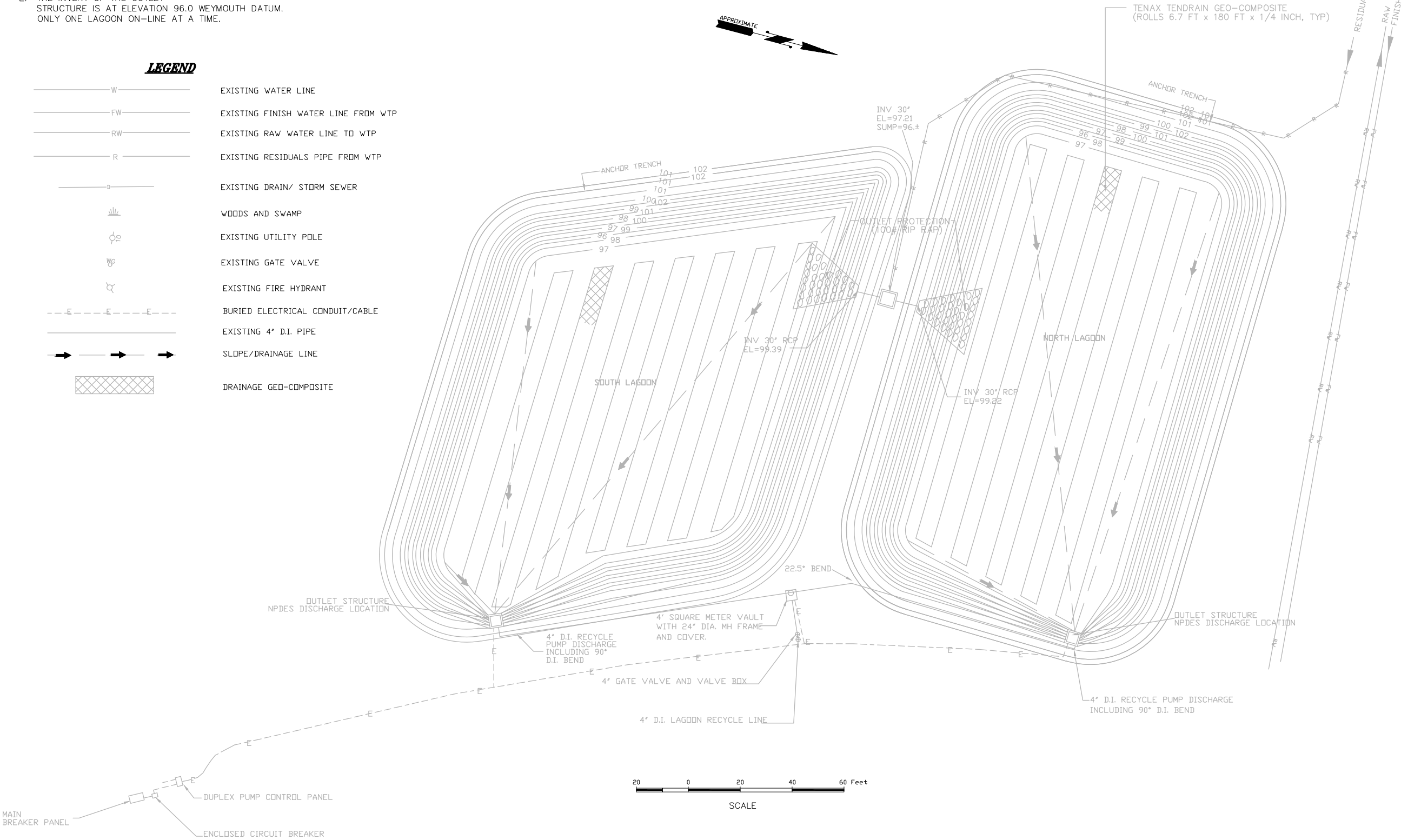
SCALE: 1"=1,000'

NOTES

1. ELEVATIONS REFER TO WEYMOUTH DATUM
2. THE INVERT OF THE OUTLET STRUCTURE IS AT ELEVATION 96.0 WEYMOUTH DATUM. ONLY ONE LAGOON ON-LINE AT A TIME.

