

Department of Public Works

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ONE LAFAYETTE STREET
WAKEFIELD, MASSACHUSETTS 01880

5/7/07
received

Tel. (781) 246-6300
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Richard F. Stinson
Director of Public Works



p (1065)

April 30, 2007

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

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

Dear Sir or Madam:

The Town of Wakefield, Massachusetts is pleased to submit this Annual Report covering Permit Year Four (May 1, 2006 through April 30, 2007.) 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.

In addition to the permit activities, we have been corresponding with the Massachusetts Historical Commission (MHC) and National Heritage and Endangered Species Program (NHESP) to ensure that the guidance provided in the Addendum A and B of the NPDES Stormwater Permit is followed. Correspondence has been received from both MHC and

NHESP that verifies that we have no active projects at this time that will require their review and certification. Their correspondence goes further to provide guidance on what type of projects would require their review and certification, and the process for submitting a proposed project for review.

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,

A handwritten signature in black ink, appearing to read "Richard F. Stinson". The signature is fluid and cursive, with the first name being the most prominent.

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

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EXECUTIVE SUMMARY

During the Permit Year Four (May 1, 2006 through April 30, 2007) 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 Four, 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.



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

Transmittal Number **W040850**

Facility ID (if known) _____

Page of 2

| 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 | |
| 3.9 | Legality of Publicizing Violations | | | | | | | | | | | | | | | | | | | | | |
| 3.10 | Potential Funding Programs | | | | | | | | | | | | | | | | | | | | | |
| 3.11 | Establish Hot-Line | | | | | | | X | | | | | | | | | | | | | | |
| | Construction Site Runoff Control | | | | | | | | | | | | | | | | | | | | | |
| 4.1 | Develop Guidelines (including ESC) | | | | | | | | | | | | | | | | | | | | | |
| 4.2 | Develop Procedures for Site Inspection of Control Meas. | | | | | | | | | | | | | | | | | | | | | |
| 4.3 | Update Existing Site Plan Review & Const. Regs. | | | | | | | | | | | | | | | | | | | | | |
| 4.4 | Update Existing Policies & Procedures Relating to Compliance & Enforcement | | | | | | | | | | | | | | | | | | | | | |
| 4.5 | Separate By-Law to Implement & Enforce | | | | | | | | | | | | | | | | | | | | | |
| 4.6 | Brochure (Public Meeting & Hearing Process) | | | | | | | | | | | | | | | | | | | | | |
| | Post-Construction Runoff Control | | | | | | | | | | | | | | | | | | | | | |
| 5.1 | Review Existing Policies, Regs & Guidelines | | | | | | | | | | | | | | | | | | | | | |
| 5.2 | Develop Guidelines | | | | | | | | | | | | | | | | | | | | | |
| 5.3 | Procedures & Guidelines (Structural & Non-structural BMPs) | | | | | | | | | | | | | | | | | | | | | |
| 5.4 | By-Law to Implement & Enforce | | | | | | | | | | | | | | | | | | | | | |
| | Pollution Prevention / Good Housekeeping | | | | | | | | | | | | | | | | | | | | | |
| 6.1 | Review Existing Practices, Guidelines & Training | | | | | | | | | | | | | | | | | | | | | |
| 6.2 | Catchbasin Cleaning Guidelines | | | | | | | | | | | | | | | | | | | | | |
| 6.3 | Street Sweeping Guidelines | | | | | | | | | | | | | | | | | | | | | |
| 6.4 | Maintain Streams & Channels Guidelines | | | | | | | | | | | | | | | | | | | | | |
| 6.5 | Calibrating Salt/Sand Spreaders Guidelines | | | | | | | | | | | | | | | | | | | | | |
| 6.6 | Spill Control/Containment Guidelines | | | | | | | | | | | | | | | | | | | | | |
| 6.7 | Recycling Refuse Program Guidelines | | | | | | | | | | | | | | | | | | | | | |
| 6.8 | Employee Training Program | | | | | | | | | | | | | | | | | | | | | |
| 6.9 | Animal Solid Waste Secreton By-Law | | | | | | | | | | | | | | | | | | | | | |
| 6.10 | Fertilizers/Pesticides Recommended Use Guidelines | | | | | | | | | | | | | | | | | | | | | |
| 6.11 | Identify Sensitive Waterway & Waterbody Criteria | | | | | | | | | | | | | | | | | | | | | |
| 6.12 | Identify Sensitive Waterway & Waterbodies | | | | | | | | | | | | | | | | | | | | | |
| 6.13 | Identify Non-Stormwater Discharges | | | | | | | | | | | | | | | | | | | | | |
| 6.14 | Good Housekeeping monitoring Program | | | | | | | | | | | | | | | | | | | | | |

D = Review / Develop
 T = Test
 I = Implement

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 Four (May 1, 2006 through April 30, 2007) 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 Four and a Self-Assessment of Compliance with Permit Conditions.

