

Municipality/Organization: Wrentham Developmental Center

EPA NPDES Permit Number: MAR042030

MassDEP Transmittal Number: W035610

Annual Report Number **Year 11**
& Reporting Period: **April 1, 2013 – March 31, 2014**

**NPDES PII Small MS4 General Permit
Annual Report
(Due: May 1, 2014)**

Part I. General Information

Contact Person: Michael Gardner

Title: Director of Operations

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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: _____

Michael Gardner

Printed Name: Michael Gardner

Title: Director of Operations

Date: 16 April 2014

Part II. Self-Assessment

The Wrentham Developmental Center has completed the required self-assessment and has determined that our facility is in compliance with all general permit conditions, effective May 1, 2003, extended May 1, 2008 to present.

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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1-01 Revised	Fact sheet in newsletter	Brett Butz/ Compliance	Awareness and Feedback	Changed the formatting of the letter and have increased our email and electronic presence to promote the letter to all employees and persons in the buildings.	Maintain our annual distribution of the Storm Water Fact Sheet in the facility newsletter, <i>Crossroads</i> .
1-02 Revised	Notice posted in the food and cleaning services building	Brett Butz/ Compliance	Awareness of proper disposal practices	Increased poster visibility, updated the poster, and performed spot checks around the area to help with compliance.	Maintain conspicuous visibility of the posters and continue spot checking.
1-03 Revised	Present a stormwater fact sheet to each new employee at orientation	Mike Gardner/ Operations	Increase awareness and improve work habits	Fact sheet distributed to each employee during orientation.	Change the format and presentation of our stormwater practices to the new employees
1-04 Revised	Establish a stormwater education center in the compliance office	Brett Butz/ Compliance	Increase awareness and available resources for staff with questions	Redeveloped the current center and moved it into the compliance office. Also listed the location on the newsletter in <i>Crossroads</i> .	Moved the information to a new building and included the six best management practices in this year's display.
Revised					
Revised					

Revised						
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1a. Additions

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
2-01 Revised	Recruit designated person per shift; food and cleaning services	Mike Gardner/ Operations	Oversight with increased awareness	Annual Stormwater and Spill Prevention Meeting with all department heads, supervisory administrative personnel, food services manager, and cleaning services manager. (Sign-in required).	Continue to administer Annual Storm Water and Spill Prevention Meeting.
2-02 Revised	Request volunteers per Unit per shift by supervisory personnel	Mike Gardner/ Operations	Oversight with increased awareness	Request volunteers from each Unit for each shift by supervisory personnel at the Annual Stormwater and Spill Prevention Meeting.	Continue to request volunteers and request continued oversight by supervisors.
2-03 Revised	Security Training and Awareness	Mike Gardner/ Operations	Reporting incidents	The Security Supervisor's attendance at the Annual Stormwater and Spill Prevention Meeting for information gathering. Establish procedures for the reporting and response to incidents.	Review the reporting and response plan and revise the policy as needed.
2-04 Revised	Training for Transport, Grounds, Paint, and all Maintenance Depts.	Mike Gardner/ Operations	Awareness and Improved Working Habits	Spot meetings to promote proper work habits.	Continue the meetings and general oversight.
Revised					

Revised						
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2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
3-01 Revised	Regularly inspect outfalls for dry weather discharge	Mike Gardner/ Operations	Early detection and correction	Continued monitoring of outfalls. No dryweather discharge detected.	Continued monitoring of outfalls.
3-02 Revised	Update map of discharge areas	Mike Gardner/ Operations	Create a easily accessed and mapped area for reference	Map has been created and given to appropriate persons at Operations as well as posting it at the Compliance office.	Improve mapping if needed and establish a tracking and analysis method for discovered floors.
3-03 Revised	Use test kits for pH, nitrate, phosphate, copper, and ammonia as nitrogen during severe wet weather	Mike Gardner/ Operations	Early detection and correction	Annual testing (of three outfalls) conducting during rainfall event on 04/08/2014. Tests indicated a normal outfall conditions.	Continue sampling after heavy stormwater sporadically throughout the year.
3-04	Spill Response Plan	Mike Gardner/ Operations	Spill control kits on grounds; E.Q. Northeast for clean-up and emergency response.	Addressed at the Annual Stormwater and Spill Prevention Meeting. Spill control kits are maintained in the Plumbing, Security, and Compliance vehicles.	Continued the Annual Stormwater and Spill Prevention Meeting and follow up to check quality of the control kits are adequate.

