

Municipality/Organization: Town of Boxford

EPA NPDES Permit Number: MA 041184/MADEP

MaDEP Transmittal Number: W- 036290

Annual Report Number & Reporting Period: No. 14: May 15-May 16

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: John Dold

Title: Director of Public Works

Telephone #: (978) 352-6555

Email: Jdold@Town.boxford.ma.us

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 in imprisonment for knowing violations.

Signature:



Printed Name:

JOHN C. DOLD

Title:

DPW SUPT / TOWN ENGINEER

Date:

MARCH 21, 2016

Part II. Self-Assessment

The Town of Boxford is on track to complete its obligations under the NPDES Phase II General Permit. Progress in meeting these obligations is detailed in Attachment A.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID#	BMP Description	Responsible Person	Measurable Goals	Progress on Goals Permit Yr 12	Planned Activities
1A	Distribute nonpoint source pollution posters	DPW Director	Post in all schools and town buildings	Greenscapes flyers distributed at Earth Day, Apple Festival and Town Meeting.	"Keeping Waters Clean" educational program for 6 th graders to be conducted by the Ipswich River Watershed Association.
1B	Broadcast stormwater messages on local access cable channel	Conservation Director	Post one message every month	A community demonstration garden was built adjacent to Town Hall to showcase good gardening practices including use of rain barrels.	Continue to broadcast messages, continue coordination with Ipswich River Watershed Association and the Merrimack Valley Planning Commission Stormwater Collaborative.
1C	Add stormwater info to Town website	Health Agent, Conservation Director, DPW Director	Update info quarterly	"Greenscapes" Info added to Conservation web page and updated.	Quarterly updates to be made in 2016 to Conservation, DPW and Health Dept. web pages. A link to be provided to the Merrimack Valley Planning Commission Stormwater Collaborative website.

2. Public Participation

BMP ID#	BMP Description	Responsible Person	Measurable Goals	Progress on Goals Permit Yr 12	Planned Activities
2A	Form Stormwater Advisory Committee (SAC)	DPW Director	Hold meetings twice per year	SAC met twice in 2015	SAC has met twice in 2016 and will meet several times more to coordinate town's response to anticipated new NPDES regulations.
2B	Hazardous waste collection	Recycling Committee	Hold waste collection annually	Held November 2015	To be held November 12, 2016
2C	Waste Oil collection and recycling	Recycling Committee	Collect from residents once per month	Collected once per month at Town recycling center	To be collected once per month at Town recycling center
2D	Implement a catch basin stenciling program	DPW Director	Stencil 25% of catch basins annually	Stenciling of all catch basins within the Urbanized Area was completed in 2008, and selected stencilings were refreshed as part of program of scheduled maintenance in 2015	Scheduled refreshing of stencils will be continued in 2016
2E	Hold a stream clean-up day	Lakes, Ponds and Streams Committee	Hold clean-up day annually	The Boxford Lakes Ponds and Streams Committee organized a clean-up of several Town waterbodies in 2015.	The Boxford Lakes, Ponds and Streams Committee will organize clean-ups on four ponds on Earth Day, May 7, 2016.

3. Illicit Discharge Detection and Elimination

BMP ID#	BMP Description	Responsible Person	Measurable Goals	Progress on Goals Permit Yr 12	Planned Activities
3A	Map outfalls and receiving waters	DPW Director/Conservation Dept.	Map 25% of outfalls in urban area per year	A final map of outfalls was completed in 20010, and updated for the East Village in 2015 with new detail on outfalls.	Done
3B	Review existing bylaws and regulations	Stormwater Advisory Committee	Determine if existing bylaws & regs fulfill EPA requirements	Done. The existing bylaws and regs fulfill requirements	Done
3C	Develop illicit discharge detection & elimination plan	Stormwater Advisory Committee	Make recommendations for inclusion into proposed plan	Potential pollutant "hotspot" activities have been incorporated into a Stormwater Management Bylaw. Boxford has no industry and very little commercial development. Septic discharge is controlled by the Board of Health (see attached measures)	Done
3D	Develop/modify general illicit discharge bylaw	Stormwater Advisory Committee	Propose recommendations for modifying plan	Potential pollutant "Hotspot" activities addressed in Stormwater Management Bylaw adopted at Spring Annual Town Meeting, May 2006.	Done
3E	Present bylaw	Stormwater	Make	Proposed Bylaw	Done.