KEFIELD, MA NPDES STORMWATER PHASE II PERMIT

UAL REPORT COVERING MAY 2006 through APRIL 2007

I. SELF-ASSESSMENT OF COMPLIANCE WITH PERMIT CONDITIONS

| PERMIT YEAR FOUR | | | | | |
|------------------------|-----------|-----------|---------|--------------|--|
| | Spring 06 | Summer 06 | Fall 06 | Winter 06-07 | SELF-ASSESSMENT OF COMPLIANCE WITH PERMIT CONDITIONS |
| | | | | | Town Web Page Includes Information on NPDES Stormwater Management Program |
| | x | | | | Press Release in local paper on Annual Stormwater Forum with information on stormwater program |
| Article | x | | x | | Articles on Town's Stormwater Management Program in Spring and Fall DPW Newsletters |
| | | | | x | NPDES Stormwater Management Program scope and funding needs presented at Selectmen's meeting on Cable TV |
| | x | | | | Fact Sheets developed and maintained in DPW office, available to public |
| & Hearing Process) | | | | | Brochures prepared and mailed, process also considered in proposed by-law writing |
| ach | | | | | |
| | x | | | | Held June 17, 2006, with citizen participation |
| | X | | | | Held May 6, 2007 with citizen participation |
| | x | | | | Poster display and Literature Display at Library |
| ste Day (1/year) | x | | x | | Held May 20, 2006 and October 28, 2006 |
| | | | | | Ongoing Installation of signs, also installs in permit year five |
| rticipation | | | | | |
| | x | | | | Held May 6, 2007 with citizen participation |
| year) | x | | x | | Held May 20, 2006 and October 28, 2006 |
| | | | | | Involved in 1.11 and 1.12, above |
| | | | | | Involved in 1.11 and 1.12, above |
| rs) | x | x | | x | Meetings conducted, positive input received |
| Workshop | | | | x | Conducted April 26, 2007 |
| aterials | | | | | |
| | x | | x | | In Spring and Fall DPW newsletters |
| | | | | | Program scope developed, consultant selected to support program |
| n & Elimination | | | | | |
| it Discharges | | | | | Completed field sampling looking for evidence of illicit discharges |
| charges | | | | | None found yet for mapping |
| ving Waters | | | | | Sampling and testing conducted |
| | | | | | Ongoing mapping of trunk drains, all available paper plans organized and sketched paper maps |
| ate Illicit Discharges | | | | | Using manual from Center for Watershed Protection / University of Alabama |
| ng Local & State Regs | | | | | Done, and working with Metropolitan Area Planning Council (MAPC) on developing stormwater by-law |
| ws | | | | | Done, and working with MAPC on developing stormwater by-law for FY08 Town Meeting vote |
| ations | | | | | Town Counsel opinion received, no violations found thus far, publicizing doubtful due to Legal Issues |
| is | | | | | Grant applied for and selected to work with MAPC on developing stormwater by-law |

KEFIELD, MA NPDES STORMWATER PHASE II PERMIT

ANNUAL REPORT COVERING MAY 2006 through APRIL 2007

I. SELF-ASSESSMENT OF COMPLIANCE WITH PERMIT CONDITIONS

PERMIT YEAR FOUR

| | Spring 06 | Summer 06 | Fall 06 | Winter 06-07 | SELF-ASSESSMENT OF COMPLIANCE WITH PERMIT CONDITIONS |
|-------------------------------|--------------|--------------|---------|-----------------|---|
| Control | | | | | |
| Planning ESC) | | | | | Adopted by Planning Board |
| Annual Inspection of Control | | | | | Adopted by Planning Board |
| Review & Const. Regs. | | | | | Adopted by Planning Board also DPW permit update |
| Procedures Relating to | | | | | Considered in separate by-law development |
| Enforcement & Enforce | | | | | Working with MAPC under grant program to develop for Town Meeting vote in FY08 |
| Control | | | | | |
| Regulations & Guidelines | | | | | Completed |
| Structural & Non-structural | | | | | Developed |
| Enforcement | | | | | Adopted by Planning Board |
| Housekeeping | | | | | Working with MAPC under grant to develop for Town Meeting, Nov. 2007 |
| Guidelines & Training | | D | | | Ongoing activity as needed |
| Guidelines | | T | | | In place, being followed |
| Guidelines | | T | | | In place, being followed |
| Guidelines | | T | | | Working with Adopt-a-Stream program & Conservation Commission |
| Guidelines | | T | | | In place, being followed |
| Guidelines | | T | | | In place, being followed, Fire Dept. has emergency response team with equipment |
| Guidelines | | T | | | In place, being followed |
| Guidelines | | | | | Workplace materials, right-to-know, oil / water separator training |
| By-Law | | | | | By-law in place, enforced as needed |
| Recommended Use Guidelines | | I | | | Conforms to State guidelines / Child Protection Act |
| Criteria & Waterbody Criteria | | | | | Criteria follows MA State Water Quality Standards |
| Criteria & Waterbodies | | T | | | Field investigations, sampling and testing using Flow-Chart Method from 3.6 above |

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 Four (May 1, 2006 through April 30, 2007) 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 Four (May 1, 2006 through April 30, 2007.)

