



COMPREHENSIVE
ENVIRONMENTAL
INCORPORATED

June 18, 2010

Glenda Velez
US EPA – CIP
One Congress Street, Suite 1100
Boston, MA 02114

**Re: NPDES Stormwater General Permit
2007-2008 Annual Report
Town of Amesbury, MA**

Dear Ms. Velez:

On behalf of the Town of Amesbury, MA, please find enclosed the NPDES Phase II Stormwater General Permit 2007-2008 Annual Report. The Annual Report has simultaneously been filed with the Massachusetts Department of Environmental Protection.

If you have any questions or require any additional information, please do not hesitate to call me at (800)725-2550 ext. 303.

Sincerely,

Comprehensive Environmental Inc.

Nick Cristofori
Project Engineer

cc: Massachusetts Department of Environmental Protection, Boston Office
Robert Desmarais, P.E., Director of Public Works, Town of Amesbury, MA

Enclosure – NPDES Phase II Small MS4 General Permit 2007-2008 Annual Report

- Engineering
- Design
- Construction
- Inspection

Responsive
service,
cost-effective
solutions,
technical
excellence

- Water & Wastewater
- Parks & Recreation
- Drainage & Flooding
- Hazardous Waste
- Transportation
- Stormwater & LID
- Watershed Restoration



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June 18, 2010

Mr. Frederick Civian
Stormwater Coordinator
Massachusetts Department of Environmental Protection
One Winter Street, 6th Floor
Boston, MA 02108

**Re: NPDES Stormwater General Permit
2007-2008 Annual Report
Town of Amesbury, MA**

Dear Mr. Civian:

On behalf of the Town of Amesbury, MA, please find enclosed the NPDES Phase II Stormwater General Permit 2007-2008 Annual Report. The Annual Report has simultaneously been filed with the U.S. Environmental Protection Agency.

If you have any questions or require any additional information, please do not hesitate to call me at (800)725-2550 ext. 303.

Sincerely,

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cc: U. S. Environmental Protection Agency, Boston Office
Robert Desmarais, P.E., Director of Public Works, Town of Amesbury, MA

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Municipality/Organization: Town of Amesbury

EPA NPDES Permit Number: MAR041177

MaDEP Transmittal Number: W-035560

Annual Report Number

& Reporting Period: No. 5: May 1, 2007-April 30, 2008

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Robert Desmarais

Title: Director of Public Works

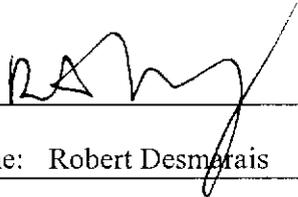
Telephone #: (978)388-8135

Email: rob@ci.amesbury.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 imprisonment for knowing violations.

Signature:



Printed Name: Robert Desmarais

Title: Director of Public Works

Date:

6/15/10

Part II. Self-Assessment

The City of Amesbury has completed the required self-assessment of the annual compliance review for the Phase II Stormwater Program. In accordance with the NPDES Phase II Stormwater requirements, the following topics were evaluated for the completion of the Annual Report:

1. Compliance with the Phase II Permit Conditions
2. Appropriateness of the Selected BMPs
3. Progress Towards Achieving the Program's Measurable Goals
4. Results of Any Information that has been Collected and Analyzed
5. Activities for the Next Reporting Cycle
6. Changes in Identified BMPs or Measurable Goals

The Town has determined that our municipality is in compliance with all permit conditions.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Period |
|-----------------|---|--------------------------------------|---|--|--|
| 1a | Publish information on voluntary yard waste program | Town Engineer | Publish in newspaper various times | The town continued to publish information regarding the hours of operation, location, materials to be collected, etc. for the yard waste program. | The Town will continue to advertise the yard waste collection program. |
| Revised | | | | | |
| 1b | Publish information about household hazardous waste program | Town Engineer | Publish flyers and notices in paper and radio in the spring | The town continued to publish information regarding the hours of operation, date, location, materials to be collected, etc. for the household waste program. | The Town will continue to advertise the household waste program. |
| Revised | | | | | |
| 1c | Publish educational brochure | Town Engineer | Coordinate with public awareness group and update annually | Poster boards displaying educational material on stormwater were prepared and then set-up at the Town Hall and Public Library for residents to view. | The Town will continue to display educational material in public places. |
| Revised | | | | | |
| 1d | Post brochure on town website | IS Dept. | Establish link and update annually | The town continued to host stormwater information on its website. | Efforts will be made to update website annually |
| Revised | | | | | |

