

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

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Part I: General Conditions

General Information

Name of Municipality or Organization:	City of Cambridge	State:	MA
EPA NPDES Permit Number (if applicable):	MAR041076		

Primary MS4 Program Manager Contact Information

Name:	Catherine Daly Woodbury	Title:	Project Manager, Department of Public Works		
Street Address Line 1:	147 Hampshire Street				
Street Address Line 2:					
City:	Cambridge	State:	MA	Zip Code:	02139
Email:	cwoodbury@cambridgema.gov	Phone Number:	(617) 349-4818		
Fax Number:	(617) 349-4868				

Other Information

Stormwater Management Program (SWMP) Location (web address or physical location, if already completed):	http://www.cambridgema.gov/theworksourservices/stormwatermanagement/stormwatermanagementplan
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Eligibility Determination

Endangered Species Act (ESA) Determination Complete?	Yes	Eligibility Criteria (check all that apply):	<input type="checkbox"/> A	<input type="checkbox"/> B	<input checked="" type="checkbox"/> C
National Historic Preservation Act (NHPA) Determination Complete?	Yes	Eligibility Criteria (check all that apply):	<input type="checkbox"/> A	<input type="checkbox"/> B	<input checked="" type="checkbox"/> 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: <i>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)</i>	https://www.cambridgema.gov/theworksourservices/~media/D210302875A14F9CBD36098E0BD9C8ED.ashx www.cambridgema.gov/stormwater		

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)	Yes	Effective Date or Estimated Date of Adoption (MM/DD/YY):	01/28/08
Construction/Erosion and Sediment Control (ESC) Authority Adopted? (Part II, III, IV or V, Subpart B.4.(a.) of 2003 permit)	Yes	Effective Date or Estimated Date of Adoption (MM/DD/YY):	03/31/08
Post- Construction Stormwater Management Adopted? (Part II, III, IV or V, Subpart B.5.(a.) of 2003 permit)	Yes	Effective Date or Estimated Date of Adoption (MM/DD/YY):	03/31/08

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Part II: Summary of Receiving Waters

Please list the waterbody segments to which your MS4 discharges. For each waterbody segment, please report the number of outfalls discharging into it and, if applicable, any impairments.

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.a of the permit. List any other pollutants in the last column, if applicable.

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	Distribute brochures/fact sheets/Cityview Newsletter	Residents	DPW	Number of brochures/fact sheets distributed	2018
Brochures/Pamphlets	Distribute brochures/fact sheets/Cityview Newsletter	Businesses, Institutions and Commercial Facilities	DPW	Number of brochures/fact sheets distributed	2018
Brochures/Pamphlets	Include stormwater information in permit package	Developers (construction)	DPW	Number of brochures/fact sheets distributed	2018
Brochures/Pamphlets	Distribute brochures/fact sheets	Industrial Facilities	DPW	Numbers of brochures/fact sheets distributed	2018
Brochures/Pamphlets	Distribute Annual messaging on Pet Waste (Summer)	Dog owners - Residents	DPW	Number of brochures/fact sheets distributed	2019
Brochures/Pamphlets	Distribute Annual messaging on proper septic system maintenance	Residents with Septic Systems	DPW	Number of brochures/fact sheets distributed	2018
Brochures/Pamphlets	Distribute Annual messaging on Leaf litter (Fall)	Residents	DPW	Number of brochures/fact sheets distributed	2018
Brochures/Pamphlets	Distribute Annual messaging on Leaf litter (Fall)	Businesses, Institutions and Commercial Facilities	DPW	Number of brochures/fact sheets distributed	2018