AKEFIELD, MA NPDES STORMWATER PHASE II PERMIT

NUAL REPORT COVERING MAY 2006 through APRIL 2007

N III. ASSESSMENT OF PROGRESS TOWARD ACHIEVING MEASURABLE GOALS

| PERMIT YEAR FOUR | | | | | |
|-----------------------------|-----------|-----------|---------|--------------|---|
| | Spring 06 | Summer 06 | Fall 06 | Winter 06 07 | ASSESSMENT OF PROGRESS TOWARD MEASURABLE GOALS |
| | | | | | Fourth year goal achieved |
| | | | x | | Fourth year goal achieved |
| Article | x | | x | | Fourth year goal achieved |
| | | | | x | Fourth year goal achieved |
| | x | | | | Fourth year goal achieved |
| & Hearing Process) | | | | | Fourth year goal achieved |
| each | | | | | |
| | x | | | | Held June 17, 2006 with citizen participation |
| | X | | | | Held May 6, 2006 with citizen participation |
| | x | | | | Fourth year goal achieved |
| aste Day (once per year) | x | | x | | Held May 20, 2006 and October 28, 2006 |
| | | | | | Being installed, will be completed in fifth year |
| | | | | | |
| articipation | X | | | | Held May 6, 2006 with citizen participation |
| nce per year) | x | | x | | Held May 20, 2006 and October 28, 2006 |
| | | | | | Fourth year goal achieved in 1.11 and 1.12, above |
| t | | | | | Fourth year goal achieved in 1.11 and 1.12, above |
| | | | | | |
| ars) | | x | | x | Fourth year goal achieved |
| Workshop | | | | x | Held April 26, 2007 |
| Materials | | | | | |
| il) | x | | x | | Fourth year goal achieved |
| | | | | | Fourth year goal achieved |
| on & Elimination | | | | | |
| icil Discharges | | | | | Fourth year goal achieved |
| scharges | | | | | Fourth year goal achieved |
| iving Waters | | | | | Fourth year goal achieved |
| is | | | | | Fourth year goal achieved |
| Abate Illicit Discharges | | | | | Fourth year goal achieved |
| ting Local & State Regs | | | | | Fourth year goal achieved |
| aws | | | | | Fourth year goal achieved |
| lations | | | | | Fourth year goal achieved |
| ms | | | | | Fourth 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 four Permit Years (through April 30, 2007) 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.

**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 | 1/2 hours T.V. program about watersheds | Video | http://www.epa.gov/weatherchannel/announcement.htm | 2/4/2004 | 1.6 | | | | | |
| 2 | The Snout | Best Management Products, Inc. (T.J. Mullen, President) | BMP, Inc. | 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 Stormwater Technical Handbook | DEP & MA Office of Coastal Zone Management | | | Manual | | 3/1/1997 | | | | 4.1 | | |
| 9 | Massachusetts Year 2002 Integrated List of Waters - Part 1: Context & Rationale for | Commonwealth of Massachusetts: Executive | | Proposed Listing for Public Comment | Report | | 10/1/2002 | | | 3.4 | | | |
| 10 | Massachusetts Year 2002 Integrated List of Waters - Part 2: Proposed Listing of Individual 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 | Report | | 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 | | | | | 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. Potyondy | 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 | | | | | |

NPDES Phase II Stormwater Permit

| | 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/brp/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.cdstech.com | 10/29/2002 | | | | 4.1 | 5.1 | |
| 29 | Stormwater Management | Hydro International | H.I.L Technology | Stormwater Management design catalog containing reference 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 referance manuals | Three ring binder | | | | | | 4.1 | 5.1 | |

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 |
|----|--|--------------------|-------------------------------------|---|--------------------|--|---------------------|--------|--------|--------|--------|--------|--------|
| 36 | Plastic Septic and Stormwater Chambers | Cultec | Contacto 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 Solptotion 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 Techical Commentary. | Packet (Downloads) | water-detention-system@contech-cpi.com | | | | | 4.1 | 5.1 | |
| 40 | Water Quality Structures and Systems | | ADS | EPA Phase II Compliance. Helping you through Phase II, Water quality units, Sediment Control, Nyloplast Catch it,Nyloplast Interat Hood, Hydro-Kleen Filtration System. | Pamphlet | www.ads-pipe.com | 6/25/1905 | | | | 4.1 | 5.1 | |
| 41 | Storm Drain Filtrtion System DrainPac | | New England Environmental Equipment | 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 | | | |
| 42 | The Premium Water Application | | PETRATECH | Geolink'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. | Booklet | www.petraflex.com | 6/24/1905 | | | | 4.1 | 5.1 | |
| 43 | Erosion Control Service | | Bark Tech Express | 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 | Folder | | | | | | 4.1 | 5.1 | |
| 44 | Engineered for Excellence | | EcreoFib | 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 | Brochure | www.hydrograsstech.com | 9/19/2001 | | | | 4.1 | 5.1 | |
| 45 | MODULAR GABION SYSTEMS | | Erosion Control Specialists | Design guide for gabion retaining walls, Diaphragms, | Booklet | grmobile@aol.com | | | | | 4.1 | 5.1 | |
| 46 | ECO-Stone Permeable Pavement for Stormwater Managemeny | | Ideal Concrete Block CO., INC | 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.. Proforming field testing, Methods and Results. Quantitative test for water content. Chlorine in used oil. Used oil and PPM levels 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. Throughtout 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 Stormvault Development and Monitoring 2003 Report | Steve Phelps | Storm Vault | Developing and Montoring Report 2003 . Idealize stormwater Mitigation System, Jensen Precast Stormvault Stormwater Mitigation System. Water Quality Capture Volume sizing, Mean Storm Sizing Methodolgy. Results in field testing. Also is included REFERNCES | Report | www.jensenprecast.com | 6/24/1905 | | | 3.4 | 4.1 | 5.1 | |
| 52 | Contact Directory, Making Every Drop Count | Debbra Strokes-Haglund DRIWATER,INC | DRIWATER | Erosion Control, Agriculture Replants, Mitigation, Revegetation, Reclamation, Award winning project.100-acre Mitigation Planting for Talega Development, Vineyard Planting.User guilde. 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.contect-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 Trashtrap 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. Stenstorm Sim-Lin Lau | Civil and Environmental Engineering Department University of California, Los Angeles | Executive Summary, Introduction, Experimental Methods, Diagramss, 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.rkmfg.com | | | | | 4.1 | 5.1 | |