Revised							
Revised							
Revised							

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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
4-01 Revised	Insert standard construction controls and penalties into contract documents	Mike Gardner/ Operations	Erosion, sediment, and waste control.	Standard construction controls have been placed into all contract documents, included site specific material as needed, and added EPA requirements as needed.	Continue to follow our contract procedures about construction control
4-02 Revised	Perform site inspections and impose penalties as needed	Mike Gardner/ Operations	Erosion, sediment, and waste control.	Site inspections are performed as required.	Continue monitoring construction sites.
Revised					
Revised					

Revised								
Revised								
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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
5-01	Standard post-construction controls and penalties in contract documents	Mike Gardner/ Operations	Erosion, sediment, and waste control. Soil depth restoration.	Standard post-construction controls maintained in contract documentation.	Standard post-construction controls to be maintained in contract documents.
Revised					
Revised					
Revised					
Revised					

Revised							
Revised							

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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6-01	Contract for catch basin cleaning, inspection, and repair	Mike Gardner/ Operations	Proper operation of stormwater collection system.	Contract work performed as required by the yearly permit.	Contract activities satisfied.
Revised					
6-02	Town of Wrentham to clean public roads and some parking areas	Mike Gardner/ Operations	Proper operation of system with reduction of salt/sand in catch basins.	Cleaning and sweeping of public roadways and certain parking areas to be completed by the town.	Contract to continue for cleaning/sweeping of remaining areas.
Revised					
6-03	Contract for remaining areas and parking lots to be cleaned.	Mike Gardner/ Operations	Proper operation of system with reduction of sand in catch basins.	Contract for cleaning and sweeping of remaining parking areas completed.	Contract to continue for cleaning/sweeping of remaining areas.
Revised					

6-04 Revised	Limit salt use; store salt and sand in a contained area	Mike Gardner/ Operations	Limit salt to water table.	Salt use has been tempered and more sand has been used. Included the salt/sand mix in the Tier II report.	Salt use to continue to be controlled and stored in a roofed area.
6-05 Revised	Inspect and clean trash and debris from roadsides and culverts	Mike Gardner/ Operations	Proper operation of storm-drain system.	Regular inspection and cleaning of debris from roadsides and culverts ongoing.	Regular inspections and spot cleaning, as needed, to continue.
Revised					

6a. Additions

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 11 (Reliance on non-municipal partners indicated, if any)	Planned Activities
7-01 Revised	Maintain status of all discharges being “allowable”	Mike Gardner/ Operations	No significant nutrient or sediment loading.	All discharges remain “allowable” under the permit and there have not been any illicit discharges detected. Testing sheet and results are appended.	All discharges are to be maintained as “allowable.” Will continue to monitor for illicit discharges.
7-02 Revised	Non-stormwater discharges not a significant contributor of pollutants	Mike Gardner/ Operations	Prevent pollutants from entering into the stormwater.	Continue to prevent non-stormwater discharges from becoming a significant contributor of pollutants.	Continue to promote good housekeeping and working conditions to promote proper practices.

Revised							
Revised							
Revised							
Revised							

7a. Additions

7b. WLA Assessment

Not applicable to the Wrentham Developmental Center.

Part IV. Summary of Information Collected and Analyzed

Water quality testing was conducted during a rainfall event on 04/08/2014. Testing for pH, total phosphorous, ammonia nitrogen, nitrate, and copper are all attached. All testing was performed at our wastewater treatment plant by a certified operator in accordance with NPDES and MassDEP testing standards. * All test results fell within the approved range and should be considered "normal".

*Note: Copper tested using colorimetric test kit.