1a. Additions

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Period |
|-----------------|---|--------------------------------------|--|---|--|
| 1e | Install storm drain markers, stenciling and door hanger brochures | Town Engineer with Volunteers | Complete installation of markers on curbs and painted stencils | To date, 500 markers have been installed, 1,000 magnets distributed, and 2,000 door hangers brochures were distributed. | Maintain/replace markers and paint faded stencils as needed. |
| 1f | Install pet waste signs and bag dispensers | Dept. of Public Works/Town Engineer | Complete installation of pet waste signs and bag dispensers | The town previously installed pet waste signs and bag dispensers at various park and trail head locations. | Maintain dispensers and restock bags as needed. |

2. Public Involvement and Participation

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Period |
|-----------------|--|--------------------------------------|---------------------------------|---|--|
| 2a Revised | Voluntary yard waste disposal program | Dept. of Public Works | Conduct Annually April-November | The town conducts a yearly voluntary yard waste program between April and November. | The Town will continue to conduct the yard waste collection program. |
| 2b Revised | Conduct meetings regarding stormwater management | Dept of Public Works/Town Engineer | Conduct one meeting per year | The Lakes and Waterways Commission conducts open meetings numerous times during the year to discuss stormwater issues. Meetings are open to interested members of the public. | The Lakes and Waterways Commission will continue to conduct open meetings throughout the year. |

2a. Additions

No additions at this time.

3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Period |
|---------------|--|-------------------------------|---|--|---|
| 3a Revised | Map stormwater drainage system and outfalls | Town Engineer | 3 year program using GPS equipment with submeter accuracy | 100% of Town GIS database/mapping completed. Known outfalls have been recorded and mapped. | Continue to update existing drainage system mapping as new developments are constructed or additional outfalls located. |
| 3b Revised | Visually inspect outfalls for dry weather flow | Town Engineer | 3 year program concurrent with mapping | Known outfalls have been inspected for dry weather flow. A total of 312 outfalls have been inspected to date. | Continue with follow-up observations for outfalls identified with dry weather flows. |
| 3c Revised | Develop sampling and analysis program | Town Engineer | 3 year program based on results of outfall inspections | Samples previously collected at outfalls with dry weather flow were analyzed to determine potential illicit discharge sources. To date, 14 outfalls have been sampled. | Continue to sample dry weather flow as needed. |
| 3d Revised | Develop a program to identify and locate illicit discharge connections | Town Engineer | 3 year program to test drains based on results of sampling and analysis | IDDE investigations have been completed for outfalls with dry weather flow that indicated potential illicit discharge sources. 7 dry weather flow sources have been investigated to date. | Continue to pursue sources of discovered illicit discharges and work towards elimination. |
| 3e Revised | Periodically inspect outfalls | Town Engineer | Inspect 25% of outfalls per year. | Continued inspection program. | Continue inspection program. |
| 3f Revised | Develop Stormwater Use Regulation prohibiting illicit discharges | Town Engineer | Incorporate into comprehensive stormwater ordinance. | A draft Stormwater Management Ordinance addressing illicit discharges was developed and is under review by various Town Departments. This BMP was combined with BMP 4a as a single document. | Continue to review and develop an Illicit Discharge ordinance. |

3a. Additions

No additions at this time.

4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Period |
|----------|---|--|--|--|---|
| 4a | Develop a comprehensive stormwater ordinance | Dept. of Public Works, Town Engineer, other Depts. | Obtain approval from Mayor and Municipal Council. | A draft Stormwater Management Ordinance addressing erosion controls and post-construction stormwater controls was developed and is under review by various Town Departments. This BMP was combined with BMP 3f as a single document. | Continue to review and develop a stormwater management ordinance. Adopt and enforce the ordinance through peer review and site inspections. |
| Revised | | | | | |
| 4b | Reassess stormwater management plan | Town Engineer | Perform every three years | Many Phase II programs and BMPs have been implemented over the past several years or are currently taking place. | Perform an annual review of the stormwater program and look for possible improvement areas. |
| Revised | | | | | |
| 4c | Require erosion and sediment control measure plan prior to construction on all projects | Planning Board, Conservation Commission, Town Engineer | Conduct periodic site inspections and monitor and track violations through reports to the Conservation Commission. | The Town Planning Board requires erosion and sedimentation control plans prior to construction. Site visits are conducted periodically to assure the contractor is in compliance with the proposed plan | Continue to review erosion and sedimentation control plans and perform periodic site inspections. |
| Revised | | | | | |

4a. Additions

No additions at this time.

