

Department of Public Works

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Richard F. Stinson
Director of Public Works



April 30, 2006

United States Environmental Protection Agency
NPDES Stormwater Phase II Program
Municipal Assistance Unit (CMU)
One Congress Street, Suite 1100
Boston, MA 02114-2023

MAY - 1 2006

RE: NPDES Stormwater Phase II Permit
Annual Report Permit Year Three
Wakefield, Massachusetts

Dear Sir or Madam:

The Town of Wakefield, Massachusetts is pleased to submit this Annual Report covering Permit Year Three (May 1, 2005 through April 30, 2006.) This submittal is in accordance with the Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES) Stormwater Phase II Regulations and the Massachusetts DEP requirements.

The format of this report follows the Section F listing of information items under Part II Massachusetts Small MS4 Storm Water Management Program. See the Table of Contents following this cover letter for identification of each report section.

In summary, the Town of Wakefield has met compliance with the Town's permit application submittal dated July 28, 2003. We do not recommend, as of this date, that the identified BMP's or measurable goals in the July 2003 permit application be changed.

We look forward to working with the EPA and DEP throughout the remainder of the permit term. If you have any questions or comments, please contact me at 781-246-6300

Very truly yours,



Richard F Stinson
Director of Public Works

cc: MA Department of Environmental Protection- Office of Watershed Management
Thomas P. Butler, Town Administrator
Michael M. Martello, DPW Business Manager
Michael P. Collins, P. E., Town Engineer
Wakefield NPDES Committee

MAY = 1 2006

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EXECUTIVE SUMMARY

During the Permit Year Three (May 1, 2005 through April 30, 2006) the Town of Wakefield complied with the Town's permit application submittal dated July 28, 2003. The overall five-year permit planned permit program is presented on the charts following this page.

During Permit Year Three, work activities occurred for each of the six planned Best Management Practices. The details of work activity conducted for each BMP is presented in Section I of this report.

We do not recommend, as of this date, that the identified BMP's or measurable goals be changed.

SECTION II.

ASSESSMENT OF THE APPROPRIATENESS OF THE SELECTED BMP'S.

The selected items of work as included in the NPDES permit application for each of the BMP's were derived from an extensive review by the Department of Public Works and the NPDES Phase II Committee during the period prior to the July 30, 2003 permit submittal.

During the Permit Year Three (May 1, 2005 through April 30, 2006) the Town of Wakefield did not identify any pre-planned work item, which when completed, will not provide benefit to the Town in terms of defining and implementing the stormwater management program.

SECTION III.

ASSESSMENT OF PROGRESS TOWARDS ACHIEVING MEASURABLE GOALS.

This section presents an assessment of progress toward achieving the permit related measurable goals from work performed during NPDES Permit Year Three (May 1, 2005 through April 30, 2006.)

WAKEFIELD, MA NPDES STORMWATER PHASE II PERMIT

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SECTION III. ASSESSMENT OF PROGRESS TOWARD ACHIEVING MEASURABLE GOALS

BMP ID #	Task as Defined in May 2003 Permit	PERMIT YEAR THREE				ASSESSMENT OF PROGRESS TOWARD ACHIEVING MEASURABLE GOALS
		Spring 05	Summer 05	Fall 05	Winter 05-06	
1.1	<u>Education / Materials</u> Brochure					Third year goal achieved
1.2	Web Page					Third year goal achieved
1.4	Press Release (1/year)	X				Third year goal achieved
1.5	Public Works Newsletter Article			X		Third year goal achieved
1.7	Fact Sheets	X				Third year goal achieved
1.9	Brochure (Public Meeting & Hearing Process)					Third year goal achieved
1.11	<u>Event Education & Outreach</u> Festival by the Lake	X				Third year goal achieved
1.12	FOLQ (Lake Cleanup)	X				Third year goal achieved
1.13	Library Date	X				Third year goal achieved
1.14	Household Hazardous Waste Day (1/year)			X		Third year goal achieved
1.15	Post-Tributary Signage					Third year goal achieved
2.1	<u>Public Involvement & Participation</u> FOLQ (Lake Clean up)	X				Third year goal achieved

WAKEFIELD, MA NPDES STORMWATER PHASE II PERMIT

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SECTION III. ASSESSMENT OF PROGRESS TOWARD ACHIEVING MEASURABLE GOALS

BMP ID #	Task as Defined in May 2003 Permit	PERMIT YEAR THREE				ASSESSMENT OF PROGRESS TOWARD ACHIEVING MEASURABLE GOALS
		Spring 05	Summer 05	Fall 05	Winter 05-06	
2.2	Hazardous Waste Day (1/year)			X		Third year goal achieved
2.3	Citizens Volunteer Group					Third year goal achieved
	Steering Committee					
2.6	Bi-annual Mtgs (future years)		X		X	Third year goal achieved
2.7	Annual Town SW Forum/Workshop		X			Third year goal achieved
	Distribute Educational Materials					
2.8	Newsletter Article (Annual)	X				Third year goal achieved
	Illicit Discharge Detection & Elimination					
3.1	Criteria for Identifying Illicit Discharges					Third year goal achieved
3.2	Identify & Characterize Illicit Discharges					Third year goal achieved
3.3	Map Locations of Illicit Discharges					Third year goal achieved
3.4	Evaluate Impacts to Receiving Waters					Third year goal achieved
3.5	Ongoing Mapping of MS4s					Third year goal achieved
3.7	Review & Document Existing Local & State Regs					Third year goal achieved
	Construction Site Runoff Control					
4.1	Develop Guidelines (including ESC)					Third year goal achieved

WAKEFIELD, MA NPDES STORMWATER PHASE II PERMIT

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SECTION III. ASSESSMENT OF PROGRESS TOWARD ACHIEVING MEASURABLE GOALS

BMP ID #	Task as Defined in May 2003 Permit	PERMIT YEAR THREE				ASSESSMENT OF PROGRESS TOWARD ACHIEVING MEASURABLE GOALS
		Spring 05	Summer 05	Fall 05	Winter 05-06	
4.2	Develop Procedures for Site Inspection of Control Meas.					Third year goal achieved
4.3	Update Existing Site Plan Review & Const. Regs.					Third year goal achieved
4.4	Update Existing Policies & Procedures Relating to Compliance & Enforcement					Third year goal achieved
4.6	Brochure (Public Meeting & Hearing Process)					Third year goal achieved
	Post-Construction Runoff Control					
5.1	Review Existing Policies, Regs & Guidelines					Third year goal achieved
5.2	Develop Guidelines					Third year goal achieved
5.3	Procedures & Guidelines (Structural & Non-structural BMPs)					Third year goal achieved
	Pollution Prevention / Good Housekeeping					
6.1	Review Existing Practices, Guidelines & Training					Third year goal achieved
6.2	Catchbasin Cleaning Guidelines					Third year goal achieved
6.3	Street Sweeping Guidelines					Third year goal achieved
6.4	Maintain Streams & Channels Guidelines					Third year goal achieved
6.5	Calibrating Salt/Sand Spreaders Guidelines					Third year goal achieved
6.6	Spill Control/Containment Guidelines					Third year goal achieved
6.7	Recycling Refuse Program Guidelines					Third year goal achieved

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SECTION III. ASSESSMENT OF PROGRESS TOWARD ACHIEVING MEASURABLE GOALS

PERMIT YEAR THREE

BMP ID #	Task as Defined in May 2003 Permit	PERMIT YEAR THREE				ASSESSMENT OF PROGRESS TOWARD ACHIEVING MEASURABLE GOALS
		Spring 05	Summer 05	Fall 05	Winter 05-06	
6.8	Employee Training Program					Third year goal achieved
6.9	Animal Solid Waste Secreton By-Law					Third year goal achieved
6.10	Fertilizers/Pesticides Recommended Use Guidelines					Third year goal achieved
6.11	Identify Sensitive Waterway & Waterbody Criteria					Third year goal achieved

SECTION IV.

SUMMARY INFORMATION COLLECTED AND ANALYZED. (INCLUDING DATA)

This section illustrates how the Town of Wakefield has catalogued all the information and material that was collected during the first three Permit Years (through April 30, 2006) related to the NPDES Phase II Stormwater Regulations.

Information and material shall be continually gathered and logged into the spreadsheet shown on the following pages, and filed in the NPDES Phase II Stormwater library at Town Hall. An area at the Wakefield Town Hall is reserved for the Municipal Stormwater Management Library consisting of reports, technical data, forms, workbooks, guidelines, fact sheets, instructions, product specifications, pamphlets, posters, articles, lists, manuals, maps, letters, memos, emails, magazines, videos, compact discs, seminar material, miscellaneous notes and information. Each item is categorized under an appropriate BMP for ease of reference throughout the permit process.

