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**Municipality/Organization:** City of Revere

**EPA NPDES Permit Number:** MA 041057

**MaDEP Transmittal Number:** W-035316

**Annual Report Number  
& Reporting Period:** No. 2: March 04 – May 05

## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

**Contact Person:** Frank Stringi

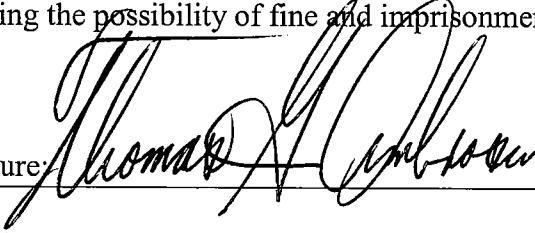
**Title:** City Planner

**Telephone #:** 781-286-8183

**Email:** fstringi@revere.org

#### 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:** Thomas G. Ambrosino

**Title:** Mayor

**Date:** 9/15/05

## **Part II. Self-Assessment**

**The City of Revere has completed the required self assessment and has determined that the City is in compliance with all permit conditions, except for the following provisions:**

**Part II. B.1    Brochures and fact sheets have not been distributed to residents and businesses. Only dog waste brochures have been mailed to pet owners**

**Part II. B.2    Web site must be updated to include information on stormwater quality efforts that can be undertaken by residents.**

**Part II. B.3    Storm drain stenciling program must be initiated with help from volunteers.**

### 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 2 (Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 3                          |
|-----------------|--------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| PE-1<br>Revised | Partnership program                  | Planning                                        | Education and outreach program developed by summer 04                                                                | Established partnership with school dept and Saugus River Watershed Council                | Continue partnership for developing new outreach programs   |
| PE-2<br>Revised | Web site creation                    | MIS                                             | Create web site by 04<br>Create web site in 06                                                                       | Meeting with MIS Director to initiate web site                                             | Have web site on line                                       |
| PE-3<br>Revised | Household brochures and fact sheets  | DPW                                             | Develop and distributed to residents by summer 04<br>Develop and distribute to residents in 06 water and sewer bills | Review sample brochures for development                                                    | Finalize brochures and fact sheets                          |
| PE-4<br>Revised | Commercial brochures and fact sheets | DPW                                             | Distributed by summer 04<br>Develop and distribute to businesses in 06 water and sewer bills                         | Review sample brochures for development                                                    | Finalize brochures and fact sheets                          |
| PE-5<br>Revised | Classroom education on stormwater    | Saugus River Watershed Council and School Dept. | 50% of K-12 by end of 06 school year<br>50% of K-12 by end of 07 school year                                         | Program initiated with school dept. and saugus river watershed council                     | Continue education effort and field trips with school dept. |
| Revised         |                                      |                                                 |                                                                                                                      |                                                                                            |                                                             |

## 2. Public Involvement and Participation

| BMP ID #        | BMP Description          | Responsible Dept./Person Name           | Measurable Goal(s)                                                             | Progress on Goal(s) – Permit Year 2<br>(Reliance on non-municipal partners indicated, if any)                     | Planned Activities – Permit Year 3                                                        |
|-----------------|--------------------------|-----------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| PP-1<br>Revised | Watershed organizations  | ConComm                                 | Organize watershed committee with one year                                     | Watershed committees organized for Mystic River watershed, Saugus River, and Belle Isle Marsh                     | Continue watershed action committees for Mystic River, Saugus River, and Belle Isle Marsh |
| PP-2<br>Revised | Stakeholder meetings     | ConComm                                 | Hold at least two stakeholder meetings                                         | Stakeholder meetings held with separate watershed committees for Mystic River, Saugus River, and Belle Isle marsh | Continue stakeholder meetings                                                             |
| PP-3<br>Revised | Stream cleaning campaign | DPW/Saugus River watershed council      | Hold at least two stream clean up campaigns every year                         | Clean up campaigns held for Town Line Brook and Eastern County Ditch                                              | Continue clean up campaign efforts (at least two)                                         |
| PP-4<br>Revised | Volunteer monitoring     | Saugus River and Mystic River Watershed | Complete water quality monitoring in 05                                        | Water quality monitoring efforts undertaken for Town Line Brook, Sales Creek and Belle Isle Marsh                 | Continue water quality monitoring efforts                                                 |
| PP-5<br>Revised | Storm drain stenciling   | ConComm                                 | Complete storm drain stenciling by 06<br>Complete storm drain stenciling by 07 | No progress made due to lack of staff                                                                             | Attempt to set up volunteers                                                              |
| Revised         |                          |                                         |                                                                                |                                                                                                                   |                                                                                           |

