

Introduction

December 6, 2013

David Gray

USEPA Region 1

5 Post Office Square

Suite 100, Mail Code #OEP06-1

Boston, MA 02110

Subject: Semi Annual Submittal under MassDOT's Impaired Waters Program

Dear Mr. Gray,

As part of MassDOT's Impaired Waters Program, the attached report documents MassDOT's activities between June 2013 and December 2013. In the last six months, MassDOT's Impaired Waters Program has generated 75 assessments of impaired receiving waters, including those performed for upcoming programmed (planned) roadway construction projects. Prioritizing assessments for programmed projects maximizes efficiency of the overall program by identifying the potential need for additional stormwater best management practices (BMPs) during the design process.

This memo outlines the progress made towards the MassDOT commitment to assess the 684 impaired water bodies listed in Appendix L-1 of MassDOT's June 9, 2010 and July 23, 2010 submittals to EPA. MassDOT is completing the assessments using the methodologies outlined in BMP 7U: Impaired Waters Assessment and Mitigation Plan and/ or BMP 7R: TMDL Watershed Review. Assessments that do not require further design of BMPs to meet the target Impervious Cover (IC) or pollutant loading are considered final. For assessments where it is determined that further action is necessary to meet the target IC or pollutant loading reductions, MassDOT uses three steps to complete the assessment.

Step 1 Progress Report. The progress report assessment includes an evaluation of the potential contribution of stormwater from MassDOT urban roads and a calculation of the target reduction of effective impervious area and/or pollutant loading, taking into account existing BMPs. If existing BMPs are sufficient to meet the target, the assessment meets the EPA evaluation requirements and is considered final.

Step 2 Progress to Final Report. The steps between assessment and completing the design, which can take 6 to 18 months depending on the project size and complexity, include: survey, gathering site specific information, and design and permitting of the BMPs. Once the designs have reached the point that designers can calculate the pollutant or impervious cover reduction

provided by the proposed BMPs, the assessments are finalized. Assessments at this second stage are identified as “progress to final” assessments, which provide a summary of the progress report assessment and the drainage design information.

Step 3 Final Report. The final report assessment includes the same steps as the Progress Report but then includes the proposed BMPs and estimated treatment provided.

The measurable goal set for BMP 7R committed MassDOT to annually review 20% of the 209 impaired waters with a TMDL. Table 1 summarizes the progress reports and final reports submitted as of this report to provide a holistic view of the progress made towards performing assessments for those water bodies listed in Appendix L-1 and towards meeting the commitments in the first three and a half years of the program.

Tables 1 through 5

Table 1 Progress and Final Assessments for Water Bodies on Appendix L-1

| Assessment Type | TMDL Status | Previous Submittals (#) | December 2013 Submittal (#) | Total (#) | % of Total Water Bodies |
|--------------------|--------------------------------------|-------------------------|-----------------------------|-----------|-------------------------|
| TMDL Method | Impaired Water Bodies with TMDLs* | 15 | 3 | 18 | |
| IC Method** | Impaired Water Bodies with TMDLs* | 13 | 5 | 18 | |
| TMDL and IC Method | Impaired Water Bodies with TMDLs* | 10 | 1 | 11 | |
| No Discharge | Impaired Water Bodies with TMDLs* | 68 | 2 | 70 | |
| Pathogen Only | Impaired Water Bodies with TMDLs* | 0 | 19 | 19 | |
| Other | Impaired Water Bodies with TMDLs* | 21 | 0 | 21 | |
| Total | Impaired Water Bodies with TMDLs* | 127 | 30 | 157 | 75% |
| IC Method | Impaired Water Bodies without TMDLs* | 81 | 26 | 107 | |
| <9% IC | Impaired Water Bodies without TMDLs* | 32 | 0 | 32 | |
| No Discharge | Impaired Water Bodies without TMDLs* | 165 | 9 | 174 | |
| Pathogen Only | Impaired Water Bodies without TMDLs* | 0 | 10 | 10 | |
| Other | Impaired Water Bodies without TMDLs* | 28 | 0 | 28 | |
| TMDL Method*** | Impaired Water Bodies without TMDLs* | 1 | 0 | 1 | |
| TMDL and IC Method | Impaired Water Bodies without TMDLs* | 3 | 0 | 3 | |
| Total | Impaired Water Bodies without TMDLs* | 310 | 45 | 355 | |
| Total | Total | 437 | 75 | 512 | 75% |

* TMDL listing as included in Appendix L-1

** The TMDL for these water bodies was for pathogens. Therefore, the IC method was used to address the other listed impairments for the water body and the assessments addressed pathogens programmatically.

*** TMDL has been finalized for the receiving water since the submittal of Appendix L-1. Therefore, the TMDL method was used for the assessment.

Table 2a and Table 2b are a subset of Table 1, but they also include “progress to final” reports, whereas Table 1 does not. Table 2a summarizes the assessments that have been finalized (either initially or as a “progress to final report”). A complete listing of the impaired waters with final assessments included in this submittal appears in Table 6 at the end of this letter.

Table 2a Final Assessments for Water Bodies in Appendix L-1

| Assessment Type | TMDL Status | Previous Submittals (#) | December 2013 Submittal (#) | Total (#) |
|------------------------|-------------------------------------|-------------------------|-----------------------------|-----------|
| TMDL Method | Impaired Water Bodies with TMDLs* | 11 | 4 | 15 |
| IC Method** | Impaired Water Bodies with TMDLs* | 5 | 3 | 8 |
| TMDL and IC Method | Impaired Water Bodies with TMDLs* | 7 | 1 | 8 |
| No Discharge | Impaired Water Bodies with TMDLs* | 68 | 2 | 70 |
| Pathogen Only | Impaired Water Bodies with TMDLs* | 0 | 19 | 19 |
| Other | Impaired Water Bodies with TMDLs* | 21 | 0 | 21 |
| Total | Impaired Water Bodies with TMDLs* | 112 | 29 | 141 |
| IC Method | Impaired Water Bodies without TMDLs | 33 | 25 | 58 |
| <9% IC | Impaired Water Bodies without TMDLs | 32 | 0 | 32 |
| No Discharge | Impaired Water Bodies without TMDLs | 165 | 9 | 174 |
| Pathogen Only | Impaired Water Bodies without TMDLs | 0 | 10 | 10 |
| Other (non-stormwater) | Impaired Water Bodies without TMDLs | 28 | 0 | 28 |
| TMDL Method*** | Impaired Water Bodies without TMDLs | 1 | 0 | 1 |
| TMDL and IC Method | Impaired Water Bodies without TMDLs | 2 | 0 | 2 |
| Total | Impaired Water Bodies without TMDLs | 261 | 44 | 305 |
| Total | Total | 373 | 73 | 446 |

* TMDL listing as included in Appendix L-1

** The TMDL for these water bodies was for pathogens. Therefore, the IC method was used to address the other listed impairments for the water body and the assessments addressed pathogens programmatically.

*** TMDL has been finalized for the receiving water since the submittal of Appendix L-1. Therefore, the TMDL method was used for the assessment.

Table 2b summarizes the assessments that are in the progress report stage. A complete listing of the impaired waters with progress reports included in this submittal appears in Table 7 at the end of this letter.

Table 2b Progress Report Assessments for Water Bodies in Appendix L-1

| Assessment Type | TMDL Status | Previous Submittals (#) | December 2013 Submittal (#) | Total (#) |
|--------------------|-------------------------------------|-------------------------|-----------------------------|-----------|
| TMDL Method | Impaired Water Bodies with TMDLs | 4 | 1 | 5 |
| IC Method* | Impaired Water Bodies with TMDLs | 8 | 2 | 10 |
| TMDL and IC Method | Impaired Water Bodies with TMDLs | 3 | 0 | 3 |
| Total | Impaired Water Bodies with TMDLs | 15 | 3 | 18 |
| IC Method | Impaired Water Bodies without TMDLs | 48 | 9** | 57 |
| TMDL and IC Method | Impaired Water Bodies without TMDLs | 1 | 0 | 1 |
| Total | Impaired Water Bodies without TMDL | 49 | 9 | 58 |
| Total | Total | 64 | 12 | 76 |

*The TMDL for these water bodies was for pathogens which was not applicable to MassDOT's TMDL methodology. Therefore, the IC method was used to address the other listed impairments for the water body and the assessments addressed pathogens programmatically.

