NPDES PII Small MS4 General Permit
Annual Report

Part I. General Information

Contact Person: Joseph A. Rodricks
Title: Town Engineer

Telephone #: 508-760-6145
Email: jrodricks@town.dennis.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: [Signature]

Printed Name: Robert F. Canevazzi
Title: Town Administrator

Date: April 29, 2005
Part II. Self-Assessment

The Town of Dennis has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions.
### Part III. Summary of Minimum Control Measures

#### 1. Public Education and Outreach

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
<th>Responsible Dept./Person Name</th>
<th>Measurable Goal(s)</th>
<th>Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)</th>
<th>Planned Activities – Permit Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Provide literature &amp; pamphlets</td>
<td>Natural Resource Officer - George MacDonald</td>
<td>Provide literature w/ off-road &amp; shellfish permits</td>
<td>Brochures in information tree in office and applicants directed to same.</td>
<td>Continue to expand and update brochure selection.</td>
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<tr>
<td>Revised</td>
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<tr>
<td>1.2</td>
<td>Provide Public awareness classes</td>
<td>Shellfish Officer - A. Marcy</td>
<td>Provide Information to school children</td>
<td>Constructed model of a estuary cross-section starting from a salt marsh and ending at the sub tidal zone exhibited at local fairs by Barnstable County Cooperative Extension.</td>
<td>Continue to educate general public on importance of keeping estuaries clean.</td>
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<tr>
<td>Revised</td>
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<tr>
<td>1.3</td>
<td>Provide Literature &amp; Information</td>
<td>Town Engineer - J. Rodrigicks</td>
<td>Provide Information booth at Chamber of Commerce Fair</td>
<td>Posters distributed by Cape Co Groundwater Guardian Project maintained at 4 public buildings. Participated as active member in &quot;PROJECT STORM&quot; (see attachment &quot;A&quot;)</td>
<td>New Department of Public Works web page still being worked on that will include stormwater information. Continue to work with other Cape communities in public outreach under the &quot;Project Storm&quot; initiative.</td>
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<td>Revised</td>
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#### 1a. Additions
## 2. Public Involvement and Participation

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
<th>Responsible Dept./Person Name</th>
<th>Measurable Goal(s)</th>
<th>Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)</th>
<th>Planned Activities – Permit Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revised</td>
<td></td>
<td>Terry Hayes, Health Director</td>
<td></td>
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<tr>
<td>2.2</td>
<td>Volunteer Coast Sweep</td>
<td>CZM/Natural Resource Officer- Brian Malone</td>
<td>Annual Beach Cleaning</td>
<td>Coastal Sweep program was canceled due to inclement weather.</td>
<td>Repeat &amp; expand Coastal Sweep in September 2005</td>
</tr>
<tr>
<td>Revised</td>
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<tr>
<td>2.3</td>
<td>Pet waste management</td>
<td>Animal Control Officer- Cheryl Malone</td>
<td>Provide disposal mitts and waste receptacles at Town Beaches</td>
<td>Researched most effective disposal mitts and waste receptacles products and obtained prices.</td>
<td>Place disposal mitt receptacles at Fresh Pond Dog Park and Chapin Beach as trial run and to monitor effectiveness. Install additional signs on Town Beaches relative to Dog Waste Disposal Bylaw and fine.</td>
</tr>
<tr>
<td>Revised</td>
<td></td>
<td></td>
<td>Create “Waste Disposal” By-law</td>
<td></td>
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</tr>
<tr>
<td>2.4</td>
<td>Proper Disposal of Boat Septic Storage Tanks</td>
<td>Harbor Master- Ed Tierney</td>
<td>Notify Boat Owners annually</td>
<td>Flyer listing pump out facilities mailed to slip and mooring owners with applications.</td>
<td>List of pump out facilities and their environmental benefit in the Dennis Harbor “Scuttlebutt” newsletter published in December.</td>
</tr>
<tr>
<td>Revised</td>
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<td>Revised</td>
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### 2a. Additions
### 3. Illicit Discharge Detection and Elimination