Brochures/Pamphlets	Distribute Annual messaging on grass clippings and fertilizers (Spring)	Residents	DPW	Number of brochures/fact sheets distributed	2018
Brochures/Pamphlets	Distribute Annual messaging on grass clippings and fertilizers (Spring)	Businesses, Institutions and Commercial Facilities	DPW	Number of brochures/fact sheets distributed	2018
Web Page	Post stormwater information on webpage	Residents	DPW	Number of website views	2020
Web Page; Social Media	Post stormwater information on webpage and on DPW social media accounts	Businesses, Institutions and Commercial Facilities	DPW	Number of website views/social media followers	2020
Web Page	Post stormwater information on webpage	Developers (construction)	DPW	Number of website views/clicks on link	2020
Web Page	Post stormwater information on webpage	Industrial Facilities	DPW	Number of website views/clicks on link	2020
Presentations/Trainings	Conduct trainings and presentations	Developers (construction)	DPW	Number of participant	2020
Special Events	Rain Barrel Program	Residents	DPW	Number of rain barrels sold	2019
Social Media	Post stormwater information on DPW social media accounts	Residents	DPW	Number of social media followers	2018
Displays/Posters/Kiosks	Post stormwater information at the DPW office	General Public	DPW	Number of posters/hand outs displayed	2018
Special Events	Distribute stormwater information at events	General Public	DPW	Number of events and participants	2019
Videos	Post stormwater videos on either local cable, web site, or social media	General Public	DPW	Number of videos posted	2018

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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	DPW	Allow annual review of stormwater management plan and posting of stormwater management plan on website	2019
Public Participation	Annual Public Meeting to discuss SWMP and program status	DPW	Allow public to comment on stormwater management plan annually	2019
Public Participation	Household Hazardous Waste Collection	DPW	Number of participants/ vehicles	2018
Public Participation	Stormwater Outreach Activities for children	DPW	Track number of activities and participating children	2019
Public Participation	Stormwater Wetlands Tours	DPW	Track number of tours and number of participants	2018
Public Participation	Participation in community/neighborhood events	DPW	Track number of events and number of participants	2019
Public Participation	Solid Waste, Recycling and Compost Recycling Program	DPW	Track tonnage collected	

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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	Continue to maintain the existing SSO inventory in accordance with permit conditions	DPW	Complete within 1 year of effective date of permit	2018
Storm sewer system map	Update and enhance existing system map during the IDDE program	DPW	Update map within 2 years of effective date of permit and complete full system map 10 years after effective date of permit	2018
Written IDDE program	Update and document existing IDDE program	DPW	Complete within 1 year of the effective date of permit and update as required	2018
Implement IDDE program	Implement catchment investigations according to program and permit conditions	DPW	Complete 10 years after effective date of permit in compliance with program and permit conditions.	2019
Employee training	Expand existing employees' training program on IDDE implementation	DPW	Train annually	2018
Conduct dry weather screening	Conduct in accordance with outfall screening procedure and permit conditions	DPW	Complete 3 years after effective date of permit	2019
Conduct wet weather screening	Conduct in accordance with outfall screening procedure	DPW	Complete 10 years after effective date of permit	2019
Ongoing screening	Conduct dry weather and wet weather screening (as necessary)	DPW	Complete ongoing outfall screening upon completion of IDDE program	2021
Ongoing dry and wet weather screening	Continue screenings per current procedures until new procedures are final	DPW	Number of screenings	2018

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Part II: 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 (enter your own text to override the drop down menu)	Responsible Department/Parties (all text can be overwritten)	Measurable Goal Complete within 1 year of the effective date of permit	Beginning Year of BMP Implementation 2018
Site inspection and enforcement of Erosion and Sediment Control (ESC) measures	Review and enhance existing written procedures for site inspections and enforcement procedures	DPW		
Site plan review	Review and enhance existing written procedures for site plan review and begin implementation	DPW		
Erosion and Sediment Control	Review and enhance existing requirements for construction operators to implement a sediment and erosion control program	DPW		
Waste Control	Review and enhance existing Land Disturbance Regulation to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes	DPW		

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Part III: Stormwater Management Program Summary (continued)