**One assessment covers 2 water bodies.

Table 3 below summarizes the assessments that have been submitted in a previous submittal as a progress report and have now been finalized. Designs for these projects have reached the point that the pollutant, or impervious cover, reduction provided by the proposed BMPs can be calculated. These reports provide a summary of the progress report assessment and the drainage design information and are included in Table 6 at the end of this letter.

Table 3 Progress to Final Reports for Water Bodies in Appendix L-1

| Assessment Type | | Previous Submittals (#) | December 2013 Submittal (#) | Total (#) |
|--------------------|-------------------------------------|-------------------------|-----------------------------|-----------|
| TMDL and IC Method | Impaired Water Bodies with TMDLs | 0 | 0 | 0 |
| IC Method* | Impaired Water Bodies with TMDLs | 3 | 0 | 3 |
| TMDL Method | Impaired Water Bodies with TMDLs | 0 | 2 | 2 |
| TMDL and IC Method | Impaired Water Bodies without TMDLs | 0 | 0 | 0 |
| IC Method | Impaired Water Bodies without TMDLs | 12 | 8 | 20 |
| Total | Total | 15 | 10 | 25 |

*The TMDL for these water bodies was for mercury which is unrelated to stormwater and not applicable to MassDOT's TMDL methodology. Therefore, the IC method was used to address the other listed impairments for the water body.

MassDOT has implemented the Impaired Waters Program comprehensively and has strived to be proactive, therefore our submittals continue to include assessments for water bodies that were not listed in Appendix L-1 but have since become applicable. While not required under the BMP 7U and 7R commitments made to EPA explicitly, MassDOT has reviewed these water bodies when identified as part of programmed projects or when reviewing larger watershed areas. Tables 4 and 5 are included below to keep track of these "additional" submittals separately to illustrate the breadth of the work being accomplished under the Impaired Waters Program.

Table 4 Final Assessments for Water Bodies Not Included in Appendix L-1

| Assessment Type | Previous Submittals (#) | December 2013 Submittal (#) | Total (#) |
|------------------|-------------------------|-----------------------------|-----------|
| TMDL Method | 3 | 0 | 3 |
| <9% IC | 3 | 0 | 3 |
| No Discharge | 1 | 3 | 4 |
| IC Method | 0 | 1 | 1 |
| Other (pathogen) | 4 | 0 | 4 |
| Other | 1 | 0 | 1 |
| Total | 12 | 4 | 16 |

Table 5 Progress Report Assessments for Water Bodies Not Included in Appendix L-1

| Assessment Type | Previous Submittals (#) | December 2013 Submittal (#) | Total (#) |
|-----------------|-------------------------|-----------------------------|-----------|
| TMDL Method | 5 | 1 | 6 |
| IC Method | 4 | 1 | 5 |
| Total | 9 | 2 | 11 |

Overview of Attachments

In March 2013, the *Final Year 2012 Integrated List of Waters* was finalized and issued. In general, some impairments for water bodies changed between the *Final Year 2010 Integrated List of Waters* and *Final Year 2012 Integrated List of Waters*, but most remained the same. For the assessments that were already complete at the time of the final list being issued, we did not include changes from the updated list. The approach used for assessing these waters (the IC method) addresses a range of impairments, and therefore, any changes to the list of impairments is unlikely to impact the conclusion of the assessment. For assessments performed after the impaired waters list was issued, impairments on the *Final Year 2012 Integrated List of Waters* were used.

Impaired Waters Assessments -- Attachments

This submittal includes the following attachments, showing impaired waters assessments in the categories identified below:

Final Assessments. Attachment 1 includes 24 completed assessments for impaired water bodies that required a full assessment.

Progress Report Assessments. Attachment 2 includes progress reports of 14 water bodies on Appendix L-1 (one of the assessment covers two of the water bodies) and two water bodies not on Appendix L-1. These progress reports include target reductions in pollutant loading and impervious cover. These assessments will now be forwarded to MassDOT design contractors for design and permitting of BMPs to meet the target reductions to the maximum extent practicable.

These progress reports represent a significant amount of work towards completing the assessment.

Progress to Final Assessments. Attachment 3 includes 10 “progress to final reports” that finalized a previously submitted progress report.

No Discharge from MassDOT Outfalls Assessments. Attachment 4 includes assessments of 14 water bodies where desktop review or field review of the subwatershed found that MassDOT urban roads do not drain directly to the receiving water in question and therefore according to BMP 7U and 7R no further assessment is necessary. Only direct discharges, and not MassDOT properties that drain to other watercourses or segments upstream of the subject water body or stream segment, are included in the assessment.

Final Pathogen Assessments. Attachment 6 includes 29 assessments where the only impairment is pathogens.

BMP Design Information

BMP Design

MassDOT is eager to facilitate the design and construction of BMPs and continue to meet the schedule as more of the program moves into the design and construction phase. Design can take 12-18 months, including identifying a designer, conducting survey, and completing design. Field work associated with permitting and construction schedules is weather dependent, which can result in schedule delays. In order to facilitate this increased design focus, MassDOT advertised for new design consultant contracts and, in March 2013, MassDOT chose five firms to award \$2.5M contracts. This increases the number of design consultants with on-call contracts from three to five. As a result, MassDOT has been able to dramatically increase number of BMPs in design, which increased from 16, in June, to 30 currently.

MassDOT’s design contractors are developing design and construction documents for BMPs proposed in previously submitted assessments and progress reports. Designs are underway to provide additional treatment for impaired waters including those identified below. Table 8 at the end of this letter shows a summary of the progress on design of BMPs recommended in previous assessment submittals or in this submittal.

Impaired Waters Project Design Status

Survey:

Connecticut River (Subbasins A and B) (Springfield, Holyoke, West Springfield, Chicopee, MA)

Assabet River (Rt. 20, Northborough)

Beaver Brook (Rt. 95, Danvers)

Design:

Lee River (Rt. 103/I-195, Somerset and Swansea)

Mine Brook (Rt. 495, Franklin and Bellingham)

Monatiquot River (Route 3, Braintree)

Rumford River (South Main Street/I-495, Mansfield)

Charles River MA72-07/ Cheesecake Brook (I-90/ I-95, Newton and Weston)

Charles River MA72-07/MA72-36 (I-90, Boston)

Mystic River (Rt. 16/I-93, Arlington, Boston, Medford, Somerville, and Winchester)

Stony Brook (Rt. 202/Rt. 116, Granby and South Hadley)

Greenwood Pond (Rt. 2/Rt. 2a, Templeton)

Norton Reservoir (I-495, Norton and Mansfield)

Robinson Brook (I-95, Foxborough and Mansfield)

French River (Leicester and Oxford, MA)

Texas Pond (Leicester and Oxford, MA)

Thayers Pond (Leicester and Oxford, MA)

Lake Quinsigamond (Worcester and Shrewsbury, MA)

Flint Pond (Shrewsbury, MA)

Connecticut River (subbasin C and D) (Springfield, Agawam and Longmeadow, MA)

Quinebaug River (Rt. 84/Rt. 131, Southbridge)

Shirley Street Pond (Shrewsbury, MA)

Neponset River (I-93, Boston/Milton, MA)

Mill River (Rt. 3 and Rt. 18, Weymouth, MA)

Town Brook (Braintree and Quincy, MA)

Shawsheen River (I-495, Lawrence, N. Andover, Andover, MA)

Blackstone River (Rt. 122, Uxbridge and Millville, MA)

Alewife (Rt.2/Rt. 16, Cambridge)

Mumford River (Rt. 146, Blackstone)

Tatnuck Brook (Rt. 122, Worcester)

Newfield Pond (Rt. 3, Chelmsford)

BMP Construction Information

BMP Construction

MassDOT has twelve projects are currently in the construction phase. MassDOT plans to move retrofit projects currently at the 100% design phase into construction over the next six months. Table 8 shows a summary of the water bodies with projects in construction or complete.