LEGEND

	EXISTING WATER LINE
	EXISTING FINISH WATER LINE FROM WTP
	EXISTING RAW WATER LINE TO WTP
	EXISTING RESIDUALS PIPE FROM WTP
	EXISTING DRAIN/ STORM SEWER
	WOODS AND SWAMP
	EXISTING UTILITY POLE
	EXISTING GATE VALVE
	EXISTING FIRE HYDRANT
	BURIED ELECTRICAL CONDUIT/CABLE
	EXISTING 4" D.I. PIPE
	SLOPE/DRAINAGE LINE
	DRAINAGE GEO-COMPOSITE



			Scale	1" = 20'
			Date	07/10/17
			Job No.	144-0601
			Designed by	EAK
			Drawn by	EAK
			Checked by	SCO
			Approved by	SCO
MARK	DATE	DESCRIPTION		

THIS LINE IS ONE INCH LONG WHEN PLOTTED AT FULL SCALE ON A 22" X 34" DRAWING

Attachment II

Laboratory Analytical Data Reports



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DMR Copy of Submission

Permit

Permit ID: MAG640080

Permittee: TOWN OF WEYMOUTH DPW

Facility: ARTHUR J BILODEAU WATER TREATMENT PLANT

Permitted Feature: 002 - External Outfall

Report Dates & Status

Monitoring Period: From 11/01/16 to 11/30/16

Status: NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name: Kenneth

Title:

Major:

Permittee Address: 120 WINTER STREET
WEYMOUTH , MA02188

Facility Location: 95 WINTER ST
95 WINTER ST
WEYMOUTH , MA02188

Discharge: 002-A - WATER CLASS 'A' or 'B'

DMR Due Date: 01/15/17

Last Name: Morse

Telephone: 781-337-5100

[illegible]

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
Season: 0		Req.					<=30 MO AVG	<=50 DAILY MX	19 - mg/L		01/07 - Weekly	CP - COMPOS
NODI: -		NODI										
50050	Flow, in conduit or thru treatment plant	Smpl.	=0.076	=0.077	03 - MGD						01/07 - Weekly	TM - TOTALZ
1 - Effluent Gross												
Season: 0		Req.	Req Mon MO AVG	<=.1 DAILY MX	03 - MGD						01/07 - Weekly	TM - TOTALZ
NODI: -		NODI										
50060	Chlorine, total residual	Smpl.				=0		=0	28 - ug/L		01/07 - Weekly	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.				<=43 MO AVG		<=41 DAILY MX	28 - ug/L		01/07 - Weekly	GR - GRAB
NODI: -		NODI										

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

TOWN OF WEYMOUTH DPW

User: kmorse@weymouth.ma.us
Name: Ken Morse
E-Mail: kmorse@weymouth.ma.us
Date/Time: 2017-01-11 13:53 (Time Zone:-05:00)



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DMR Copy of Submission

Permit

Permit ID: MAG640080

Permittee: TOWN OF WEYMOUTH DPW

Facility: ARTHUR J BILODEAU WATER TREATMENT PLANT

Permitted Feature: 002 - External Outfall

Report Dates & Status

Monitoring Period: From 12/01/16 to 12/31/16

Status: **NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name: Kenneth

Title: Superintendent

Major:

Permittee Address: 120 WINTER STREET
WEYMOUTH , MA02188

Facility Location: 95 WINTER ST
95 WINTER ST
WEYMOUTH , MA02188

Discharge: 002-A - WATER CLASS 'A' or 'B'

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[illegible]

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
Season: 0		Req.					<=30 MO AVG	<=50 DAILY MX	19 - mg/L		01/07 - Weekly	CP - COMPOS
NODI: -		NODI										
50050	Flow, in conduit or thru treatment plant	Smpl.	=0.076	=0.077	03 - MGD						01/07 - Weekly	TM - TOTALZ
1 - Effluent Gross												
Season: 0		Req.	Req Mon MO AVG	<=.1 DAILY MX	03 - MGD						01/07 - Weekly	TM - TOTALZ
NODI: -		NODI										
50060	Chlorine, total residual	Smpl.				=0		=0	28 - ug/L		01/07 - Weekly	GR - GRAB
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Season: 0		Req.				<=43 MO AVG		<=41 DAILY MX	28 - ug/L		01/07 - Weekly	GR - GRAB
NODI: -		NODI										