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, 2013 through March 31, 2014)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	
Annual program budget/expenditures **	(\$)	
Total program expenditures since beginning of permit coverage	(\$)	
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	
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.)	
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
<ul style="list-style-type: none"> ▪ days sponsored ** ▪ community participation ** ▪ material collected ** 	(#) (# or %) (tons or gal)	
School curricula implemented	(y/n)	

Legal/Regulatory

Regulatory Mechanism Status (indicate with "X")	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
<ul style="list-style-type: none"> ▪ Illicit Discharge Detection & Elimination ▪ Erosion & Sediment Control ▪ Post-Development Stormwater Management 					
Accompanying Regulation Status (indicate with "X")					
<ul style="list-style-type: none"> ▪ Illicit Discharge Detection & Elimination ▪ Erosion & Sediment Control ▪ Post-Development Stormwater Management 					

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	
Estimated or actual number of outfalls	(#)	
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	
Mapping method(s)		
<ul style="list-style-type: none"> ▪ Paper/Mylar ▪ CADD ▪ GIS 	(%)	
Outfalls inspected/screened **	(%)	
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	
Illicit discharges identified **	(# or %)	
Illicit discharges identified (Since beginning of permit coverage)	(#)	
Illicit connections removed **	(#)	
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	
% of population on sewer	(%)	

	%		(Preferred Units)	Response
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 (for proper BMP installation & operation) completed **			(# or %)	
BMP maintenance required through covenants, escrow, deed restrictions, etc.			(y/n)	
Low-impact development (LID) practices permitted and encouraged			(y/n)	

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **			(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **			(times/yr)	
Qty of structures cleaned **			(#)	
Qty. of storm drain cleaned **			(% , LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **			(lbs. or tons)	
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **			(location)	

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**		(\$)
• Hourly or per basin contract rate **		(\$/hr or \$ per basin)
• Disposal cost**		(\$)
Cleaning Equipment		
• Clam shell truck(s) owned/leased		(#)
• Vacuum truck(s) owned/leased		(#)
• Vacuum trucks specified in contracts		(y/n)
• % Structures cleaned with clam shells **		(%)
• % Structures cleaned with vacor **		(%)

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	
• Disposal cost**	(\$)	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	
• Vacuum street sweepers owned/leased	(#)	
• Vacuum street sweepers specified in contracts	(y/n)	
• % Roads swept with rotary brush sweepers **	%	
• % Roads swept with vacuum sweepers **	%	

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)	
▪ Fertilizers	(lbs. or %)

▪ Herbicides	(lbs. or %)
▪ Pesticides	(lbs. or %)
Integrated Pest Management (IPM) Practices Implemented	(y/n)

(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand
Pre-wetting techniques utilized **	(y/n or %)
Manual control spreaders used **	(y/n or %)
Zero-velocity spreaders used **	(y/n or %)
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)
% of salt/chemical pile(s) covered in storage shed(s)	(%)
Storage shed(s) in design or under construction	(y/n or #)
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n
Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n

Stormwater Sampling Results for Annual Stormwater Report for the period April 1, 2013-March 31, 2014.

Sampled by: Brett Butz Sample Date: 08 April 2014
Title: Compliance Officer II

Analyzed by: Brian Sylvain Analysis Date: 08 April 2014
Title: Wastewater Treatment Plant Operator 3

Location	pH	Total Phosphorous	Ammonia Nitrogen	Nitrate	Copper
Ewalt	6.38	0.00	0.22	0.14	0.03
Heffron Hall	6.62	1.60	0.19	0.02	0.02
Marion Moore Hall	6.60	1.70	0.22	0.22	0.03

*Note: Please see the attached sheets for analytical method used.

P.H.

WORKSEET

Sample Date 4/8/14 Time 9:30-9:35 BY BS

Analysis Date 4/8/14 Time 10:00 By BS

Calibration Check _____ Sample type Grab

EWALT

~~Campus~~
Influent

P.H.

6.38

Temp

13.9^{oc}

~~HH~~
Aeration #1

6.62

13.7^{oc}

~~MMH~~
Secondary

6.60

13.3^{oc}

Effluent

Downstream

Comments: _____

PROCEDURE

Use COD adapter.