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 5 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Period |
|----------|--|--|--|---|---|
| 5a | Develop standards for regulating stormwater controls for all new and redevelopment projects and inspect controls | Planning Board, Conservation Commission, Town Engineer | Incorporate into comprehensive stormwater ordinance. | A draft Stormwater Management Ordinance addressing erosion controls and post-construction stormwater controls was developed and reviewed by various Town Departments. | Continue to review and develop a stormwater management ordinance. Adopt and enforce the ordinance through peer review and site inspections. |
| Revised | | | | | |

5a. Additions

No additions at this time.

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 5 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|----------|-----------------|-------------------------------|--|--|---|
| 6a | Street sweeping | Department of Public Works | Continue program of sweeping twice annually. Track volume of material collected by area. Sweep in late spring and fall with additional sweeping during severe winters. | All streets are swept in Town at least once annually. Efforts are made to sweep more heavily traveled streets at least twice per year. | Street sweeping efforts will be continued and efforts will be made to track the amount of debris collected during the sweeping. |
| Revised | | | | | |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|-----------------|--|--------------------------------------|--|--|--|
| 6b | Deicing | Department of Public Works | Continue program of using Ice Ban to enhance melting | Ice Ban was not used to enhance melting during the past year. | Upon further evaluation, the Town does not intend to use Ice Ban in the future. |
| Revised | | | | | |
| 6c | Develop Spill Prevention Control Plan | Department of Public Works | Implement Plan and train employees within one year | A database for all facilities in Town that require an SPCC plan was previously completed to help promote pollution prevention throughout Town. | Provide facilities with information on regulatory requirements and additional information such as fact sheets. |
| Revised | Develop Spill Prevention Control Plan Database | Department of Public Works | Database of facilities throughout town that require SPCC Plan. | | |
| 6d | Catch basin cleaning | Department of Public Works | Continue program of catch basin cleaning twice annually. Track volume of material removed by area. | Approximately 2,000 catch basins were cleaned throughout town. | Continue to clean catch basins as funding allows. Also clean other BMPs such as Vortech units in residential areas and baffle tanks in residential and commercial areas. |
| Revised | | | Limited funding has reduced the Town's catch basin cleaning to once annually. | | |
| 6e | Trash removal and recycling | Department of Public Works | Continue program of trash removal weekly and curbside recycling biweekly. | The curbside trash removal and recycling program is being conducted. | Continue conducting curbside trash removal and recycling efforts. Continue to advertise in conjunction with BMP 1B. |
| Revised | | | | | |
| 6f | Yard waste disposal | Department of Public Works | Continue voluntary program for resident drop-off of yard waste April-November. | The voluntary yard waste drop-off program is being conducted. | Continue holding yard waste drop-off events. Continue to advertise in conjunction with BMP 1A. |
| Revised | | | | | |

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Term |
|-----------------|---|--------------------------------------|--|---|--|
| 6g | Household hazardous waste program | Department of Public Works | Continue annual program of conducting a collection day for household hazardous waste | Amesbury held a household hazardous waste day during the past year. | Continue to hold a household hazardous waste disposal day at least annually. Advertise the event through available media such as television, newspaper and internet. |
| Revised | | | | | |
| 6h | Develop storm drain flushing program | Department of Public Works | Flushing reports of pipe sections completed. | Pipe sections were flushed as needed. | Continue flushing pipe sections as needed. |
| Revised | | | | | |
| 6i | Television inspection of storm drains | Department of Public Works | Inspection reports of pipe sections completed. | Several pipe sections were TV inspected throughout Town. | Continue TV inspections as needed. |
| Revised | | | | | |
| 6j | Require Spill Control Plans from all non-residential establishments | Department of Public Works | Inspection reports and plans. | A database for facilities in Town that require an SPCC plan was completed to help promote pollution prevention throughout Town. | Provide facilities with information that discusses regulatory requirements and additional information such as fact sheets. |
| Revised | | | | | |

6a. Additions

No additions at this time.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) - NOT APPLICABLE

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 5 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Next Permit Period |
|-----------------|------------------------|--------------------------------------|---------------------------|--|--|
| 7a Revised | | | | | |

7a. Additions

No additions at this time.