SECTION V

ACTIVITIES FOR THE NEXT REPORTING CYCLE

The activities planned for the next NPDES reporting cycle (May 1, 2006 through April 30, 2007) are shown on the charts following this page.

The activities during this period will conclude with an Annual Report submittal covering Permit Year Four by May 1, 2007.

WAKEFIELD, MA NPDES STORMWATER PHASE II PERMIT

ANNUAL REPORT COVERING MAY 2005 through APRIL 2006

SECTION V. ACTIVITIES FOR NEXT REPORTING CYCLE

BMP ID #	Task as defined in May 2003 Permit	PERMIT YEAR				BRIEF DESCRIPTION OF ACTIVITY
		Spring 06	Summer 06	Fall 06	Winter 06-07	
1.2	<u>Education / Materials</u> Web Page					Web Page on Town Web site
1.4	Press Release (1/year)				X	Release in April 2007
1.5	Public Works Newsletter Article	X		X		
1.6	Cable TV Program				X	Will be conducted on local access channel
1.7	Fact Sheets	X				New Fact sheet will be available
1.9	Brochure (Public Meeting & Hearing Process)					Brochure will be mailed
1.11	<u>Event Education & Outreach</u> Festival by the Lake	X				Annual event planned
1.12	FOLQ (Lake Cleanup)	X				Annual event planned
1.13	Library Date	X				DPW Display at Library
1.14	Household Hazardous Waste Day (1/year)	X		X		Planned Spring and Fall 2006 with Reading, MA
1.15	Post-Tributary Signage					Will be posted throughout watersheds

BMP ID #	Task as defined in May 2003 Permit	PERMIT YEAR				BRIEF DESCRIPTION OF ACTIVITY
		Spring 06	Summer 06	Fall 06	Winter 06-07	
2.1	<u>Public Involvement & Participation</u> FOLQ (Lake Clean up)	X				Annual Event Planned
2.2	Hazardous Waste Day (1/year)			X		Planned Fall 2006 and Spring 2007 with Reading, MA
2.3	Citizens Volunteer Group					Volunteers asked to participate in catch basin labeling
2.4	Youth Group Involvement					Youths asked to participate in catch basin labeling, river sampling
2.6	<u>Steering Committee</u> Bi-annual Mtgs (future years)		X		X	Meetings planned
2.7	Annual Town SW Forum/Workshop				X	Will be conducted
2.8	<u>Distribute Educational Materials</u> Newsletter Article (Annual)	X				Article in DPW newsletter
2.10	Adopt-A-Stream Program					Program instituted
3.2	<u>Illicit Discharge Detection & Elimination</u> Identify & Characterize Illicit Discharges					Sought during ongoing drain system mapping
3.3	Map Locations of Illicit Discharges					Mapping of locations if found

BMP ID #	Task as defined in May 2003 Permit	PERMIT YEAR				BRIEF DESCRIPTION OF ACTIVITY
		Spring 06	Summer 06	Fall 06	Winter 06-07	
3.4	Evaluate Impacts to Receiving Waters					Field surveys and sampling
3.5	Ongoing Mapping of MS4s					Ongoing mapping of Drain System
3.6	Potential Approaches to Abate Illicit Discharges					Tailor approach to source if found
3.7	Review & Document Existing Local & State Regs					Ongoing review for guidance as needed
3.8	Additional Separate By-Laws					Drafted for Town Meeting if needed
3.9	Legality of Publicizing Violations					Reviewed if needed
3.10	Potential Funding Programs					Funds sought if needed
4.1	<u>Construction Site Runoff Control</u> Develop Guidelines (including ESC)					Ongoing development and use
4.2	Develop Procedures for Site Inspection of Control Meas.					Ongoing development and use of procedure
4.3	Update Existing Site Plan Review & Const. Regs.					Update during 2006 / 2007, further as needed
4.4	Update Existing Policies & Procedures Relating to Compliance & Enforcement					Policy update will be further developed
4.5	Separate By-Law to Implement & Enforce					By-Law to Town Meeting if needed
5.1	<u>Post-Construction Runoff Control</u> Review Existing Policies, Regs & Guidelines					Update during 2006, further as needed

BMP ID #	Task as defined in May 2003 Permit	PERMIT YEAR				BRIEF DESCRIPTION OF ACTIVITY
		Spring 06	Summer 06	Fall 06	Winter 06-07	
5.2	Develop Guidelines					Guidelines further developed
5.3	Procedures & Guidelines (Structural & Non-structural BMPs)					Procedures and guidelines further developed
5.4	By-Law to Implement & Enforce					By-Law to Town Meeting if needed
6.1	Pollution Prevention / Good Housekeeping Review Existing Practices, Guidelines & Training		P			Ongoing review and training
6.2	Catchbasin Cleaning Guidelines		T			Guidelines will be followed
6.3	Street Sweeping Guidelines		T			Guidelines will be followed
6.4	Maintain Streams & Channels Guidelines		T			Further development of guidelines
6.5	Calibrating Salt/Sand Spreaders Guidelines		T			Guidelines will be followed
6.6	Spill Control/Containment Guidelines		T			Guidelines will be followed
6.7	Recycling Refuse Program Guidelines		T			Guidelines in place
6.8	Employee Training Program					Ongoing for all DPW Employees
6.9	Animal Solid Waste Secretion By-Law					By-Law in place
6.10	Fertilizers/Pesticides Recommended Use Guidelines					DPW Guidelines used in municipal operations
6.11	Identify Sensitive Waterway & Waterbody Criteria					Final criteria review
6.12	Identify Sensitive Waterway & Waterbodies					Field sampling and testing as needed

SECTION VI.

CHANGES IN IDENTIFIED BMP'S OR MEASURABLE GOALS

At the time of preparing this annual report for Permit Year Three (May 1, 2005 through April 30, 2006) we have not identified any information or reason for changing the planned Best Management Practices or Measurable Goals from those identified in the Town's permit application submittal dated July 28, 2003.

SECTION VII

RELIANCE ON ANOTHER ENTITY FOR ACHIEVING ANY MEASURABLE GOAL.

The Town's water bodies do receive stormwater flows from the following entities, upon which the Town relies on the quality of their stormwater discharges in achieving any measurable goal:

1. Massachusetts Highway Department:

Route 95/128, which crosses, through the northern end of Town, from Stoneham to Lynnfield. Stormwater discharges from this interstate-highway discharge either to Lake Quannapowitt or the downstream Saugus River, which also receives flows from Lake Quannapowitt.

2. Massachusetts Department of Conservation and Recreation:

Breakheart Reservation located along the eastern boundary of Wakefield, of which a portion drains to the Mill and Saugus Rivers in Wakefield.

3. Regional School:

Northeast Regional Vocation School (code #853) serving 12-communities, is located along the eastern boundary of Wakefield, also abutting the Breakheart Reservation, which drains to the Mill and Saugus Rivers in Wakefield.

4. Commonwealth of Massachusetts:

Camp Curtis Guild, Massachusetts Army National Guard located at the northern boundary of Wakefield, of which a small portion may drain to the Saugus River.

5. United States Government:

United States Military Reservation, Tarrant Lane military housing located in the northwest corner of Wakefield, if which the stormwater from this area drains to Lake Quannapowitt, which in turn drains to the Saugus River.

6. **Surrounding Communities:**

The Town of Wakefield has a number of abutting municipalities, which share Wakefield's municipal boundary. Along these boundaries, there are some watershed areas that may flow from one community to the other. These municipalities include: Lynnfield, Melrose, Reading, Saugus and Stoneham.

SECTION I.

SELF-ASSESSMENT OF COMPLIANCE WITH THE PERMIT CONDITIONS.

The purpose of this section is to perform a self-assessment of the work undertaken during Permit Year Three (May 1, 2005 through April 30, 2006) in terms of compliance with permit conditions.

The chart presented on the following pages present an identification of each of the activities scheduled under each BMP, the scheduling of work within Permit Year Three and a Self-Assessment of Compliance with Permit Conditions.