### 2a. Additions

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
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### 3. Illicit Discharge Detection and Elimination

| BMP ID #           | BMP Description                    | Responsible Dept./Person Name | Measurable Goal(s)                                                       | Progress on Goal(s) – Permit Year 21<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 3                                                             |
|--------------------|------------------------------------|-------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| IDDE -1<br>Revised | Storm drain map                    | Engineering                   | Update storm drain map by 06                                             | Storm drain map complete                                                                       | Continue updates                                                                               |
| IDDE -2<br>Revised | Non stormwater discharge ordinance | Planning                      | Adopt non stormwater discharge ordinance by 06                           | Non stormwater discharge ordinance adopted in 05                                               |                                                                                                |
| IDDE -3<br>Revised | Industrial/Business connections    | Plumbing Inspector            | Establish industrial/business connection monitoring program by summer 04 | Cross connection inspection program initiated through Building Dept.                           | Continue cross connection inspection program through the Building Dept. and Plumbing Inspector |
| IDDE -4<br>Revised | Illicit discharge and elimination  | DPW                           | Establish illicit discharge and elimination program by summer 04         | Illicit discharge and elimination program undertaken by DPW sewer and drain crews.             | Continue illicit discharge and elimination program                                             |
| IDDE -5<br>Revised | Illegal dumping task force         | ConComm                       | Form an illegal dumping task force by spring 04                          | ConComm holding monthly inspection meetings on Saturday mornings                               | Continue monthly schedule                                                                      |
|                    |                                    |                               |                                                                          |                                                                                                |                                                                                                |
|                    |                                    |                               |                                                                          |                                                                                                |                                                                                                |

### 3a. Additions

#### 4. Construction Site Stormwater Runoff Control

| BMP ID #           | BMP Description                      | Responsible Dept./Person Name | Measurable Goal(s)                                                  | Progress on Goal(s) – Permit Year 2<br>(Reliance on non-municipal partners indicated, if any)                                     | Planned Activities – Permit Year 3                                                                                     |
|--------------------|--------------------------------------|-------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| CSRC -1<br>Revised | Site Plan Review                     | Planning                      | Establish site plan review standards by 04                          | Site plan review in place. Meetings held every Tuesday                                                                            | Continue site plan review meetings every Tuesday                                                                       |
| CSRC -2<br>Revised | Sediment control ordinance           | Planning                      | Develop erosion control ordinance by 06                             | Erosion control ordinance adopted in 05                                                                                           |                                                                                                                        |
| CSRC -3<br>Revised | Stormwater pollution prevention plan | DPW                           | Require stormwater pollution prevention plan for all projects by 04 | DPW meets every Tuesday with site plan review to discuss stormwater pollution prevention measures with developers and contractors | Continue DPW participation in site plan review committee meetings                                                      |
| CSRC -4<br>Revised | Inspection program guidelines        | Building Dept.                | Set up guidelines for inspection by 04                              | Building Inspector, City Engineer and City Planner coordinate inspection of development sites on a weekly basis                   | Continue weekly inspection of development sites to ensure sediment control measures are in place                       |
| CSRC -5<br>Revised | BMP measures for sediment/erosion    | DPW                           | Establish BMP measures for construction sites by 04                 | Site plan review conditions are being placed on new construction projects for BMP's                                               | Continue site plan review efforts to condition BMP measures for new developments. Place conditions on building permits |
| Revised            |                                      |                               |                                                                     |                                                                                                                                   |                                                                                                                        |

#### 4a. Additions

## 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 2<br>(Reliance on non-municipal partners indicated, if any)                      | Planned Activities – Permit Year 3                                                                                                |
|--------------------|-------------------------------------|-------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| PCRC -1<br>Revised | Construction runoff ordinance       | Planning                      | Adopt a post construction runoff ordinance by 06                     | Post construction ordinance adopted in 05                                                                          |                                                                                                                                   |
| PCRC -2<br>Revised | Site Plan Review                    | Planning                      | Adopt site plan review standards for post construction by 06         | Site Plan Review standards in place                                                                                |                                                                                                                                   |
| PCRC -3<br>Revised | Operation and maintenance agreement | DPW                           | Develop an operation and maintenance model agreement by 05           | Site plan review conditions now require operation and maintenance agreements for BMP's developed for private sites |                                                                                                                                   |
| PCRC -4<br>Revised | Inspection program guidelines       | Health Dept.                  | Set up inspection program for post construction runoff control by 05 | Meetings held with Health Dept. to discuss inspection program and staffing                                         | Health Inspector to coordinate staff duties and program plan                                                                      |
| PCRC -5<br>Revised | BMP measures                        | DPW                           | Establish BMP measures for post construction by spring 04            | BMP measures for post construction have been included within site plan review conditions                           | Continue to require BMP measures for post construction within the framework of the site plan review process for development sites |
|                    |                                     |                               |                                                                      |                                                                                                                    |                                                                                                                                   |