	for town meeting action	Advisory Committee	presentations for Town meeting action	was presented and adopted at Spring Annual Town Meeting, May 2006.	Stormwater Management Regulations were adopted by The Conservation Commission in 2007.
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4. Construction and Site Runoff Control

BMP ID#	BMP Description	Responsible Person	Measurable Goals	Progress on Goals Permit Yr 12	Planned Activities
4A	Review existing site inspection practices	Planning Dept/Conservation Dept/Building Dept	Determine if existing practices fulfill EPA requirements	Existing practices meet requirements	Done. Inter-departmental inspectional practices continue to be reviewed and improved. Sign-off procedure for Building Department to include consideration of site construction access BMPs.
4B	Develop/modify site inspection program	Planning Dept/Conservation Dept	Make recommendations for modifying program	Site inspections are incorporated into stormwater management bylaw, Title 5 permits, building permits, wetland permits	Done, will add inspection requirements to Driveway Bylaw permits.
4C	Review existing bylaws and regulations	Stormwater Advisory Committee	Determine if existing bylaws & regs fulfill EPA requirements	Existing bylaws and regulations meet existing requirements	Done
4D	Develop/modify bylaw for construction	Stormwater Advisory Committee	Propose recommendations for	Stormwater Management Bylaw adopted at	Done

	site runoff		developing/modifying bylaw	Town Meeting, May 2006.	
4E	Present bylaw for town meeting action	Stormwater Advisory Committee	Make presentations for Town meeting action	Stormwater Management Bylaw adopted at Town Meeting, May 2006. Stormwater Management Regulations adopted by the Conservation Commission in 2007.	Done.

5. Post Construction Runoff Control

BMP ID#	BMP Description	Responsible Person	Measurable Goals	Progress on Goals Permit Yr 12	Planned Activities
5A	Review existing site inspection practices	Planning Dept/Conservation Dept	Determine if existing practices fulfill EPA requirements	Existing practices meet requirements	Done
5B	Develop/modify inspection and maintenance practices	Planning Dept/Conservation Dept/Health Dept	Make recommendations for modifying existing practices	Inspection and maintenance practices are incorporated into proposed stormwater management bylaw, Title 5, building permit, wetland permits. Driveway post-construction review included in Occupancy Permit review	Done
5C	Review existing bylaws and regulations	Stormwater Advisory Committee	Determine if existing bylaws & regs fulfill EPA requirements	Existing bylaws and regulations meet existing requirements	Done
5D	Develop/modify	Stormwater	Propose	Stormwater	Done

	bylaw for construction site runoff	Advisory Committee	recommendations for developing/modifying bylaw	Management Bylaw adopted at Town Meeting, May 2006.	
5E	Present bylaw for town meeting action	Stormwater Advisory Committee	Make presentations for Town meeting action	Stormwater Management Bylaw adopted at Town Meeting, May 2006. Stormwater Management Regulations adopted by the Conservation Commission in 2007.	Done.

6. Municipal Good housekeeping

BMP ID#	BMP Description	Responsible Person	Measurable Goals	Progress on Goals Permit Yr 12	Planned Activities
6A	Street sweeping program	DPW Director	Sweep all streets once per year	All streets are swept once per year per contract with third party vendor. DPW sweeper will continue to maintain sensitive areas around salt shed and public water supply wells	All streets will be swept in 2016, and will be swept annually.
6B	Catch basin cleaning program	DPW Director	Clean all basins once per year	All basins cleaned once per year per contract with third party vendor and all collected materials disposed of in a secure landfill.	All basins will be cleaned in fall 2016 and annually thereafter.
6C	Perform site visits to examine existing practices at facilities	DPW Director	Target all applicable municipal facilities	Site visits of all other municipal facilities were conducted in 2015. Tight tanks at East and West Fire	Regular inspections of all facilities will continue in 2016.