WAKEFIELD, MA NPDES STORMWATER PHASE II PERMIT

ANNUAL REPORT COVERING MAY 2005 through APRIL 2006

SECTION I. SELF-ASSESSMENT OF COMPLIANCE WITH PERMIT CONDITIONS

BMP ID #	Task as Defined in May 2003 Permit	PERMIT YEAR THREE				SELF-ASSESSMENT OF COMPLIANCE WITH PERMIT CONDITIONS
		Spring 05	Summer 05	Fall 05	Winter 05-06	
1.1	<u>Education / Materials</u> Brochure					Brochure available and mailed to public
1.2	Web Page					Available to public on Town website
1.4	Press Release (1/year)	X				Release in local newspaper April 2006
1.5	Public Works Newsletter Article	X		X		Article in Fall 2005 and Spring 2006 DPW newsletters
1.7	Fact Sheets	X				Developed additional fact sheet
1.9	Brochure (Public Meeting & Hearing Process)					Brochure development started
1.11	<u>Event Education & Outreach</u> Festival by the Lake	X				Annual event conducted
1.12	FOLQ (Lake Cleanup)	X				Annual event conducted
1.13	Library Date	X	X			DPW display at Library June-July 2005
1.14	Household Hazardous Waste Day (1/year)	X		X		Conducted May 2005 and Oct. 2005 with Reading, MA
1.15	Post-Tributary Signage					Signage design reviewed with NPDES steering committee
	Public Involvement & Participation					

WAKEFIELD, MA NPDES STORMWATER PHASE II PERMIT

ANNUAL REPORT COVERING MAY 2005 through APRIL 2006

SECTION I. SELF-ASSESSMENT OF COMPLIANCE WITH PERMIT CONDITIONS

BMP ID #	Task as Defined in May 2003 Permit	PERMIT YEAR THREE				SELF-ASSESSMENT OF COMPLIANCE WITH PERMIT CONDITIONS
		Spring 05	Summer 05	Fall 05	Winter 05-06	
2.1	FOLQ (Lake Clean up)	X				Annual event conducted
2.2	Hazardous Waste Day (1/year)	X		X		Conducted May and Oct. 2005
2.3	Citizens Volunteer Group					Volunteers installed labels at catch basins
2.6	<u>Steering Committee</u> Bi-annual Mtgs (future years)			X	X	Meetings conducted Oct. 2005 and April 2006
2.7	Annual Town SW Forum/Workshop				X	Conducted April 2006
2.8	<u>Distribute Educational Materials</u> Newsletter Article (Annual)	X				Inclusion of article in Fall 2005 & Spring 2006
3.1	<u>Illicit Discharge Detection & Elimination</u> Criteria for Identifying Illicit Discharges					Adopted Guidance Manual for use
3.2	Identify & Characterize Illicit Discharges					Field survey to locate potential sources
3.3	Map Locations of Illicit Discharges					GIS mapped outfalls to streams and rivers, flows characterized - ongoing
3.4	Evaluate Impacts to Receiving Waters					Initial review of conditions

WAKEFIELD, MA NPDES STORMWATER PHASE II PERMIT

ANNUAL REPORT COVERING MAY 2005 through APRIL 2006

SECTION I. SELF-ASSESSMENT OF COMPLIANCE WITH PERMIT CONDITIONS

BMP ID #	Task as Defined in May 2003 Permit	PERMIT YEAR THREE				SELF-ASSESSMENT OF COMPLIANCE WITH PERMIT CONDITIONS
		Spring 05	Summer 05	Fall 05	Winter 05-06	
3.5	Ongoing Mapping of MS4s					Outfalls mapped along streams and rivers, available drain mapping sorted identified on Town map
3.7	Review & Document Existing Local & State Regs					Ongoing research conducted by DPW
4.1	Construction Site Runoff Control Develop Guidelines (including ESC)					Draft guideline further refined
4.2	Develop Procedures for Site Inspection of Control Meas.					Ongoing development of procedure
4.3	Update Existing Site Plan Review & Const. Regs.					Updating during 2004 / 2005
4.4	Update Existing Policies & Procedures Relating to Compliance & Enforcement					Policy update being developed
4.6	Brochure (Public Meeting & Hearing Process)					Brochure being developed
5.1	Post-Construction Runoff Control Review Existing Policies, Regs & Guidelines					Used during past year, updating ongoing
5.2	Develop Guidelines					Guidelines being developed
5.3	Procedures & Guidelines (Structural & Non-structural BMPs)					Procedures and guidelines developed during review of subdivision definitive plans
6.1	Pollution Prevention / Good Housekeeping Review Existing Practices, Guidelines & Training					Ongoing review and training
6.2	Catchbasin Cleaning Guidelines					Guidelines being followed

WAKEFIELD, MA NPDES STORMWATER PHASE II PERMIT

ANNUAL REPORT COVERING MAY 2005 through APRIL 2006

SECTION I. SELF-ASSESSMENT OF COMPLIANCE WITH PERMIT CONDITIONS

BMP ID #	Task as Defined in May 2003 Permit	PERMIT YEAR THREE				SELF-ASSESSMENT OF COMPLIANCE WITH PERMIT CONDITIONS
		Spring 05	Summer 05	Fall 05	Winter 05-06	
6.3	Street Sweeping Guidelines					Guidelines being followed
6.4	Maintain Streams & Channels Guidelines					Procedure development and use for channel cleaning - ongoing
6.5	Calibrating Salt/Sand Spreaders Guidelines					Guidelines being followed
6.6	Spill Control/Containment Guidelines					Guidelines being followed
6.7	Recycling Refuse Program Guidelines					Guidelines in-place
6.8	Employee Training Program					Ongoing for all DPW employees
6.9	Animal Solid Waste Secretion By-Law					By-Law in place
6.10	Fertilizers/Pesticides Recommended Use Guidelines					DPW Guidelines used in municipal operations
6.11	Identify Sensitive Waterway & Waterbody Criteria					Further development through field survey



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)
F. Storm Water Management Program TIME FRAMES

BMP ID #	Task	PERMIT YEAR ONE				PERMIT YEAR TWO				PERMIT YEAR THREE			PERMIT YEAR				PERMIT YEAR				Next Permit				
		Spring 03	Summer 03	Fall 03	Winter 03-04	Spring 04	Summer 04	Fall 04	Winter 04-05	Spring 05	Summer 05	Fall 05	Winter 05-06	Spring 06	Summer 06	Fall 06	Winter 06-07	Spring 07	Summer 07	Fall 07		Winter 07-08			
1.1	Education / Materials																								
1.2	Brochure																								
1.3	Web Page																								
1.4	Poster Picture Display																								
1.5	Press Release (1/year)					X				X					X						X				
1.6	Public Works Newsletter Article										X					X						X			
1.7	Cable TV Program																								
1.8	Fact Sheets										X												X		
1.9	Mailing to Local Businesses/Residents																								
1.10	Brochure (Public Meeting & Hearing Process)																								
1.11	Event Education & Outreach																								
1.12	Develop Program																								
1.13	Festival by the Lake																								
1.14	FOLQ (Lake Cleanup)					X				X					X							X			
1.15	Library Date																								
1.16	Household Hazardous Waste Day (1/year)						X				X					X							X		
1.17	Post-Tributary Signage																								
1.18	Public Involvement & Participation																								
2.1	FOLQ (Lake Clean up)																								
2.2	Hazardous Waste Day (1/year)						X				X					X							X		
2.3	Citizens Volunteer Group																								
2.4	Youth Group Involvement																								
2.5	Steering Committee																								
2.6	Quarterly Mtgs (1st Year)					X				X					X								X		
2.7	Bi-annual Mtgs (future years)						X				X					X							X		
2.8	Annual Town SW Forum/Workshop																								
2.9	Distribute Educational Materials																								
2.10	Newsletter Article (Annual)																								
2.11	Brochure (General/Business)																								
3.1	Adopt-A-Stream Program																								
3.2	Implement Volunteer Adopt-A-Stream Program																								
3.3	Illlicit Discharge Detection & Elimination																								
3.4	Criteria for Identifying Illicit Discharges																								
3.5	Identify & Characterize Illicit Discharges																								
3.6	Map Locations of Illicit Discharges																								
3.7	Evaluate Impacts to Receiving Waters																								
3.8	Ongoing Mapping of MS4s																								
3.9	Potential Approaches to Abate Illicit Discharges																								
3.10	Review & Document Existing Local & State Regs																								
3.11	Additional Separate By-Laws																								

**Town of Wakefield, MA
NPDES Phase II Stormwater Permit**

Reference Information Collected

File: 0027

(Typical Document Types: Report/Study, Tech. Data, Form, Workbook, Guidelines, Fact Sheet, Instructions, Product Spec, Pamphlet, Poster, Article, List, Manual, Map, Letter, Memo, Email, Magazine, Video, CD, Seminar Material, Misc. Notes, Misc. Info)