Town of Wakefield, MA
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| 60 | ULTRA TECH | | ULTRA TECH international, INC. | Catalog of all there products | catalog | www.spillcontainment.com | 2002-2003 | | | | 4.1 | 5.1 | 6.6 |
| 61 | Stormwater Management INC. | | | Treatment Solutions, Filter Media, The storm filter cartridge, Stormgate, Stormfilter | Folder | stowatermgt.com | | | | | 4.1 | 5.1 | |
| 62 | Invisible Structures | | Invisible Structures,INC. | Invisible Structure Partner List, Grass Pave 2, Rain store 3, Slopetime 2, Draincore 2, | Info. Packet | www.invisiblestructures.com | 8/4/2003 | | | | 4.1 | 5.1 | |
| 63 | Soil & Groundwater Sampling Technology Catalog | | AMS | The world's finest Soil and groundwater Sampling Equipment | Catalog | www.ams-samplers.com | 5/17/2001 | | | 3.4 | | | |
| 64 | Total Stormwater Solutions | | Vortechnics | Vortechns Systems, Coparisons, Product Perfornce, Work Sheets | Booklet | vortechnics.com | | | | | 4.1 | | 6.6 |
| 65 | Environmental Sampling Technology | | EST | Reliable Field Services For the Environmental Industry | Pamphlet | www.environmentalsampling.com | | | | 3.4 | | | |
| 66 | STABILATOR Erosion Prevention System | | Water's Edge Technology, LLC | New Product Design For Erosion Control for , Streambank,/ Riverbank Stabilization, Bridge Pier, Channel Stabilization, slope Stabilization, Riverbed / Steambed Stabilization, Outfall Protection . Brochure on Installation, And Product Specifications; | Info. Packet | www.WatersEdgeTechnology.com | | | 2.11 | | 4.1 | | |
| 67 | Hickenbottom Inlet - Intake Products | | Hickenbottom, INC. | General information for Installation inlet - Intake Products, Surface Inlets , Description & Uses, 8" intake Description and use , 10" , 12" , 5" , 6' , .. llet - Intake Capacity charts. | Folder | | | | | 3.4 | | | |
| 68 | Pollution Solution Sediments Control & Storm Drain Filtration | | Pollution Solutions, INC. | Siltsifter , Effective & affordable solutions for a healthier environment , Product Price Sheet, Construction Phase , Controlling Stormwater Pollution, | Folder | | 6/25/1905 | | | | 4.1 | 5.1 | |
| 69 | Pro Bark Incorporated | | | Silt Fence Replacement (Phase II Compliant) , Slope Sabilization , Filtrex , Filtersox , Compost Filter Berms , Ditch Checks , Compost Product Performance | Folder | www.probark.com | | | | | | 4.1 | 5.1 |
| 70 | Getting In Step | | United States Environment Protection Agency | A video guide for conducting watershed outreach campaigns. | Video | www.epa.gov/ncepihom/index.htm | 6/1/2003 | 1.1 | | | | | |
| 71 | Engineering Stormwater Products | | Vortechnics Inc. | Product Literature and Specifications, Technical Bulletins, Testing Data, and News and Reviews | 3 Ring Binder | www.vortechnics.com | Revised: 07/2002 | | | | | 5.1 | |
| 72 | Design Guidelines and Criteria for Stormwater Management | Comprehensive Environmental, Inc. | | Design Criteria for communities, states, engineers, and other who are trying to minimize the impacts of stormwater management systems on the end users. | Booklet | | 11/1/2003 | | | | 4.1 | 5.1 | |
| 73 | EPA Storm Water Permit for Construction Projects | Abby Swaine | EPA | Resources: Massachusetts Edition | Newsletter | | 2/1/2004 | | | | 4.1 | | |
| 74 | Portadam | | Portadam Inc. | The Portadam concept utilizes a steel supporting structure with a continuous reinforced vinyl liner membrane to effectively provide a means of water division, retention or impoundment. | Booklet | www.portadam.com | | | | | 4.1 | 5.1 | |

