

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Page 1 of 20

Part I: General Conditions

General Information

Name of Municipality or Organization: Town of Raynham

State: MA

EPA NPDES Permit Number (if applicable): MAR041151

Primary MS4 Program Manager Contact Information

Name: Ed Buckley

Title: Highway Superintendent

Street Address Line 1: 1555 King Philip Street

Street Address Line 2:

City: Raynham

State: MA

Zip Code: 02767

Email: ebuckley@town.raynham.ma.us

Phone Number: (508) 824-2718

Fax Number: (508) 946-0112

Other Information

Stormwater Management Program (SWMP) Location
(web address or physical location, if already completed):

Eligibility Determination

Endangered Species Act (ESA) Determination Complete? Yes

Eligibility Criteria
(check all that apply): ☐ A ☒ B ☐ C

National Historic Preservation Act (NHPA) Determination Complete? Yes

Eligibility Criteria
(check all that apply): ☒ A ☐ B ☐ C

☒ Check the box if your municipality or organization was covered under the 2003 MS4 General Permit

MS4 Infrastructure (if covered under the 2003 permit)

Estimated Percent of Outfall Map Complete?
(Part II, III, IV or V, Subpart B.3.(a.) of 2003 permit)

100%

If 100% of 2003 requirements not met, enter an
estimated date of completion (MM/DD/YY):

Web address where MS4 map is published:

*If outfall map is unavailable on the internet an electronic
or paper copy of the outfall map must be included with
NOI submission (see section V for submission options)*

Printed copy is attached.

Regulatory Authorities (if covered under the 2003 permit)

Illicit Discharge Detection and Elimination (IDDE) Authority Adopted?
(Part II, III, IV or V, Subpart B.3.(b.) of 2003 permit)

No

Effective Date or Estimated
Date of Adoption (MM/DD/YY):

07/01/19

Construction/Erosion and Sediment Control (ESC) Authority Adopted?
(Part II, III, IV or V, Subpart B.4.(a.) of 2003 permit)

No

Effective Date or Estimated
Date of Adoption (MM/DD/YY):

07/01/19

Post- Construction Stormwater Management Adopted?
(Part II, III, IV or V, Subpart B.5.(a.) of 2003 permit)

No

Effective Date or Estimated
Date of Adoption (MM/DD/YY):

07/01/19

Part II: Summary of Receiving Waters

Massachusetts list of impaired waters: Massachusetts 2014 List of Impaired Waters- <http://www.mass.gov/eea/docs/dep/water/resources/07v5/14list2.pdf>

Check off relevant pollutants for discharges to impaired waterbodies (see above 303(d) lists) without an approved TMDL in accordance with part 2.2.2.a of the permit. List any other pollutants in the last column, if applicable.

[illegible]

[illegible]

Click to lengthen table

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Part III: Stormwater Management Program Summary

Identify the Best Management Practices (BMPs) that will be employed to address each of the six Minimum Control Measures (MCMs). For municipalities/organizations whose MS4 discharges into a receiving water with an approved Total Maximum Daily Load (TMDL) and an applicable waste load allocation (WLA), identify any additional BMPs employed to specifically support the achievement of the WLA in the TMDL section at the end of part III.

For each MCM, list each existing or proposed BMP by category and provide a brief description, responsible parties/departments, measurable goals, and the year the BMP will be employed (public education and outreach BMPs also requires a target audience). **Use the drop-down menus in each table or enter your own text to override the drop down menu.**

MCM 1: Public Education and Outreach

BMP Media/Category (enter your own text to override the drop down menu)	BMP Description	Targeted Audience	Responsible Department/Parties (enter your own text to override the drop down menu)	Measurable Goal	Beginning Year of BMP Implementation
Brochures/Pamphlets	Publish outreach materials; Distribute pet waste control information to residents when they (re)apply for a pet license; distribute information to septic maintenance contractors.	Residents	Highway Department, Conservation Commission/Town Clerk	Distribute at least two educational messages within the permit term (5 years)	2018
Brochures/Pamphlets	Include information in permit materials.	Businesses, Institutions and Commercial Facilities	Building Permitting and Enforcement	Distribute at least two educational messages within the permit term (5 years)	2018
Brochures/Pamphlets	Include information in permit materials; Review and Update application forms to meet the new requirements.	Developers (construction)	Building Permitting and Enforcement	Distribute at least two educational messages within the permit term (5 years)	2018
Brochures/Pamphlets	Distribute information to industrial groups based on zoning and property use.	Industrial Facilities	Planning Department and Health Department	Distribute at least two educational messages within the permit term (5 years)	2018

Web Page	Develop/maintain stormwater website; utilize existing Town social media or develop stormwater specific account for outreach	Residents	Conservation Commission	Distribute at least two educational messages within the permit term (5 years)	2018
Displays/Posters/Kiosks	Install educational boards/signs in parks, public open space, near wetlands, etc.; Evaluate for storm drain stenciling program	Residents	Highway Operations, Conservation Commission	Distribute at least two educational messages within the permit term (5 years)	2018
Web Page	Develop/maintain stormwater website; utilize existing Town social media or develop stormwater specific account for outreach	Businesses, Institutions and Commercial Facilities	Conservation Commission	Distribute at least two educational messages within the permit term (5 years)	2018
Web Page	Develop/maintain stormwater website; utilize existing Town social media or develop stormwater specific account for outreach	Developers (construction)	Conservation Commission	Distribute at least two educational messages within the permit term (5 years)	2018
Web Page	Develop/maintain stormwater website; utilize existing Town social media or develop stormwater specific account for outreach	Industrial Facilities	Conservation Commission	Distribute at least two educational messages within the permit term (5 years)	2018

[illegible]

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 2: Public Involvement and Participation