1. Preheat COD reactor to 150 ±2°C. Follow safety precautions.
 2. Remove cap from a *Total Phosphorus Acid Reagent Tube (4035). Use a 1.0 mL pipet (0354) to add 5.0 mL of Deionized Water (5115PS). This is the blank.
 3. Remove cap from a *Total Phosphorus Acid Reagent Tube (4035). Use the 1.0 mL pipet (0354) to add 5.0 mL of sample water. This is the sample.
 4. Use the 0.15 g spoon (0727) and a funnel (0459) to add one level measure of *Digestion Reagent Powder (4036) to each tube. Tap funnel to dispense powder completely. Cap tube tightly and shake until powder dissolves completely.
 5. Place the tubes in the COD reactor for 30 minutes.
 6. At the end of the heating period, turn the reactor off. Carefully remove the tubes from the reactor block and allow them to cool to room temperature.
 7. Carefully remove the caps from the digested tubes. Use another 1 mL pipet (0354) to add 2.0 mL of *Total Phosphorus HR Hydroxide Reagent (4037) to each tube. Cap and invert to mix.
 8. Use the 0.5 mL pipet (0353) to add 0.5 mL *Total Phosphorus HR Indicator Reagent (4039) to each tube. Cap and invert to mix. Wait 7 minutes.
 9. During the waiting period, press and hold **ON** button until colorimeter turns on.
 10. Press **ENTER** to start.
 11. Press **ENTER** to select TESTING MENU.
 12. Select ALL TESTS (or another sequence containing 83 Phos T HR) from TESTING MENU.
 13. Scroll to and select 83 Phos T HR from the menu.
 14. Wipe the tubes with a damp towel to remove fingerprints and smudges. Wipe with a dry towel.
 15. Insert the blank tube into the chamber. Select **SCAN BLANK**. Remove the blank tube from the colorimeter.
 16. Insert the sample tube into the chamber. Select **SCAN SAMPLE**. Record the result as Total Phosphorus in mg/L PO₄.
 17. Press **OFF** button to turn the colorimeter off or press **EXIT** button to exit to a previous menu or make another menu selection.
- NOTE: For greater accuracy, use laboratory grade pipets.
To order reagent refills, order code R-4025.

TEST
WORKSHEET

Sample Location Ewalt, HH, PH Temp _____
Date 4/8/14 Time 9:30-35 BY _____

24 Hour Compost Sample _____ Other Grab

Analysis Date 4/9/14 Time 10:15 BY BS

Test Results HH - 1.6 Duplicate Results _____
PH - 1.7

Comments: _____

Volume Used: 5ml

Calculations: _____

AMMONIA NITROGEN TEST PROCEDURE: NESSLER METHOD

Read the 1200 Colorimeter Manual before proceeding. Carefully wipe tubes dry before inserting into the colorimeter chamber.



AMMONIA NITROGEN

AMMONIA NITROGEN TEST

WORKSHEET

1. Fill the Water Sample Collecting Bottle (0688) with sample water. This will be used to dispense sample water for the tests.

2. Rinse and fill a colorimeter tube (0290) to the 10 ml line with sample water. Cap and wipe dry.

3. Insert the tube into the chamber, being sure to align the index line with the arrow on the meter. Close the lid. This tube is the blank or zero.

4. Push the **READ** button to turn the meter on. Press the **ZERO** button and hold it for 2 seconds until **BLN** is displayed. Release the button to take a blank reading (0.0 ppm).

5. Remove tube from colorimeter. Add 8 drops of Ammonia Nitrogen Reagent #1 (V4797). Cap and mix.

6. Use 1.0 ml pipet (0354) to add 1.0 ml of *Ammonia Nitrogen Reagent #2 (V4798).

7. Cap and invert to mix. Wait 5 minutes for full.

8. Align the index line with the arrow on the meter, insert tube into chamber. Close the lid. Push the **READ** button. Record results as ppm Ammonia.

Sample Date 4/8/14 Time 9:30-35 By _____

Sample Location _____ Temp _____

24 Hour Compost Sample _____ Other Grab

Analysis Date 4/8/14 Time 10:25 By BS

Test Results 0.22; 0.19 Duplicate Results _____

Comments: _____

Volume Used: 10ml

Calculations _____

PROCEDURE

NOTE: Place Dispenser Cap (0692) on *Mixed Acid Reagent (V-6278). Save this cap for refill reagents.

1. Press and hold **ON** button until colorimeter turns on.
2. Press **ENTER** to start.
3. Press **ENTER** to select TESTING MENU.
4. Select **FILL TESTS** (or another sequence containing **64 Nitrate-N LR**) from TESTING MENU.
5. Scroll to and select **64 Nitrate-N LR** from menu.
6. Rinse a clean tube (0290) with sample water. Fill to 10 mL line with sample.
7. Insert tube into chamber, close lid and select **SCRM ELANK**.
8. Remove tube from colorimeter and pour off 5 mL into graduated cylinder or similar. Discard the remaining sample.
9. Pour the 5mL sample from a graduated cylinder or similar into the tube. Use the graduated cylinder or similar to measure 5 mL of *Mixed Acid Reagent (V-6278) and add to tube. Cap and mix. Wait 2 minutes before proceeding to Step 10.
10. Use the 0.1 g spoon (0699) to add two measures of *Nitrate Reducing Reagent (V-6279). Cap.
11. Hold tube by index finger and thumb and mix by inverting approximately 50-60 times a minute for four minutes. Wait 10 minutes for maximum color development.