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| 75 | Aqua Dam: Water-Controlling Water | | Aqua Dam | Stream diversions, flood control, hazardous waste containment, dams, prevention of levee overtopping, silt barriers and temporary water storage are just a few applications of Aqua Dams, an exciting new method of controlling water with water. | Literature | www.aquadam.com | 7/31/2001 | | | | 4.1 | 5.1 | |
| 76 | Hydro-Solutions: Aqua Barrier | | Hydro-Solutions Inc. | Aqua-Barriers are a patented water inflated damming device. | Booklet | www.hyrdologicalsolutions.com | 6/24/1905 | | | | 4.1 | 5.1 | |
| 77 | Low Impact Development Design Strategies: An Integrated Design Approach | DES: Programs and Planning Division | | Site Planning, Hydrology, Distributed IMP Technologies, Erosion and Sediment Control, Public Outreach | Literature | | 6/1/1999 | | | | 4.1 | 5.1 | |
| 78 | Polyflex: Reference Manual | | Poly Flex: Polyethylene Geomembranes | An engineering approach to groundwater protection. | 3 Ring Binder | www.poly-flex.com | | | | | 4.1 | 5.1 | |
| 79 | H.I.L Technology Inc. | | H.I.L Technology Inc. | H.I.L Technology Inc. provides cost-effective solutions for controlling the quantity and improving the quality of water. | 3 Ring Binder | hiltech@hil-tech.com | 6/23/1905 | | | | 4.1 | 5.1 | |
| 80 | Rinker Materials: Product and Technical Information for Stormceptor | | Rinker Materials | The Stormceptor is a stormwater separator the efficiently removes sediment and hydrocarbons from stormwater run-off, and stores the pollutant for safe and easy removal. The versatile Stormceptor product line consists of In-Line, Inlet, Series and Submerged desgins. Unit sizes range from the 450 gallon Inlet Stormceptor to the 16, 000 gallon Series Stormceptor. | 3 Ring Binder and CD | www.rinkerstormceptor.com | 8/1/2003 | | | | | 5.1 | |
| 81 | Product Design Manual | | Stormwater Management Inc. | Stormwater Management is the leading provider of innovative, long-term, stormwater treatment products the help engineers, develops, contractors, and jurisdictional authorities keep our waterways clean. | 3 Ring Binder | www.stormwaterinc.com | 4/1/2002 | | | | | 5.1 | |
| 82 | The Infiltrator Chamber Systems: Technical Manual | | Infiltrator Systems Inc. | The engineer can use units combined with stone for shallow or deep systems that meet any requirement for storage and treatment, require no heavy equipment except a backhoe for installation, and are highly cost effective. | 3 Ring Binder | | 1/1/1994 | | | | | 5.1 | |
| 83 | HMI: Hydro-Seeding and Erosion Control Products Equipment and Acessories | | HMI | See Title | Folder | www.hmi-mfg.com | | | | | 4.1 | 5.1 | |
| 84 | Sediment Control Solutions for All Stormwater Systems and Dewatering Projects | | Dandy Products Inc. | The Dandy Bag, The Beaver Dam, The True Dam, The Dandy Dewatering Bag, The Dandy Pipe Sock | Folder | www.dandyproducts.com | 4/9/2001 | | | | 4.1 | 5.1 | |
| 85 | Geosystems for Soil Containment | TC Mirafi | | Geotubes, Geocontainers, and Geobags | Folder | www.tcmirafi.com | | | | | 4.1 | 5.1 | |
| 86 | GreenfiX America: "Doing What Comes Naturally" | | GreenfiX America | Services, Products, Testing and Properties, Product Selection Guidelines, Installation Instructions | Folder | www.greenfix.com | | | | | 4.1 | 5.1 | |

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|----|---|--|--|---|----------------|--|------------|---------------|--------|--------|--------|--------|--------|
| 87 | How to Create a Stormwater Utility! | City of Chicopee: Pioneer Valley Planning Commission | MASS DEP | Stormwater utilities are proven effective mechanisms for generating revenue to manage stormwater. | Folder | | | file 0027.0.3 | | | | | |
| 88 | Storm Vault | | Jensen Precast | The innovative design of the Stormvault out performs traditional stormwater treatment units which demonstrate various deficiencies in removing pollutants and slowing runoff velocities. | Folder | www.stormvault.com , www.jensenprecast.com | 8/3/2003 | | | | 4.1 | 5.1 | |
| 89 | Kristar: Fossil Filter FloGard- Storm Water Filtration System | | Kristar | Protects drains against storm water runoff pollution from silt, debris, oils and grease, with FloGard catch basin inserts. | Folder | www.kristar.com | | | | | 4.1 | 5.1 | 6.2 |
| 90 | River Morph: Stream Restoration Software | | RIVERMorph LLC | The revolutionary new stream assessment and restoration software that significantly reduces your calculation time. | CD | www.rivermorph.com | 8/17/2002 | | | 3.4 | | | |
| 91 | das Curb Marker | | das Manufacturing Incorporated | The das Curb Marker is used to permanently mark a variety of underground equipment locations including cable routes, valves, test stations, and road crossings. | Literature | www.dasmanufacturing.com | 6/4/2004 | | | 2.3 | | | |
| 92 | Blue Folder: "Drop-In-Drain-Inceptor" | | Robert's Design Inc. | Can be manufactured to fit any basin dimension. Curvature of the S/S frame sheds debris, which negates clogging. Suspension hardware will not impact tires or snowplows. Pillow absorption is unaffected by winter conditions. | Blue Folder | www.stormdrains.com | 11/28/2000 | | | | 4.1 | 5.1 | 6.2 |
| 93 | Pyramat | | Synthetic Industries/ Geosynthetic Products Division | High Performance Turf Reinforcement Mat | Booklet | www.fixsoil.com | | | | | 4.1 | 5.1 | |
| 94 | Environmental Data Resources, Inc. | | Environmental Data Resources, Inc. | Quality environmental information, state-of-the-art technology, and world class customer service. | Folder | www.edrnet.com | | | | 3.4 | | | |
| 95 | Consultants | | Various | Provides services throughout the Commonwealth related to wet land delineations. | Folder | Various | 11/7/2002 | | | | 4.1 | | |
| 96 | Total Stormwater Solutions: Committed to Clean Water- Vortechs System | | Vortechs | Vortechs Systems are custom designed and sized to meet specific water quality objectives; precast models are available to treat flow rate from 1.6 cfs to 25 cfs. Larger design storms are treated using Vortechs Systems that are constructed on site using cast-in-place concrete structures. | Booklet | www.vortechs.com | | | | | 4.1 | 5.1 | |
| 97 | PetroFlag: To Quantitative Field Test Method For Total Petroleum Hydrocarbons in Soil | | Dexsil Corporation | This unique method allows the user to quantify total hydrocarbons in soil from 2000 ppm to above 20,000 ppm while using a 10 gram sample. This method allows for quantification of all hydrocarbons in soil, onsite, without the use of Freon or other chlorinated solvents. | Piece of Paper | www.dexsil.com | | | | 3.4 | | | |