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

TOWN OF WEYMOUTH DPW

User:k Morse@weymouth.ma.us

Name:Ken Morse

E-Mail:k Morse@weymouth.ma.us

Date/Time:2017-01-11 14:01 (Time Zone:-05:00)



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DMR Copy of Submission

Permit

Permit ID: MAG640080

Permittee: TOWN OF WEYMOUTH DPW

Facility: ARTHUR J BILODEAU WATER TREATMENT PLANT

Permitted Feature: 002 - External Outfall

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WEYMOUTH , MA02188

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95 WINTER ST
WEYMOUTH , MA02188

Discharge: 002-A - WATER CLASS 'A' or 'B'

DMR Due Date: 04/15/17

Last Name: Morse

Telephone: 781-337-5100

[illegible]

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
Season: 0		Req.					<=30 MO AVG	<=50 DAILY MX	19 - mg/L		01/07 - Weekly	CP - COMPOS
NODI: -		NODI										
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Season: 0		Req.				<=43 MO AVG		<=41 DAILY MX	28 - ug/L		01/07 - Weekly	GR - GRAB
NODI: -		NODI										

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

TOWN OF WEYMOUTH DPW

User:KENMORSE

Name:Kenneth Morse

E-Mail:kmorse@weymouth.ma.us

Date/Time:2017-04-13 16:00 (Time Zone:-04:00)



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DMR Copy of Submission

Permit

Permit ID: MAG640080

Permittee: TOWN OF WEYMOUTH DPW

Facility: ARTHUR J BILODEAU WATER TREATMENT PLANT

Permitted Feature: 002 - External Outfall

Report Dates & Status

Monitoring Period: From 02/01/17 to 02/28/17

Status: NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name: Kenneth

Title: Superintendent

Major:

Permittee Address: 120 WINTER STREET
WEYMOUTH , MA02188

Facility Location: 95 WINTER ST
95 WINTER ST
WEYMOUTH , MA02188

Discharge: 002-A - WATER CLASS 'A' or 'B'

DMR Due Date: 04/15/17

Last Name: Morse

Telephone: 781-337-5100

[illegible]

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Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
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Submission Note

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Edit Check Errors

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Comments

Attachments

No attachments.

Report Last Saved By

TOWN OF WEYMOUTH DPW

User:KENMORSE

Name:Kenneth Morse

E-Mail:kmorse@weymouth.ma.us

Date/Time:2017-04-13 16:05 (Time Zone:-04:00)



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Permit

Permit ID:	MAG640080
Permittee:	TOWN OF WEYMOUTH DPW
Facility:	ARTHUR J BILODEAU WATER TREATMENT PLANT

Permitted Feature: 002 - External Outfall

Report Dates & Status

Monitoring Period: From 03/01/17 to 03/31/17

Status: NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name: Kenneth
Title: Superintendent

Major: 

Permittee Address: 120 WINTER STREET
WEYMOUTH , MA02188

Facility Location: 95 WINTER ST
95 WINTER ST
WEYMOUTH , MA02188

Discharge: 002-A - WATER CLASS 'A' or 'B'

DMR Due Date: 04/15/17

Last Name: Morse

Telephone: 781-337-5100

No Data Indicator (NODI)

Form NODI: -

[illegible]

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
Season: 0		Req.					<=30 MO AVG	<=50 DAILY MX	19 - mg/L		01/07 - Weekly	CP - COMPOS
NODI: -		NODI										
50050	Flow, in conduit or thru treatment plant	Smpl.	=0.076	=0.077	03 - MGD						01/07 - Weekly	TM - TOTALZ
1 - Effluent Gross												
Season: 0		Req.	Req Mon MO AVG	<=.1 DAILY MX	03 - MGD						01/07 - Weekly	TM - TOTALZ
NODI: -		NODI										
50060	Chlorine, total residual	Smpl.				=0		=0	28 - ug/L		01/07 - Weekly	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.				<=43 MO AVG		<=41 DAILY MX	28 - ug/L		01/07 - Weekly	GR - GRAB
NODI: -		NODI										