				Stations and DPW garage were pumped twice in 2015.	
6D	Train municipal employees at each facility	DPW Director	Target all applicable municipal facilities	Training of DPW personnel was held in 2015. Training was conducted for all DPW personnel on hazardous materials and pollutants at the DPW facility. All DPW personnel attended stormwater training class at the Merrimack Valley Planning Commission.	On-going Training of DPW personnel will be held in 2016.
6E	Perform follow-ups to ensure required practices are met	DPW Director	Target all applicable municipal facilities	Site visit program was continued. Building Department monitors waste disposal affidavits relating to construction debris. Boxford contracts with Clean Harbors to ensure proper reporting for oils and household hazardous materials disposal	Site visit program will be continued in 2016

"Keeping Water Clean"

Greenscapes School Program

An educational experience for 5th grade students in your community.

The goal of this program is to engage students in fun, hands-on activities that introduce them to the following concepts: the effect of the built environment on the natural water cycle, what happens to water that enters the storm drain, water conservation and how water flows in the local watershed.

Program components:

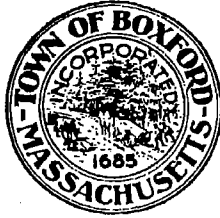
- Pre-visit classroom activity (power point) that provides students and teachers with background information about the watershed and Jeopardy game that engages students in a fun review of what they learned.
- Hands-on, interactive stations for students conducted by *Greenscapes* educators and parent volunteers.

On the day of the program:

- Program will be implemented with the fifth grade classes at one school in one day.
- Two classes will participate in the program at a time.
- The program will take about one hour per 2 classes.
- Parent volunteers and *Greenscapes* educators will lead all stations.
- Teachers will participate in managing students.

School responsibilities:

- Communicate with our educator to schedule event
- Recruit at least 6 parent volunteers to arrive one hour before the program and stay for the entire program.
- Conduct the pre-visit activity in the classroom before the day of the program.
- Provide 2 classrooms or a large enough space to hold two classes of students (i. e., gymnasium) without carpeted floors for two hours.
- Classroom teachers participate in the program, helping to manage students.



TOWN OF BOXFORD

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Superintendent of Public Works/Town Engineer

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MEMORANDUM

To: File

From: John C. Dold

Date: March 9, 2016

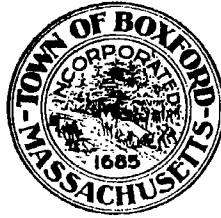
RE: Boxford Stormwater Committee

Meeting Minutes for February 16, 2016

Attendees: Ross Povenmire, John Dold, Kendell Longo, Joe Cosgrove

1. J. Cosgrove presented a 2010 map of the urbanized area of Boxford. This map has slight changes from the previous census map of 2000.
2. The new NPDES permit from EPA is within weeks of being formally released.
3. MassDEP is not part of the NPDES program. Therefore in Massachusetts, the regulator for the state is still the EPA.
4. The new permit outline requirements are:
 - a. Effective within 6 months
 - b. Each city/town has 90 days from that time to file an NOI
 - c. Boxford has one year to institute the new program
5. The Annual Report for Boxford, which is the same format for the past 13 years, must be submitted by May 1, 2016
6. New permit bullet point are:
 - a. Catch basins should not be allowed to be more than ½ full
 - b. Illicit discharges will be investigated
 - c. Outfalls in urbanized area shall be tested. MVPC will help Boxford to locate and test the appropriate outfalls.
7. J. Cosgrove asked if Boxford could obtain the GIS files from Haley & Ward for the Drainage study and map that they performed for Boxford.
8. Impaired waterways that have been identified:
 - a. Lowe's Pond – impaired by metals. This may be a hot spot

- b. Parker River
 - c. Stevens Pond – impairment may be caused by a bacterial, possibly from septic systems
 - d. Four Mile Pond – impaired by a bacteria
9. J. Cosgrove said the MVPC's next step is to prepare a template for the new Stormwater Management Program for Boxford. MVPC has signed a contract for \$15,000 to perform this work.
 10. There was some discussion about hiring BioMarine to perform the outfall testing required by the new permit.
 11. Boxford requires a Construction Permit for disturbing more than one acre in the urbanized area of Boxford.
 12. Contact Cynthia Ingelfinger, IRWA, to determine if she will be helping Boxford meet the educational requirement of the new permit.
 13. There was some discussion about what MVPC would require from Boxford to prepare the new Stormwater Management Plan. They would need an NOI checklist and TMDL's that Boxford would be required to test for.
 14. The next meeting of the Boxford Stormwater Committee will be March 15, 2016 at 10:00 AM in the second floor meeting room of the Town Hall.