Town of Wakefield, MA
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|-----|---|--------------------------------------|---|---|----------------------|--|------------------|---------------|--------|--------|--------|--------|--------|
| 99 | Land and Water: The Magazine of Natural Resource Management and Resoration | | Land and Water | Addressing Phase II NPDES: Problems Before They Become a Headache | Magazine | | May/June 2002 | file 0027.0.1 | | | | | |
| 100 | Wetlands Protection Act- Regulations 310 CMR 10 00 | | MASS DEP | Relating to the Definition of "Extended Drought" and Distinguishing "Perennial Rivers" From "Intermittent Streams" | Literature | | May 12 2000 | | | 3.4 | | | |
| 101 | Measureable Goals Guidance For Phase II Small MS4s | | EPA | Background and Regulatory Context, Process for Developing Measurable Goals, Examples of BMPs and Associated Measureable Goals, Process for Developing a Storm Water Management Program, and Environmental Indicators. | Literature | | | file 0027.0.1 | | | | | |
| 102 | Illicit Discharge Detection and Elimination Manual: A Handbook for Municipalities | | New England Interstate Water Pollution Control Commission | See Title | Booklet | www.neiwpc.org | 1/1/2003 | | | 3.1 | | | |
| 104 | NPDES Storm Water General Permit Number: MAR041065 | U.S. Environmental Protection Agency | | The letter summarizes the key topics we discussed and provides comments and recommendations concerning the implementation of your SWMP. | Letter | www.epa.gov/region1 | 9/15/2004 | File 0027.0.1 | | | | | |
| 105 | Global Positioning System Coordinates of Lake Quannapowitt Stormdrains, Wakefield, MA | Douglass Heath | Friends of Lake Quannapowitt | Stormdrain ID numbers correspond to those assigned by camp, Dresser McKee Inc, on a map and table published in the August 17, 1989 Wakefield Daily Item. | Piece of Paper | | 3/14/2001 | | | 3.5 | | | |
| 106 | Keeping Soil in Its Place: Article 55 | | Stormwater Center | Sediment Removal Efficiency of Surficial Erosion Controls | Article | www.stormwatercenter.net/Library/Practice_Articles.htm | | | | | 4.1 | 5.1 | |
| 107 | Strengthening Silt Fence: Article 56 | | Stormwater Center | A Summary of Recent Performance Monitoring of Silt Fences | Article | www.stormwatercenter.net/Library/Practice_Articles.htm | | | | | 4.1 | | |
| 108 | Managing the Earth For Environmental and Financial Success | | Stormwater Management | Need to have an open exchange about how we can meet environmental goals while addressing the financial and liability concerns of the construction industry. | Article | | March/April 2002 | File 0027.0.1 | | | | | |
| 109 | Industrial Wastewater | | Mass. Gov | Massachusetts Surface Water Quality Standards | Literature | www.mass.gov | 7/1/2001 | | | 3.4 | | | |
| 110 | Spill Reporting Telephone Number Change MWRA Permit # 33101397 | | Massachusetts Water Resources Authority | (MWRA) has changed the telephone number for contacting. | Memo | | 11/5/2003 | | | | | | 6.6 |
| 112 | EPA Environmental Education: Role of Plants in Water Filtration | | EPA | Experiments can be done to show how a plume of dissolved materials can move through soil and enter a groundwater aquifer. | Childrens Literature | | | 1.1 | | | | | |
| 113 | Excuse Me, Is this the Way to the Drainpipe? | Ellen Frye | | Explain where drinking water comes from and where wastewater goes once it leaves the homes. Explain how the water we use fits into the water cycle. | Childrens Literature | | | 1.1 | | | | | |

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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.toolsofchange.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/en/coolsite.efm | 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 | | 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 | paolini2@primushost.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.html | 4/26/2004 | 1.1 | | | | | |
| 133 | Community Based Approaches: Massachusetts | | U.S. Environmental Protection Agency | Urban Environmental Program, Buzzards Bay, Charles River, Massachusetts Bay, Rummey 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.psiyes.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.cdstech.com | 4/11/2001 | | | | 4.1 | 5.1 | |
| 140 | Diversion of Dry Weather Flows: Protects Our Beaches and Oceans From Harmful Urban 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.cdstech.com | | | | | 4.1 | 5.1 | |
| 141 | Fine Solids Separator | | CDS Technologies | Solids Removal, Applications, Testing Results, CDS Advantages | Literature | www.cdstech.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.cdstech.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 through 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 | | 4/1/1995 | 1.1 | | | | | |

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NPDES Phase II Stormwater Permit**