7b. WLA Assessment

NOT APPLICABLE

Part IV. Summary of Information Collected and Analyzed

Locations and physical descriptions of approximately 312 outfalls have been gathered since Permit Year 1. Copies of all educational materials and memos distributed have been kept on file. Meeting memos and phone logs have also been kept on file.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

| | | |
|--|-------|-----------|
| Stormwater management position created/staffed | (y/n) | No |
| Annual program budget/expenditures | (\$) | |
| | | |
| | | |

Education, Involvement, and Training

| | | |
|---|---------------|------------|
| Estimated number of residents reached by education program(s) | (# or %) | 95% |
| Stormwater management committee established | (y/n) | |
| Stream teams established or supported | (# or y/n) | |
| Shoreline clean-up participation or quantity of shoreline miles cleaned | (y/n or mi.) | |
| Household Hazardous Waste Collection Days | | |
| ▪ days sponsored | (#) | 1 |
| ▪ community participation | (%) | |
| ▪ material collected | (tons or gal) | |
| School curricula implemented | (y/n) | Yes |
| | | |
| | | |

Legal/Regulatory

| | In Place Prior to Phase II | Under Review | Drafted | Adopted |
|--|----------------------------------|-----------------|---------|---------|
| Regulatory Mechanism Status (indicate with "X") | | | | |
| ▪ Illicit Discharge Detection & Elimination | | X | | |
| ▪ Erosion & Sediment Control | | X | | |
| ▪ Post-Development Stormwater Management | | X | | |
| Accompanying Regulation Status (indicate with "X") | | | | |
| ▪ Illicit Discharge Detection & Elimination | | X | | |
| ▪ Erosion & Sediment Control | | X | | |
| ▪ Post-Development Stormwater Management | | X | | |

Mapping and Illicit Discharges

| | | |
|--|--------------------|------------------------------|
| Outfall mapping complete | (%) | 100% |
| Estimated or actual number of outfalls | (#) | |
| System-Wide mapping complete | (%) | 100% |
| Mapping method(s) | | |
| ▪ Paper/Mylar | (%) | |
| ▪ CADD | (%) | |
| ▪ GIS | (%) | |
| Outfalls inspected/screened | (# or %) | 312 |
| Illicit discharges identified | (#) | 1 since Permit Year 1 |
| Illicit connections removed | (#) (est. gpd) | 1 since Permit Year 1 |
| % of population on sewer | (%) | 55% |
| % of population on septic systems | (%) | 45% |

Construction

| | | |
|---|------------|--|
| Number of construction starts (>1-acre) | (#) | |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control | (%) | |
| Site inspections completed | (# or %) | |
| Tickets/Stop work orders issued | (# or %) | |
| Fines collected | (# and \$) | |
| Complaints/concerns received from public | (#) | |
| | | |
| | | |

Post-Development Stormwater Management

| | | |
|--|----------|--|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control | (%) | |
| Site inspections completed | (# or %) | |
| Estimated volume of stormwater recharged | (gpy) | |
| | | |
| | | |

Operations and Maintenance

| | | |
|--|----------------|---------------------------|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets) | (times/yr) | Once every 2 years |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets) | (times/yr) | Once every 2 years |
| Total number of structures cleaned | (#) | ~2,000 |
| Storm drain cleaned | (LF or mi.) | |
| Qty. of screenings/debris removed from storm sewer infrastructure | (lbs. or tons) | |
| Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.) | | |
| Cost of screenings disposal | (\$) | |

| | | |
|--|----------------|---------------|
| Average frequency of street sweeping (non-commercial/non-arterial streets) | (times/yr) | 1/year |
| Average frequency of street sweeping (commercial/arterial or other critical streets) | (times/yr) | 1/year |
| Qty. of sand/debris collected by sweeping | (lbs. or tons) | |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) | (location) | |
| Cost of sweepings disposal | (\$) | |
| Vacuum street sweepers purchased/leased | (#) | |
| Vacuum street sweepers specified in contracts | (y/n) | |
| | | |

| | | |
|--|-------------|--|
| Reduction in application on public land of: (“N/A” = never used; “100%” = elimination) | | |
| ▪ Fertilizers | (lbs. or %) | |
| ▪ Herbicides | (lbs. or %) | |
| ▪ Pesticides | (lbs. or %) | |
| | | |
| | | |

| | | |
|--|---|------------|
| Anti-/De-Icing products and ratios | % NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand | 0 |
| Pre-wetting techniques utilized | (y/n) | |
| Manual control spreaders used | (y/n) | |
| Automatic or Zero-velocity spreaders used | (y/n) | |
| Estimated net reduction in typical year salt application | (lbs. or %) | |
| Salt pile(s) covered in storage shed(s) | (y/n) | Yes |
| Storage shed(s) in design or under construction | (y/n) | |