	Title:	Author:	Published By:	Literature Description:	Document Type:	Website Link:	Date:	BMP #1	BMP #2	BMP #3	BMP #4	BMP #5	BMP #6
1	After The Storm (2 copies)			co-produced by the EPA & The Weather Channel	Video	http://www.epa.gov/weather/channel/announcement.htm	2/4/2004	1.6					
2	The Snout	Best Management Products, Inc. (T.J. Mullen, President)		Oil-Water-Debris Separator, Affordable Stormwater Quality	Letter & Product Specs	www.bestmp.com						5.2	6.6
3	Stormwater Symposium - Phas II: How to DO it all (well almost)	Comprehensive Environmental, Inc.		Material distributed at symposium (Design guidelines and criteria for	3-Ring Folder	www.ceiengineers.com	3/24/2004		2.7				
4	Stormwater - The Journal for Surface Water Quality Professionals				Magazine	www.stormh2o.com	May/June 2004						6.1
5		Friends of Lake Quannapowitt		Letter to the Board of Selectmen regarding lake cleanup	Letter		3/16/2004		2.1	3.4			
6	Wakefield/ENV: Explanation & Analysis of Clean Water Act Section 303(d) Listing of Lake	RSS ?			Memo		11/1/2002			3.4			
7	Stormwater Management - Volume One: Stormwater Policy Handbook	DEP & MA Office of Coastal Zone Management			Manual		3/1/1997				4.1		
8	Stormwater Management - Volume Two	DEP & MA Office of Coastal Zone Management			Manual		3/1/1997				4.1		
9	Stormwater Technical Handbook	Commonwealth of Massachusetts			Report		10/1/2002			3.4			
10	Massachusetts Year 2002 Integrated List of Waters - Part 1: Context & Rationale for Categories of Waters	Commonwealth of Massachusetts: Executive Office of Environmental Affairs, MA DEP, Bureau of Resource Protection, Division of Watershed Management			Proposed Listing for Public Comment		10/1/2002			3.4			
11	FINAL - Massachusetts Section 303(d) List of Waters, 1998	Commonwealth of Massachusetts: Executive Office of Environmental Affairs, MA DEP, Bureau of Resource Protection, Division of Watershed Management			Report		February-99			3.4			
12	Lake Quannapowitt Bathymetrics				Map		None			3.4			
13	Stream Channel Reference Sites - An Illustrated Guide to Field Technique	Cheryl C. Harrelson, C.L. Rawlins & John P. Polyzondy	U.S. Dept of Agriculture, Forest Service, Rocky Mountain Forest & Range Experiment Station	Document is a guide to establishing permanent reference site for gathering data about the physical characteristics of streams and rivers	Report		April-94		2.11				
14	(Report) "Ambient Water Quality Criteria for Chloride-1998", (monitoring data), (newspaper article) "Lake Quannapowitt is Getting Saltier", (newspaper article) "Salt Not So Great for Lake", (public record) Topical Applications of Copper Sulfate & Sodium Arsenite in Lake Quannapowitt, 1922-1964", (study) "Lake Quannapowitt Diagnostic/Feasibility Study Final Report July 1986", (data) "Lake Quannapowitt Elevations, Outflow, Inflow & Water Quality, (data) "Water-Quality Sampling of Ground Water from Private Wells in the Lake Quannapowitt Watershed", (data) "Lake Testing Data Reporting Sheet 2001", (article) "Arsenic & Old Weeds"	Doug Heath / EPA		Packet sent by Doug Heath	Various					3.4			
15	Is your property on the National Register of Historic Places?				List	http://www.wakefieldma.org/nationalregister.html		file 0027.0.4					

**Town of Wakefield, MA
NPDES Phase II Stormwater Permit**

Reference Information Collected

File: 0027

Title:	Author:	Published By:	Literature Description:	Document Type:	Website Link:	Date:	BMP #1	BMP #2	BMP #3	BMP #4	BMP #5	BMP #6
16 Certified Professional in Erosion & Sediment Control - CPESC Exam Review Course Workbook	CPESC Council			Workbook		October-02			4.1			
17 Massachusetts Erosion & Sediment Control Guidelines for Urban & Suburban Areas. A Guide for Planners, Designers and Municipal Officials	MA DEP, Executive Office of Environ. Affairs, State Commission for Conservation of Soil, Water and Related Resources, Natural Resources Conservation Service U.S. Dept. of Agriculture	Franklin, Hampden, Hampshire Conservation Districts	Table of Contents Only	Guidelines		March-97			4.1			
18 DEP's Proposed Total Maximum Daily Loads (TMDL's) Strategy to Improve the Water Quality of Massachusetts Rivers and Lakes				Report				3.4				
19 NPDES Phase II Stormwater Regulations Compliance Assistance. Instructions for 5-Step Process to Facilitate Stormwater Management Program Planning			EPA BMPs	Instructions					4.1			
20 MA DEP website information (Stormwater, Industrial Wastewater, Watersheds, Chapter 91 Watersheds)	MA DEP		website print outs	Misc Info	http://www.mass.gov/dep/dp/p/stormwtr/stormpub.htm		1.2					
21 Stormwater Management Policy	MA DEP			Policy					4.1			
22 MA DEP - WPA Appendix C - Stormwater Management Form (MA Wetlands Protection Act M.G.L. c 131, Section 40)	MA DEP			Form					4.1			
23 MA DEP - BRP WM 08A NPDES Stormwater General Permit, Notice of Intent for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s) / Permit Fact Sheet	MA DEP			Instructions								
24 National Pollutant Discharge Elimination System (NPDES) Phase II Rule	Thomas Hayes, P.E. (Wakefield Town Engineer)			Fact Sheet		3/14/2000	file 0027.0.1					
25 Bay Savers. Stormwater Quality Systems That Make Sense	Bay Saver		Technical And Design Manual	Folder	www.baysaver.com	10/2/2004			4.1			5.1
26 Erosion Control Blankets and Mats	CONTECH			Folder, Pamphlets	www.armortec.com				4.1			
27 Stormwater Management	SYNTHETIC INDUSTRIES		Stormwater, Drainage and Erosion Prevention Reference guide	Three ring binder	www.fixsoil.com	6/22/1905			4.1			5.1
28 Storm Water / Combined Sewer Overflow	CDS Technologies		Performance review, info packet, pollutant traps, Design examples	Three ring binder	www.cdstechn.com	10/29/2002			4.1			5.1
29 Stormwater Management	Hydro International	H.I.L. Technology	Stormwater Management design materials and design information	Three ring binder	hiltech@hil-tech.com	6/23/1905			4.1			5.1
30 Phase II Up Date	Camp Dresser & McKee Inc	CDM	Phase II update. Improving water quality in Norwood	Three ring binder,		3/1/2001	file 0027.0.1					
31 Office Of Wastewater Management	EPA	Office of Wastewater Management	Stormwater Pollution , Guides, stormwater outreach materials	Folder	www.epa.gov/npdes/stormwater	9/1/2002		3.4				
32 EPA Info. NPDES Phase II Final Rule	NPDES	NPDES	Phase II final rule, Phase II fact sheets, Municipal Tech fact sheets	Three ring binder		12/8/1999	file 0027.0.1					
33 Phase II NPDES Stormwater Regulation Workshop	Comprehensive Environmental, Inc.	NPDES	Phase II Stormwater Regulation Workshop	Three ring binder			file 0027.0.1					
34 NPDES Stormwater Phase II Regulations	NPDES	Vanasse Hangen Brustlin, Inc	Phase II Stormwater Regulations. Presentation, fact sheets	Three ring binder			file 0027.0.1					
35	Christine Odiaga		Phase II General Info, Planning Structural Non-Structural BMP's. Overview of reference manuals	Three ring binder					4.1			5.1