BMP Categorization	Brief BMP Description (enter your own text to override the drop down menu)	Responsible Department/Parties (enter your own text to override the drop down menu)	Additional Description/ Measurable Goal	Beginning Year of BMP Imple- mentation
Public Review	SWMP Review	Highway Department	Allow annual review of stormwater management plan and posting of stormwater management plan on website	2019
Public Participation	SWMP Review	Highway Department	Allow public to comment on stormwater management plan annually	2019
Public Participation	Partnership - Advocacy Groups	Highway Department, Conservation Commission	Maintain/acquire membership with local stormwater groups (Southeastern Massachusetts Stormwater Collaborative, Taunton River Watershed Alliance).	2019
Public Review	Website	Highway Department	Publish contact on stormwater website for soliciting complaints, questions, etc.	2019
Public Participation	Household haz. waste/used oil collection	Highway Operations	Continue to host Town hazardous waste collection days with various groups.	2019
Public Participation	Stormwater Committee/Task Force	Highway Operations	Reestablish volunteer Stormwater Management Task Force for clean-ups, maintenance, etc.	2019
Public Participation	Stormwater Committee/Task Force	Conservation Commission	Continue to research the naming of streams.	2019

[illegible]

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary *(continued)*

MCM 3: Illicit Discharge Detection and Elimination (IDDE)

BMP Categorization (enter your own text to override the drop down menu)	BMP Description	Responsible Department/Parties (enter your own text to override the drop down menu)	Measurable Goal (all text can be overwritten)	Beginning Year of BMP Implementation
SSO inventory	Develop SSO inventory in accordance of permit conditions	Sewer Department	Complete within 1 year of effective date of permit	2019
Storm sewer system map	Create map and update during IDDE program completion	Highway Operations, Consultant	Update map within 2 years of effective date of permit and complete full system map 10 years after effective date of permit	2020
Written IDDE program	Create written IDDE program	Highway Operations, Consultant	Complete within 1 year of the effective date of permit and update as required	2019
Implement IDDE program	Implement catchment investigations according to program and permit conditions	Highway Operations, Consultant	Complete 10 years after effective date of permit	2028
Employee training	Train employees on IDDE implementation	Consultant	Train annually	2019
Conduct dry weather screening	Conduct in accordance with outfall screening procedure and permit conditions	Highway Operations, Consultant	Complete 3 years after effective date of permit	2021
Conduct wet weather screening	Conduct in accordance with outfall screening procedure	Highway Operations, Consultant	Complete 10 years after effective date of permit	2028
Ongoing screening	Conduct dry weather and wet weather screening (as necessary)	Highway Operations, Consultant	Complete ongoing outfall screening upon completion of IDDE program	2019
IDDE Ordinance/Bylaw	Adopt new stormwater management bylaw	Highway Operations	Complete a final draft of the stormwater management bylaw and adopt within 1 year of the effective date of permit	2019

[illegible]

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 4: Construction Site Stormwater Runoff Control

BMP Categorization (enter your own text to override the drop down menu or entered text)	BMP Description	Responsible Department/Parties (enter your own text to override the drop down menu)	Measurable Goal (all text can be overwritten)	Beginning Year of BMP Implementation
Site inspection and enforcement of Erosion and Sediment Control (ESC) measures	Complete written procedures of site inspections and enforcement procedures	Highway Operations, Building Department, Planning Department, Conservation	Complete within 1 year of the effective date of permit	2019
Site plan review	Complete written procedures of site plan review and begin implementation	Building Department, Planning Department	Complete within 1 year of the effective date of permit	2019
Erosion and Sediment Control	Adoption of requirements for construction operators to implement a sediment and erosion control program	Building Department, Planning Department, Highway Department and Conserva	Complete within 1 year of the effective date of permit	2019
Waste Control	Adoption of requirements to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes	Building Department, Planning Department, Health Department, Highway Depar	Complete within 1 year of the effective date of permit	2019
Construction Ordinance/Bylaw	Adopt new stormwater management bylaw	Highway Operations	Complete a final draft of the stormwater management bylaw and adopt within 1 year of the effective date of permit	2019

[illegible]

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 5: Post-Construction Stormwater Management in New Development and Redevelopment

BMP Categorization (enter your own text to override the drop down menu or entered text)	BMP Description	Responsible Department/Parties (enter your own text to override the drop down menu)	Measurable Goal (all text can be overwritten)	Beginning Year of BMP Implementation
As-built plans for on-site stormwater control	The procedures to require submission of as-built drawings and ensure long term operation and maintenance will be a part of the SWMP	Highway Department, Planning Department, Building Department	Require submission of as-built plans for completed projects	2021
Target properties to reduce impervious areas	Identify at least 5 permittee-owned properties that could be modified or retrofitted with BMPs to reduce impervious areas and update annually	Highway Department	Complete 4 years after effective date of permit and report annually on retrofitted properties	2021
Allow green infrastructure	Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist	Highway Department, Planning Department, Building Department	Complete 4 years after effective date of permit and implement recommendations of report	2021
Street design and parking lot guidelines	Develop a report assessing requirements that affect the creation of impervious cover. The assessment will help determine if changes to design standards for streets and parking lots can be modified to support low impact design options.	Highway Department, Planning Department	Complete 4 years after effective date of permit and implement recommendations of report	2021

[illegible]

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 6: Municipal Good Housekeeping and Pollution Prevention

BMP Categorization (enter your own text to override the drop down menu or entered text)	BMP Description	Responsible Department/Parties (enter your own text to override the drop down menu)	Measurable Goal (all text can be overwritten)	Beginning Year of BMP Implementation
O&M procedures	Create written O&M procedures including all requirements contained in 2.3.7.a.ii for parks and open spaces, buildings and facilities, and vehicles and equipment	Highway Operations	Complete and implement 2 years after effective date of permit	2020
Inventory all permittee-owned parks and open spaces, buildings and facilities, and vehicles and equipment	Create inventory	Highway Operations	Complete 2 years after effective date of permit and implement annually	2020
Infrastructure O&M	Establish and implement program for repair and rehabilitation of MS4 infrastructure	Highway Operations	Complete 2 years after effective date of permit	2020
Stormwater Pollution Prevention Plan (SWPPP)	Create SWPPPs for maintenance garages, transfer stations, and other waste-handling facilities	Highway Operations	Complete and implement 2 years after effective date of permit	2020
Catch basin cleaning	Establish schedule for catch basin cleaning such that each catch basin is no more than 50% full and clean catch basins on that schedule	Highway Operations	Clean catch basins on established schedule and report number of catch basins cleaned and volume of material moved annually	2019
Street sweeping program	Sweep all streets and permittee-owned parking lots in accordance with permit conditions	Highway Operations	Sweep all streets and permittee-owned parking lots once per year in the spring	2019
Road salt use optimization program	Establish and implement a program to minimize the use of road salt	Highway Operations	Implement salt use optimization during deicing season	2019

