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Municipality/Organization: Town of West Bridgewater

EPA NPDES Permit Number: MAR041172

MassDEP Transmittal Number: W-041193

Annual Report Number & Reporting Period: No. 8 April 1, 2010 – March 31, 2011

**NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2010)**

Part I. General Information

Contact Person: Leonard Graf Title: Highway and Vehicle Maint. Supt.

Telephone #: 1-508-894-1216 Email: LGraf@WBridgewater.com

Mailing Address: Highway Department, 65 North Main Street, West Bridgewater, MA 02379

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: Elizabeth D. Faricy *Elizabeth D. Faricy*

Printed Name: Elizabeth D. Faricy

Title: Administrator

Date: June 2, 2011

Part II. Self-Assessment

The Town of West Bridgewater has completed the required self-assessment and has determined that our municipality's efforts to implement some of the BMPs required in the permit have faltered due to a change in staff. Effective February 1, 2010, the Town appointed Leonard Graf to fill the position. Currently he is in the process of identifying all issues regarding the running of the department, including oversight of the NPDES permit.

In addition, the CWRMP committee has begun the process of reviewing the activities covered by the permit, to determine which are appropriate to be coordinated directly by the committee, vs. the ones that should be coordinated and/or implemented by paid Town staff such as the highway department. In the future, meetings will be held with the respective Town departments and officials to develop clear lines of responsibility and to expedite execution of the tasks. Items that are anticipated to fall under the CWRMP include stenciling of drains, forming a public education force, and other activities that can be reasonably expected to be performed by volunteers or in conjunction with the schools.

The provisions of the permit which the Town is currently not in compliance with are the following:

BMP #4 - Educate Students

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 8 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 9 |
|-----------------|-----------------------------------|--------------------------------------|-----------------------------|--|--|
| 1. Revised | Enlist residents as S/W Educators | S/W Mgr. | Form Public Education force | The CWRMP committee has been tasked to review Storm Water Management strategies. | Consider increasing the size of the committee with storm water management qualified individuals. |
| 2. Revised | Design and Distribute brochures | S/W Mgr. | Raise public awareness | Consider additional public notices through newspaper articles | Continue putting out the word through the press |
| 3. Revised | Stencil storm drains | Highway Department | Identify all MSW4's | CWRMP Committee started discussing options to proceed with this BMP | Obtain stencils and secure services of volunteer groups to begin stenciling. |
| 4. Revised | Educate students | Task Force and Teachers | Introduce in Classrooms | CWRMP Committee started discussing options to proceed with this BMP | Look into suitable materials to use for education of students. |
| Revised | | | | | |
| Revised | | | | | |

2. Public Involvement and Participation

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 9 |
|------------|--|-------------------------------|---|--|---|
| 5. Revised | Form Technical Committee T/C | S/W Mgr. | Committee Provides technical assistance | Re staff committee to focus on storm water management | Focus committee's attention on preparing for the requirements of the new NPDES permit while implementing the remainder of the parts of the current NPDES permit.. On going. |
| 6. Revised | T/C Reviews general permit | T/C | Goals identified | On going NPDES permit review for compliance | |
| 7. Revised | T/C drafts By-Laws | T/C | Town Meeting adopts by-laws | Completed | Committee to begin to meet with Conservation Commission, ZBA, Planning Board, Building Inspector to seek input for changes needed for Town Meeting adopted by-laws relating to enforcement of storm water management BMPs. (Ongoing. |
| 8. Revised | Residents assist with by-law enforcement | S/W Mgr. | Residents report violations | Residents report violations to Board of Health and Conservation Commission Agents and/or Highway Supt. Supt. works with Town agents to investigate and take action to stop the violation | |
| Revised | | | | | |
| Revised | | | | | |