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|-----|---|-------------------------|--|--|---------------------|--|-------------|--------|--------|--------|--------|--------|--------|
| 146 | Bare Ground Solution Anti-Snow/De-Ice | | Bare Ground Solution | Prevent snow and ice from adhering to the pavement for 10-14 days because of residual reactivation effect. | Literature | burnetts@technobrands.com | 1/1/1998 | | | | 4.1 | 5.1 | 6.5 |
| 147 | Triangular Silt Dike Barrier | | Triangular Silt Dike Co. Inc. | This barrier is a positive solution to many construction site drainage and erosion problems. | Literature | www.tri-silt-dike.com | | | | | 4.1 | | |
| 148 | Permanent Turf Reinforcement Mats | | Western Excelsior Corporation | Stitched Erosion Control Blankets & Turf Reinforcement Mats: Excelsior, Straw, Coconut/Straw, 100% Coconut, Geo-Composites, 100% Synthetic | Booklet | westernexcelsior@fone.net | | | | | 4.1 | 5.1 | |
| 149 | DriWater Time-Release Water: Gel Products and Hydro Mix Tackifier | | DriWater | DriWater will improve the results and reduce the costs of your project. | Literature | www.driwater.com | 8/3/2000 | | | | 4.1 | 5.1 | |
| 150 | GroLife: Mycorrhizal Inoculum/Soil Conditioner | | GroLife | It is a natural product that contains various types of mycorrhizal fungi with an organic soil conditioner. GroLife is effective in any type of soil, helping to create a healthy beneficial environment for plants. | Booklet | www.grolife.com | | | | | 4.1 | 5.1 | |
| 151 | Curlex: Silt Trap | | American Excelsior Company: Earth Science Division | Excelsior Buffer Strip to Capture Sediment Before it Washes off Job Site. | Booklet | www.curlex.com | | | | | 4.1 | | |
| 152 | Wakefield Works: Municipal Stormwater Management Program | | Wakefield D.P.W. | Lawn Care, Septic Systems, Pet Waste, Residential Landscaping, and Commercial Facilities. | Newsletter | | Spring 2004 | 1.1 | | | | | |
| 153 | EnviroBerm: Runoff Control System | | Cascade Geotechnical Inc. | Replaces strawbales and rock ditch checks. | Literature | www.cascade.ab.ca | | | | | 4.1 | 5.1 | |
| 154 | Silt-Saver: A better way to a Cleaner Environment | | Silt-Saver | Its fail-safe design features ease of installation and allows you to exceed existing and pending "Best Management Practices" and physically protect the job site with one revolutionary device. | Booklet | www.siltsaver.com | | | | | 4.1 | | |
| 155 | High Performance Turf Reinforcement Mat | | Pyramat: Earthstopping Solutions | Site Preparation, Seeding, Placement: Banks and Slopes, Placement: Channels, Ground Anchoring Devices, Anchor Pattern Guide, Soil Filling. | Booklet | www.fixsoil.com | | | | | 4.1 | | |
| 156 | Curlex I: The Industry Standard for Most Slope & Channel Protection Needs | | Curlex | It is an erosion control blanket combining their unique, barbed Curlex fiber and a top layer of polypropylene netting. | Literature | www.curlex.com | | | | | 4.1 | | |
| 157 | Introduction to Community-Based Social Marketing | Doug McKenzie-Mohr Ph.D | St. Thomas University | When members of a community adopt healthy habits the community becomes a healthier one. When members use resources wisely the community moves towards sustainability. | Internet Literature | www.toolsofchange.com | 5/26/2004 | 1.1 | | | | | |
| 158 | Drinking Water Bloopers: Embarrassing moments in the life of a water drinker. | | U.S. Environmental Protection Agency | Waiting a week to fix a leak. Taking a shortcut and using the hot water tap when cooking. Slipping used motor oil into a storm sewer or burying it in the trash. Tossing toxics in the trash. Watering your lawn at high noon. Using your garbage disposal all the time. | Internet Literature | www.epa.gov/OGWDW/kids/bloopers.html | 5/26/2004 | 1.1 | | | | | 6.1 |

