



## Part II. Self-Assessment

The City has continued to update its stormwater and sewer systems in the downtown area tributary of the CSO-004/005-2/006 area. The CSO-004/005-2/006 area is approximately 65 acres and generally bound by Webster Street to the north, Main Street to the south, Green Street to the east and Eastern Avenue to the west. The project's goal is to reduce the amount of storm water that enters the combined and sanitary sewer systems and reduce the likelihood of sanitary sewer will overflow. This will be achieved by providing new storm drains and rehabilitating existing combined and sanitary sewers. The project is being conducted in 2 phases.

### SLTP Project 1

- On June 8, 2012, sewer separation upstream of the CSO-006 regulator on Eastern Avenue (lower CSO-006 area) was completed and a threaded compression plug was installed in the CSO-006 overflow pipe, preventing future overflow activity.
- On June 15, 2012, sewer separation upstream of the CSO-005-2 overflow on Chestnut Street was completed and a brick plug was installed in the CSO-005-2 overflow pipe, preventing future overflow activity.
- On June 25, 2012, sewer separation upstream of the CSO-004 regulator on Rogers Street was completed and the regulator structure was modified and the overflow weir was raised in accordance with the SLLCP, reducing future overflow activity and potential saline inflows.
- On July 17, 2012, the project was substantially complete.

### SLTP Project 3

- A portion of Project 3 sewer separation was incorporated into SLTCP Project 1 to address concerns about sewer backups and overflows in the vicinity of 15 Prospect Square
- On November 15, 2012, all catchbasins on Prospect Square had been redirected from the combined sewer at 15 Prospect Square to the new gravity drain connection to Rogers Street through the Gloucester Housing property, completing sewer separation in this portion of the CSO-005-1 catchment area.

The City's residents were extremely supportive of the project and helped contribute to make the Phase 1 project very successful. The Phase 2 contract includes repair and replacement of storm drains and catchbasins in the lower CSO-002 catchment area. Construction of new sewers and drains including deep-sump catchbasins in the CSO-002 area was completed in July of 2010.

The city cleaned 495 of 3300 catchbasins in 2011 and removed 100 cubic yards of material. The decrease in sediment amount removed reflects the DPW initiative to reduce the amount of sand entering the system by increasing the amount of salt applied while decreasing sand.

The City has continued to hold a successful Hazardous Waste Day on September 29, 2012 and leaf pick up weeks to deter illegal dumping. The City has an ongoing mercury thermometer exchange program. In addition, the City holds monthly collections for waste oil, oil filters, tires, car batteries, scrap metal, and fluorescent bulbs.

The City continues to collaborate with Northshore Audubon, Eight Towns and the Bay, Salem Sound Coastwatch and NOAA to monitor various sites around the city as well as public involvement.

The City passed a Stormwater Utility Ordinance in 2009. In March of 2011 the City passed accompanying Regulations. The details of the user fees and enterprise fund are still under review by City Council.

The City passed an Illicit Discharge Ordinance in 2012.

The City is considering joining the Northeast Massachusetts Mosquito Control and Wetlands Management District.

**Part III. Summary of Minimum Control Measures**

**1. Public Education and Outreach**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 10</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities</b>
1-1 Revised	Classroom Stormwater Education	School Committee	Teachers instruct classes and present material gathered in year one	In Year 7, Salem Sound Coastwatch held classroom exploration of clams and habitat with student of the O'Malley Middle School	Measurable goals for 2003 permit have been met.
1-2, 1-3 Revised	Using the Media	Engineering	Supply DPW, City Hall and Public Library with flyers and fact sheets. Distribute flyers to Gloucester Residents	In Year 1, Posters posted at City Hall, City Hall Annex, and DPW Sites	Measurable goals for 2003 permit have been met.
1-4 Revised	Hazardous Waste Mgt.	DPW	Bi-annual hazardous waste collection	Held annual Hazardous Waste Day 9/29/12, continued monthly collections for oil, oil filters, tires, car batteries, scrap metal, and fluorescent bulbs	Continue to hold annual hazardous waste day.

## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2-1 Revised	Adopt -A- Stream Program	Con/Com/ Community Development	Clean and maintain adopted local waters	Northshore Audubon, Gloucester Conservation & Shellfish Dept. hosted Little River Shoreline survey and cleanup.	Measurable goals for 2003 permit have been met.
2-2 Revised	Pond and Stream Cleanup and Monitoring	Community Development Engineering	Organize stream clean up events	COASTSWEEP 2011 conducted cleanups in September and October on Half Moon, Plum Cove, Cressy, and Pavillion beaches.	Continue to hold annual beach cleanups and other stream cleanup events.
2-3 Revised	Stencil Storm Drains	DPW	Stencil 30 Storm drains per year. Maintain records of stenciled areas in Gloucester	Currently coordinating with the Coast Guard to utilize volunteered Coast Guard resources to conduct stenciling program along the harbor.	Measurable goals for 2003 permit have been met.
Revised	Community Hotline	DPW	Residents use Hotline to report illegal dumping for DPW investigation.	Continued to respond to calls from residents.	Continue to respond to calls from residents.
2-4 Revised	Stormwater Steering Committee	Engineering	Quarterly meetings and during most TAG meetings	Stormwater Utility has been passed and City Council is working on fee schedule.	Continue to hold meetings.
2-5 Revised	Pet Waste Collection	Health Dept. Animal Control	Continued enforcement of ordinances and post signs on beaches and other areas where ordinance is applicable.	Expect opening of designated dog park May 2013.	Measurable goals for 2003 permit have been met.

### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3-1 Revised	Inspect City Discharges	DPW	Locate, inspect, record condition, dry weather flow	Continue to inspect and record condition of sewer and drain outfall tide gates and CSO regulator structures during dry weather and document conditions and maintenance needs.	Measurable goals for 2003 permit have been met.
3-2 Revised	Structure Mapping	Engineering, DPW	Locate structures, compile database, create map	Conducted windshield survey to update locations of any new structures and outfalls.	Measurable goals for 2003 permit have been met.
3-3 Revised	Non-stormwater Discharge Education	Mayors Office	Flyers, record and enforce illegal dumps, cleanup	Flyers available at City Hall, City Hall Annex, and DPW	Measurable goals for 2003 permit have been met.
3-4 Revised	Septic System Controls	Board of Health	Maintain systems, document failing systems, repair	Health Department has recorded all repairs of septic systems	Measurable goals for 2003 permit have been met.
3-5 Revised	Illicit Discharge Ordinance	City Council	Create ordinance, eliminate illicit discharges to MS4	Passed Illicit Discharge Ordinance	Measurable goals for 2003 permit have been met.

#### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities
4-1 Revised	Ordinance review/Update	City Council	Maintain and enforce exist. Regs, dev. Storm drain regs.	The Rules and Regulations have been passed by City Council	Measurable goals for 2003 permit have been met.
4-2 Revised	Construction Inspection	City Council	Dev. Soil and erosion control ord., maintain inspections	The Rules and Regulations have been passed by City Council	Measurable goals for 2003 permit have been met.

## 5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities
5-1 Revised	Zoning	City Council	Update zoning regs, track changes	Continued to update zoning changes	Continue to update zoning changes
5-2 Revised	Post Construction	City Council	Dev. Storm drain ord, dev standard construction policy	The Rules and Regulations have been passed by City Council	Measurable goals for 2003 permit have been met.
5-3 Revised	BMP Inspection, Maintenance	DPW	Inspect BMP's Document Problems, make changes	No action planned in Year 10.	New permit requirements to be addressed in Notice of Intent



## 6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6-1 Revised	Catch basin Cleaning	DPW	Develop program, collect data, refine program	BMP complete, City owns vactor truck which continually cleans catchbasins throughout year with focused efforts on problem catchbasins. The city cleaned 495 catchbasins for a total of 100 cubic yards of debris removed	Continue regular cleaning of catchbasins.
6-2 Revised	Street Cleaning	DPW	Sweep roads annually, parking lots	Street sweeping conducted March to November; also sidewalk sweeping was completed in downtown area.	Continue regular cleaning of streets.
6-3 Revised	Pipe Cleaning	DPW	Clean 25% of System	Drain structures and pipes cleaned in downtown area as part of downtown sewer separation project.	Measurable goals for 2003 permit have been met.
6-4 Revised	Pipe Installations	Engineering, DPW	Replace portion of pipe, catchbasins annually	Approximately 1000' of drain pipe were replaced as part of regular inspection and maintenance of the system. Drain and sewer pipes replaced as part of CSO-004/005-2/006 separation project.	Measurable goals for 2003 permit have been met.
6-5 Revised	Investigate City BMP's	DPW	Inspect 3 BMP'S/Year, Implement Retrofits	Drain structures and pipes cleaned in downtown area as part of downtown sewer separation project.	Measurable goals for 2003 permit have been met.

**7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2-2 Revised	Pond and Stream Cleanup and Monitoring	Community Development Engineering	Organize stream clean up events	COASTSWEEP 2012 conducted three cleanup events in September and October on Half Moon, Cressy, Plum Cove, and Long, beaches.	Continue to hold annual beach cleanups and other stream cleanup events.
3-1 Revised	Inspect City Discharges	DPW	Locate, Inspect, Record Condition, Dry Weather Flow	No activities planned for year 9.	New permit requirements to be addressed in Notice of Intent.
3-4 Revised	Septic System Controls	Board of Health	Inspect systems, document failing systems, repairs	Health Department has recorded all repairs of septic systems	New permit requirements to be addressed in Notice of Intent.
6-1 Revised	Catchbasin Cleaning	DPW	Develop program, Collect data, refine program	BMP complete, City owns vactor truck which continually cleans catchbasins throughout year with focused efforts on problem catchbasins. The city cleaned 495 catchbasins for a total of 100 cubic yards of debris removed.	Measurable goals for 2003 permit have been met.
6-5 Revised	Investigate BMP's	DPW	Inspect 3 BMP's/Year, Implement Retrofits	Drain structures and pipes cleaned in downtown area as part of downtown sewer separation project.	Measurable goals for 2003 permit have been met.