Under Construction:

Cole River (I-195, Swansea)

Noquochoke Lake (Dartmouth)

Wading River (Rt. 95, Mansfield)

Kettle Brook/ Leesville Pond (I-290/ Rt. 12, Auburn and Worcester)

Dark Brook (I-290/I-190, Auburn)

Saugus River MA93-34 (I-95/Rt. 128, Lynnfield and Wakefield)

Saugus River MA93-35 (I-95/Rt. 128, Lynnfield, Saugus and Wakefield)

Miles River (Rt. 1A, Ipswich)

Westfield River (Rt. 20, Russell and Westfield)

Mine Brook (Rt. 495, Franklin and Bellingham)

Quaboag River (I-90, Palmer)

Rosemary Brook (Needham and Wellesley, MA)

Closing

MassDOT welcomes any input or feedback from the EPA on the assessments and documents included in this and all future progress reports. If you have any questions or concerns, or would like to meet to discuss this submittal, please feel free to contact me at (857) 368-8788.

Sincerely,

Henry Barbaro

Supervisor of Wetlands & Water Resources

Environmental Services Section

Henry.Barbaro@state.ma.us

cc:

Kathleen Woodward, Esq., EPA Region I

Alex Murray, Environmental Services, MassDOT

Tracy W. Klay, Esq., Environmental Counsel, MassDOT

Tori Kim, Esq., MA Attorney General's Office

Tables 6 through 8

Table 6 Final Assessments in December 2013 Submittal

| Water Body ID | Water Body Name | Water Body included in Appendix L-1 or Report Type | Impairment [□] | TMDL Impairment | Load Reduction Target TMDL (lb/yr) | Load Reduction Target IC (ac) | No Discharge | <9% IC | Proposed BMPs | Pathogen Only | Site Constraints | Notes |
|---------------|-----------------|--|---|-----------------|------------------------------------|-------------------------------|--------------|--------|---------------|---------------|------------------|---|
| MA51078 | Jordan Pond | Water Body included in Appendix L-1 | Turbidity [70.1] | Phosphorus | 2.1 | | | | | | X | A review of MassDOT's property determined that due to the lack of availability and the limitations of the retrofit initiative the construction of a BMP for the treatment of directly contributing impervious cover is not feasible |
| MA51110 | Newton Pond | Water Body included in Appendix L-1 | (Non-Native Aquatic Plants*); Aquatic Plants (Macrophytes) [70.1] | Phosphorus | | | X | | | | | |
| MA51157 | Southwick Pond | Water Body included in Appendix L-1 | Aquatic Plants (Macrophytes) [70.1] | Phosphorus | | | X | | | | | |
| MA51-18 | Peters River | Water Body included in Appendix L-1 | Copper; Escherichia coli; Lead | | | | X | | | | | |
| MA52-06 | Bungay River | Water Body included in Appendix L-1 | Fecal Coliform | Pathogens | | | | | | X | | |
| MA53-03 | Palmer River | Water Body included in Appendix L-1 | Fecal Coliform [182.0] | Pathogens | | | | | | X | | |
| MA53-05 | Palmer River | Water Body included in Appendix L-1 | Fecal Coliform [182.0] | Pathogens | | | | | | X | | |
| MA53-16 | Rocky Run | Water Body included in Appendix L-1 | Fecal Coliform [182.0] | Pathogens | | | | | | X | | |
| MA61-08 | Kickamuit River | Water Body included in Appendix L-1 | Fecal Coliform [285.0] | Pathogens | | | | | | X | | |
| MA62-20 | Assonet River | Water Body included in Appendix L-1 | Fecal Coliform [256.0] | Pathogens | | | | | | X | | |

| Water Body ID | Water Body Name | Water Body included in Appendix L-1 or Report Type | Impairment [□] | TMDL Impairment | Load Reduction Target TMDL (lb/yr) | Load Reduction Target IC (ac) | No Discharge | <9% IC | Proposed BMPs | Pathogen Only | Site Constraints | Notes |
|---------------|---------------------|--|---|-----------------|------------------------------------|-------------------------------|--------------|--------|---------------|---------------|------------------|-----------------------|
| MA62-38 | Meadow Brook | Water Body included in Appendix L-1 | Fecal Coliform [256.0] | Pathogens | | | | | | X | | |
| MA62-50 | Broad Cove | Water Body included in Appendix L-1 | Fecal Coliform [256.0] | Pathogens | | | | | | X | | |
| MA62-51 | Muddy Cove Brook | Water Body included in Appendix L-1 | Fecal Coliform [256.0] | Pathogens | | | | | | X | | |
| MA62-55 | Segreganse tt River | Water Body included in Appendix L-1 | Fecal Coliform [256.0] | Pathogens | | | | | | X | | |
| MA62-56 | Three Mile River | Water Body included in Appendix L-1 | Fecal Coliform [256.0] | Pathogens | | | | | | X | | |
| MA62-57 | Three Mile River | Water Body included in Appendix L-1 | Fecal Coliform [256.0] | Pathogens | | | | | | X | | |
| MA73-06 | School Meadow Brook | Water Body included in Appendix L-1 | Fecal Coliform [121.0] | Pathogens | | | | | | X | | |
| MA-71-08 | Mill Creek | Water Body included in Appendix L-1 | (Debris/Floatables/Trash*); Escherichia coli [121.0]; Fecal Coliform [121.0]; Taste and Odor | Pathogens | | | | | | X | | |
| MA73-17 | Traphole Brook | Water Body included in Appendix L-1 | Fecal Coliform [121.0] | Pathogens | | | | | | X | | |
| MA73-24 | Purgatory Brook | Water Body included in Appendix L-1 | Escherichia coli [121.0]; Fecal Coliform [121.0] | Pathogens | | | | | | X | | |
| MA73-27 | Ponkapoag Brook | Water Body included in Appendix L-1 | Escherichia coli [121.0]; Fecal Coliform [121.0] | Pathogens | | | | | | X | | |
| MA74-15 | Town River Bay | Water Body included in Appendix L-1 | Fecal Coliform; Other; Oxygen, Dissolved; PCB in Fish Tissue | | | 0.07 | | | | | X | Limited ROW on Bridge |

| Water Body ID | Water Body Name | Water Body included in Appendix L-1 or Report Type | Impairment [□] | TMDL Impairment | Load Reduction Target TMDL (lb/yr) | Load Reduction Target IC (ac) | No Discharge | <9% IC | Proposed BMPs | Pathogen Only | Site Constraints | Notes |
|---------------|--------------------|--|---|-----------------|------------------------------------|-------------------------------|--------------|--------|---------------|---------------|------------------|--|
| MA82015 | Carding Mill Pond | Water Body included in Appendix L-1 | (Non-Native Aquatic Plants*); Aquatic Plants (Macrophytes); Dissolved oxygen saturation; Excess Algal Growth; Phosphorus (Total) | | | | X | | | | | |
| MA82042 | Fort Meadows Brook | Water Body included in Appendix L-1 | (Eurasian Water Milfoil, Myriophyllum spicatum*); Chlordane; Phosphorus (Total) | | | | X | | | | | |
| MA82055 | Grist Mill Pond | Water Body included in Appendix L-1 | (Non-Native Aquatic Plants*); Aquatic Plants (Macrophytes); Dissolved oxygen saturation; Excess Algal Growth; Fecal Coliform; Phosphorus (Total) | | | 0.6 | | | X | | | 9 Infiltration Basins and 1 infiltration swale resulting in effective IC reduction 1.5 acres |
| MA82056 | Hager Pond | Water Body included in Appendix L-1 | (Non-Native Aquatic Plants*); Aquatic Plants (Macrophytes); Dissolved oxygen saturation; Excess Algal Growth; Fecal Coliform; Phosphorus (Total); Turbidity | | | 1.4 | | | | | X | Steep grades, limit ROW, abutting commercial development, and location of outfalls |
| MA82A-05 | Hop Brook | Water Body included in Appendix L-1 | Dissolved oxygen saturation; Excess Algal Growth; Oxygen, Dissolved; Phosphorus (Total) | | | 0.15 | | | | | X | Soil conditions and limited ROW |
| MA82A-06 | Hop Brook | Water Body included in Appendix L-1 | Excess Algal Growth; Fecal Coliform; Oxygen, Dissolved; Phosphorus (Total) | | | | X | | | | | |