Reference Information Collected

Title:	Author:	Published By:	Literature Description:	Document Type:	Website Link:	Date:	BMP #1	BMP #2	BMP #3	BMP #4	BMP #5	BMP #6
36	Plastic Septic and Stormwater Chambers	Cultec	Contractor and Recharger	Fabric Interface, Test method and Test results. Info about Plastic Leaching Chambers. Design tools CD	Three ring binder	www.cultec.com	6/25/1905		4.1	5.1		
37	The Complete Stormwater Treatment Solution	StormTreat Systems	Technology assessment report, StormTreat Systems Price Sheet, Specification Sheet of StormTreat Tank. Pollutant Removal Effectiveness and Storm Water Technology Fact Sheet.	Folder	www.eco-cycle.com	September 1997-1999			4.1	5.1		
38	Stormdrain Solutions is Committed to Clean Water		A Better Solution For Treating Runoff....Details, Installation, Performance, And Inceptors Design, Report of Analysis and Certificate of Analysis	Folder		8/6/2003			4.1	5.1		
39	CONTECH Construction Products	Mark H. McCormick	CONTECH's Underground Stormwater Detention Systems software. Underground System Design Program User Manual and Tutorial, With Technical Commentary.	Packet (Downloads)	water-detention-system@contech-gpi.com				4.1	5.1		
40	Water Quality Structures and Systems		ADS		www.ads-pipe.com	6/25/1905			4.1	5.1		
41	Storm Drain Filtration System DrainPac		New England Environmental Equipment	Pamphlet								
42	The Premium Water Application		PETRATECH	Document is a guide to establishing permanent reference site for gathering data about the physical characteristics of streams and rivers	Packet - CD		9/8/2000	2.11	3.4			
43	Erosion Control Service		Bark Tech Express	Geotek's premium design inhibits the transport of soil during the erosion process and help on the cos keep our waterways free from silt and hazardous pollutants. Design and research, Installation, Placement Techniques.	Folder	www.petraflex.com	6/24/1905		4.1	5.1		
44	Engineered for Excellence		EceorFib	Erosion control, Non-Vegetative uses of organic materials for soil erosion control, DEP information sheet, Organic soil mulches, Filter berms for sediments control, compost, rules of thumb	Brochure	www.hydrograsstech.com	9/19/2001		4.1	5.1		
45	MODULAR GABION SYSTEMS		Erosion Control Specialists	Stormwater management, Erosion and dust control, New technology that is being applied to construction sites, that will eliminate sediment loss from rainfall and storm events and aid in dust control	Booklet	qmobile@aol.com						
46	ECO-Store Permeable Pavement for Stormwater Management		Ideal Concrete Block CO., INC	Design guide for gabion retaining walls, Diaphragms, Guide Yand research summar, Magazine on landscaping, Garden products, Concrete Pavers	Folder, Magazine	www.idealconcreteblock.com	9/30/2003		4.1	5.1		

	Title:	Author:	Published By:	Literature Description:	Document Type:	Website Link:	Date:	BMP #1	BMP #2	BMP #3	BMP #4	BMP #5	BMP #6
47	Storm Water Sampler Information		VORTOX	Instructions for the Assembly and Installation of the VORTOX SAMPLER. City expands stormwater surveillance with in-pipe sampling device. Computer-monitored rain gauge	Sampler Package					3.4			
48	Hydrocarbon Test Kit For soil		PetroFlag	How to.. Comparison to laboratory Test Methods, Strategies, Test Methodology	Folder	www.DEXSIL.COM				3.4			
49	DEXSIL Accurate, Cost-Effective, Environmental		DEXSIL	How to.. Performing field testing, Methods and Results. Quantitative test for water content. Chlorine in waste water. On-site Lubricant test kits. Acid Number determination. Comparisons of ASTM Laboratory methods with titra-lube TBN and titra-lube Tan. Field Instrumentation, Environmental Laboratory Services.	Catalog	http://www.dexsil.com				3.4			
50	The global Authority in erosion control technology		North American Green	Global erosion control has never been more important or as advanced. North American Green is the leading product technology provider assisting engineers and contractors in complying with erosion and sediment control regulations. Throughout this catalog is extended-term and long-term degradable Erosion Blankets in many designs and forms.	Catalog	www.nagreen.com				4.1		5.1	
51	Jensen Precast Stormvaut Development and Monitoring 2003 Report	Steve Phelps	Storm Vault	Developing and Monitoring Report 2003. Idealize stormwater Mitigation System, Jensen Precast Stormvaut Stormwater Mitigation System. Water Quality Capture Volume sizing, Mean Storm Sizing Methodology. Results in field testing. Also is included REFERENCES	Report	www.jensenprecast.com	6/24/1905			3.4	4.1	5.1	
52	Contact Directory, Making Every Drop Count	Debra Strokes-Haglund DRMWATER, INC	DRMWATER	Erosion Control, Agriculture Replants, Mitigation, Revegetation, Reclamation, Award winning project. 100-acre Mitigation Planting for Talega Development, Vineyard Planting; User guide. Plant Detail for shrubs and trees. Testimonials	Report					4.1	5.1		

	Title:	Author:	Published By:	Literature Description:	Document Type:	Website Link:	Date:	BMP #1	BMP #2	BMP #3	BMP #4	BMP #5	BMP #6
53	CONTECH , TENSAR Geogrids for Soil Reinforcement			TENSAR— Economical, Efficient soil reinforcement. Increases soil stability, Performance options, proven performance, Slope management, Retaining wall options, Integrated foundation support system, soft soil solutions, Installation Guide, Tensar Biaxial Geogrid V.S. Geotextiles for Construction over soft soil. Provided in packet is a SAMPLE PIECE of TENSAR.	Folder					4.1	5.1		
54	ARMORTEC		CONTECH	Interlocking Concrete Structural Grid Pavement System Interlocking concrete Erosion Control System, Concrete Erosion Protection, Articulating Concrete Block Revetment System, ArmorStone - ArmorFlex - ArmorWedge - ArmorTurf - ArmorLoc - Features, Functions, Textures, Design Guidelines, Installation Diagrams, A - Jacks , Articulating Concrete Block Mat System..	Folder, Pamphlets	www.conteect-cpi.com	2000-2002			4.1	5.1		
55	The Stormceptor System		CSR	Technical Manual, Stormceptor - Applications, System Operation, Testing, Configuration of the Storm Drain System, Location in the Storm drain System, Technical Specifications, Design Parameters, Sizing Guidelines, Installation Procedures, Drawings and patent information	Catalog	www.csrstormceptor.com	10/1/2000			4.1	5.1		
56	Environmental Compliance Solutions		HYDRO COMPLIANCE MANAGEMENT, INC>	About HYDRO-KLEEN Storm Water Filtration System.. Tells about System.. Application Profile .Analytical Test of Filtration System. Efficiency of System, Diagram, Specifications	Folder	www.hydrocompliance.com	10/22/2003			4.1	5.1		
57	Netting Trashtap Systems		Fresh Creek Technologies, INC.	Cost-effective control of trash, floatables and solids in stormwater and combined sewer systems. Fact sheet, Modular prefabricated Design, Low operation and maintenance cost, Program and project details, Press Release, Diagrams.	catalog, pamphlets	www.freshcreek.com	7/2/2003		3.4	4.1	5.1		
58	OIL AND GREASE REMOVAL BY FLOATING SORBENT IN A CDS DEVICE	Michael K. Stenstrom Sim-Lin Lau	Civil and Environmental Engineering Department University of California, Los Angeles	Executive Summary, Introduction, Experimental Methods, Diagrams, Testing and the results, Fact sheets. Conclusions and recommendations, Appendix - Raw Data, Also included REFERENCES	Booklet		7/2/1998		3.4	4.1	5.1	6.6	
59	Grassy Pavers		RK Manufacturing, INC.	Storm water management and green space compliance problem GRASSY PAVERS is all you need. Installation, diagrams	Packet,	www.rkmtfg.com				4.1	5.1		