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

BMP Categorization <small>(enter your own text to override the drop down menu or entered text)</small>	BMP Description <small>(enter your own text to override the drop down menu)</small>	Responsible Department/Parties <small>(all text can be overwritten)</small>	Measurable Goal <small>(all text can be overwritten)</small>	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.	DPW	Require submission of as-built plans for completed projects	2019
Target properties to reduce impervious areas	Continue identifying permittee-owned properties that could be modified or retrofitted with BMPs to reduce impervious areas and update annually. Identify at least five (5) properties.	DPW	Complete 4 years after effective date of permit and report annually on retrofitted properties	2018
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	DPW/CDD	Complete 4 years after effective date of permit and implement recommendations of report	2018
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.	DPW/CDD	Complete 4 years after effective date of permit and implement recommendations of report	2019

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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 (enter your own text to override the drop down menu)	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
Stormwater Pollution Prevention Plan (SWPPP)	Create SWPPPs for maintenance garages, transfer stations, and other waste-handling facilities	DPW	Complete and implement within 2 years after effective date of permit	2018
Inspections and maintenance of stormwater treatment structures	Update and enhance existing inspection and maintenance procedures and frequencies	DPW	Inspect and maintain treatment structures at least annually	2018
O&M procedures	Update existing 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	DPW	Complete and implement within 2 years after effective date of permit	2018
Inventory all permittee-owned parks and open spaces, buildings and facilities, and vehicles and equipment	Update existing inventory	DPW	Complete within 2 years after effective date of permit and implement annually	2019
Infrastructure O&M	Update and enhance existing program for repair and rehabilitation of MS4 infrastructure	DPW	Complete within 2 years after effective date of permit	2019
Catch basin cleaning	Update schedule for catch basin cleaning such that each catch basin is no more than 50% full and clean catch basins on that schedule	DPW	Clean catch basins on established schedule and report number of catch basins cleaned and weight of material moved annually	2019

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.**

Applicable TMDL	Action Description (enter your own text to override the drop down menu)	Responsible Department/Parties
Charles River Watershed (Bacteria/Pathogen) (MA72-36;3)	Adhere to requirements in part A.III of Appendix F	DPW
Lower Charles River (Phosphorus) (MA72-36;38)	Adhere to requirements in part A.I of Appendix F	DPW

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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.**

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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.

Unnamed Tributary "Millers River" MA 72-31 is water quality limited because of Petrol Hydrocarbons and TSS. There are no discharges from Cambridge MS4 into this segment, hence the requirements of part V of Appendix H do not apply to the City for this water body.

Blacks Nook MA71005 is water quality limited because of Nutrient/Eutrophication Biological Indicators and Secchi Disk Transparency. There are no discharges from Cambridge MS4 into this segment, hence the requirements of part II and V of Appendix H do not apply to the City for this water body.

The results from the U.S. Fish and Wildlife IPaC system determined that the City of Cambridge MS4 area contains the Northern Long-eared Bat. See attached resource list as a reference for IPaC results and A NHESP Habitats map from the MA GIS database. Using the ESA Eligibility criteria as referenced in Appendix C of the MA Small MS4 General Permit, the City falls under criterion C. Based on our review, there is no discharge related activities involving the habitat of this species of bat therefore the City's MS4 system does not affect any federally threatened or endangered listed species. The City will contact US Fish and Wildlife as needed during the permit term if new structural BMPs are planned in the future.

Much of the land abutting the Charles River is listed in the National Registry, and the City of Cambridge is planning to create new outfalls in these areas in the coming years. While Cambridge was previously covered under the 2003 permit, the City's plans for creating new outfalls in this area qualifies it for Criterion C, using the eligibility criteria in Appendix D as follows:

- Stormwater outfalls created since 2003 have undergone the MassHistoric Project Notification process with the SHPO. Based on this process, these projects had no related activities with adverse discharge effects on historic properties.
- Cambridge certifies that during the course of the new Permit term, if new structural BMPs with potential discharge related activities are planned, the City will provide Project Notification to the SHPO and comply with any measures required to prevent or mitigate any adverse discharge effects on historic properties.