NOTE: At end of waiting period an undissolved portion of Nitrate Reducing Reagent may remain in bottom of the tube without affecting results.

12. At the end of the 10 minute waiting period, mix, insert tube into chamber, close lid and select **SCRM SAMPLE**. Record result.
13. Press **OFF** button to turn colorimeter off or press **EXIT** button to exit to a previous menu or make another menu selection.

NOTE: For best possible results, a reagent blank should be determined to account for any contribution to the test result by the reagent system. To determine the reagent blank, follow the above test procedure to scan a distilled or deionized water blank. Then follow the above procedure to perform the test on a distilled or deionized water sample. This test result is the reagent blank. Subtract the reagent blank from all subsequent test results of unknown samples. It is necessary to determine the reagent blank only when a new lot number of reagents are obtained.

To convert Nitrate Nitrogen (NO₃-N) results to ppm Nitrate (NO₃), multiply by 4.4.

Nitrate-Nitrogen-Low Range TEST

WORKSHEET

Cadmium Reduction Method

Sample Date 4/8/14 Time 9:30-35 By _____

Sample Location Ewa H. HH MMH Temp _____

24 Hour Compost Sample _____ Other Grab

Analysis Date 4/9/14 Time 9:00 By BS

Test Results Ewa H. 14 ppm Duplicate Results HH - 0.2 ppm MH - 0.2 ppm

Comments: _____

Volume Used: 5 ml

Calculations _____

COPPER TEST PROCEDURE - DIETHYLDITHIOCARBAMATE

Read the 1200 Colorimeter Manual before proceeding. Carefully wipe tubes dry before inserting into the colorimeter chamber.



COPPER TEST WORKSHEET

1. Fill the Water Sample Collecting Bottle (0688) with sample water. This will be used to dispense sample water for the tests.

2. Rinse and fill a colorimeter tube (0290) to the 10 mL line with sample water. Cap and wipe dry.

3. Insert the tube into the chamber, being sure to align the index line with the arrow on the meter. Close the lid. This tube is the blank or zero.

4. Push the **READ** button to turn the meter on. Press the **ZERO** button and hold it for 2 seconds until **BL9** is displayed. Release the button to take a blank reading (0.0 ppm).

5. Remove tube from colorimeter. Add 5 drops of *Copper 1 (6446).

6. Cap and invert to mix. Wipe tube dry.

7. Align the index line with the arrow on the meter, insert tube into chamber. Close the lid. Push the **READ** button. Record results as ppm Copper.

Sample Date 4/8/14 Time 9:30-35 By _____
 Location _____ Temp _____

24 Hour Compost Sample _____ Other Grab

Analysis Date 4/8/14 Time 10:10 By BS

Test Results _____ Duplicate Results _____

Comments: _____

Test Results 0.03; 0.02; 0.03
 Volume Used EMACT
 Calculations _____



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Watershed Management
BRP WM 08A NPDES Stormwater General Permit Notice of Intent
for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s)
Storm Water Management Program TIME FRAMES (Wrentham Developmental Center MA0102113)

BMP ID #	PERMIT YEAR TEN (or new NOI)				NEXT PERMIT YEAR (or newNOI)				Transmittal Number	Facility ID (if known)	Page	of
	Spring 2013	Summer 2013	Fall 2013	Winter 13-14	Spring 2014							
1 01	X				X							
1 02	X				X							
1 03					X							
1 04					X							
2 01	X				X							
2 02	X				X							
2 03	X				X							
2 04	X				X							
3 01					X							
3 02	X				X							
3 03					X							
4 01					X							
4 02					X							
5 01					X							
6 01	X				X							
6 02	X				X							
6 03	X				X							
6 04					X							
6 05					X							

Transmittal Number W035610

Facility ID (if known)

Page 1 of 1