Town of Wakefield, MA
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114 Case Studies: The Residential Conservation Assistance Program (ReCAP)		Product of Canada	(ReCAP) provided a free home visit service to the residents of Oshawa, Ontario, aimed at helping householders reduce their use of energy and water and improve their 3Rs practices.	Internet Literature	www.tools4change.com	5/26/2004	1.1					
115 Make Less Waste: How you can help the Environment!	Tara Shade, Vanessa Hinkle	OhioEPA	Childrens Literature/Coloring Book	Childrens Literature/Coloring Book	www.epa.state.oh.us		1.1					
116 The Happy Earth Day: Coloring and Activities Book		United States Environment Protection Agency	See Title	Childrens Coloring Book		4/1/1990	1.1					
117 Canadian Pollution Prevention Information Clearinghouse-Cool Sites		Product of Canada	Listing of "cool" sites for kids.	Internet Literature	www.ec.gc.ca/cppic/youth/6n/coolsite_e.htm	5/26/2004	1.1					
118 Community-Based Social Marketing	Doug McKenzie-Mohr Ph.D		When members of a community use resources wisely, for example by recycling or taking mass transit, a community moves toward sustainability.	Quick Reference	www.cbsm.com		1.1					
119 NPDES Stormwater Phase II Permit- Annual Report Permit Year One		Wakefield DEP	Annual Report Permit: Year One	Literature		4/27/2004	File 0027.0.2					
120 NPDES Report Generation Flowchart	Joe Lobuglio	ENQUAD	See Title	Literature		1/10/2001	File 0027.0.2					
121 Town of Wakefield- 1st Annual Forum: NPDES Stormwater Phase II Permit		Town of Wakefield	See Title	Literature		8/30/2004	File 2.7					
122 Stormwater Management Program Summary- Outline to DEP		Town of Wakefield	See Title	Outline		7/1/2003	File 0027.0.1					
123 Sir Speedy Bill		Sir Speedy	For Posters	Bill	paolin12@pirnushost.com	10/4/2004	1.1					
124 New Federal Requirements Letter		United States Environment Protection Agency	New federal requirements dealing with stormwater and construction activity.	Letter	www.epa.gov/region1	3/1/2004				4.1	5.1	
125 Outfall Reconnaissance Survey and Source Identification		United States Environment Protection Agency: NE Regional Laboratory	Slide show presentation.	Power Point Presentation					3.3			
126 Sonar: An Effective Herbicide That Poses Negligible Risk To Human Health and the Environment		Aquatic Control Technology Inc.	Humans who are exposed to Sonar treated water are at negligible risk.	Booklets	www.aquaticcontroltech.com	7/30/2003						6.1
127 GeoPerm instead of EcoAegis		HydroGrass Technologies Inc.	The most cost-effective erosion control protection on the market today!	E-mail/ Internet Literature	www.hydrograsstech.com	11/25/2003				4.1	5.1	
128 Putting Wetlands to Work		Environmental Protection: Aero Tec Laboratories Inc.	Natural and constructed wetlands are being used to treat successfully a broad range of industrial and municipal wastewater.	Literature	www.pillowtanks.com	4/9/2004				4.1	5.1	
129 Town of Wakefield: Household Hazardous Waste Day		Town of Wakefield	Household Hazardous Waste Day	Newsletter		3/15/2004	1.14					
130 "After The Storm" video to be shown on WCAT		Town of Wakefield: D.P.W.	"After The Storm" is a 22 minute long television program currently being shown on the Weather Channel	Memo	www.epa.gov/weatherchannel	8/30/2004	1.6					
131 Town of Wakefield Lake Quannapowitt Filter Berm- First Draft		Town of Wakefield: D.P.W.	The filter berm will be cleaned each spring prior to May 31st and each fall prior to October 31st. All weeds and debris will be removed. The top layer of sand will be scraped of debris. The structure will be repaired as needed. Sand will be added to insure the proper operation of the filter berm.	Memo		8/18/2004						6.4

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132	2002-2003: The Year of Clean Water- Stormwater Month Outreach Materials and Reference Documents		U.S. Environmental Protection Agency	Stormwater Month Outreach Materials and Reference Documents	Literature	www.stormwatermonth.htm	4/26/2004	1.1					
133	Community Based Approaches: Massachusetts		U.S. Environmental Protection Agency	Urban Environmental Program, Buzzards Bay, Charles River, Massachusetts Bay, Rummy Marsh, Woonasquatucket and Blackstone Rivers, Northern New England Rail Action Project.	Internet Literature		5/26/2004	0027.0.1					
134	Storm Filter		Cultec Inc.	Stormfilter is designed to be an in-line filter system that effectively removes many of the smaller particles not eliminated during the pretreatment process performed by conventional structures.	Literature	www.cultec.com	1/1/2003				4.1	5.1	
135	Sediment Control & Storm Drain Filtration: Product Catalog		Pollution Solutions, INC.	Provides economical and effective solutions to counter the negative impact on the environment that occurs through land development as well as unavoidable natural events.	Booklet	www.psivies.com	Summer-Fall 2003				4.1	5.1	
136	Draft NPDES Phase II Stormwater Permit Submittal		Town of Wakefield D.P.W.	The NPDES permit submittal prepared for submittal by the end of this month.	Permit		7/17/2003	0027.0.1					
137	Haz Mat- Pollution Control Response Trailer		Town of Wakefield	It is a 14' Car Mate cargo trailer and is loaded with absorbant material. It is designed for the fire department to CONTROL a large petroleum product spill.	E-mail/Picture		8/20/2004						6.6
138	Water Detention/Recharge Systems		Contech Construction Products Inc.	Innovative civil engineering solutions	Booklet	www.contech-cpi.com	1/1/2001				4.1	5.1	
139	CDS Stops Storm Water Pollution: Before vs. After		CDS Technologies	CDS is the most effective system for the sustainable removal and retention of suspended solids and floatables from storm water.	Booklet	www.cdstechn.com	4/11/2001				4.1	5.1	
140	Diversion of Dry Weather Flows: Protects Our Beaches and Oceans From Harmful Urgan Pollutants.		CDS Technologies	CDS technologies has added a unique feature to its highly successful Continuous Deflective Separation (CDS) technology that will filter and divert dry weather nuisance flows from storm drains to sanitary sewer systems.	Booklet	www.cdstechn.com					4.1	5.1	
141	Fine Solids Separator		CDS Technologies	Solids Removal, Applications, Testing Results, CDS Advantages	Literature	www.cdstechn.com					4.1	5.1	
142	NPDES Stormwater General Permit Number: MAR041065		U.S. Environmental Protection Agency	See Title	Letter	www.epa.gov/region1	9/15/2004	0027.0.1					
143	Catch Basin Alternative Reduces Cost of Stormwater Treatment	Janice Kaspersen		It uses the natural motion of water to screen and trap pollutants.	Newsletter	www.cdstechn.com	May-June 2000				4.1	5.1	
144	NPDES Stormwater Phase II Permit- 2004 Annual Report		Town of Wakefield D.P.W.	Enclosed is the Annual Report covering the period thorough April 30, 004. The submittal is in accordance with the (EPA)'s NPDES Stormwater Phase II Regulations and the Mass DEP requirements.	Literature		4/30/2004	0027.0.2					
145	Water Trivia Facts		U.S. Environmental Protection Agency	Trivia	Literature		4/11/1995	1.1					

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Title:	Author:	Published By:	Literature Description:	Document Type:	Website Link:	Date:	BMP #1	BMP #2	BMP #3	BMP #4	BMP #5	BMP #6
174 Geosynthetic Products		Dust Pro Inc.	Geo Textiles, Geo Grids, Geo Cells, Drainage Products, Installation, Erosion Control Blankets, Liquid Stabilizer, Plastic Barrier Fence, Geo Membranes, and Consulting	Piece of Paper	www.dustpro.com					4.1	5.1	
175 Dura-Drain Models P8 & P6: Area Drains- Flexibility of Plastic and Durability of Concrete		Kristar	The Dura-Drain Model P8 or P6 Area Drain is packed with features that make it the obvious solution to your construction project.	Booklet	www.kristar.com					4.1		
176 DPW Newsletter (Spring 2004)		Town of Wakefield D.P.W.	The project information below is the letter Engineering Division's listing of known NPDES Phase II Stormwater Permit work that has occurred in the last 9-months.	Letter		3/10/2004	1.1					
177 What you can do to prevent NPS pollution.		U.S. Environmental Protection Agency	Urban Stormwater Runoff, Mining, Forestry, Agriculture.	Internet Literature	www.epa.gov/owow/nps/wh_ahdo.html	5/26/2004				4.1	5.1	
178 Quick Grass Green-Wool Excelsior Erosion Control Blanket		American Excelsior Company: Earth Science Division	Prevent erosion, assist in germination and protect seedlings with Quick Grass.	Booklet	www.curlex.com					4.1	5.1	
179 Curlex Excelsior Blankets		American Excelsior Company: Earth Science Division	Curlex blankets also have a natural "mechanical" action, by its ability to expand and contract during weather conditions.	Booklet	www.curlex.com					4.1	5.1	
180 Draft Npdes General Permit for Storm Water Discharges from regulated small Municipal Separate Storm Sewer Systems (MS4s)		U. S. Environmental Protection Agency	Fact Sheet and Supplemental Information	Booklet		9/30/2002	0027.0.1					
181 United States Court of Appeals for the Ninth Circuit Volume 1 of 2		Environmental Defense Center v. EPA	Petitioners challenge a rule issued by the United States Environmental Protection Agency pursuant to the Clean Water Act, 33 U. S. C. 1251-1387, to control pollutants introduced into the nation's water by storm sewers.	Booklet		filed january 14, 2003	0027.0.1					
182 Smart Growth for Clean Water		The Trust for Public Land	Helping communities Address the Water Quality Impacts of Sprawl	Booklet	www.tpl.org	1/1/2003			3.7			
183 Pollution Prevention at Municipal DPWs OTA Fact Sheet		Mass Office at Technical Assistance	The fact sheet highlights some of the simple pollution prevention practices specifically for DPWs to integrate into their daily routine that will improve worker safety and protect the environment.	Fact Sheet	www.mass.gov/ota							6.1
184 Storm Water Permit Basics		Abby Swaine, EPA	The Federal (EPA) Storm Water Permit for Large & Small Construction Projects	Literature	swaine.abby@epa.gov					4.1	5.1	
185 Oil Absorbent pillow		SI Geosolutions	Removes Oil & Grease from Water	Brochure	www.sigeosolutions.com					4.1	5.1	6.6
186 Gutterbuddy		SI Geosolutions	Curb Gutter Storm Drains	Brochure	www.sigeosolutions.com					4.1	5.1	
187 Siltsock		SI Geosolutions	Catch Basin Sediment capture Device-Keeping catch basins free of silt	Brochure	www.sigeosolutions.com					4.1	5.1	
188 Grassy Pavers		RK Manufacturing, INC.	They harmoniously blend your architecture into the landscape in an attractive, functional and environmentally responsible way.	Brochure and Literature	www.rkmtfg.com						5.1	