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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:

Louis A. DePasquale

Title:

City Manager

Signature:

Louis DePasquale

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

Date:

9/28/18

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

City of Cambridge, MA M4 Permit Notice of Intent Eligibility Screenings Documentation

As a part of compliance with the Massachusetts MS4 General Permit, permittees are required to perform screenings to assess discharge impacts on both federally listed endangered species and historic properties. This memorandum is meant to formally document the steps taken by the City of Cambridge in certifying which eligibility criteria can be applied for both the Endangered Species Act (ESA) and National Historic Preservation Act (NHPA) Determinations.

Following MS4 Permit Appendices C and D, respectively, for the ESA and NHPA Determinations, respectively, the City of Cambridge can certify the following:

1. Cambridge certifies under Criterion C for the Endangered Species Act screening;
2. Cambridge certifies under Criterion C for the National Historical Preservation Act screening.

Since previous MS4 Permit became effective in 2003, the City of Cambridge has created or accepted three new stormwater outfalls: Western Avenue, the Alewife Stormwater Wetland, and Binney Street. These outfalls were created as part of larger projects, and therefore each underwent extensive permitting processes involving review under the Massachusetts Endangered Species Act and the MassHistoric Project Notification process with the State Historic Preservation Officer (SHPO). Based on compliance with these permitting processes, it is our determination that these activities did not adversely impact either any federally listed endangered species or any national historic properties, as certified below. The Alewife Stormwater Wetland was covered under the Construction General Permit, while the other two outfalls underwent permit review at the state and local level. Any new structural BMP activity moving forward under the new MS4 General Permit term will follow the same permitting process and be assessed accordingly to comply with the criterion identified. Additional detail is provided below.

ENDANGERED SPECIES ACT DETERMINATION

The ESA determination requires permittees to use the resources provided in the Information, Planning, and Conservation (IPaC) online mapping tool to assess endangered and threatened species within the permit area. Cambridge mapped the city extents to determine which federally listed endangered species are listed in the area. The results from the U.S. Fish and Wildlife IPaC system indicated that Cambridge's MS4 area contains habitat for the Northern Long-eared Bat. See below for IPaC results and a Massachusetts NHESP Habitats map from the MassGIS Oliver map viewer. Using the ESA Eligibility criteria as referenced in Appendix C of the MA Small MS4 General Permit, Cambridge falls under criterion C, as follows:

- Although federally listed endangered species (Northern long eared bat) are present in the permit coverage area, stormwater structures installed since 2003 were created as a part of larger projects, which underwent extensive permitting processes involving review under the Massachusetts Endangered Species Act (MESA). Based on compliance with MESA, these projects had no effect on the listed species.
- Cambridge certifies that during the course of the new Permit term, if new structural BMPs are planned, endangered species review will be conducted to ensure no effect on federally listed species. If any new activity is deemed "may affect" or is "not likely to affect" federally listed species or critical habitat the City of Cambridge will contact the USFWS.

Documentation of ESA eligibility will consist of the following, in accordance with Permit Appendix C:

- A dated copy of EPA concurrence with the above will consist of the issuance of the Permit. This will be included as documentation in the City's written Stormwater Management Program Plan.

IPaC Information for Planning and Consultation
MY PROJECTS

U.S. Fish & Wildlife Service
STEPHANIE ALIMENA ▾

Cambridge Endangered Species Middlesex and Suffolk counties, Massachusetts

PROJECT HOME REGULATORY REVIEW LOCAL OFFICE NEW ENGLAND ESFO ▾

[Project home](#) / Resources

Resources

ENDANGERED SPECIES	1
MIGRATORY BIRDS	19
FACILITIES	!
WETLANDS	▼

[PRINT RESOURCE LIST](#)

Endangered species

Listed species and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries .

Species and critical habitats under the sole responsibility of NOAA Fisheries are not shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

Additional information on endangered species data is provided [below](#).