### 5a. Additions

## 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 2<br>(Reliance on non-municipal partners indicated, if any) | Planned Activities – Permit Year 3                            |
|-------------------|-----------------------------------------|-------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| MGH -1<br>Revised | Pet waste collection                    | Health Dept.                  | Distribute pet waste brochures to pet owners by spring 04        | Pet waste brochures developed and mailed to registered pet owners                             |                                                               |
| MGH -2<br>Revised | Parking lot and street cleaning program | DPW                           | Implement a parking lot and street cleaning program by spring 04 | Street cleaning program implemented in 03 from April to November                              | Continue street cleaning program from April to November       |
| MGH -3<br>Revised | Catch basin cleaning                    | DPW                           | Implement catch basin cleaning program by spring 04              | Catch basin cleaning program implemented in 03                                                | Continue catch basin cleaning program                         |
| MGH -4<br>Revised | Road salt storage                       | DPW                           | Institute measures for road salt storage by 04                   | Road salt storage shed installed at DPW facility on Charger Street                            | Maintain road salt storage shed at DPW facility               |
| MGH -5<br>Revised | Spill response and prevention           | Fire Dept.                    | Implement a spill response and prevention plan by 05             | Spill response and prevention plan has been instituted by the Fire Dept.                      | Continue implementation of spill response and prevention plan |
| Revised           |                                         |                               |                                                                  |                                                                                               |                                                               |

### 6a. Additions

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**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 2 (Reliance on non-municipal partners indicated, if any)                                 | Planned Activities – Permit Year 3 |
|-----------------|---------------------------------|-------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| TMD L-1 Revised | Parking lot and street sweeping | DPW                           | Program set up by 04                                        | Program implemented in 03                                                                                                  | Continue program                   |
| TMD L-2 Revised | Catch basin cleaning            | DPW                           | Program set up by 04                                        | Program implemented in 03                                                                                                  | Continue program                   |
| TMD L-3 Revised | Install deep sumps              | DPW                           | Requirement set up for newly constructed catch basins in 04 | Program implemented in 03. All new catch basins both public and private require deep sumps                                 | Continue program                   |
| TMD L-4 Revised | Install gas and oil separators  | DPW                           | Requirement set up for newly constructed catch basins by 04 | Program implemented in 03. All new catch basins within private parking lots require installation of gas and oil separators | Continue program requirement       |
| TMD L-5 Revised | Detention areas                 | DPW                           | Requirement established for large development sites by 05   | Requirement implemented in 03 as part of site plan review for all large development sites                                  | Continue program requirement       |
|                 |                                 |                               |                                                             |                                                                                                                            |                                    |

**7a. Additions**

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**Part IV. Summary of Information Collected and Analyzed**

**Part V. Program Outputs & Accomplishments (OPTIONAL)**

**Programmatic**

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

**Education, Involvement, and Training**

|                                                                         |               |              |
|-------------------------------------------------------------------------|---------------|--------------|
| Estimated number of residents reached by education program(s)           | (# or %)      | 5,000        |
| 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.)  | Yes          |
| Household Hazardous Waste Collection Days                               |               |              |
| ▪ days sponsored                                                        | (#)           | 300          |
| ▪ community participation                                               | (%)           | Unavailable  |
| ▪ material collected                                                    | (tons or gal) | See attached |
| School curricula implemented                                            | (y/n)         | Yes          |
|                                                                         |               |              |
|                                                                         |               |              |