| Water Body ID | Water Body Name | Water Body included in Appendix L-1 or Report Type | Impairment [□] | TMDL Impairment | Load Reduction Target TMDL (lb/yr) | Load Reduction Target IC (ac) | No Discharge | <9% IC | Proposed BMPs | Pathogen Only | Site Constraints | Notes |
|---------------|-------------------|--|---|-----------------|------------------------------------|-------------------------------|--------------|--------|---------------|---------------|------------------|---|
| MA82A-07 | Concord River | Water Body included in Appendix L-1 | (Eurasian Water Milfoil, Myriophyllum spicatum*); (Non-Native Aquatic Plants*); Fecal Coliform; Mercury in Fish Tissue; Phosphorus (Total) | Pathogens | | 7.2 | | | X | | | 18 water quality swales and 1 extended detention basin, and reuse of 2 existing basins; effective IC reduction 28.6 acres |
| MA82A-15 | Unnamed Tributary | Water Body included in Appendix L-1 | Excess Algal Growth; Oxygen, Dissolved; Phosphorus (Total); Total Suspended Solids (TSS) | | | 2 | | | | | X | Urbanized area, with landscaping, limited space, and MS4 outfall locations |
| MA82A-16 | Unnamed Tributary | Water Body included in Appendix L-1 | Dissolved oxygen saturation; Excess Algal Growth; Oxygen, Dissolved; pH, High; Phosphorus (Total); Total Suspended Solids (TSS) | | | 0.9 | | | X | | | 1 water quality swale resulting in effective IC reduction of 0.1 acres |
| MA82B-04 | Assabet River | Water Body included in Appendix L-1 | Aquatic Macroinvertebrate Bioassessments; Aquatic Plants (Macrophytes) [201.0]; Excess Algal Growth [201.0]; Fecal Coliform; Fishes Bioassessments; Oxygen, Dissolved [201.0]; Phosphorus (Total) [201.0] | Phosphorus | | 10.2 | | | X | | | 7 water quality swales and 2 detention basins resulting in effective IC reduction of 16.8 acres |
| MA82B-07 | Assabet River | Water Body included in Appendix L-1 | Fecal Coliform; Phosphorus (Total) [201.0] | Phosphorus | | 4.0 | | | X | | | 3 water quality swales and 2 infiltration basins resulting in an effective IC reduction of 5.4 acres |
| MA82B-14 | Nashoba Brook | Water Body included in Appendix L-1 | (Low flow alterations*); Fishes Bioassessments | | | 8.5 | | | X | | | 6 water quality swales resulting in effective IC reduction of 10.8 acres |
| MA83-01 | Shawsheen River | Water Body included in Appendix L-1 | (Physical substrate habitat alterations*); Fecal Coliform [122.0]; Oxygen, Dissolved; Sedimentation/Siltation | Pathogens | | 1.5 | | | | | X | Limited ROW and no green space |

| Water Body ID | Water Body Name | Water Body included in Appendix L-1 or Report Type | Impairment [□] | TMDL Impairment | Load Reduction Target TMDL (lb/yr) | Load Reduction Target IC (ac) | No Discharge | <9% IC | Proposed BMPs | Pathogen Only | Site Constraints | Notes |
|---------------|--------------------|--|---|-----------------|------------------------------------|-------------------------------|--------------|--------|---------------|---------------|------------------|---|
| MA83-06 | Vine Brook | Water Body included in Appendix L-1 | Fecal Coliform [122.0] | Pathogens | | | | | | X | | |
| MA83-07 | Strong Water Brook | Water Body included in Appendix L-1 | Fecal Coliform [122.0] | Pathogens | | | | | | X | | |
| MA83-10 | Kiln Brook | Water Body included in Appendix L-1 | Fecal Coliform [122.0] | Pathogens | | | | | | X | | |
| MA83-14 | Spring Brook | Water Body included in Appendix L-1 | Fecal Coliform [122.0] | Pathogens | | | | | | X | | |
| MA83-17 | Shawsheen River | Water Body included in Appendix L-1 | Fecal Coliform [122.0]; Oxygen, Dissolved | Pathogens | | 12.5 | | | | | | 1 infiltration basin, 1 extended detention basin, 13 water quality basins resulting in effective IC reduction of 23.1 acres |
| MA84A-21 | Deep Brook | Water Body included in Appendix L-1 | (Habitat Assessment (Streams)*); Aquatic Macroinvertebrate Bioassessments; Escherichia coli; Fishes Bioassessments; Sedimentation/Siltation | | | 7.9 | | | | | | Existing BMPS treat 11.5 acres; therefore additional BMPS are not necessary. |
| MA84B-04 | Stony Brook | Water Body included in Appendix L-1 | Aquatic Macroinvertebrate Bioassessments; Escherichia coli | | | 5.6 | | | | | | Existing BMPS treat 8.4 acres; therefore additional BMPS are not necessary. |
| MA91-05 | Rowley River | Water Body included in Appendix L-1 | Fecal Coliform | | | | X | | | | | |
| MA91-11 | Little River | Water Body included in Appendix L-1 | Fecal Coliform | Pathogens | | | | | | X | | |
| MA93-32 | Hawkes Brook | Water Body included in Appendix L-1 | Fecal Coliform | Pathogens | | | | | | X | | |
| MA93-33 | Hawkes Brook | Water Body included in Appendix L-1 | Fecal Coliform | Pathogens | | | | | | X | | |

| Water Body ID | Water Body Name | Water Body included in Appendix L-1 or Report Type | Impairment [□] | TMDL Impairment | Load Reduction Target TMDL (lb/yr) | Load Reduction Target IC (ac) | No Discharge | <9% IC | Proposed BMPs | Pathogen Only | Site Constraints | Notes |
|---------------|--------------------|--|---|-----------------|------------------------------------|-------------------------------|--------------|--------|---------------|---------------|------------------|--|
| MA93-40 | Proctor Brook | Water Body included in Appendix L-1 | (Debris/Floatables/Trash*); Fecal Coliform; Foam/Flocs/Scum/Oil Slicks; Taste and Odor | | | | X | | | | | |
| MA93-41 | Crane River | Water Body included in Appendix L-1 | Fecal Coliform | Pathogens | | | | | | X | | |
| MA93-48 | Bennets Pond Brook | Water Body included in Appendix L-1 | Fecal Coliform | Pathogens | | | | | | X | | |
| MA93-50 | Shute Brook | Water Body included in Appendix L-1 | Fecal Coliform | Pathogens | | | | | | X | | |
| MA93-52 | Lynn Harbor | Water Body included in Appendix L-1 | Fecal Coliform | Pathogens | | | | | | X | | |
| MA93-53 | Lynn Harbor | Water Body included in Appendix L-1 | Fecal Coliform | Pathogens | | | | | | X | | |
| MA71-06 | Chelsea River | Water Body included in Appendix L-1 | Debris/Floatables/Trash*); Ammonia (Un-ionized); Fecal Coliform; Other; Oxygen, Dissolved; PCB in Fish Tissue; Petroleum Hydrocarbons; Sediment Screening Value (Exceedence); Taste and Odor; Turbidity | | | 18.4 | | | | | X | Seasonal high groundwater eliminated ability to install BMPs |
| MA93-44 | Saugus River | Water Body included in Appendix L-1 | Other flow regime alterations*); Fecal Coliform; Oil and Grease; Temperature, water | | | 10.7 | | | | | X | Poor soil conditions and seasonal high groundwater |
| MA36165 | Lake Whittemore | Water Body included in Appendix L-1 | Turbidity | | | | X | | | | | |
| MA51185 | Woodbury Pond | Water Body included in Appendix L-1 | Non-Native Aquatic Plants; Aquatic Plants (Macrophytes) | | | | X | | | | | |