3. Illicit Discharge Detection and Elimination

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 9 |
|----------------|--|-------------------------------------|---------------------------|--|--|
| 9. Revised | Map outfalls and MS4 | Highway Supt. | Map of MS4 | Looked into integrating efforts into Water Department's mapping program | Continue to work with integrating into Water Department's mapping program. Seek funding in FY 12 budget for programming software to work with Water department files |
| 10. Revised | Train staff in outfall inspection | Highway Supt | Develop detection program | Detection instruction given to new hires. | Ongoing instruction and updates to all department employees |
| 11. Revised | Technical Committee drafts illicit discharge bylaw | Highway Supt | Town adopts bylaw | Completed | Completed |
| 12. Revised | Enforcement of bylaw | Highway Supt and Board of Selectmen | Discourage violations | Ongoing program every day. Complaints brought to ConCom, Board of Health, Building Inspector and Highway Department. | Continue |
| Revised | | | | | |
| Revised | | | | | |

4. Construction Site Stormwater Runoff Control

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 9 |
|----------------|---|-----------------------------------|--|--|---|
| 13. Revised | Joint selection of erosion BMPs to be required for construction | Tech. Comm. | Con-Com. Assist w/drafting Erosion & Sediment Control By-Law | Work with ConCom By-Laws and Rules and Regulations which address erosion and sediment control to learn procedures to follow. | Ongoing. |
| 14. Revised | Pl. Bd. Includes E&S BMPs in subdivision review | Technical Committee, Planning Bd. | BMPs required | Work with Planning Board and Conservation Commission to make sure BMPs are required | Look at updating BMP's as technology changes. |
| 15. Revised | ZBA includes E&S BMPs in site plan review | Tech.Comm., ZBA | BMPs required | Completed. | Completed. |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |

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 8 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 9 |
|----------------|---|--------------------------------------|--|---|---|
| 16. Revised | PIBd Meets with Tech. Comm to review goals of S/W plans | Pl. Bd., Tech Comm. | Identify changes in regs needed to comply | Reviewed all BMPs with Planning Board Chairman to incorporate into SPR process and on-going procedures to use during Site Plan Review process | Ongoing. |
| 17. Revised | Propose regulation changes as appropriate | Pl. Bd., Tech Comm, ZBA | Amend existing regulations | Completed . | Completed |
| 18. Revised | Require BMPs in review process | Pl. Bd., ZBA | Land use boards require S/W management plans | Completed | Completed. |
| 19. Revised | Require deed restrictions | Pl. Bd./ ZBA, Town Counsel, S/W Mgr. | Town can ensure long term maintenance | Evaluate progress with Town regulatory Boards. | Continue to evaluate and monitor progress of Boards on projects where deed restrictions may be appropriate. |
| Revised | | | | | |
| Revised | | | | | |
| Revised | | | | | |

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 8 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 9 |
|----------------|-----------------------------------|-------------------------------|---|---|---|
| 20. Revised | Clean Catch basins regularly | Highway Dept. | Prevent debris from entering MS4 | In progress. | Continue program and evaluate its efficiency. |
| 21. Revised | Sweep streets regularly | Highway Dept. | Prevent sand & debris from entering MS4 | In progress. | Continue program. |
| 22. Revised | Use E&S controls for road repairs | Highway Department | Prevent erosion into MS4 | Filed a Notice of Intent process with the Conservation Commission for all road repairs and received an Order of Conditions to proceed | Utilize the Order of Conditions issued by the Conservation Commission for all road repairs. |
| 23. Revised | Cover outside drains | Highway Dept. | Prevent leachate | Completed. | Develop modifications to covers to facilitate maintenance. |
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7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

| BMP ID # | BMP Description | Responsible Dept./Person Name | Measurable Goal(s) | Progress on Goal(s) – Permit Year 8 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 9 |
|----------------|--|-------------------------------|---|---|--|
| 24. Revised | Does MS4 discharge into impaired water body? | Highway Supt. | Show outfalls of MS4 into impaired water bodies | No progress. | Restart program by coordinating it with the mapping program in the Water Department. |
| 25. Revised | Identify whether pollutants are discharging into MS4 | Highway Supt. | Identify source of pollutants | Respond to reported instances of suspected pollutant discharge when they arise. | Continue program |
| 26. Revised | Ensure WLA met by S/W BMPs | Highway Supt. | Determine if add'l S/W BMPs needed | Work with peer engineering review with Planning Board and Zoning Board of Appeals for each new Site Plan Review. Not many this year due to economy. | Continue program |
| 27. Revised | Eliminate pollutant discharges coming through MS4 | Highway Supt. | Enforce illicit discharge by-law | Highway Supt works with Conservation Commission and Board of Health agents for investigation and enforcement. | Ongoing. |
| Revised | | | | | |
| Revised | | | | | |

7a. Additions

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7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

The Town has not performed any specific sampling or data collection related to the outfalls or receiving waters. No information is available.