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

TOWN OF WEYMOUTH DPW

User:KENMORSE

Name:Kenneth Morse

E-Mail:kmorse@weymouth.ma.us

Date/Time:2017-04-13 16:01 (Time Zone:-04:00)

Attachment III

Official Endangered Species List



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:

July 05, 2017

Consultation Code: 05E1NE00-2017-SLI-1955

Event Code: 05E1NE00-2017-E-04406

Project Name: Arthur J. Bilodeau Water Treatment Plant - NPDES PWTF GP Renewal

Subject: Updated 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-1955

Event Code: 05E1NE00-2017-E-04406

Project Name: Arthur J. Bilodeau Water Treatment Plant - NPDES PWTF GP Renewal

Project Type: WATER SUPPLY / DELIVERY

Project Description: The Arthur J. Bilodeau Water Treatment Plant (AJB WTP) is renewing their General Permit for Discharges from Potable Water Treatment Facilities (PWTF GP). This water treatment plant received initial PWTF GP approval in 2002. PWTF GP approval was reinstated in 2009. The AJB WTP is currently pursuing renewal of the existing PWTF GP, permit number MAG640080.

The A.J. Bilodeau WTP (capacity of 4 MGD) treats ground water from five groundwater wells for the production of drinking water using several physical and chemical treatment processes. Chemical addition at the facility consists of potassium permanganate for oxidation, poly-aluminum chloride for coagulation, sodium hydroxide for pH adjustment, sodium fluoride for fluoridation, chlorine gas for disinfection, and phosphoric acid for corrosion control. The physical treatment processes include aeration for partial removal of iron and manganese, dissolved carbon dioxide, and VOCs, flocculation with walking-beam type flocculators, sedimentation in parallel high rate tube settlers, and filtration with granular activated carbon for additional iron and manganese removal and VOC removal. Sedimentation residuals are pumped and filter backwash waste flow by gravity to two lined lagoons. Lagoon supernatant is discharged to the Mill River watershed. There has been no change to water treatment processes since the initial permit was awarded in 2002.

Only one outfall is active at a time. AJB WTP monitors chlorine, pH, and TSS levels from the two outfalls. From April 2016 to November 2017: chlorine levels have consistently been 0 ug/L; TSS levels have ranged from 0.33 to 31.0 mg/L with a monthly average of 7.89 mg/L; and pH has ranged from 7.00 to 7.58, with an average of 7.26. Discharge flow ranges from 76,000 GPD to 77,000 GPD.

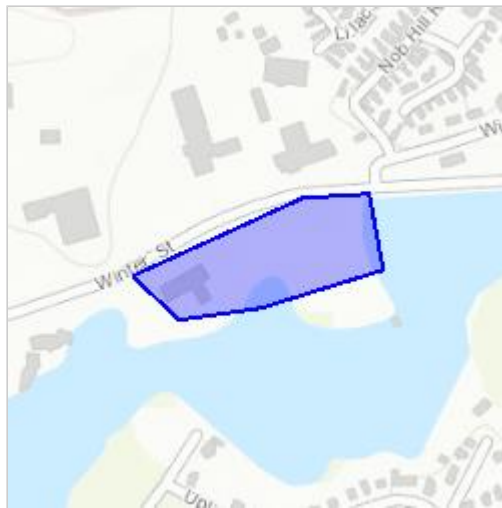
The two endangered species within range of this project are the Northern Long-eared Bat and the Red Knot, both of which are not aquatic species. There will be no tree removal and no excavation necessary for the continued operation of this water treatment plant. Given that both endangered species listed are not aquatic, there is no new construction

planned, and that there have been no changes to water treatment processes, the continued operation of this water treatment plant is not likely to adversely affect these endangered species.

Project Location:

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

<https://www.google.com/maps/place/42.20003826330955N70.95099018990635W>



Counties: Norfolk, MA

Endangered Species Act Species

There is a total of 2 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>

Birds

NAME

STATUS

Red Knot (*Calidris canutus rufa*)

Threatened

No critical habitat has been designated for this species.

Species profile: <https://ecos.fws.gov/ecp/species/1864>

Critical habitats

There are no critical habitats within your project area.