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MEMORANDUM

To: File

From: John C. Dold

Date: March 21, 2016

RE: Boxford Stormwater Committee

Meeting Minutes for March 15, 2016

Attendees: Ross Povenmire, John Dold, Kendell Longo, Joe Cosgrove, Alan Benson

1. J. Cosgrove presented a 2010 map of the urbanized area of Boxford. This map has slight changes from the previous census map of 2000.
2. The EPA is scheduling a meeting with Towns and Cities to review the new regulations. The Essex County meeting will be held on May 19, 2016 at Northern Essex Community College.
3. MassDEP is not part of the NPDES program. Therefore in Massachusetts, the regulator for the state is still the EPA. It is expected that the EPA will sign the new regulation in March, 2016.
4. The new permit outline requirements are:
 - a. Effective within 6 months – effective in September 2016
 - b. Each city/town has 90 days from that time to file an NOI to the EPA, not the local Conservation Commission. NOI due in December, 2016.
 - c. Boxford has one year to institute the new program
5. Impaired waterways that have been identified:
 - a. Ipswich River – border with Topsfield at Masconomet HS; low flow; HS waste water treatment plant will be upgraded via a \$1 million construction project. Martinage Engineers is the company performing the design work.
 - b. Mill River – originates in Rowley
 - c. Lowe's Pond – impaired by metals. This may be a hot spot. There is a new owner of property at which the dam is located on Lowe's Pond.

- d. Parker River – Sperry's Pond
 - e. Chadwick – mercury in fish
 - f. Stevens Pond – impairment may be caused by a bacterial, possibly from septic systems
 - g. Four Mile Pond – impaired by a bacteria
6. Need to develop a program to treat the causes of the impairment to the waterways. Does Lakes, Ponds and Streams Committee have a role in the new stormwater program?
 7. The next meeting of the Boxford Stormwater Committee to be determined.

Stormwater Collaborative MS4 2014 Draft Permit Element Checklist

	Year 1	Year 2	Year 3	Year 4	Year 5
Stormwater Management Program--Develop & implement a written SWMP					
-To be completed 1 year of permit effective date & executed by CEO					
-Submit copy to EPA, MassDEP, US Fish & Wildlife Service, and National Marine Fisheries Service					
-Retain copy at office of official contact in NOI					
-Post SWMP online					
1.10.2 Contents of the SWMP					
*Identify names/titles of people responsible for implementation					
*Listing of receiving waterbody segments & classification					
*Listing of all interconnected MS4s receiving discharge from permittee & classification					
*Documentation regarding Endangered Species					
*Documentation regarding Historic Properties					
*Documentation of all new or increased discharges granted by MassDEP					
*Map of separate storm sewer system					
*Listing of all discharge & description of response					
*Description of practices for compliance w TMDL requirements including responsible party; BMPs; goal w assessment measure					
*Description of practices for compliance w water quality based requirements including responsible party; BMPs; goal w assessment measure					
*Description of practices for compliance w 6 Control Measures including responsible party; BMPs; goal w assessment measure					
*Description of measures to avoid/minimize impacts to public drinking water supply sources					
*Annual program evaluation					
SIX MINIMUM CONTROL MEASURES TO REDUCE POLLUTANTS TO THE MAXIMUM EXTENT PRACTICABLE					
2.3.2 Public Education & Outreach					
a. Define goals/message/steps public can take to reduce pollutants in stormwater runoff					
b. Four target audiences					
-Residential (If greater than 30% of community's MS4 area is on septic, education program SHALL include maintenance of septic systems)					
-Businesses/institutions					
-Developers & Construction					
-Industrial					
2.3.3 Public Involvement & Participation					
a. Follow state notice requirements					
b. Annually provide public opportunity to participate in review & implementation of SWMP					