<table>
<thead>
<tr>
<th>BMP ID #</th>
<th>BMP Description</th>
<th>Responsible Dept./Person Name</th>
<th>Measurable Goal(s)</th>
<th>Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)</th>
<th>Planned Activities – Permit Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>Identify Discharge and Map Discharges</td>
<td>Town Engineer - Joseph Rodricks</td>
<td>Identify &amp; prioritize</td>
<td>Applied for and successfully obtained a CPR Pollution Grant to fund the elimination of flows from three outfall pipes into Bass River from Leif Erickson Drive, Old Fishhouse Road and Hawthorn Road.</td>
<td>Design, bid and oversee construction of stormwater mitigation measures for outfall pipes into Bass River from Leif Erickson Drive, Old Fishhouse Road and Hawthorn Road. Construct stormwater retention pond and drainage system to eliminate outfall pipe into Swan River Road from Upper County Road. Pursue additional funding for drainage remediation of the Rte 28 outfall pipe into Bass River.</td>
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<tr>
<td>Revised</td>
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<tr>
<td>3.2</td>
<td>Notify Owners of Violation eliminate using BMP</td>
<td>Town Engineer - Joseph Rodricks</td>
<td>Identify &amp; eliminate all known discharges.</td>
<td>Worked with the Comprehensive Wastewater Task Force Subcommittee on Stormwater Mitigation to develop by-law to control runoff.</td>
<td>Continue monitoring and data accrual and issue advisories as needed. Continue to work with the Comprehensive Wastewater Task Force Subcommittee on Stormwater Mitigation to develop by-law to control runoff.</td>
</tr>
<tr>
<td>Revised</td>
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<tr>
<td>3.3</td>
<td>Enforcement Agency</td>
<td>Police Chief M. Whalen</td>
<td>Enforcement of State Illegal Disposal Law</td>
<td>Assisted DPW with the investigation and mitigation of possible illegal discharge locations.</td>
<td>Add literature and information on illegal activities to Department website.</td>
</tr>
<tr>
<td>Revised</td>
<td></td>
<td>Acting Chief W. Monahan</td>
<td></td>
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<td>Revised</td>
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</table>
### 4. Construction Site Storm Water Runoff Control

<table>
<thead>
<tr>
<th>BMP ID #</th>
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<th>Planned Activities – Permit Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>Propose By-law</td>
<td>Dennis Selectmen-Donald Trepte, Chairman</td>
<td>Storm water &amp; erosion control Standards &amp; Enforcement</td>
<td>Dennis Comprehensive Wastewater Management Task Force Subcommittee continued work on the development of a proposed by-law for stormwater runoff control.</td>
<td>Develop draft of by-law for presentation to general public for comment.</td>
</tr>
<tr>
<td>Revised</td>
<td><strong>Storm water management By-Law</strong></td>
<td></td>
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<tr>
<td>4.2</td>
<td>Order of Conditions</td>
<td>Conservation Commission-Donald Waldo Chairman</td>
<td>Eliminate Runoff &amp; erosion during construction.</td>
<td>Issued Orders of Conditions for construction projects with no discharge allowed.</td>
<td>Continue to require the elimination of any storm water runoff.</td>
</tr>
<tr>
<td>Revised</td>
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<tr>
<td>Revised</td>
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### 4a. Additions
| 4.3 | Estuary study | Dennis Comprehensive Wastewater Management Task Force. | Evaluate Swan River, Swan Pond, Sesuit Creek and Chase Garden Creek and establish Total Maximum Daily Limit for nitrogen loading | Conducted water sampling using Water Quality Committee volunteers under the direction of the Board of Health Agent as part of the DEP/SMAST study to establish the Total Maximum Daily Limit for Nitrogen Loading for estuaries. Completed Plan of Study and Needs Assessment for Wastewater and nitrogen | Continue sampling of estuaries and development of a TMDL for Nitrogen to be used to for implementing mitigation measures. |
### 5. Post-Construction Storm Water Management in New Development and Redevelopment

<table>
<thead>
<tr>
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<th>Planned Activities – Permit Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1</td>
<td>Propose By-Law</td>
<td>Board of Selectmen-Donald Trepte, Chairman</td>
<td>Storm water &amp; Erosion Control Standards &amp; enforcement</td>
<td>CWMTF subcommittee established to draft stormwater runoff by-law collect data and information by reviewing by-laws developed by other communities and met with local regulatory officials to draft by-law for stormwater runoff control.</td>
<td>Finalize draft of by-law for presentation to general public for comment.</td>
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#### 5a. Additions