| Water Body ID | Water Body Name | Water Body included in Appendix L-1 or Report Type | Impairment [□] | TMDL Impairment | Load Reduction Target TMDL (lb/yr) | Load Reduction Target IC (ac) | No Discharge | <9% IC | Proposed BMPs | Pathogen Only | Site Constraints | Notes |
|---------------|---------------------|--|--|-----------------|------------------------------------|-------------------------------|--------------|--------|---------------|---------------|------------------|---|
| MA42-05 | French River | Water Body included in Appendix L-1 | (Debris/Floatables/Trash*); (Other flow regime alterations*); Aquatic Macroinvertebrate Bioassessments; Fecal Coliform | | | 0.04 | | | | | X | Limited ROW and abutting residential properties |
| MA42-06 | French River | Water Body included in Appendix L-1 | Debris/Floatables/Trash*); Aquatic Macroinvertebrate Bioassessments; Fecal Coliform; Other; Sediment Screening Value (Exceedence); Taste and Odor; Turbidity | | | | X | | | | | |
| MA73-16 | Hawes Brook | Water Body included in Appendix L-1 | (Debris/Floatables/Trash*); Escherichia coli [121.0]; Fecal Coliform [121.0]; Taste and Odor | Pathogens | | 2.9 | | | | | X | Limited ROW, high density of residential, and limited access |
| MA73-20 | Beaver Meadow Brook | Water Body included in Appendix L-1 | Oxygen, Dissolved | | | 0.6 | | | | | X | Limited ROW |
| MA81-02 | North Nashua River | Water Body included in Appendix L-1 | Ambient Bioassays -- Chronic Aquatic Toxicity; Aquatic Macroinvertebrate Bioassessments; Escherichia coli | | | 14.3 | | | X | | | 4 infiltration basins resulting in an IC target reduction of 2.28 acres |
| MA81-05 | Nashua River | Water Body included in Appendix L-1 | Aquatic Macroinvertebrate Bioassessments; Escherichia coli; Phosphorus (Total); Sediment Bioassays -- Acute Toxicity Freshwater | | | 5.2 | | | X | | | 4 Infiltration basins and 2 infiltration swales resulting in an IC target reduction of 1.59 acres |
| MA84089 | Spectacle Pond | Water Body included in Appendix L-1 | (Non-Native Aquatic Plants*); Oxygen, Dissolved | | | 0.08 | | | | | X | Limited ROW |

| Water Body ID | Water Body Name | Water Body included in Appendix L-1 or Report Type | Impairment [□] | TMDL Impairment | Load Reduction Target TMDL (lb/yr) | Load Reduction Target IC (ac) | No Discharge | <9% IC | Proposed BMPs | Pathogen Only | Site Constraints | Notes |
|---------------|-------------------|--|--|-----------------|------------------------------------|-------------------------------|--------------|--------|---------------|---------------|------------------|--|
| MA35099 | Whites Mill Pond | No | Aquatic Plants (Macrophytes) [123.2]; Mercury in Fish Tissue | | | | X | | | | | |
| MA51-27 | Coal Mine Brook | No | (Fish Kills*); Fishes Bioassessments; Sedimentation/Siltation; Temperature, water | | | | X | | | | | |
| MA51-28 | Cook Allen Brook | No | Fishes Bioassessments | | | | X | | | | | |
| MA71043 | Upper Mystic Lake | No | (Non-Native Aquatic Plants*); Dissolved oxygen saturation; Oxygen, Dissolved | | | 5.5 | | | | | X | Limited ROW |
| MA32-05 | Westfield River | Progress to Final Report | Aquatic Macroinvertebrate Bioassessments; Excess Algal Growth; Taste and Odor; Turbidity | | | 1.6 | | | X | | | 1 extended detention basin resulting in an effective IC reduction of 2.96 acres. No additional BMPs needed. |
| MA34-19 | Stony Brook | Progress to Final Report | (Non-Native Aquatic Plants*); Escherichia coli; Turbidity | | | 0.2 | | | X | | | 1 infiltration swale which resulted in an effective IC reduction of 0.24 acres. No additional BMPs necessary. |
| MA35026 | Greenwood Pond | Progress to Final Report | Aquatic Plants (Macrophytes) [123.2] | Phosphorus | 0.4 | | | | X | | | 1 Infiltration Basin resulting in a load reduction of 0.63 lb/yr. No additional BMPS necessary. |
| MA41-02 | Quinebaug River | Progress to Final Report | (Debris/Floatables/Trash*); Excess Algal Growth; Turbidity | | | 2.3 | | | X | | | infiltration swale, gravel wetland and infiltration basin resulting in an effective IC reduction of 6.91 acres. No additional BMPs needed. |

| Water Body ID | Water Body Name | Water Body included in Appendix L-1 or Report Type | Impairment [□] | TMDL Impairment | Load Reduction Target TMDL (lb/yr) | Load Reduction Target IC (ac) | No Discharge | <9% IC | Proposed BMPs | Pathogen Only | Site Constraints | Notes |
|---------------|------------------|--|--|-----------------|------------------------------------|-------------------------------|--------------|--------|---------------|---------------|------------------|---|
| MA51-04 | Blackstone River | Progress to Final Report | (Other flow regime alterations*); (Physical substrate habitat alterations*); Aquatic Macroinvertebrate Bioassessments; Cadmium; Copper; DDT; Escherichia coli; Excess Algal Growth; Fishes Bioassessments; Lead; Nutrient/Eutrophication Biological Indicators; PCB in Fish Tissue; Phosphorus (Total); Sedimentation/Siltation; Taste and Odor; Turbidity | | | 1.0 | | | | | X | A review of MassDOT's property determined that due to the lack of availability and the limitations of the retrofit initiative the construction of a BMP for the treatment of directly contributing impervious cover is not feasible |
| MA51050 | Flint Pond | Progress to Final Report | (Eurasian Water Milfoil, Myriophyllum spicatum*); (Non-Native Aquatic Plants*); Aquatic Plants (Macrophytes) [115.0]; Turbidity [115.0] | Phosphorus | 2.8 | | | | | | X | A review of MassDOT's property determined that due to the lack of availability and the limitations of the retrofit initiative the construction of a BMP for the treatment of directly contributing impervious cover is not feasible |
| MA51-06 | Blackstone River | Progress to Final Report | (Other flow regime alterations*); Cadmium; Copper; DDT; Lead; PCB in Fish Tissue; Phosphorus (Total); Total Suspended Solids (TSS) | | | 1.9 | | | | | X | A review of MassDOT's property determined that due to the lack of availability and the limitations of the retrofit initiative the construction of a BMP for the treatment of directly contributing impervious cover is not feasible |

| Water Body ID | Water Body Name | Water Body included in Appendix L-1 or Report Type | Impairment [□] | TMDL Impairment | Load Reduction Target TMDL (lb/yr) | Load Reduction Target IC (ac) | No Discharge | <9% IC | Proposed BMPs | Pathogen Only | Site Constraints | Notes |
|---------------|------------------|--|--|-----------------|------------------------------------|-------------------------------|--------------|--------|---------------|---------------|------------------|--|
| MA74-08 | Monatiquot River | Progress to Final Report | (Physical substrate habitat alterations*); Aquatic Macroinvertebrate Bioassessments; Fecal Coliform; Oxygen, Dissolved | | | 22.9 | | | X | | | 5 infiltration basins and 1 infiltration trench resulting in effective IC reduction of 9.6 acres |
| MA92-03 | Miles River | Progress to Final Report | Aquatic Macroinvertebrate Bioassessments; Fecal Coliform; Oxygen, Dissolved | | | 0.2 | | | X | | | 1 Infiltration Basin treating an effective IC of 0.43 acres. No additional BMPs necessary. |
| MA93-10 | Forest River | Progress to Final Report | | | | 3.5 | | | X | | X | Further investigation of MassDOT's property determined that due to site constraints and the limitations of the retrofit initiative, the construction of a BMP impervious cover is not feasible for this segment. |