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189 Geoflirk		Petratex	premium design inhibits the transport of soil during the erosion process and helps keep our waterway free from silt and hazardous pollutants	Booklet					4.1	5.1		
190 Tri-lock Articulated Erosion Control System		American Excelsoir Company	The Tri-Lock erosion control system	Brochure	www.curltex.com				4.1	5.1		
191 Petraflex		Petratex, Inc	Articulated Concrete Reveitment System	Brochure					4.1	5.1		
192 Aqua Barrier Dimensions and Accessories		Hydro Solutions Inc	equipped with 3 in id, industrial grade, threaded fill parts., fill parts are installed in pairs located 10 ft from each end of the barrier.	Brochure	www.hydrologicalsolutions.com				4.1	5.1		
193 Superior Dam			fast installations for flood control. Water diversion and containment, dewatering, Cofferdams, Ground water recharge, sediment traps, and many other uses	Brochure					4.1	5.1	6.6	
194 The Slammer		Alpine Stormwater management company	Provides an appliance that will help make your projects NPDES permit compliant. Slammers are DOT approved alternatives in may state and are easy to specify	Brochure					4.1	5.1		
195 Airtrol			General Specifications for erosion Control	Literature								
196 Biostorm treatment systems		Bio-Microbics Inc	Bio Storm pre engineered design removes trash, sediment, oil and other pollutants from Stormwater flows. The unique off line design consists of a patented sani TEE self cleaning reflector screen and a modular separation/coalescing unit, all housed in readily available precast concrete tanks	Literature	www.biomicrobics.com				4.1	5.1		
197 Fibrelog/Plantlog, Prairielog, plant blanket, plant basket		Banksaver	Erosion/sediment control and re-vegetation with a masterful array of the highest quality	Brochure	www.kingfibre.com				4.1	5.1		
198 Conwed Fibers		Profile Products LLC	Accessory Products	Brochure	www.conwedfibers.com				4.1	5.1		
200 GeoHay Temporary Sediment-Erosion Control		Many Ann Industries	GeoHay is completely recyclable, readily available, and will not decompose. GeoHay is strong, durable, and an excellent temporary sediment and erosion control device.	Literature	www.maccaterrt-usa.com				4.1	5.1	6.6	
201 Gro Power Commercial Product Line		Gro Power Inc.	The following information is provided to introduce you to the quality components that are included in all Gro-Power Products.	Booklet	www.gropower.com				4.1	5.1		
202 Agresource- The Source For Compost: The Agresource Dispatch		Agresource Inc.	Artificial Wetland is Created Using Agressoil Compost	Packet	www.agresource.com	Fall 2002			4.1	5.1		
203 SEPA Nature's best: Erosion Control		SEPA Exports	To facilitate the removal of water from the soft subsoil region, for rapid consolidation we have designed a breakthrough system called the Vertical Fibre Drain, which is a 100% natural, bio-degradable and environmentally friendly product.	Brochure	sepa@stnet.lk				4.1	5.1		

Title:	Author:	Published By:	Literature Description:	Document Type:	Website Link:	Date:	BMP #1	BMP #2	BMP #3	BMP #4	BMP #5	BMP #6
204 Subject: Cyber Rain Gauge and automatic stormwater samplers		Durham Geo Slope Indicator	Wireless gauge posts rainfall data to web site in near-real time. Ideal for storm water management.	Packet	www.StormwaterSamplers.com	8/4/2003		3,4				
205 Ameri-Fibers By Mat, Inc.		Mat, Inc.	Com Fiber Mulch With Added Tackifier For Hydraulic Planting	Packet	www.soilguard.com				4.1	5.1		
206 EcoAegis Bonded Fiber Matrix: When and Where a Bonded Fiber Matrix Should Be Specified		Fiber Marketing International Inc.	A bonded fiber matrix is a versatile erosion control material that can offer a cost-effective way to keep soils on slopes in a variety of situations.	Packet	www.cainforpfd.com				4.1	5.1		
207 SureTurf Seeded Mats		SureTurf	A lot of turf professionals won't be doing the same old, same old again this year.	Booklet	www.eagleonegolf.com				4.1	5.1		
208 Dust Pro Inc: Solutions for stabilizing your environment into the next Millennium.		Dust Pro Inc.	Dust Suppressants, Soil Stabilization, Erosion Control, Hydroseeding, Soil Conditioning	Packet	www.dustpro.com				4.1	5.1		
209 Excel FiberMulch II with Tackifier		American Excelsior Company: Earth Science Division	You can now be assured of a high quality mulch to provide trouble-free applications.	Sheet	www.curflex.com				4.1	5.1		
210 Geotextile: Coco Fibre Products		Islandwide Suppliers Limited	Ideal to protect embankments of waterways etc., against earth slips is most suitable for plant growth along the banks enabling long term erosion control and bank stabilization.	Booklet					4.1	5.1		
211 Contech: Erosion Control Products- Innovative Civil Engineering Solutions		Contech Construction Products Inc.	Contech offers a complete line of biodegradable erosion control fiber blankets and permanent geosynthetic turf reinforcement mats.	Booklet	www.contech-cpi.com				4.1	5.1		
212 Geocoir Dekowe: 100% Natural Erosion Control Landscape and Engineering Products		Belton Industries Inc.	Stabilization Fencing System	Booklet	www.beltonindustries.com				4.1	5.1		
213 Anti-Wash/Geojute Natural Erosion Control Fabric		Belton Industries Inc.	Anti-Wash/Geojute Is The Natural For Tough Erosion Control.	Booklet	www.beltonindustries.com				4.1	5.1		
214 Xcel CC-4 100% Coconut Mat		Western Excelsior Corporation	Stitched Erosion Control Blankets & Turf Reinforcement Mats: Excelsior, Straw, Coconut/Straw, 100% Coconut, Geo-Composites, 100% Synthetic	Booklet & Mat	www.westernexcelsior.com				4.1	5.1		
215 Town of Wakefield, MA: Catch Basin Cleaning		Town of Wakefield, Engineering Division	Catch Basin Cleaning	Map		6/11/2004						6.2
216 Meeting Notes		Engineering Division	Various Meeting Notes	Collection of Notes								
217 Stormwater and the Construction Industry		Michaeal Collins EPA	Maintain Your BMP's!!!	Poster	www.epa.gov/nppdes/menuecfomps				0027.0.1			
218 StormTreat Systems: The Complete Stormwater Treatment Solution		StormTreat Systems Inc.	Complies with Water Quality Standards, Saves Space, Cost Effective, Low Maintenance	Sheet	www.eco-cycle.com	1/1/1999			4.1	5.1		
219 Keep Wakefield's Ponds, Rivers & Brooks Clean!		Town of Wakefield, Department of Public Works	Wakefield Municipal Stormwater Management Program (SWMMP)	Flier		8/20/2004			1.1			
220 Airtrol: It's more than erosion control. It's "Erosion Prevention."		United States Gypsum Company	Airtrol Geobinder is a low cost, cementitious binder which, when mixed with water and mulch, sets in a controlled, predictable way to form an erosion-resistant crust.	Booklet		01/01/1997			4.1	5.1		
221 EarthBound: Soil Stabilizer and Mulch Tackifier		Frontier Environmental Technologies, LLC	EarthBound is specifically formulated to stabilize soil structure and to hold mulch in place.	Brochure	erosion_solutions@msn.com				4.1	5.1		