Stormwater Collaborative MS4 2014 Draft Permit Element Checklist

c. Permittee to document & report on public participation opportunities

2.3.4. Illicit Discharge Detection & Elimination Program (IDDE)

- Implement IDDE program to systematically find and eliminate sources of non-stormwater discharges to

MS4

- Eliminate illicit discharges within 60 days of detection or, if not possible, set expeditious schedule and report

- Sanitary Sewer Overflows: a) Upon detection, notify EPA within 24 hrs & eliminate expeditiously; b)

Identify locations going back 5 years of any SSOs (Inventory to be complete within 120 days of effective date of permit); c) update SSO inventory in annual report

- Outfall/Interconnection Inventory recording location, condition, framework for tracking, inspections & screenings; To be completed 1 year from permit effective date and updated in annual report.

- Permittee shall physically label all outfall pipes with unique identifier (To Be completed by end of Year 5)

- System Mapping--develop revised & more detailed map than required in 2003 Permit; 2 years to complete; Listing or Required Map Elements & Recommended Map elements (2.3.4.6)

- IDDE Program to be written document including elements of:

a) Legal authority--bylaw or ordinance

b) Designation of responsible agencies/depts.

c) Assessment & priority ranking of catchments by screening factors by end of Year 1--Excluded; Problem; High Priority; Low Priority Catchments

d) Outfall & interconnection Screening & Sampling: Documented written procedure in dry & wet weather for baseline, confirmatory and follow-up screenings

- Adopt screening & sampling protocol consistent with EPA New England Bacterial Source Tracking Protocol

- Wet weather screening only during March to June

- Samples to be analyzed at a minimum for ammonia, chlorine, conductivity, salinity, E. coli, enterococcus, surfactants, and temperature; Analyses can be done with field test kits except for bacteria

e) Develop written, systematic Catchment Investigation Procedure -- identify areas using System Vulnerability Factors

- Include manhole investigation methodology

- Dry weather investigation

- Wet weather investigation where one or more System Vulnerability Factors is/are present

- Isolation & Source Verification procedures

f) Removal & Confirmation Procedures for illicit discharges/SSOs

g) Follow-up Screening

h) Illicit Discharge Prevention Procedures required--reporting, public awareness, containment etc.

- IDDE PROGRAM GOALS & MILESTONES (2.3.4.8)

Stormwater Collaborative MS4 2014 Draft Permit Element Checklist

- a) Permittee shall complete dry weather screening of all outfalls within 3 years
- b) Permittee shall begin outfall screening/sampling within 3 months of finalizing investigation procedures and no later than 15 months from permit effective date
- c) Permittee shall implement Catchment Investigation Procedure (CIP) in every catchment beginning with highest ranked assessments of problem catchments
 - i. 3 years to complete Investigation Procedure in 80% of area served by Problem Catchments; 100% within 5 years.
 - ii. 5 years to complete CIP where testing info indicates sewer input with sampling results exceeding specified thresholds
 - iii. 5 years to complete CIP in 40 % MS4 catchment area and 100% of all Catchment area in 10 years
- d) Where catchments do not contain junction manholes, dry weather screening meets manhole inspection requirement.
- e) Must track milestone progress of IDDE program in annual report

2.3.5 Construction Site Stormwater Runoff Control

- a) Implement and enforce program to reduce runoff pollutants from construction activities $\geq$ or = to one acre within MS4 area.
- c) Required elements of Construction Site Stormwater Control Program:
 - i) Ordinance or regulation requiring sediment/erosion control practices @ construction sites.
 - ii) Written procedures for site inspections and enforcement. (within 1 year of permit effective date)
 - iii) Program for construction site operators to include BMP conditions appropriate
 - iv) Program for construction site operators to control waste, debris
 - v) Written procedures for site plan review, inspection & enforcement; Site review procedures shall include assessment of opportunities for LID & green infrastructure; Tracking info in annual report