[illegible]

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

Actions for Meeting Total Maximum Daily Load (TMDL) Requirements

Use the drop-down menus to select the applicable TMDL, action description to meet the TMDL requirements, and the responsible department/parties. If no options are applicable, or more than one, **enter your own text to override drop-down menus.**

[illegible]

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

Actions for Meeting Requirements Related to Water Quality Limited Waters

Use the drop-down menus to select the pollutant causing the water quality limitation and enter the waterbody ID(s) experiencing excursions above water quality standards for that pollutant. Choose the action description from the dropdown menu and indicate the responsible party. If no options are applicable, or more than one, **enter your own text to override drop-down menus.**

[illegible]

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Page 19 of 20

Part IV: Notes and additional information

Use the space below to indicate the part(s) of 2.2.1 and 2.2.2 that you have identified as not applicable to your MS4 because you do not discharge to the impaired water body or a tributary to an impaired water body due to nitrogen or phosphorus. Provide all supporting documentation below or attach additional documents if necessary. Also, provide any additional information about your MS4 program below.

Attachments:

Figure: MS4 Outfalls

USFWS Correspondence

The outfalls included in Part II: Summary of Receiving Waters were selected based on a 100 foot distance from any waters of the U.S. Coordinates listed under unnamed water segments are based on the NAD 1983 StatePlane Massachusetts FIPS 2001 (US Feet) Coordinate System, and are listed as latitude/longitude in decimal degrees.

Regarding the ESA section 7 consultation, I agree that the MS4 Permit will not adversely affect the Northern Long-eared Bat, nor the Plymouth Redbelly Turtle.

Regarding the National Historic Preservation Act, under 36 CFR 800, this facility is an existing facility authorized by the previous Permit, and is not undertaking any activity involving subsurface land disturbance less than 1 acre. This MS4 Permit will have "no potential to cause effects," in accordance with 36 CFR 800.3(a)(1).

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Page 20 of 20

Part V: Certification

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 gather and evaluate 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, I certify that the information submitted is, to the best of my knowledge and belief, 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.

Name:

Title:

Signature:

Date:

[To be signed according to Appendix B, Subparagraph B.11, Standard Conditions]

Note: When prompted during signing, save the document under a new file name

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Page 20 of 20

Part V: Certification

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Name:

David D. Flaherty Jr.

Title:

Town Administrator

Signature:

David D. Flaherty Jr.

Date:

9/27/18

[To be signed according to Appendix B, Subparagraph B.11, Standard Conditions]

Note: When prompted during signing, save the document under a new file name



United States Department of the Interior

FISH AND WILDLIFE SERVICE



New England Field Office
70 Commercial St, Suite 300
Concord, NH 03301-5087
<http://www.fws.gov/newengland>

September 24, 2018

To whom it may concern:

The U.S. Fish and Wildlife Service (USFWS) reviewed the stormwater discharge activities associated with the 2016 National Pollutant Discharge and Elimination System (NPDES) Massachusetts (MA) Small Municipal Separate Storm Sewer System (MS4) general permit (MA MS4 General Permit) issued by the Environmental Protection Agency (EPA). We determined those activities may affect, but are not likely to adversely affect, certain species listed under the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) when specific conditions are met. When these conditions are met, we do not need to review individual projects. These comments are provided in accordance with section 7 of the ESA and complement existing 2016 MA MS4 General Permit Appendix C Guidance. We understand the applicant is acting as a non-Federal representative of the EPA for the purpose of consultation under section 7. **This letter provides additional guidance for meeting Criterion B and should be submitted as part of your application package to the EPA.**

If the USFWS Information for Planning and Consultation website (<https://ecos.fws.gov/ipac/>) indicates your MA MS4 General Permit project action area may contain one or more of the following federally listed endangered species: roseate tern (*Sterna dougallii*), northern red-bellied cooter (*Pseudemys rubriventris*), dwarf wedgemussel (*Alasmidonta heterodon*), rusty patched bumble bee (*Bombus affinis*), northeastern bulrush (*Scirpus ancistrochaetus*), or American chaffseed (*Schwalbea americana*); threatened species: piping plover (*Charadrius melodus*), bog turtle (*Glyptemys muhlenbergii*), Puritan tiger beetle (*Cicindela puritana*), northeastern beach tiger beetle (*Cicindela dorsalis*), or red knot (*Calidris canutus rufa*); or their federally designated critical habitat; and the specific conditions listed below are met, you may submit this letter to complete the **MA MS4 General Permit Appendix C: Step 4** in place of a concurrence letter for informal consultation as documentation of ESA eligibility for **USFWS Criterion B**.

In addition, this letter also satisfies the requirement in the **MA MS4 General Permit Appendix C: Step 2 (3)** to contact the USFWS and obtain a concurrence letter, if you have not yet done so. If your project action area includes one or more of the above-listed species *and* one or more of the

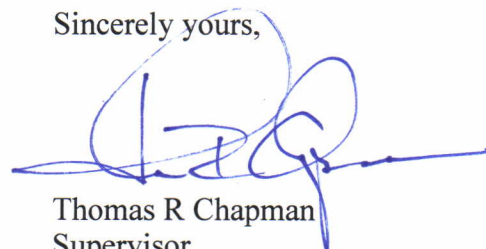
species listed under **Criterion C**,¹ you may still use this letter to certify under **Criterion B**. All existing guidance regarding requirements for certifying eligibility according to the USFWS Criterion A, B, or C for coverage by the 2016 MS4 Permit (see MA MS4 General Permit Appendix C – Endangered Species Guidance) remains unchanged.