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</table>
### 6. Pollution Prevention and Good Housekeeping in Municipal Operations

<table>
<thead>
<tr>
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<th>Planned Activities – Permit Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1</td>
<td>Street sweeping/basin cleaning/roadside mowing</td>
<td>DDPW Superintendent D. Johansen</td>
<td>Maintenance of Drainage</td>
<td>Increased budget for catchbasin cleaning.</td>
<td>Continue to evaluate and prioritize basins to be cleaned targeting areas of greatest potential impact of estuaries. Increase number of basins cleaned. Develop and adopt a Storwater BMP for the Bass Rover/Kelly’s Bay/Follins Pond area</td>
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<tr>
<td>Revised</td>
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<tr>
<td>6.2</td>
<td>Existing enclosed salt storage.</td>
<td>DPW Superintendent D. Johansen</td>
<td>Exposure reduction</td>
<td>No action taken.</td>
<td>Continue to acquire pertinent facts and information to develop sand &amp; salt spreading policy.</td>
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<tr>
<td>Revised</td>
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<tr>
<td>6.3</td>
<td>Regular vehicle maintenance</td>
<td>DPW Superintendent D. Johansen</td>
<td>Exposure reduction</td>
<td>No action taken.</td>
<td>Continue to refine a computerized maintenance program and develop maintenance policy.</td>
</tr>
<tr>
<td>Revised</td>
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<td>Revised</td>
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<tr>
<td>6.5</td>
<td>Invite NEIWPCC to speak Employees education</td>
<td>DPW Superintendent D. Johansen</td>
<td>Provide information to employees</td>
<td>No action taken</td>
<td>Continue to enroll employees into seminars and demonstrations promoted by Bay State Roads and other organizations as they are scheduled.</td>
</tr>
<tr>
<td>Revised</td>
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### 6a. Additions
<table>
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<th>Planned Activities – Permit Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1</td>
<td>Installation of leaching drainage systems</td>
<td>DDPW Superintendent D. Johansen</td>
<td>Exposure reduction</td>
<td>Obtained Wetland permit for replacement drainage system on Upper County Road at Swan River Road that will remove outfall pipe. Coordinated with MassHighway on the installation of BMPs on section of Rte 6A adjacent to Sesuit Creek.</td>
<td>Complete installation of new retention pond to replace outfall pipe on Upper County Road at Swan River Road Design and construct stormwater drainage systems on Mayfair Road to intercept runoff prior to it reaching unnamed creek entering Bass River. Installed subsurface leaching system to reduce direct outfall into Quivet Creek from Sea Street, East Dennis.</td>
</tr>
<tr>
<td>7.2</td>
<td>Water quality sampling</td>
<td>DMF/Natural Resources- Alan Marcy</td>
<td>Ensure water quality</td>
<td>Samples taken in Swan Pond, Swan Pond River, Sesuit Creek and Chase Garden Creek as part of estuaries study.</td>
<td>Continue and refine sampling program.</td>
</tr>
<tr>
<td>7.3</td>
<td>Use compost material to stabilize shoulders</td>
<td>DPW Superintendent D. Johansen</td>
<td>Erosion control</td>
<td>No action taken in pertinent areas.</td>
<td>Continue and improve slope stabilization where necessary.</td>
</tr>
<tr>
<td>7.4</td>
<td>Coastal Pollutant Remediation Program</td>
<td>Town Engineer J. Rodricks</td>
<td>Exposure Reduction and/or elimination</td>
<td>Town applied for and was awarded a Non Point Source Pollution mitigation grant for the remediation of three outfall drainage systems into Bass River.</td>
<td>Design, bid and construct three stormwater mitigation systems along Bass River.</td>
</tr>
<tr>
<td>7.5</td>
<td>Weekly Water Sampling of Beaches</td>
<td>Town Health Director Terry Hayes</td>
<td>Ensure water quality</td>
<td>Samples taken and tested weekly, first week of June through the Labor Day Weekend. Additional tests taken on days of 1&quot; or greater rainfall. During summer of 2005 four beaches were closed a total of 5 days.</td>
<td>Repeat testing program.</td>
</tr>
</tbody>
</table>