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2010 through March 31, 2011)

Programmatic

| | (Preferred Units) | Response |
|--|-------------------|---------------------|
| Stormwater management position created/staffed | (y/n) | Yes – Highway Supt. |
| Annual program budget/expenditures could estimate a percent of annual DPW Budget | (\$) | Not estimated |
| Total program expenditures since beginning of permit coverage | (\$) | Not estimated |
| Funding mechanism(s) (General Fund, Enterprise, Utility, etc) | | General Fund |

Education, Involvement, and Training

| | | |
|--|---------------|------------------|
| Estimated number of property owners reached by education program(s) | (# or %) | 2,300 households |
| Stormwater management committee established | (y/n) | Yes |
| Stream teams established or supported | (# or y/n) | Yes |
| Shoreline clean-up participation or quantity of shoreline miles cleaned ** | (y/n, or mi.) | No |
| Shoreline cleaned since beginning of permit coverage | (mi.) | N/A |
| Household Hazardous Waste Collection Days | | |
| <ul style="list-style-type: none"> ▪ days sponsored ** | (#) | 1 |

| | | |
|---|----------------------------|--|
| <ul style="list-style-type: none"> ▪ community participation ** ▪ material collected ** | (# or %) (tons or gal.) | 2000 220 gals- Paints; 30 car batteries; 19 propane bots.; 60 tires; 121 TV's; 31 A/C units; 18 Refrigerators; 111 lbs alkaline batteries; 62 lbs NiCad batteries 55 gals anti- freeze. |
| School curricula implemented | (y/n) | No -ongoing planning |

Legal/Regulatory

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

(Preferred Units) Response

| | | |
|--|--------------------|--------|
| Outfall mapping complete | (%) | 85% |
| Estimated or actual number of outfalls | (#) | 24 |
| System-Wide mapping complete (complete storm sewer infrastructure) | (%) | 80% |
| Mapping method(s) | | |
| ▪ Paper/Mylar | (%) | 60-70% |
| ▪ CADD | (%) | 0 |
| ▪ GIS | (%) | 100% |
| Outfalls inspected/screened ** | (# or %) | 0 |
| Outfalls inspected/screened (Since beginning of permit coverage) | (# or %) | 100% |
| Illicit discharges identified ** | (#) | 0 |
| Illicit discharges identified (Since beginning of permit coverage) | (#) | 5 |
| Illicit connections removed ** | (#) and (est. gpd) | 0 |
| Illicit connections removed (Since beginning of permit coverage) | (#) and (est. gpd) | 5 |
| % of population on sewer | (%) | 4% |
| % of population on septic systems | (%) | 96% |

| | (Preferred Units) | Response |
|--|-------------------|----------|
| Construction | | |
| Number of construction starts (>1-acre) ** | (#) | 0 |
| Estimated percentage of construction starts adequately regulated for erosion and sediment control ** | (%) | 100% |
| Site inspections completed ** | (# or %) | 100% |
| Tickets/Stop work orders issued ** | (# or %) | 0 |
| Fines collected ** | (# and \$) | 0 |
| Complaints/concerns received from public ** | (#) | 0 |
| | | |
| | | |

Post-Development Stormwater Management

| | | |
|--|----------|---------|
| Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control | (%) | 100% |
| Site inspections (for proper BMP installation & operation) completed ** | (# or %) | 100% |
| BMP maintenance required through covenants, escrow, deed restrictions, etc. | (y/n) | Yes - 2 |
| Low-impact development (LID) practices permitted and encouraged | (y/n) | Yes |