We have determined that proposed stormwater discharge activities covered under the 2016 MS4 Permit *may affect, but are not likely to adversely affect*, the above-listed species and the species' critical habitat when the following are true:

1. all stormwater discharges are pre-existing or previously permitted by EPA;
2. any planned operations and maintenance work covered by this permit will only affect previously disturbed areas where stormwater controls are already installed. In these situations the chance of encountering any of the subject species is discountable;
3. the project implements EPA MS4 Best Management Practices (BMPs) and meets Clean Water Act and Massachusetts Water Quality Standards. Although permitted discharges may reach the environment used by these species, BMPs reduce pollutants to the extent that discharges are not known to have measurable impacts on these species or their habitat;
4. no new construction or structural BMPs are proposed under this permit at this time; and
5. you agree that if, during the course of the permit term, you plan to install a structural BMP not identified in the Notice of Intent (NOI), you will re-initiate consultation with the USFWS as necessary (see **MA MS4 General Permit Appendix C: Step 2 (5)**).

If the above criteria are met, further consultation with the USFWS under section 7 of the ESA is not required at this time; however, if the proposed action changes in any way such that it may affect a listed species in a manner not previously analyzed or if new information reveals the presence of additional listed species that may be affected by the project, the applicant or the EPA should contact us immediately and suspend activities that may affect those species until the appropriate level of consultation is completed with our office. Thank you for your cooperation, and please contact David Simmons of this office at (603) 227-6425 if you have questions or need further assistance.

Sincerely yours,



Thomas R Chapman
Supervisor
New England Field Office

¹ Criterion C includes guidance for project action areas that may contain species for which EPA has already made a determination. These species include the northern long-eared bat (*Myotis septentrionalis*), sandplain gerardia (*Agalinis acuta*), small whorled pogonia (*Isotria medeoloides*), and/or American burying beetle (*Nicrophorus americanus*) (MA MS4 General Permit Appendix C: Step 3 – Determine if You Can Meet Eligibility USFWS Criterion C).

1900 Crown Colony Drive, Suite 402
Quincy, MA 02169

August 15, 2018

To: U.S. Fish and Wildlife Service
New England Field Office
70 Commercial St., Suite 300
Concord, NH 03301

RE: Project Review Request, Raynham MS4, Raynham, MA, 05E1NE00-2018-SLI-2433

We have reviewed the referenced project using the Environmental Protection Agency's (EPA) project review process for our Municipal Separate Storm Sewer System (MS4) and have followed all guidance and instructions in completing the review. We completed our review on July 18, 2018, and are submitting our project package in accordance with the instructions for further review. The U.S. Fish and Wildlife Service's (Service) Information for Planning and Consultation (IPaC) species list indicated these species may be present in the project area: Northern Long-eared Bat *Myotis septentrionalis*, and the Plymouth Redbelly Turtle *Pseudemys rubriventris bangsi*. We are submitting this letter as a non-Federal representative of the EPA pursuant to the requirements of the EPA's process for NPDES/MS4 permits.

Our proposed action consists of stormwater management projects including the evaluation for best management practices (BMPs) to reduce pollutant discharges and general pollutant load reduction through MS4 Permit implementation and enforcement. The Town of Raynham will be continuing stormwater maintenance and activities listed in the Year 15 NPDES PII Small MS4 General Permit Annual Report, which is included in the attachments. Planned activities within the MS4 area will not pose a disturbance to the habitats of the aforementioned species.

The location action area is identified on the enclosed map. This USGS topographic quadrangle displays the entirety of the Raynham MS4 project area. The MS4 area is designated using both the 2000 and 2010 U.S. census urbanized area.

Permit implementation will begin in the fall of 2018 and the permit has an expiration date of June 30, 2022.

This is a request for review by the Service pursuant to section 7 of the Endangered Species Act. We determined that the project may affect, but is not likely to adversely affect the above listed species, because:

- This project does not involve tree cutting or manipulating a structure that could be used by the Northern Long-eared Bat. For a variety of reasons, this project would have no effect on the Northern Long-eared Bat and no additional explanation is needed in this letter.
- Although discharges from the Raynham MS4 may reach the habitat of the Plymouth Redbelly Turtle, the project implements activities that would diminish pollutants to the extent that discharge is not known to adversely affect the Plymouth Redbelly Turtle.

The enclosed project package provides the information about the species and/or critical habitat

considered in our review, and we identified our determinations for the resources that may be affected by the project. We request you concur with our determination that the project may affect, but is not likely to adversely affect the species described above.

For additional information, please contact Eric Kelley at the address listed above, by phone at 617-657-0282, or eak@envpartners.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "E. Kelley", with a stylized flourish at the end.

Environmental Partners Group, Inc.
Eric A. Kelley, P.E.
Project Manager
P: (617) 657-0282
E: eak@envpartners.com

Enclosures:

- 1) IPaC Report
- 2) Year 15 NPDES PII Small MS4 General Permit Annual Report – Town of Raynham, MA
- 3) USGS Topographic Quadrangle – Town of Raynham, MA



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:
Consultation Code: 05E1NE00-2018-SLI-2433
Event Code: 05E1NE00-2018-E-05649
Project Name: Raynham

July 18, 2018

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: 05E1NE00-2018-SLI-2433

Event Code: 05E1NE00-2018-E-05649

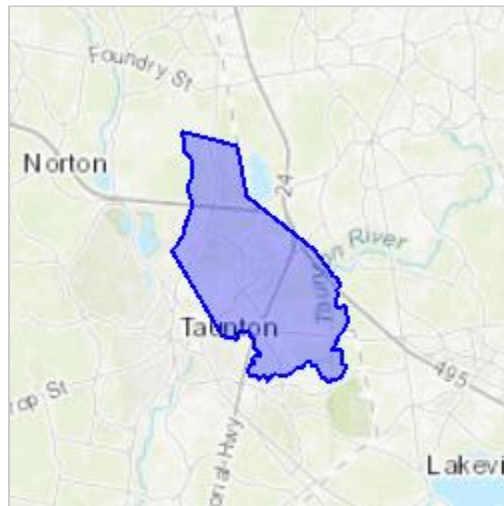
Project Name: Raynham

Project Type: ** OTHER **

Project Description: Stormwater MS4

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/41.9368569693905N71.04906439991947W>