Table 7 Progress Report Assessments in December 2013 Submittal

| Water Body ID | Water Body Name | Water Body Included on Appendix L-1 | Impairment[□] | TMDL Impairment | Load Reduction Target TMDL (lb/yr) | Load Reduction Target IC (ac) | Will be Assigned to Designer | Contractor Assigned | Notes |
|----------------------|------------------------|--|--|------------------------|---|--------------------------------------|-------------------------------------|----------------------------|--------------------------------|
| MA34-05 | Connecticut River | Yes | Escherichia coli; PCB in Fish Tissue; Total Suspended Solids (TSS) | | | 164.3 | | Tetrattech/AECOM | |
| MA35056 | Parker Pond | Yes | (Non-Native Aquatic Plants*); Aquatic Plants (Macrophytes) [123.2] | Phosphorus | 2.6 | | X | | |
| MA70-03 | Dorchester Bay | Yes | Enterococcus; Fecal Coliform; Other; PCB in Fish Tissue; Total Suspended Solids (TSS); Turbidity | | | 19.5 | X | | |
| MA71-05 | Malden River | Yes | (Debris/Floatables/Trash*); Chlordane; DDT; Dissolved oxygen saturation; Escherichia coli; Fecal Coliform; Foam/Flocs/Scum/Oil Slicks; Oxygen, Dissolved; PCB in Fish Tissue; pH, High; Phosphorus (Total); Secchi disk transparency; Sediment Bioassays - | | | 0.3 | X | | |
| MA73-03 | Neponset River | Yes | (Debris/Floatables/Trash*); DDT; Enterococcus [121.0]; Escherichia coli [121.0]; Fecal Coliform [121.0]; Foam/Flocs/Scum/Oil Slicks; Other; Oxygen, Dissolved; PCB in Fish Tissue; Polychlorinated biphenyls | Pathogens | | 5.7 | X | | |
| MA73-04 | Neponset River | Yes | (Debris/Floatables/Trash*); Enterococcus [121.0]; Fecal Coliform [121.0]; Other; Oxygen, Dissolved; PCB in Fish Tissue; Turbidity | Pathogens | | 52.9 | | | AECOM |
| MA73-22 | Pequid Brook | Yes | Oxygen, Dissolved | | | 0.9 | X | | |
| MA74-02 | Weir River | Yes | (Low flow alterations*); Fecal Coliform; Nutrient/Eutrophication Biological Indicators; Sedimentation/Siltation | | | 1.1 | X | | Includes MA74011- Foundry Pond |
| MA84A-02 | Merrimack River | Yes | (Low flow alterations*); Escherichia coli; Mercury in Fish Tissue; Phosphorus (Total) | | | 10.1 | X | | |

| Water Body ID | Water Body Name | Water Body Included on Appendix L-1 | Impairment [□] | TMDL Impairment | Load Reduction Target TMDL (lb/yr) | Load Reduction Target IC (ac) | Will be Assigned to Designer | Contractor Assigned | Notes |
|---------------|-----------------|-------------------------------------|---|-----------------|------------------------------------|-------------------------------|------------------------------|---------------------|-------|
| MA84A-03 | Merrimack River | Yes | Escherichia coli; Mercury in Fish Tissue; PCB in Fish Tissue; Phosphorus (Total) | | | 31.5 | X | | |
| MA84A-04 | Merrimack River | Yes | Escherichia coli; PCB in Fish Tissue; Phosphorus (Total) | | | 42.3 | X | | |
| MA84A-29 | Lowell Canals | Yes | DDT; Lead; Mercury in Fish Tissue; PCB in Fish Tissue | | | 2.4 | X | | |
| MA93-39 | Proctor Brook | Yes | (Debris/Floatables/Trash*); Aquatic Macroinvertebrate Bioassessments; Fecal Coliform; Foam/Flocs/Scum/Oil Slicks; Nitrogen (Total); Phosphorus (Total); Sedimentation/Siltation; Taste and Odor | Pathogens | | 9.3 | X | | |
| MA35101 | Whitney Pond | No | Aquatic Plants (Macrophytes) [123.2]; Mercury in Fish Tissue; Turbidity [123.2] | Phosphorus | 1.97 | | X | | |
| MA74-16 | Accord Brook | No | Aquatic Macroinvertebrate Bioassessments | | | 0.64 | X | | |

Table 8 Status of Assessments for Design and Construction

| Semi- Annual Submittal Date | Water Body ID | Water Body Name | Submitted as a Progress Report? | Submitted as a Final Report? | Progress to Final Report Submitted? | Progress (Design, Construction or Complete) June 8, 2013 | Progress (Design, Construction or Complete) December 6, 2013 | % Design Complete | Anticipated Date of 100% Design Completion | Design Consultant |
|------------------------------------|----------------------|-----------------------------------|--|-------------------------------------|--|--|--|--|--|--|
| 6/8/2012 | MA41-05 | Cady Brook | | X | | Pre-Design | Pre-Design | -- | Unknown | |
| 6/8/2012 | MA42-03 | French River | | X | | Pre-Design | Design | 25-75% | 2014 | CEI |
| 6/8/2012 | MA42058* | Texas Pond | | X | | Pre-Design | Design | 25-75% | 2014 | CEI |
| 6/8/2012 | MA42059* | Thayers Pond | | X | | Pre-Design | Design | 25-75% | 2014 | CEI |
| 6/8/2012 | MA72-31 | Unnamed Tributary (Millers River) | | X | | Pre-Design | Pre-Design | -- | 2014 | |
| 6/8/2012 | MA73-01 | Neponset River | X | | | Pre-design | Pre-design | -- | 2014 | VHB |
| 6/8/2012 | MA73-02 | Neponset River | X | | | Pre-design | Pre-design | -- | 2014 | VHB |
| 12/8/2012 | MA51039 | Dorothy Pond | | X | | Pre-Design | Pre-Design | -- | Unknown | VHB |
| 6/8/2013 | MA51125 | Lake Quinsigamond | X | | | Pre-Design | Design | 25% | 2014 | Tetrattech |
| 6/8/2013 | MA51188 | Flint Pond | X | | | Pre-Design | Design | -- | 2014 | Tetrattech |
| 6/8/2012 | MA51073 | Indian Lake** | X | | | Pre-design (survey) | Pre-design (survey) | -- | 2014 | VHB - Will be a combination of 190 resurfacing project and retrofit project |
| 6/8/2012 | MA51-08 | Unnamed Tributary** | X | | | Pre-design (survey) | Pre-design (survey) | -- | 2014 | VHB - Will be a combination of 190 resurfacing project and retrofit project |
| 3/8/2011 | MA36-16 | Quaboag River | | X | | Design | Construction | 100 | 2013 | VHB |
| 12/8/2011 | MA61-02 | Lee River | X | | X (6/8/12) | Design | Design | 100% | 2013 | Tetrattech |
| 12/8/2011 | MA61-04 | Cole River | X | | X (6/8/12) | Design | Construction | 75% | 2013 | Tetra Tech/MassDOT Incorporating the BMP Design into the MassDOT "Swansea Superstructure Replacement of Bridge S35-018, I-195 (EB/WB) over the Cole River" Project |
| 12/8/2012 | MA71-04 | Alewife Brook | X | | X | Design | Design | | Unknown | VHB - Part of Rte 2/ Rte 16 Interchange Reconstruction Project |
| 12/8/2011 | MA72-14 | Mine Brook | X | | | Resurfacing Project 2013 - Design Resurfacing Project 2015 - Survey | Resurfacing Project 2013 - Construction Resurfacing Project 2015 - Survey | Resurfacing Project 2013 - 100% Resurfacing Project 2015 - Survey | Resurfacing Project 2013 - 2013 Resurfacing Project 2015 - 2015 | VHB - Incorporating BMPs into the I-495 Resurfacing project in Franklin. Unknown Designer for 2015 Resurfacing Project for remainder of the BMPs. |