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Operations and Maintenance

| | | |
|--|----------------|--------------------------------------|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets) ** | (times/yr) | 1 time/year |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets) ** | (times/yr) | 1 time/year |
| Qty of structures cleaned ** | (#) | 100 |
| Qty. of storm drain cleaned ** | (%, LF or mi.) | 100 feet |
| Qty. of screenings/debris removed from storm sewer infrastructure ** | (lbs. or tons) | 2.5 T/est. |
| Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) ** | (location) | All being hauled away by contractor. |

| | | |
|---|---------------------|--------------|
| Basin Cleaning Costs | | |
| • Annual budget/expenditure (labor & equipment)** | (\$) | \$4,000 |
| • Hourly or per basin contract rate ** | (\$/hr or \$/basin) | Per contract |
| • Disposal cost** | (\$) | Contract |
| Cleaning Equipment | | |
| • Clam shell truck(s) owned/leased | (#) | No |
| • Vacuum truck(s) owned/leased | (#) | No |
| • Vacuum trucks specified in contracts | (y/n) | No |
| • % Structures cleaned with clam shells ** | (%) | 100% |
| • % Structures cleaned with vactor ** | (%) | 0 % |

| | | |
|---|----------------|--------------|
| (Preferred Units) Response | | |
| Average frequency of street sweeping (non-commercial/non-arterial streets) ** | (times/yr) | 2-3 times/yr |
| Average frequency of street sweeping (commercial/arterial or other critical streets) ** | (times/yr) | 2-3 times/yr |
| Qty. of sand/debris collected by sweeping ** | (lbs. or tons) | 20 tons |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) ** | (location) | Landfill |
| Annual Sweeping Costs | | |

| | | |
|---|-------------------|---------|
| • Annual budget/expenditure (labor & equipment)** | (\$) | \$7,000 |
| • Hourly or lane mile contract rate ** | (\$/hr or ln mi.) | NA |
| • Disposal cost** | (\$) | \$3,500 |
| Sweeping Equipment | | |
| • Rotary brush street sweepers owned/leased | (#) | 1 owned |
| • Vacuum street sweepers owned/leased | (#) | No |
| • Vacuum street sweepers specified in contracts | (y/n) | NA |
| • % Roads swept with rotary brush sweepers ** | (%) | 100% |
| • % Roads swept with vacuum sweepers ** | (%) | 0% |

| | | |
|--|-------------|--|
| Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination) | | |
| ▪ Fertilizers | (lbs. or %) | 2% increase since beginning of permit. |
| ▪ Herbicides | (lbs. or %) | 100% elimination |
| ▪ Pesticides | (lbs or %) | Uses 10 18oz. cans of Hornet & Wasp Spray each year. |
| Integrated Pest Management (IPM) Practices Implemented – Program in place for Schools and Town | (y/n) | Yes |

(Preferred Units) Response

| | | |
|--|---------------------|---------------|
| Average Ratio of Anti-/De-Icing products used ** | | 90% |
| (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas) | | 10% |
| | % NaCl | |
| | % CaCl ₂ | |
| | % MgCl ₂ | |
| | % CMA | |
| | % Kac | |
| | % KCl | |
| | % Sand | |
| Pre-wetting techniques utilized ** | (y/n or %) | Yes |
| Manual control spreaders used ** | (y/n or %) | Yes |
| Zero-velocity spreaders used ** | (y/n or %) | No |
| Estimated net reduction or increase in typical year salt/chemical application rate | (lbs./ln mi. or %) | None |
| Estimated net reduction or increase in typical year sand application rate ** | (lbs./ln mi. or %) | None used |
| % of salt/chemical pile(s) covered in storage shed(s) | (%) | 100 % |
| Storage shed(s) in design or under construction | (y/n or #) | Already built |
| 100% of salt/chemical pile(s) covered in storage shed(s) by May 2008 | (y/n) | Yes |
| | | |
| | | |

Water Supply Protection

| | | |
|---|------------|------------|
| Storm water outfalls to public water supplies eliminated or relocated | (# or y/n) | None |
| Installed or planned treatment BMPs for public drinking water supplies and their protection areas | (# or y/n) | None |
| <ul style="list-style-type: none"> Treatment units induce infiltration within 500-feet of a wellhead protection area | (# or y/n) | None Known |