Counties: Bristol, MA | Plymouth, MA

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this 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.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Reptiles

NAME	STATUS
Plymouth Redbelly Turtle <i>Pseudemys rubriventris bangsi</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/451	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Municipality/Organization: Town of Raynham, MA

EPA NPDES Permit Number: MAR 041151

MassDEP Transmittal Number:

W-XZ 809 45

Annual Report Number Year 15

& Reporting Period:

April 1, 2017 – March 31, 2018

**NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2018)**

Part I. General Information

Contact Person: David Flaherty

Title: Interim Town Administrator

Telephone #: 508.824.2707

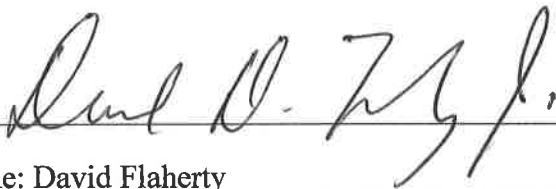
Email: dflaherty@town.raynham.ma.us

Mailing Address: 558 South Main Street, Raynham, MA 02767

Certification:

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 gather and evaluate 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:



Printed Name: David Flaherty

Title: Interim Town Administrator

Date: 6/7/2018

Part II. Self-Assessment

The Town of Raynham, MA has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions except for the following provisions:

Section 1.1 Public Outreach –No classroom presentations made (no conservation agent to conduct them at this time)

Section 2.2 Illicit Discharge Detection & Elimination By-law has not been accepted as a Town by-law as of this date. However, the Town has continued to enforce health regulations preventing illegal discharges to the Town's stormwater system. Approximately 90% of the town's residents are already sewered or have town sewer available.

Part III. Summary of Minimum Control Measures

STORMWATER REPORT

Part III Summary of Minimum Control Measures

1. Public Education and Outreach

<u>BMP ID#</u>	<u>BMP Description</u>	<u>Responsible Dept./Person</u>	<u>Measurable Goal(s)</u>	<u>Progress on Goal(s) Permit Year 15</u>
1.1	Introduce topic to students as appropriate	Public Education task force	Classroom presentations	No presentations made this year.
1.2	Design & Distribute Brochure	Town Administrator	Raise public awareness pollution of stormwater	Completed in year 2
1.3	Stencil storm drains	Highway Department/ Highway Superintendent	Identify MS4 for public	Completed in year 4

1.4	Create Public Education Task Force	Raynham Board of Selectmen/Town Administrator	Board of Selectmen appoints Task Force	Completed in year 1
1.5.	Create awareness with education incentives	North & Center Water District Supts.	Create scholarship fund	Small scholarship fund created

2. Public Involvement and Participation

<u>BMP ID#</u>	<u>BMP Description</u>	<u>Responsible Dept./Person</u>	<u>Measurable Goal(s)</u>	<u>Progress on Goal(s) Permit Year 15</u>
2.1	Form Technical Comm.	Town Administrator/ Board of Selectmen	Board of Selectmen vote to form committee	Completed in year 1
2.2	Tech.Comm.drafts by-law	Technical Committee	Illicit Discharge and E & S bylaws presented to Town	Draft By-Law ready
2.3	Use media to educate and motivate residents to comply	Technical Committee employees of town agencies	Positive press coverage of storm water meeting activities	Occasional announcements made at Selectmen/Health and Conservation meetings
2.4	Solicit residents to report discharges	Task Force	Residents report	<u>No</u> incidents reported this year

2.5	Provide public notice of all meetings/hearings	Technical Committee	Public attends Meeting & Hearings	No meetings held this year.
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2A Additions

2.6	HHW Collection	Highway Supt	Hold one Town-wide event annually	Town-wide event held on June 3, 2017 (by Clean Harbors) 152 residents participated
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3. Illicit Discharge Detection and Elimination

<u>BMP ID#</u>	<u>BMP Description</u>	<u>Responsible Dept./Person</u>	<u>Measurable Goal(s)</u>	<u>Progress on Goal(s) Permit year 15</u>
3.1	Map MS4 Outfalls	Highway & Planning Dept	Produce Maps of MS4	Initial mapping completed in Year 7, Updates for pipe connectivity made in Year 15 (field verification & as-built reviews)
3.2	Dry weather screening during routine catch basin cleaning	Highway Dept. Superintendent/Employees	Monitor MS4	Highway Dept. checked catch basins for dry weather flows (none found)
3.3	Inspections during routine detention/retention basin mowing	Highway Supt.	Monitor MS4	Highway Dept. inspected detention basins for dry weather flows (none found)
3.4	Illicit Discharge By Law enforcement.	Highway Supt.	Violations caught or discouraged	No illegal discharge events

3.5	Prvd.Insp. & tech. assist. to & ZBA Boards	Highway & Planning Board Dept/Hiway & P.B	Develop & enforce Management practices	On-going
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4. Construction Site Stormwater Runoff Control

<u>BMP IC#</u>	<u>BMP Description</u>	<u>Responsible Dept./Person</u>	<u>Measurable Goal(s)</u>	<u>Progress on Goal (s) Permit Year 15</u>
4.1	Devlp.by-law for construction along accepted ways	BOS & Hiway Dept.Town Adm& Hiway Supt.	Required permit & cash bond before excav. along town ways	Completed in Year 3. 54 such permits were issued during the year.
4.2	Conduct subdivision review & inspections	Hiway & Planning Dept/Hiway Supt.& Planning Board	Enforce const. of aprv.plans through subdivision cont.	Two subdivision reviewed for compliance during construction (Bassett Knoll & Whippoorwill)
4.3	Develp.P.B.& ZBA to address MS4 issues	Highway & Planning Dept./Hiway & P.B.Agents	Provide regulations addressing MS4 issues	Completed
4.4	Enforce by-laws & PB reg.	Highway & Planning Hiway Supt & P.B. Regs	Encourage proper management of MS4 issues	All new subdivisions and sites of greater than 1 acre were inspected for proper MS4