The following species are potentially affected by activities in this location:

[THUMBNAILS](#) [LIST](#)

Mammals

Northern Long-eared Bat
Myotis septentrionalis

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

» What does IPaC use to generate the list of endangered species potentially occurring in my specified location?
 » Do these lists represent all species to be considered at this location?
 » If this resource list is empty, do I still need to coordinate with the USFWS?
 » What is an 'official species list' and why would I need one?

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Figure 1. IPaC Screening - Northern Long-eared Bat in Cambridge

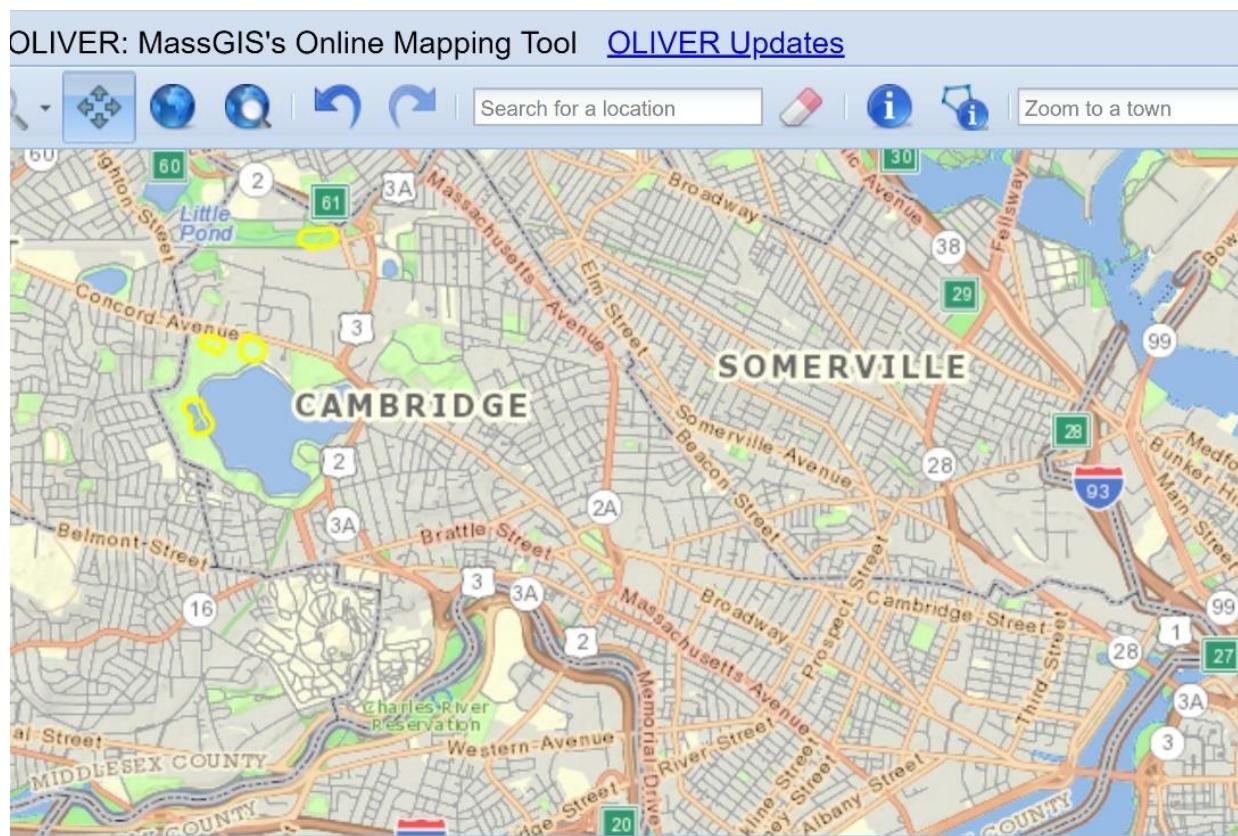


Figure 2. National Heritage & Endangered Species Program (NHESP) priority habitats for rare species (yellow) for Cambridge (Source: MassGIS)

NATIONAL HISTORIC PRESERVATION ACT DETERMINATION

The City of Cambridge also completed an eligibility screening through the National Registry of Historical Places. The map below shows the spatial location of historic properties (shown in brown), which was last updated in 2014. Since the most recent addition to the National Registry for Cambridge was in 2005, this data is current.