2.3.6 Stormwater Management in New Development & Redevelopment (Post construction)

- a) Development, implement & enforce program for post-construction runoff for projects that disturb > 1 acre
 - i. Includes projects ≤ 1 acre if cumulative disturbance of larger common plan exceeds 1 acre
 - ii. Develop (within 2 years) ordinance or regulation with provisions "that are as least as stringent as the following:
 - SW systems designed to retain the first inch of runoff from impervious surfaces on site; OR provide level of pollutant removal $\geq$ or $>$ level of pollutant removal provided through the use of biofiltration on the first inch of runoff
 - SW systems on industrial sites or soil contaminated sites shall not include infiltration BMPs but shall use treatment BMPs
 - SW systems with infiltration near env. Sensitive areas to incorporate designs enabling containment/shutdown
 - BMPs installed to be in accord with Mass. Stormwater Handbook, Vol 2. Chapter 2
 - Funding Source
 - Design to minimize disturbance to areas susceptible to erosion/sediment loss
 - iii. Requirement for as-built plans no later than 1 year after construction project completion
- b) Develop report assessing current street design & parking guidelines. To be completed within 3 years of permit effective date.

Stormwater Collaborative MS4 2014 Draft Permit Element Checklist

c) Develop report assessing local regulations on feasibility of implementation of: green roofs; infiltration practices (eg rain gardens; pervious pavements etc.); and water harvesting devices. Annual report to document progress in making practices allowable.

d) Directly connected Impervious Area

i. Provide annual estimates of increase/decrease in acreage of Impervious area and directly connected impervious area

ii. Beginning Year 2 annual report, estimate change in impervious area by subbasin

iii. Inventory and priority ranking of permittee-owned property for BMP retrofits

iv. Beginning Year 5 annual report, include report on properties modified with BMPs to mitigate impervious area.

2.3.7 Good Housekeeping & Pollution Prevention for Permittee Owned Operations

a) Operations & Maintenance Programs

-Written O & M Procedures as part of SWMP (within 1 year)

-Inventory and procedures in place for all permittee owned facilities (within 1 year)

-MS4 Infrastructure O & M (within 1 year)

*Shall include prioritization & maintenance of catch basins:

*CB cleaning schedule so that no CB more than 50% full

*Annual report to include total # of CBs inspected, cleaned, volume/mass of material removed from each CB

-Written procedures for sweeping streets/parking lots

-Ensure proper storage of CB cleaning/street sweepings

-Procedures for winter road maintenance--sand & salt storage, use and evaluation of alternatives

-Inspection & maintenance frequencies for stormwater structures (eg, swales, retention/detention basins etc.

Minimum annual inspection.

b) Stormwater Pollution Prevention Plan (SWPPP)—Permittee shall develop & implement SWPPP for facilities--

garages, maintenance yards, waste transfer stations etc., where pollutants exposed to stormwater. Due 2

years from effective date. Elements of SWPPP to include:

-Pollution Prevention Team identified

-Description/map of facility identifying pollution sources

-Identification of stormwater controls

-Management practices documentation re: 1) Minimizing/preventing exposure; 2) Good Housekeeping; 3)

Preventative Maintenance; 4) Spill Prevention & Response; 5) Erosion & Sediment Control; 6) Runoff

management; 7) Salt Storage Piles; 8) Employee Training; and 9) Maintenance of control measures.

-Site Inspections & reporting

-Written record of SWPPP activities

PROGRAM EVALUATION, RECORDKEEPING & REPORTING

4.1 Program Evaluation--Annual self-evaluation of permit compliance, BMP effectiveness

4.2 Record Keeping--Maintain records 5 years min. and make available to the public

4.3 Outfall Monitoring Reporting--Monitor and sample per IDDE program. Include documentation of monitoring results, studies in annual report

4.4 Annual Reports--due 1 year from effective date and to contain: self-assessment review of compliance; assessment of BMPs appropriateness; status of water quality actions; progress assessment of 6 MCMs; outfall monitoring & screening data