4.5	Conduct routine & impromptu inspections during construction	Highway Dept / Highway Supt. or designated agent	Discourage MS4 violations & encourage best Mgt.Practices	Highway employees conducted scheduled & unscheduled inspec.of all construction sites requiring stormwater control
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5. Post-Construction Stormwater Management in New Development and Redevelopment

<u>BMP ID#</u>	<u>BMP Description</u>	<u>Responsible Dept/Person</u>	<u>Measurable Goals</u>	<u>Progress on Goal (s) Permit Year 15</u>
5.1	Monitor,review & assess compliance with MS4 regs.	Hwy & Planning Board Depts/Hwy Supt & P.B. agents	Use bond surety to insure compliance with regulations	Fees for maintenance of MS4 in new developments collected-two subdivisions
5.2	Periodic assessment of BMP's for MS4	Hiway & Planning Board Depts/Hiway Supt. & P.B.agent	Ongoing evaluation of what is working and what is not	No review this year.
5.3	Provide tech support & BMP's to aprop. Boards agencies	Hiway, P.B & Tech.& Cmt/Hiway Supt. P.B.agents & Cmt member.	Ongoing assessment & use of improved BMP	Planning Board allows Low Impact Development techniques.
5.4	Required review & Comment B/4 bond reduction (or) return	Planning & Appeals Board Chairman each Board	Ensure compliance of BMP's of developing projects	Town Engineer/Hwy Supt. did final inspection of two projects before acceptance

6. Pollution Prevention and Good Housekeeping in Municipal Operations

<u>BMP ID #</u>	<u>BMP Description</u>	<u>Responsible Dept/Person</u>	<u>Measurable Goals</u>	<u>Progress on Goal(s) Permit Year 15</u>
6.1	Regular cleaning & inspections of catch basin	Hiway Dept./ Hiway Supt responsible Dept./Person Name	Regular assessment structure & removal of road soils	80% of catch basins cleaned & inspected annually
6.2	Regular Street sweeping	Hiway Dept/Hiway Supt.	Regular & periodic removal of road soils	All streets in Town swept at least once. Some major arteries twice. School & town lots also swept
6.3	Installation of deep sump basins	Hiway Dept/ Hiway Supt.	Collection of additional road soils from MS 4 systems	No deep sumps added during reporting period
6.4	Provide employee regds.train.hazs. mat. clean up & disposal	Hiway Dept/Hiway Supt.	Employees are trained in Hazmat	Employee maintained Hazmat certification (8 hours)
6.5	Provide work orders system	Hiway Dept/Hiway Supt & General Foreman	Provide records of mat. removed & work pref.on MS4	Work order system functioning well

Part IV. Summary of Information collected and Analyzed

The town is now operating with an approximately 92 percent sanitary sewer system. No illegal connections were detected during this reporting period. Further expansion of the sewer system is continuing.

All streets were swept of sand and salt at least once. Some of the Town's major arteries were swept twice.

Highway Department mowed and otherwise maintained all (100%) of the detention/retention basins in Town thanks to a fund established in 1988. Developers pay a \$500 per lot fee into a perpetual maintenance account established for the purpose of maintaining stormwater structures in subdivisions.

80% of catch basins were cleaned during reporting period out of 1800 total catch basins. These were checked for dry weather flows at the time of cleaning. 652.47 tons of material was taken to the Taunton Landfill operated by Waste Management.

All construction sites were inspected for adequate erosion and sediment control.

Annual Household Hazardous Waste Day was held at the Town's recycling and transfer station with Clean Harbors as the vendor. 152 residents brought household hazardous waste to this event in June of 2017.

There were no reports of illegal dumping/disposal into the Town's MS4 system.

30 bonds of \$2,000 each were collected for building lots on accepted roads to ensure adequate protection of the roadway and storm drainage.

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2014 through March 31, 2015)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures **	(\$)	\$40,000 est.
Total program expenditures since beginning of permit coverage	(\$)	\$700,000 est.
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		Stormwater Stabilization Account/General Fund

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	30%
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	N
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	1 Annually
▪ community participation **	(# or %)	152
▪ material collected **	(tons or gal)	Var.
School curricula implemented	(y/n)	

Legal/Regulatory

	<i>In Place</i> Prior to	<i>Reviewing</i> Existing	<i>Draft</i> in	
	Phase II	Authorities Drafted	Review	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination			X	
▪ Erosion & Sediment Control				X
▪ Post-Development Stormwater Management				X
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination				
▪ Erosion & Sediment Control				X
▪ Post-Development Stormwater Management				X

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	175
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	
Mapping method(s)		
▪ Paper/Mylar	(%)	
▪ CADD	(%)	
▪ GIS	(%)	100%
Outfalls inspected/screened **	(# or %)	20%
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	100%
Illicit discharges identified **	(#)	0
Illicit discharges identified (Since beginning of permit coverage)	(#)	3
Illicit connections removed **	(#); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	3
% of population on sewer	(%)	92%
% of population on septic systems	(%)	11%

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	12
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	4 hwy/37 bldg
Tickets/Stop work orders issued **	(# or %)	0
Fines collected **	(# and \$)	0
Complaints/concerns received from public **	(#)	0

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-	(%)	100%
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construction stormwater control		
Site inspections (for proper BMP installation & operation) completed **	(# or %)	2
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Y
Low-impact development (LID) practices permitted and encouraged	(y/n)	Y

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	Every 2 years
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	1x/year
Qty of structures cleaned **	(#)	1500
Qty. of storm drain cleaned **	(%, LF or mi.)	10%
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	652 ton (2 yrs)
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Beneficial Use

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$20,000 est.
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	\$20/ea
• Disposal cost**	(\$)	\$0
Cleaning Equipment		
Clam shell truck(s) owned	(#)	1
Vacuum truck(s) owned/leased	(#)	0
Vacuum trucks specified in contracts	(y/n)	N
% Structures cleaned with clam shells **	(%)	99%
% Structures cleaned with vacor **	(%)	1%