## Legal/Regulatory

| Regulatory Mechanism Status (indicate with "X")    | In Place<br>Prior to<br>Phase II | Under<br>Review | Drafted | Adopted |
|----------------------------------------------------|----------------------------------|-----------------|---------|---------|
|                                                    |                                  |                 |         |         |
| ▪ 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 | (#)               | 40  |
| System-Wide mapping complete           | (%)               | 100 |
| Mapping method(s)                      |                   |     |
| ▪ Paper/Mylar                          | (%)               | 100 |
| ▪ CADD                                 | (%)               | 0   |
| ▪ GIS                                  | (%)               | 0   |
| Outfalls inspected/screened            | (# or %)          | 6   |
| Illicit discharges identified          | (#)               | 0   |
| Illicit connections removed            | (#)<br>(est. gpd) | 0   |
| % of population on sewer               | (%)               | 99  |
| % of population on septic systems      | (%)               | 1   |
|                                        |                   |     |
|                                        |                   |     |

## Construction

|                                                                                                   |            |     |
|---------------------------------------------------------------------------------------------------|------------|-----|
| Number of construction starts (>1-acre)                                                           | (#)        | 2   |
| 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 | (%)      | 0           |
| Site inspections completed                                                                                               | (# or %) | 0           |
| Estimated volume of stormwater recharged                                                                                 | (gpy)    | Unavailable |
|                                                                                                                          |          |             |
|                                                                                                                          |          |             |

## Operations and Maintenance

|                                                                                                |                |            |
|------------------------------------------------------------------------------------------------|----------------|------------|
| Average frequency of catch basin cleaning (non-commercial/non-arterial streets)                | (times/yr)     | 1          |
| Average frequency of catch basin cleaning (commercial/arterial or other critical streets)      | (times/yr)     | 1          |
| Total number of structures cleaned                                                             | (#)            | 1,300      |
| Storm drain cleaned                                                                            | (LF or mi.)    | 40-50 mi   |
| Qty. of screenings/debris removed from storm sewer infrastructure                              | (lbs. or tons) | 50-60 tons |
| Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.) |                | RESCO      |
| Cost of screenings disposal                                                                    | (\$)           | \$4,184    |
|                                                                                                |                |            |
|                                                                                                |                |            |

|                                                                            |            |   |
|----------------------------------------------------------------------------|------------|---|
| Average frequency of street sweeping (non-commercial/non-arterial streets) | (times/yr) | 9 |
|----------------------------------------------------------------------------|------------|---|

|                                                                                      |                |         |
|--------------------------------------------------------------------------------------|----------------|---------|
| Average frequency of street sweeping (commercial/arterial or other critical streets) | (times/yr)     | 180     |
| Qty. of sand/debris collected by sweeping                                            | (lbs. or tons) | 400     |
| Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)                | (location)     | Jaylo   |
| Cost of sweepings disposal                                                           | (\$)           | \$7,400 |
| Vacuum street sweepers purchased/leased                                              | (#)            | 2       |
| Vacuum street sweepers specified in contracts                                        | (y/n)          | Yes     |
|                                                                                      |                |         |
|                                                                                      |                |         |

|                                                                                        |             |   |
|----------------------------------------------------------------------------------------|-------------|---|
| Reduction in application on public land of: ("N/A" = never used; "100%" = elimination) |             |   |
| ▪ Fertilizers                                                                          | (lbs. or %) | 0 |
| ▪ Herbicides                                                                           | (lbs. or %) | 0 |
| ▪ Pesticides                                                                           | (lbs. or %) | 0 |
|                                                                                        |             |   |
|                                                                                        |             |   |

|                                                          |                                                                                           |     |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------|-----|
| Anti-/De-Icing products and ratios                       | % NaCl<br>% CaCl <sub>2</sub><br>% MgCl <sub>2</sub><br>% CMA<br>% Kac<br>% KCl<br>% Sand | 75% |
| Pre-wetting techniques utilized                          | (y/n)                                                                                     | No  |
| Manual control spreaders used                            | (y/n)                                                                                     | No  |
| Automatic or Zero-velocity spreaders used                | (y/n)                                                                                     | Yes |
| Estimated net reduction in typical year salt application | (lbs. or %)                                                                               | 25% |
| Salt pile(s) covered in storage shed(s)                  | (y/n)                                                                                     | Yes |
| Storage shed(s) in design or under construction          | (y/n)                                                                                     | No  |
|                                                          |                                                                                           |     |
|                                                          |                                                                                           |     |

RESIDENTIAL HAZARDOUS HOUSEHOLD PRODUCTS COLLECTION  
REVERE DPW  
2005

|                |               |
|----------------|---------------|
| Auto batteries | 43 units      |
| Tires          | 1,800 units   |
| CRT's          | 67,000 lbs    |
| Propane tanks  | 750 units     |
| Paint          | 6 cubic yards |