Water sampling on beaches during summer weeks.
### 7a. Additions

<table>
<thead>
<tr>
<th>7.6</th>
<th>Salt Marsh Restoration program</th>
<th>Natural Resource Dept. George Macdonald, Dept. Head.</th>
<th>Increased tidal flushing.</th>
<th>Quivet Creek under Sea Street, East Dennis: Design, permitting and installation of an 8’ x 8’ box culvert to replace two 30” failed pipes.</th>
<th>Sesuit Creek under Bridge Street. Design, permitting &amp; construction of twin 12’ x 10’ box culverts to replace a failing 24” pipe.</th>
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</table>

### 7b. WLA Assessment

For several years the Town has identified the Bass River and Kelley’s Bay area as the highest priority for immediate implementation of BMPs. In conjunction with the Town of Yarmouth the Town of Dennis was granted funding for construction of several remedial drainage systems that are the highest prioritized locations. Additionally, the Department of Public Works has continued its program of identifying and mitigating potential upgradient pollution sources. Furthermore the Town is also in the process of applying of additional CPR funding to design and construct mitigation measures for the existing Route 29 (State Highway) outfall pipe into Bass River. The Town recently purchased a parcel of land adjacent to the river and Route 28 for the sum of $3.1 million dollars. This property will provide sufficient area to allow for the construction of mitigating measures.
Part IV. Summary of Information Collected and Analyzed

Water quality testing of Town beaches during the months of June, July and August 2005, resulted in 5 days of beach closures.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

| Storm water management position created/staffed | (y/n) | No |
| Annual program budget/expenditures | ($) | $110,000 |

Education, Involvement, and Training

| Estimated number of residents reached by education program(s) | (# or %) | 10 % |
| Storm water management committee established | (y/n) | Yes |
| Stream teams established or supported | (# or y/n) | No |
| Shoreline clean-up participation or quantity of shoreline miles cleaned | (y/n or mi.) | no |
| Household Hazardous Waste Collection Days |
| - days sponsored | (#) | 2 |
| - community participation | (%) | 444 persons |
| - material collected | (tons or gal) | 4535 gal |
| School curricula implemented | (y/n) | No |
### Legal/Regulatory

<table>
<thead>
<tr>
<th>Regulatory Mechanism Status (indicate with “X”)</th>
<th>In Place Prior to Phase II</th>
<th>Under Review</th>
<th>Drafted</th>
<th>Adopted</th>
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<tbody>
<tr>
<td>Illicit Discharge Detection &amp; Elimination</td>
<td></td>
<td>X</td>
<td></td>
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<tr>
<td>Erosion &amp; Sediment Control</td>
<td></td>
<td>X</td>
<td></td>
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<tr>
<td>Post-Development Stormwater Management</td>
<td></td>
<td>X</td>
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**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 (%)                  | 95 %                       |
| Estimated or actual number of outfalls (#)    | 56                         |
| System-Wide mapping complete (%)              | 20 %                       |

**Mapping method(s)**

| Paper/Mylar (%)                               | 80 %                       |
| CADD (%)                                      | 15 %                       |
| GIS (%)                                       | 50 %                       |

| Outfalls inspected/screened (# or %)          | 5                          |
| Illicit discharges identified (#)              | 0                          |
| Illicit connections removed (# or est. gpd)   | 0                          |
| % of population on sewer (%)                  | 0                          |
| % of population on septic systems (%)         | 100 %                      |
### Construction

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<tbody>
<tr>
<td>Number of construction starts (&gt;1-acre)</td>
<td>5</td>
</tr>
<tr>
<td>Estimated percentage of construction starts adequately regulated for erosion and sediment control</td>
<td>100</td>
</tr>
<tr>
<td>Site inspections completed</td>
<td>4</td>
</tr>
<tr>
<td>Tickets/Stop work orders issued</td>
<td>1</td>
</tr>
<tr>
<td>Fines collected</td>
<td>0</td>
</tr>
<tr>
<td>Complaints/concerns received from public</td>
<td>1</td>
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### Post-Development Storm Water Management