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	2
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	65 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Taunton Landfill- Beneficial Use
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$25,000 est.
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	n/a
• Disposal cost**	(\$)	\$0
Sweeping Equipment		
• Rotary brush street sweepers owned	(#)	1
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	n
% Roads swept with rotary brush sweepers **	%	100%
% Roads swept with vacuum sweepers **	%	0%

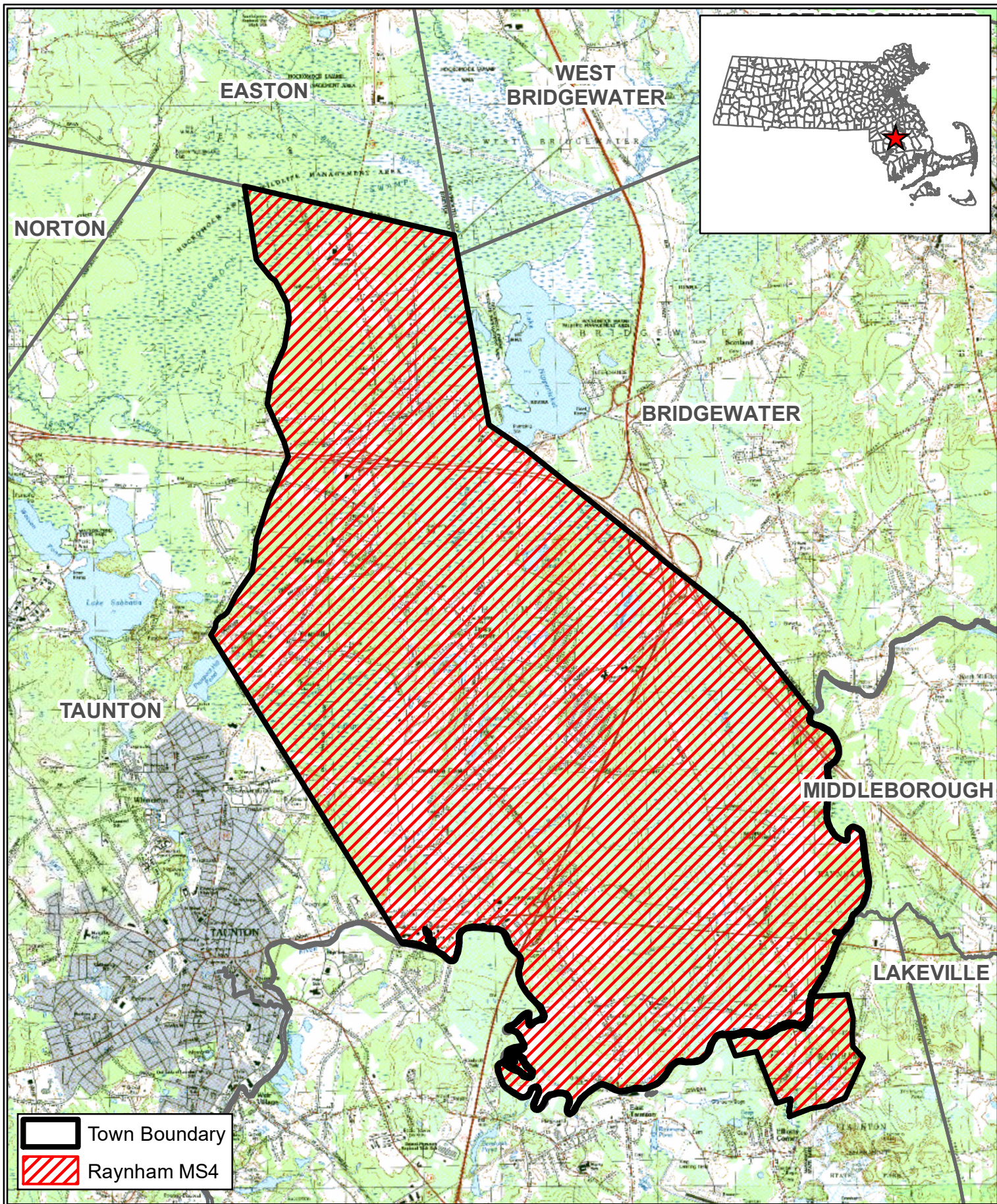
Reduction (since beginning of permit coverage) in application on public land of:
 ("N/A" = never used; "100%" = elimination)

▪ Fertilizers	(lbs. or %)	25%
▪ Herbicides	(lbs. or %)	25%
▪ Pesticides	(lbs. or %)	25%
Integrated Pest Management (IPM) Practices Implemented	(y/n)	Signs installed

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	95 5
Pre-wetting techniques utilized **	(y/n or %)	Y
Manual control spreaders used **	(y/n or %)	Y
Zero-velocity spreaders used **	(y/n or %)	N
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/l _n mi. or %)	20%
Estimated net reduction or increase in typical year sand application rate **	(±lbs/l _n mi. or %)	90%
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%
Storage shed(s) in design or under construction	(y/n or #)	Y
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	Y

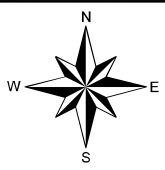
Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	n/a
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	
Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	