Reference Information Collected

Title:	Author:	Published By:	Literature Description:	Document Type:	Website Link:	Date:	BMP #1	BMP #2	BMP #3	BMP #4	BMP #5	BMP #6
222 EarthGuard Erosion Control Polymer		terra novo INC.	EarthGuard is specifically designed to dramatically reduce erosion and silt pollution caused by rain and wind.	Brochure	www.terrannovo.com				4.1	5.1		
223 Conwed Fibers: Creating Innovative Revegetation Solutions For Over 35 Years		Conwed Fibers: PROFILE Products LLC	Conwed Fibers products lead the industry in innovation, quality and performance. It is through our vast knowledge and product depth, that we offer unparalleled solutions to agronomic challenges in the erosion/revegetation market.	Booklet	www.conwedfibers.com				4.1	5.1		
224 To: Cities & Towns in MS4 Program		DEP	To improve these conditions, the Stormwater Phase 2 permit program has been designed to be implemented at the local level over time, using a variety of approaches to manage storm water and reduce contaminants associated with storm water.	Letter	www.state.ma.us/dep	4/12/2004	0027.0.1					
225 CDS Technologies Purple CD		CDS Technologies Stormwater Management Inc.		Little CD	www.cdstech.com	1/1/2002			4.1	5.1		
226 Come Rain, We Shine CD				CD	www.stormwaterfnce.com		1.6					
227 EC-Design 2000: Stormwater Management and Erosion Control Design Software		Synthetic Industries/ Geosynthetic Products Division	Based on FHWA's HEC 15 and USDA's RUSLE	CD	www.fixsoil.com				4.1	5.1		
228 Stormceptor: The Stormceptor System Stormwater Quality Treatment		Stormceptor: Rinker Materials		CD	www.rinkerstormceptor.com				4.1	5.1		
229 2003 Conference Workshop Proceedings CD-ROM		StormCon: The North American Surface Water Quality Conference & Exposition		CD	www.stormcon.com	July 28-31 2003	1.1					
230 EOS Webster: Customized Earth Science Data Products		EOS-WEBSTER	Mission: To make data and information products and services concerning terrestrial ecosystem processes available to the Earth System Science community.	CD	http://eos-webster.sr.unh.edu		1.1					
231 The Stormceptor System: Stormwater Quality Treatment		CSR: Stormceptor		CD	www.csrstormceptor.com				4.1	5.1		
232 Watershed Management: Integrating Environment, People, Processes, and Practices		DRCOG	International Erosion Control Association: 2001 IECA.	CD			1.1					
233 Underground Detention Systems for Storm Water Management		Contech Construction Products Inc.		CD	www.contech-cpi.com				4.1	5.1		
234 Stormwater Outreach Materials		EPA	Office of Wastewater Management Stormwater Resources 833-C-03-001	CD	www.epa.gov	2/1/2003	1.1					
235 Interpreting The Analytical Report	James Todaro	Alpha Analytical Labs		CD					3.4			
236 STABILATOR Erosion Prevention System		Water's Edge Technology, LLC	Stabilator CD v 1.03	CD	www.WatersEdgeTechnoloqy.com	3/1/2002			4.1	5.1		
237 Stormwater Strategies: Community Responses to Runoff Pollution		NRDC	Documents the most effective strategies employed by communities around the country to control urban runoff pollution.	CD	www.nrdc.org	1/1/2001					6.1	
238 Powerful Environmental Software		Envista Technologies	Developed an environmental information management system that supports the complete life cycle of your environmental program.	CD	www.envistatech.com						6.1	

Title:	Author:	Published By:	Literature Description:	Document Type:	Website Link:	Date:	BMP #1	BMP #2	BMP #3	BMP #4	BMP #5	BMP #6
239	Sacramento Bag Erosion Program	Sacramento Bag Mfg. Co.	Erosion and Sediment Control: Power Point Program	CD		3/8/2002				4.1	5.1	
240	Storm Treat: Stormwater Treatment System	Eco-Cycle Incorporated		CD						4.1	5.1	
241	Better Storm Water Management Through Vegetation	SI Geosolutions	An Assessment and Proposed Classification of Current Sediment Control and Storm Water Treatment Devices	CD	www.fixsoil.com					4.1	5.1	
242	Nutrient Separating Baffle Box, Grate Inlet Skimmer Box, Curb Inlet Basket	Suntree Technologies Inc.	Drawings CD: Version 3.3	CD	www.suntreetech.com	6/9/2003				4.1	5.1	6.6
243	E & S Inspector Trial: Measurable Goals Manager Trial	eFieldSystems Inc.		CD	www.efieldsystems.com	6/4/2003				4.1	5.1	
244	Technical Resources Library	Presto Products Company	Solutions for an Unstable World	CD	www.prestogeo.com	1/1/2003						6.1
245	Design Specifications	Filterex International	Your Source For Environmental BMP's & SWPPP CADD Files	CD	www.aclenvironmental.com	9/1/2003						6.1
246	Site Solution Force	ACF Environmental		CD	www.aclenviromental.com	1/1/2001						6.1
247	Design Tools: Plastic Ceptic and Storm Water Chambers	Cultec Inc.		CD	www.cultec.com	1/1/2002				4.1	5.1	
248	ETV Program	Phyl Kimball		CD	www.stormwater.products.com						5.1	6.1
249	A World In Our Backyard	UltraTech International Inc.										
250	Around the Cracker Barrel	New England Interstate Water Pollution Control Commission	A Wetlands Education and Stewardship Program	Video		1/1/1993				1.1		
251	Storm Stories: "After the Storm"	Weather Channel	Pleasure Island	Video		1/31/2003	1.1					
252	Pay As You Throw	EPA	A New Trend In Sustainable Solid Waste Management	Video	www.epa.gov/dayt	2/4/2004	1.6			4.1	5.1	6.1
253	The Used Oil Management Standards	EPA	Designed primarily for generators of used oil.	Video	www.epa.gov							6.1
254	Stormwater Pollution	DWJ Television	Protecting Our Communities From Storm Water Pollution	Video		1/1/2001	1.1					
255	Private Screening: Best Management Products	American Environmental Review	Custom Demo	Video						1.1		
256	Storm Drain Markers, magnet	ACP International	The ACO Storm Drian Markers are an excellent way to comply with mandatory storm drain making requirements	Brochure	www.acpinternational.com			2.3				
257	Biomap and Living Waters	Natural Heritage & Endangered Species Program	This report and associated map provide information about important dits for biodiversity conservation in your area	Brochure	www.nhesp.org		0027.0.1					
258	2005 Household Hazardous Waste Collection Agreement	Mitchell P Garrity	Collection event at 75 New Crossing Road in Reading	Letter		1/31/2005	1.14					
259	Stormwater Pollution prevention tips: Outdoor liquid container storage, part 1	Stevens Publishing Corp	Prevention tips	Letter	www.casqa.org							6.6
260	Science beats geese at their own game	R.W. Delanehy	The best way to flush unwanted Canada geese from golf courses, Corporate campuses, residential ponds, rural airfields, bike paths, and city parks	Literature								6.9
261	The Effects of Urbanization on the Biological, Physical, and Chemical Characteristics of Coastal new England Streams	James F Colesm, Thomas F Cuffney, Gerard McMahon, Karen M Beaulieu	During August 2000, responses of biological communities(invertebrates, fish, and algae), physical habitat, and water chemistry to urban	Literature								6.11

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	Title:	Author:	Published By:	Literature Description:	Document Type:	Website Link:	Date:	BMP #1	BMP #2	BMP #3	BMP #4	BMP #5	BMP #6
262	Uncalculated Risks in Some Pesticides		Innov-X systems	Researchers at the Univ. of Calif., Riverside have demonstrated that isomers—or the mirror-image structures—of some pesticides, although chemically identical, have very different biological and environmental impacts between the two sides. This may have significant implications for risk assessment and research and development directions of new products.	Literature	www.stevenpublishing.com							6.1
263	Investigation of Inappropriate Pollutant Entries into Storm Drainage Systems, A User's Guide	Robert Pitt, Richard Field	EPA	Guide to investigating pollutants inappropriately entering drainage systems	Literature	epa.gov	1/1/1993			3.1			
264	Futerra F4netless		Profile Products Llc	New erosion control blanket - a new way to look at blankets	Brochure		2/16/2005					5.1	
265	Product Design Manual		Stormwater Management Inc.	version 3.1	Binder		2/1/2004				4.1	5.1	
266	Controlling sediment at construction sites		American Water Works Association	Eroded soil at construction sites can pollute rivers, streams and lakes via stormwater runoff. One way to help keep this pollution to a minimum is by implementing sediment control practices at these sites	Newsletter	www.stevenpublishing.com	2/24/2004					5.1	
267	Water Guide	Ben Meadows Co.	Ben Meadows Co.	Equipment for water quality testing	Brochure	benmeadows.com	4/24/2006			3.4			6.12
268	Illicit Discharge Detection and Elimination A Guidance Manual for Program Development and Technical Assessments	Center for Watershed Protection & Robert Pitt, University of Alabama	EPA	Complete guide to locating and eliminating illicit connections	Paperback manual		4/24/2006			3.1			
269	Model Stormwater By-Law	Hanover, Wendy Garpow	Hanover agent	Information on collaborative efforts by Towns on developing a stormwater by-law	printout	wendy@nsrwa.org	4/24/2006			3.8			