| Semi- Annual Submittal Date | Water Body ID | Water Body Name | Submitted as a Progress Report? | Submitted as a Final Report? | Progress to Final Report Submitted? | Progress (Design, Construction or Complete) June 8, 2013 | Progress (Design, Construction or Complete) December 6, 2013 | % Design Complete | Anticipated Date of 100% Design Completion | Design Consultant |
|-----------------------------|---------------|--------------------------------|---------------------------------|------------------------------|-------------------------------------|--|--|-------------------|--|---|
| 12/8/2011 | MA74-08 | Monatiquot River | X | | | Design | Design | 100% | 2013 | VHB - Incorporating BMPs into Rte 3 Resurfacing project in Braintree |
| 12/8/2011 | MA93-34 | Saugus River | X | | X (6/8/12) | Design | Construction | 100% | Complete | Tetra Tech/MassDOT Incorporating BMP Design into the Interstate Maintenance Project |
| 12/8/2011 | MA93-35 | Saugus River | X | | X(6/8/12) | Design | Construction | 100% | Complete | Tetra Tech/MassDOT Incorporating BMP Design into the Interstate Maintenance Project |
| 6/8/2012 | MA32-05 | Westfield River | X | | | | Complete | Complete | 2013 | CEI |
| 6/8/2012 | MA34-19 | Stony Brook | X | | | | Design | 95% | 2013 | CEI |
| 6/8/2012 | MA35026 | Greenwood Pond | X | | | | Complete | Complete | 2013 | CEI |
| 6/8/2012 | MA62134 | Norton Reservoir | | X | | Design | Design | 100% | 2012 | MassDOT |
| 6/8/2012 | MA62-14 | Robinson Brook | X | | | Design | Design | 75% | 2013 | MassDOT |
| 6/8/2012 | MA62-39 | Rumford River | X | | | Design | Design | 95% | 2013 | CEI/Tetrattech |
| 6/8/2012 | MA71-02 | Mystic River | X | | | Design | Design | 75% | 2014 | Tetrattech |
| 6/8/2012 | MA72-07 | Charles River | | X | Toll Area Project | Design | Design | 75% | 2014 | VHB |
| 6/8/2012 | MA72-07 | Charles River | | X | Interstate 95 North Project Area | Pre-Design | Pre-Design | -- | 2013 | VHB |
| 6/8/2012 | MA72-25 | Rosemary Brook | | X | | Design | Design | 75% | 2012 | BSC |
| 6/8/2012 | MA72-29 | Cheese Cake Brook | | X | | Design | Design | 75% | 2014 | VHB |
| 6/8/2012 | MA72-36 | Charles River | | X | | Design | Design | 75% | 2014 | VHB |
| 12/8/2012 | MA92-03 | Miles River | X | | | Design | Construction | 100% | 2013 | AECOM |
| 12/6/2013 | MA34-05 | Connecticut River (Subbasin C) | | X | | Design | Design | 100% | 2013 | Tetrattech |
| 12/6/2013 | MA34-05 | Connecticut River (Subbasin D) | X | | | Design | Design | 100% | 2013 | Tetrattech |
| 12/8/2010 | MA51012 | Burncoat Park Pond | | X | X (6/8/2013) | Construction | Complete | 100% | Complete | Tetrattech |

| Semi- Annual Submittal Date | Water Body ID | Water Body Name | Submitted as a Progress Report? | Submitted as a Final Report? | Progress to Final Report Submitted? | Progress (Design, Construction or Complete) June 8, 2013 | Progress (Design, Construction or Complete) December 6, 2013 | % Design Complete | Anticipated Date of 100% Design Completion | Design Consultant |
|-----------------------------|---------------|--------------------------|---------------------------------|------------------------------|-------------------------------------|--|--|-------------------|--|---|
| 12/8/2011 | MA51-16 | Dark Brook | | X | | Design | Construction | 100% | Complete | VHB - 2 projects BMPs to Dark Brook along I-290 to be constructed as retrofit project with Kettle Brook and Leesville Pond BMPs and BMPs to Dark Brook along I-90 to be constructed with an I-90 resurfacing project in Auburn. |
| 12/8/2011 | MA51-01 | Kettle Brook** | X | | | Design | Construction | 100% | 2013 | VHB |
| 12/8/2011 | MA51087 | Leesville Pond** | X | | X | Design | Construction | 100% | 2013 | VHB |
| 6/8/2011 | MA84038 | Mill Pond** | | X | X(6/8/2013) | Design | Complete | 100% | 2013 | VHB |
| 6/8/2011 | MA84B-02 | Beaver Brook** | | X | X (6/8/2013) | Design | Complete | 100% | 2013 | VHB |
| 6/8/2011 | MA95113 | Noquochoke Lake**°° | | X | | Construction | Construction | 100% | Complete | Tetrattech |
| 6/8/2011 | MA95170 | Noquochoke Lake**°° | | X | | Construction | Construction | 100% | Complete | Tetrattech |
| 6/8/2011 | MA95171 | Noquochoke Lake**°° | | X | | Complete | Complete | 100% | Complete | Tetrattech |
| 12/8/2011 | MA71-01 | Aberjona River | X | | X (6/8/12) | Complete | Complete | 100% | Complete | Tetrattech |
| 12/8/2011 | MA71040 | Spy Pond | X | | X (6/8/2013) | Construction | Construction | 100% | Complete | VHB |
| 12/8/2011 | MA93032 | Hawkes Pond | X | | X (6/8/12) | Construction | Construction | 100% | Complete | Tetrattech |
| 6/8/2012 | MA62-47 | Wading River°° | | X | | Construction | Construction | 100% | Complete | VHB |
| 12/8/2010 | MA51-03 | Blackstone River | | X | X (6/8/2013) | Complete | Complete | 100% | Complete | VHB |
| 3/8/2011 | MA42034 | Lowes Pond | | X | | Complete | Complete | 100% | Complete | Tetrattech |
| 6/8/2013 | MA41-02 | Quinebaug River*** | X | X | X (12/8/2013) | Pre-Design | Design | 25-75% | 2014 | CEI |
| 6/8/2013 | MA95-42 | New Bedford Inner Harbor | X | X | X | Design | Complete | 100% | Complete | BSC |
| 6/8/2013 | MA51-10 | Mill River | X | | | Pre-Design | Pre-Design | | Unknown | CEI |
| 6/8/2013 | MA51135 | Lake Ripple | X | | | Pre-Design | Pre-Design | | Unknown | CEI |
| 6/8/2013 | MA62-04 | Taunton River | | | | Pre-Design | Pre-Design | | Unknown | CEI/VHB |
| 6/8/2013 | MA51-17 | Poor Farm Brook | X | | | Pre-Design | Pre-Design | | Unknown | CEI |
| 6/8/2013 | MA73-26 | Unquity Brook | X | | | Pre-Design | Pre-Design | | Unknown | CEI |