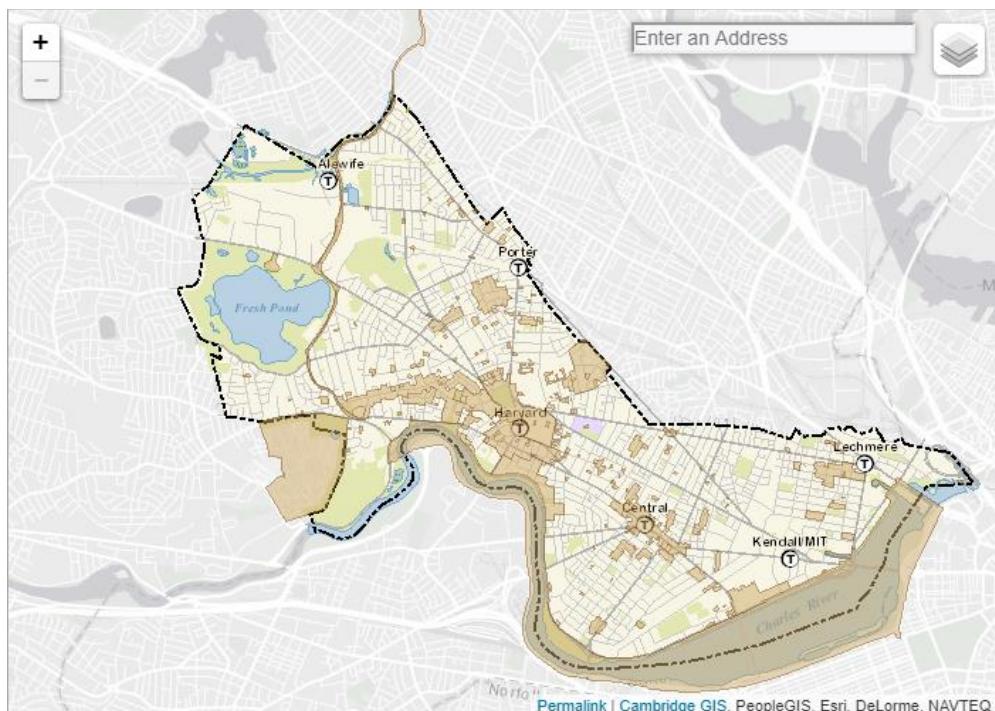


Figure 3. Historical Places in Cambridge (Source: [Cambridge Historical Commission National Register Map](#))

Much of the land abutting the Charles River is listed in the National Registry, and the City of Cambridge is planning to create new outfalls in these areas in the coming years. While Cambridge was previously covered under the 2003 permit, the City's plans for creating new outfalls in this area qualifies it for Criterion C, using the eligibility criteria in Appendix D as follows:

- Stormwater outfalls created since 2003 have undergone the MassHistoric Project Notification process with the SHPO. Based on this process, these projects had no related activities with adverse discharge effects on historic properties.
- Cambridge certifies that during the course of the new Permit term, if new structural BMPs with potential discharge related activities are planned, the City will provide Project Notification to the SHPO and comply with any measures required to prevent or mitigate any adverse discharge effects on historic properties.

Documentation of NHPA eligibility will consist of the following, in accordance with Permit Appendix D:

- A dated copy of EPA concurrence with the above will consist of the issuance of the Permit. This will be included as documentation in the City's written Stormwater Management Program Plan.