TOWN	Category 2014	CATEGORY 2012	WATERSHED	WATERBODY	AU_ID	LOCATION1	WATERCODE	WATERTYPE	AU_SIZE	SIZE_UNIT	CLASS	CAUSE 2014
Boxford	5	5	Ipswich	Ipswich River	MA92-06	Source at confluence of Maple Meadow Brook and Lubbers Brook, Wilmington, to Salem Beverly Waterway Canal, Topsfield.	9253500	RIVER	20.42	MILES	B\TWS	Low flow alterations/Mercury in Fish Tissue/ Oxygen Dissolved
Boxford	5	5	Parker	Mill River	MA91-08	Headwaters - Outlet of small unnamed pond between Route 95 and Rowley Road, Boxford to Route 1, Rowley/Newbury (through Upper Mill Pond formerly segment MA91015 and Lower Mill Pond formerly segment MA91008).	9153200	RIVER	6.90	MILES	B\WWF	Excess Algal Growth/ Aquatic Plants/ Aquatic Macroinvertebrate Bioassessments/Non-Native Aquatic Plants
Boxford	4C	4C	Parker	Parker River	MA91-01	Source north of Silver Mine Road, Boxford to Central Street, Newbury (excluding Sperry Pond segment MA91013, Rock Pond segment MA91012, Pentucket Pond segment MA91010, and Crane Pond segment MA91004).	9153150	RIVER	12.30	MILES	B\WWF	Low flow alterations
Boxford	5	5	Merrimack	Chadwicks Pond	MA84006	Haverhill/Boxford	84006	FRESHWATER LAKE	173.00	ACRES	A	Mercury in Fish Tissue
Boxford	5	5	Merrimack	Hoveys Pond	MA84025	Boxford	84025	FRESHWATER LAKE	36.00	ACRES	A	Mercury in Fish Tissue
Boxford	5	5	Merrimack	Johnsons Pond	MA84027	Groveland/Boxford	84027	FRESHWATER LAKE	194.00	ACRES	A	Mercury in Fish Tissue
Boxford	5	5	Parker	Baldpate Pond	MA91001	Boxford	91001	FRESHWATER LAKE	60.00	ACRES	B	Non-Native Aquatic Plants/Mercury in Fish Tissue/Oxygen, Dissolved
Boxford	4C	4C	Ipswich	Lower Four Mile P	MA92032	Boxford	92032	FRESHWATER LAKE	18.43	ACRES	B	Non-Native Aquatic Plants
Boxford	5	5	Ipswich	Lowe Pond	MA92034	Boxford	92034	FRESHWATER LAKE	35.76	ACRES	B	Non-Native Aquatic Plants/Mercury in Fish Tissue
Boxford	4C	4C	Ipswich	Stevens Pond	MA92062	Boxford	92062	FRESHWATER LAKE	11.05	ACRES	B	Non-Native Aquatic Plants
Boxford	3		Parker	Sperrys Pond	MA91013			FRESHWATER LAKE	26.00	Acres		No Uses Assessed
Boxford	3		Ipswich	Howes Pond	MA92026	Boxford		FRESHWATER LAKE	6.60	Acres		No Uses Assessed
Boxford	3		Ipswich	Towne Pond	MA92068	Boxford/North Andover		FRESHWATER LAKE	23.36	Acres		No Uses Assessed
Boxford	3		Ipswich	Kimballs Pond	MA92027	Boxford		FRESHWATER LAKE	7.47	Acres		No Uses Assessed
Boxford	3		Ipswich	Spofford Pond	MA92060	Boxford		FRESHWATER LAKE	28.10	Acres		No Uses Assessed
Boxford	3		Ipswich	Four Mile Pond	MA92022	Boxford		FRESHWATER LAKE	28.68	Acres		No Uses Assessed
Boxford	2		Parker	Penn Brook	MA91-16	Outlet Baldpate Pond, Boxford to confluence with Parker River, Georgetown			3.00	Miles		Uses Attained for Fish, Other Aquatic Life & Wildlife
Boxford	2		Ipswich	Fish Brook	MA92-14	Headwater, outlet Stiles Pond, Boxford to confluence with Ipswich River, Topsfield/Boxford			8.25	Miles		Uses Attained for Aesthetics; Fish, Other Aquatic Life & Wildlife
Boxford	2		Ipswich	Stiles Pond	MA92063	Boxford		FRESHWATER LAKE	59.04	Acres		Uses Attained for Primary Contact Recreation; Secondary Contact Recreation