| Semi- Annual Submittal Date | Water Body ID | Water Body Name | Submitted as a Progress Report? | Submitted as a Final Report? | Progress to Final Report Submitted? | Progress (Design, Construction or Complete) June 8, 2013 | Progress (Design, Construction or Complete) December 6, 2013 | % Design Complete | Anticipated Date of 100% Design Completion | Design Consultant |
|-----------------------------|---------------|--------------------------------------|---------------------------------|------------------------------|-------------------------------------|--|--|-------------------|--|-------------------|
| 6/8/2013 | MA93-51 | Unnamed Tributary to Town Line Brook | X | | | Pre-Design | Pre-Design | | Unknown | CEI |
| 12/8/2013 | MA82B-07 | Assabet River | | | X | | | | | |
| 12/8/2013 | MA82B-14 | Nashoba River | | | X | | Complete | 100% | Complete | Tetrattech |
| 6/8/2013 | MA51196 | Shirley Street Pond | X | | | Pre-Design | Design | 25% | 2014 | Tetrattech |
| 6/8/2013 | MA51093 | Marble Pond | X | | | Pre-design | | | | BSC |
| 6/8/2013 | MA51-14 | Mumford River | X | | | Pre-design | Design | Pre-25/75% | 2014 | BSC |
| 6/8/2013 | MA51-15 | Tatnuck Brook | X | | | Pre-design | Design | Pre-25/75% | 2014 | BSC |
| 6/8/2013 | MA61-06 | Mount Hope Bay | X | | | Pre-design | Pre-design | | Unknown | VHB |
| 6/8/2013 | MA84046 | Newfield Pond | X | | | Pre-design | Design | 25%/75% | 2014 | BSC |
| 12/8/2013 | MA34-05 | Connecticut River (A, B) | X | | | | Pre-design | 0% | 2014 | AECOM |
| 12/8/2013 | MA73-04 | Neponset River | X | | | | Design | 25-75% | 2014 | AECOM |
| 6/8/2013 | MA74-04 | Mill River | X | | | | Design | 25-75% | 2014 | AECOM |
| 6/8/2013 | MA74-09 | Town Brook | X | | | | Design | 25-75% | 2014 | AECOM |
| 6/8/2013 | MA83-19 | Shawsheen River | X | | | | Design | 25-75% | 2014 | AECOM |
| 6/8/2013 | MA51-02 | Middle River | X | | | | Pre-design | | | |
| 6/8/2013 | MA51120 | Pondville Pond | X | | | | Pre-design | | | FST |
| 12/7/2012 | MA62-05 | Salisbury Plain River | X | | | | Pre-design | | | FST |
| 12/7/2012 | MA62-06 | Salisbury Plain River | X | | | | Pre-design | | | FST |
| 6/8/2013 | MA84A-10 | Spicket River | X | | | | Pre-design | | | FST |
| 6/8/2013 | MA84A-17 | Black Brook | X | | | | Pre-design | | | FST |
| 6/8/2013 | MA84A-18 | Bare Meadow Brook | X | | | | Pre-design | | | FST |
| 6/8/2013 | MA51-05 | Blackstone River | X | | | | Design | | 2014 | Tetrattech |
| 6/8/2103 | MA51020 | City Farm Pond (51020) | X | | | | | | | |
| 6/8/2013 | MA51-35 | Mill River | X | | | | | | | |
| 6/8/2013 | MA51-36 | Mill River | X | | | | | | | |
| 12/7/2012 | MA53001 | Burrs Pond (53001) | X | | | | Pre-design | | | |
| 12/7/2012 | MA53-01 | Runnins River | X | | | | Pre-design | | | Tetrattech |
| 12/7/2012 | MA92-06 | Ipswich River | X | | | | Pre-design | | | AECOM |
| 12/6/2013 | MA42-05 | French River | X | | | | Pre-design | | | FST |
| 6/8/2013 | MA73003 | Russell Pond | X | | | | Pre-Design | | | BSC |
| 6/8/2013 | MA93-37 | Beaver Brook | X | | | | Survey | | Unknown | VHB |
| 6/8/2013 | MA72-28 | Beaver Brook | X | | | | Pre-design | | Unknown | VHB |

| Semi- Annual Submittal Date | Water Body ID | Water Body Name | Submitted as a Progress Report? | Submitted as a Final Report? | Progress to Final Report Submitted? | Progress (Design, Construction or Complete) June 8, 2013 | Progress (Design, Construction or Complete) December 6, 2013 | % Design Complete | Anticipated Date of 100% Design Completion | Design Consultant |
|-----------------------------|---------------|-----------------|---------------------------------|------------------------------|-------------------------------------|--|--|-------------------|--|-------------------|
| 6/8/2013 | MA82B-02 | Assabet River | X | | | | Survey | | Unknown | VHB |

List of Attachments

Attachment 1 Impaired Waters Assessments Final Reports

Attachment 2 Impaired Waters Assessments Progress Reports

Attachment 3 Impaired Waters Assessments Progress to Final Reports

Attachment 4 No Discharges from MassDOT Outfalls Assessments

Attachment 5 Unrelated Impairments Assessments

Attachment 1:

Impaired Waters Assessments – Final Reports

List of Impaired Water Bodies

| Water body ID | Water body Name |
|----------------------|------------------------|
| MA42-05 | French River |
| MA51078 | Jordan Pond |
| MA71043 | Upper Mystic Lake |
| MA71-06 | Chelsea River |
| MA73-16 | Hawes Brook |
| MA73-20 | Beaver Meadow Brook |
| MA74-15 | Town River Bay |
| MA81-02 | North Nashua River |
| MA81-05 | Nashua River |
| MA82055 | Grist Mill Pond |
| MA82056 | Hager Pond |
| MA82A-05 | Hop Brook |
| MA82A-07 | Concord River |
| MA82A-15 | Unnamed Tributary |
| MA82A-16 | Unnamed Tributary |
| MA82B-04 | Assabet River |
| MA82B-07 | Assabet River |
| MA82B-14 | Nashoba Brook |
| MA83-01 | Shawsheen River |
| MA83-17 | Shawsheen River |
| MA84089 | Spectacle Pond |
| MA84A-21 | Deep Brook |
| MA84B-04 | Stony Brook |
| MA93-44 | Saugus River |

Attachment 2:

Impaired Waters Assessments - Progress Reports

List of Impaired Water Bodies

| Water body ID | Water body Name |
|----------------------|-------------------------------------|
| MA34-05 | Connecticut River |
| MA35056 | Parker Pond |
| MA35101 | Whitney Pond |
| MA70-03 | Dorchester Bay |
| MA71-05 | Malden River |
| MA73-03 | Neponset River |
| MA73-04 | Neponset River |
| MA73-22 | Pequid Brook |
| MA74-02 | Weir River and MA74011 Foundry Pond |
| MA74-16 | Accord Brook |
| MA84A-02 | Merrimack River |
| MA84A-03 | Merrimack River |
| MA84A-04 | Merrimack River |
| MA84A-29 | Lowell Canals |
| MA93-39 | Proctor Brook |

Attachment 3:

Impaired Waters Assessments - Progress to Final Reports

List of Impaired Water Bodies

| Water body ID | Water body Name |
|----------------------|------------------------|
| MA32-05 | Westfield River |
| MA34-19 | Stony Brook |
| MA35026 | Greenwood Pond |
| MA41-02 | Quinebaug River |
| MA51050 | Flint Pond |
| MA51-04 | Blackstone River |
| MA51-06 | Blackstone River |
| MA74-08 | Monatiquot River |
| MA92-03 | Miles River |
| MA93-10 | Forest River |

Attachment 4:

No Discharges from MassDOT Outfalls Assessments

List of Impaired Water Bodies

| Water body ID | Water body Name |
|----------------------|------------------------|
| MA35099 | Whites Mill Pond |
| MA36165 | Lake Whitmore |
| MA42-06 | French River |
| MA51110 | Newton Pond |
| MA51157 | Southwick Pond |
| MA51185 | Woodbury Pond |
| MA51-18 | Peters River |
| MA51-27 | Coal Mine Brook |
| MA51-28 | Cook Allen Brook |
| MA82015 | Carding Mill Pond |
| MA82042 | Fort Meadow Brook |
| MA82A-06 | Hop Brook |
| MA91-05 | Rowley River |
| MA93-40 | Proctor Brook |

Attachment 5:

Pathogen Only – Final Assessments

List of Impaired Water Bodies

| Water body ID | Water body Name |
|---------------|---------------------|
| MA52-06 | Bungay River |
| MA53-03 | Palmer River |
| MA53-05 | Palmer River |
| MA53-16 | Rocky Run |
| MA61-08 | Kickamuit River |
| MA62-20 | Assonet River |
| MA62-38 | Meadow Brook |
| MA62-50 | Broad Cove |
| MA62-51 | Muddy Cove Brook |
| MA62-55 | Segreganset River |
| MA62-56 | Three Mile River |
| MA62-57 | Three Mile River |
| MA71-08 | Mill Creek |
| MA73-06 | School Meadow Brook |
| MA73-17 | Traphole Brook |
| MA73-24 | Purgatory Brook |
| MA73-27 | Ponkapog Brook |
| MA83-06 | Vine Brook |
| MA83-07 | Strong Water Brook |
| MA83-10 | Kiln Brook |
| MA83-14 | Spring Brook |
| MA91-11 | Little River |
| MA93-32 | Hawkes Brook |
| MA93-33 | Hawkes Brook |
| MA93-41 | Crane River |
| MA93-48 | Bennetts Pond Brook |
| MA93-50 | Shute Brook |
| MA93-52 | Lynn Harbor |
| MA93-53 | Lynn Harbor |