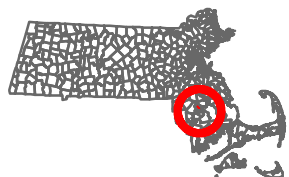
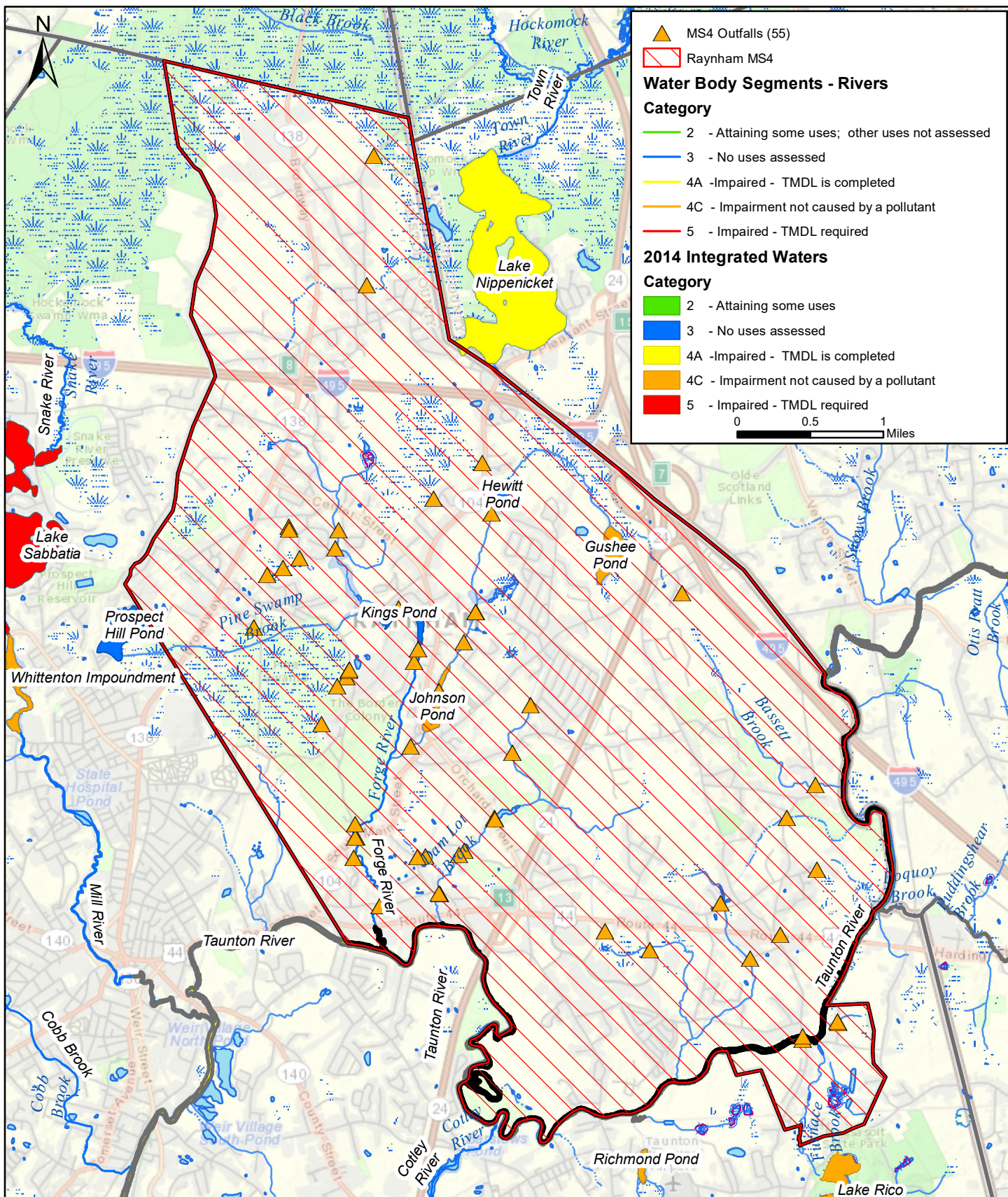


-  Town Boundary
-  Raynham MS4

0 2,750 5,500 11,000 Feet



USGS Topographic Quadrangle
Raynham, Massachusetts



MS4 Outfalls
Raynham, Massachusetts
August 2018



Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 3: Illicit Discharge Detection and Elimination (IDDE)

BMP Categorization (enter your own text to override the drop down menu)	BMP Description	Responsible Department/Parties (enter your own text to override the drop down menu)	Measurable Goal (all text can be overwritten)	Beginning Year of BMP Implementation
SSO inventory	Develop SSO inventory in accordance of permit conditions	Sewer Department	Complete within 1 year of effective date of permit	2019
Storm sewer system map	Create map and update during IDDE program completion	Highway Operations, Consultant	Update map within 2 years of effective date of permit and complete full system map 10 years after effective date of permit	2020
Written IDDE program	Create written IDDE program	Highway Operations, Consultant	Complete within 1 year of the effective date of permit and update as required	2019
Implement IDDE program	Implement catchment investigations according to program and permit conditions	Highway Operations, Consultant	Complete 10 years after effective date of permit	2018
Employee training	Train employees on IDDE implementation	Consultant	Train annually	2019
Conduct dry weather screening	Conduct in accordance with outfall screening procedure and permit conditions	Highway Operations, Consultant	Complete 3 years after effective date of permit	2018
Conduct wet weather screening	Conduct in accordance with outfall screening procedure	Highway Operations, Consultant	Complete 10 years after effective date of permit	2018
Ongoing screening	Conduct dry weather and wet weather screening (as necessary)	Highway Operations, Consultant	Complete ongoing outfall screening upon completion of IDDE program	2019
IDDE Ordinance/Bylaw	Adopt new stormwater management bylaw	Highway Operations	Complete a final draft of the stormwater management bylaw and adopt within 1 year of the effective date of permit	2019

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 5: Post-Construction Stormwater Management in New Development and Redevelopment

BMP Categorization (enter your own text to override the drop down menu or entered text)	BMP Description	Responsible Department/Parties (enter your own text to override the drop down menu)	Measurable Goal (all text can be overwritten)	Beginning Year of BMP Implementation
As-built plans for on-site stormwater control	The procedures to require submission of as-built drawings and ensure long term operation and maintenance will be a part of the SWMP	Highway Department, Planning Department, Building Department	Require submission of as-built plans for completed projects	2018
Target properties to reduce impervious areas	Identify at least 5 permittee-owned properties that could be modified or retrofitted with BMPs to reduce impervious areas and update annually	Highway Department	Complete 4 years after effective date of permit and report annually on retrofitted properties	2021
Allow green infrastructure	Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist	Highway Department, Planning Department, Building Department	Complete 4 years after effective date of permit and implement recommendations of report	2021
Street design and parking lot guidelines	Develop a report assessing requirements that affect the creation of impervious cover. The assessment will help determine if changes to design standards for streets and parking lots can be modified to support low impact design options.	Highway Department, Planning Department	Complete 4 years after effective date of permit and implement recommendations of report	2021