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<tr>
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<th>(%)</th>
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<tbody>
<tr>
<td>Estimated percentage of development/redevelopment projects adequately regulated for post-construction storm water control</td>
<td>0 %</td>
</tr>
<tr>
<td>Site inspections completed</td>
<td>(# or %) 10</td>
</tr>
<tr>
<td>Estimated volume of storm water recharged</td>
<td>(gpy) 100</td>
</tr>
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### Operations and Maintenance

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<thead>
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<tbody>
<tr>
<td>Average frequency of catch basin cleaning (non-commercial/non-arterial streets)</td>
<td>(times/yr) 1 every 3 yrs</td>
</tr>
<tr>
<td>Average frequency of catch basin cleaning (commercial/arterial or other critical streets)</td>
<td>(times/yr) 1 every yr</td>
</tr>
<tr>
<td>Total number of structures cleaned</td>
<td>(#) 890</td>
</tr>
<tr>
<td>Storm drain cleaned</td>
<td>(LF or mi.) 0 LF</td>
</tr>
<tr>
<td>Qty. of screenings/debris removed from storm sewer infrastructure</td>
<td>(lbs. or tons) 4450 tons</td>
</tr>
<tr>
<td>Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)</td>
<td>Landfill</td>
</tr>
<tr>
<td>Cost of screenings disposal</td>
<td>($) 0</td>
</tr>
<tr>
<td>Description</td>
<td>Unit</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>Average frequency of street sweeping (non-commercial/non-arterial streets)</td>
<td>times/yr</td>
</tr>
<tr>
<td>Average frequency of street sweeping (commercial/arterial or other critical streets)</td>
<td>times/yr</td>
</tr>
<tr>
<td>Qty. of sand/debris collected by sweeping</td>
<td>lbs. or tons</td>
</tr>
<tr>
<td>Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)</td>
<td>location</td>
</tr>
<tr>
<td>Cost of sweepings disposal</td>
<td>($)</td>
</tr>
<tr>
<td>Vacuum street sweepers purchased/leased</td>
<td>(#)</td>
</tr>
<tr>
<td>Vacuum street sweepers specified in contracts</td>
<td>(y/n)</td>
</tr>
</tbody>
</table>

**Reduction in application on public land of:** ("N/A" = never used; "100%" = elimination)

- **Fertilizers**
  - (lbs. or %) 5%
- **Herbicides**
  - (lbs. or %) 5%
- **Pesticides**
  - (lbs. or %) 5%

**Anti-/De-Icing products and ratios**

- % NaCl 50%
- % CaCl₂ 32%
- % MgCl₂ 0%
- % CMA 0%
- % Kac 0%
- % KCl 0%
- % Sand 50%

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Pre-wetting techniques utilized</td>
<td>(y/n)</td>
<td>y</td>
</tr>
<tr>
<td>Manual control spreaders used</td>
<td>(y/n)</td>
<td>y</td>
</tr>
<tr>
<td>Automatic or Zero-velocity spreaders used</td>
<td>(y/n)</td>
<td>y</td>
</tr>
<tr>
<td>Estimated net reduction in typical year salt application</td>
<td>(lbs. or %)</td>
<td>0%</td>
</tr>
<tr>
<td>Salt pile(s) covered in storage shed(s)</td>
<td>(y/n)</td>
<td>y</td>
</tr>
<tr>
<td>Storage shed(s) in design or under construction</td>
<td>(y/n)</td>
<td>n</td>
</tr>
</tbody>
</table>
May 4, 2006

U.S. Environmental Protection Agency
Water Technical Unit
P.O. Box 8127
Boston, MA 02114

Massachusetts Dept of Environmental Protection
Division of Watershed management
627 Main Street
Worcester, MA 01608

To Whom It May Concern:

Enclosed please find a copy of the Town of Dennis Annual Report for the NPDES Phase II Small MS4 General Permit for the period of March 2005 to March 2006 signed by the appropriate signatory. Should you have any question please call me at 508-760-6166.

Sincerely,

Joseph A. Rodrigues, P.E.
Dennis Town Engineer