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|-----|--|---------|--|--|----------------------|--|-----------|----------|--------|--------|--------|--------|--------|
| 159 | Stormceptor: The Leader In Stormwater Quality Treatment | | CSR | Research and Testing, Patented Design and Operation, Lower Life-Cycle Costs, Ease of Maintenance, Pretreatment, and Experience in Manufacturing | Folder | www.csrstormceptor.com | 3/22/2001 | | | | 4.1 | 5.1 | |
| 160 | Nonpoint Source Pollution (NPS) Word Search: Kids Word Search | | EPA | Childrens Word Search | Internet Word Search | www.epa.gov/owow/nps/kids/word.html | 5/26/2004 | 1.1 | | | | | |
| 161 | Engineered Products for Stormwater Treatment | | Vortechnics | It is a highly efficient technology for removal of floating pollutants and settleable solids from surface runoff. | Booklet | www.vortechnics.com | | | | | | 5.1 | |
| 162 | WrapidSeal Manhole Encapsulation System | | CCI Pipeline Services | WrapidSeal's unique heat-shrinkable characteristics are based upon thirty-five years of plastics engineering, as well as sealant and coatings technology developed by Canusa-CPS for the gas and oil pipeline transmission industry. | Letter | ccipipe@earthlink.net | 10/3/2003 | | | | | 5.1 | 6.1 |
| 163 | Dirtbag: Pumped Sediment Removal System | | SI Geosolutions | Whenever accumulated water must be pumped! | Booklet | www.sigeosolutions.com | | | | | 4.1 | | 6.2 |
| 164 | Wakefield Rainfall Information for NPDES | | Town of Wakefield D.P.W. | Information on rainfall: average annual rainfall, maximum annual rainfall, and minimum annual rainfall. | Letter | | 1/30/2004 | 0027.0.1 | | | | | |
| 165 | Landlok Report-An Erosion Control Case Study From Synthetic Industries:Pyramat High Performance TRM Enhances Stormwater Management in Channels | | Synthetic Industries/ Geosynthetic Products Division | Pyramat High Performance TRM Enhances Stormwater Management in Channels | Booklet | www.fixsoil.com | | | | | | | 6.4 |
| 166 | Continuous Deflective Separation (CDS) - Treatment of Storm Water Runoff | | CDS Technologies | (CDS) technology is a non-blocking, non-mechanical screening process uniquely suited to treat storm water runoff. | Letter | www.cdstech.com | 9/24/2003 | | | | | 5.1 | |
| 167 | Straw Wattles: Erosion Control, Stormwater Runoff Control | | California Straw Works | A solution to erosion and sediment control. | Literature | www.strawwattles.com | | | | | 4.1 | | |
| 168 | Protecting Your Hardscape and Landscape Investments | | Bio Barrier | Biobarrier Root Control System protects your hardscapes and landscapes from damage caused by tree and shrub root intrusion. | Booklet | www.reemay.com | | | | | 4.1 | 5.1 | 6.1 |
| 169 | AgroSolutions: Are you concerned about the environmental impact of your erosion control products? | | Cognis | Terra-Control Soil Stabilizer: Environmentally Favorable Erosion Control with Polyvinyl Acetate | Folder | | | | | | 4.1 | 5.1 | 6.1 |
| 170 | Curlex Enforcer, RoadRunner, Silt Trap, Curlex III, Sediment Log | | American Excelsior Company: Earth Science Division | Bio-Composite Soil Reinforcement For Long-Term Protection Against Erosion | Packet | www.curlex.com | | | | | 4.1 | 5.1 | |
| 171 | Meeting Regulatory Requirements for Stormwater Pollution Control | | BaySaver Inc. | The BaySaver Separation System removes free oils, suspended solids and floating debris from stormwater runoff. | Packet | www.BaySaver.com | 2/15/2002 | | | | 4.1 | 5.1 | |
| 172 | An Order of Environmental Publications | | U.S. Environmental Protection Agency (NSCEP) | See Title | Packet | www.epa.gov/ncepihom/ordering.html | 3/29/2004 | 1.1 | | | | | |
| 173 | Control of Oil and Grease In Stormwater Runoff | | CDS Technologies | Oil and Grease Capture and Removal Efficiencies of CDS Stormwater Treatment Units | Piece of Paper | www.cdstech.com | | | | | 4.1 | 5.1 | 6.6 |

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|-----|--|---------|--|--|-------------------------|--|------------------------|----------|--------|--------|--------|--------|--------|
| 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 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/whatudo.html | 5/26/2004 | | | | 4.1 | 5.1 | |
| 178 | Quick Grass Green-Woof 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 | | | | | | 5.1 | |
| 187 | Siltsack | | SI Geosolutions | Catch Basin Sediment apture Device-Keeping cath 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.rkmfg.com | | | | | | 5.1 | |

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|-----|---|---------|-------------------------------------|---|----------------|--|-----------|--------|--------|--------|--------|--------|--------|
| 189 | Geolink | | Petrattech | 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.curlex.com | | | | | 4.1 | 5.1 | |
| 191 | Petraflex | | Petrattech, Inc | Articulated Concrete Revetment 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 Stomwater 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 | | | | | | 4.1 | 5.1 | |
| 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 feffector 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.comwedfibers.com | | | | | 4.1 | 5.1 | |
| 199 | Waterlogs | | Maccaferri Gabions, Inc | | Literature | www.maccaferri-usa.com | | | | | 4.1 | 5.1 | |
| 200 | GeoHay Temporary Sediment-Erosion Control | | Mary 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. | Brochure | | | | | | 4.1 | 5.1 | 6.6 |
| 201 | Gro Power Commerical 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 Agresoil 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@slt.net | | | | | 4.1 | 5.1 | |

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|-----|--|---------|--|--|---------------------|--|------------|----------|--------|--------|--------|--------|--------|
| 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. | Corn 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.canforpfd.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 Millenium. | | 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.curlex.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@fon.e.net | | | | | 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 | | Micheal Collins | Various Meeting Notes | Collection of Notes | | | 0027.0.1 | | | | | |
| 217 | Stormwater and the Construction Industry | | EPA | Maintain Your BMPs!!! | Poster | www.epa.gov/npdes/menuofbmps | | 1.3 | | | | | |
| 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 (SWMP) | 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 | |

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| 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.terrano.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 | | Little CD | www.cdstech.com | 1/1/2002 | | | | 4.1 | 5.1 | |
| 226 | Come Rain, We Shine CD | | Stormwater Management Inc. | | CD | www.stormwaterince.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 Sciene 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 | Intrepreting 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.WatersEdgeTechnology.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 |

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| 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 Assesment 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 | Kevin Lenahan | 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 | | Filtrexx International | | CD | | 9/1/2003 | | | | | | |
| 246 | Site Solution Force | | ACF Environmental | Your Source For Environmental BMP's & SWPPP CADD Files | CD | www.acfenvironmental.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 | UltraTech International Inc. | | CD | www.stormwater.products.com | | | | | | 5.1 | 6.1 |
| 249 | A World In Our Backyard | | New England Interstate Water Pollution Control Commission | A Wetlands Education and Stewardship Program | Video | | 1/1/1993 | 1.1 | | | | | |
| 250 | Around the Cracker Barrel | | | Pleasure Island | Video | | 1/31/2003 | 1.1 | | | | | |
| 251 | Storm Stories: "After the Storm" | | Weather Channel | | Video | | 2/4/2004 | 1.6 | | | | | |
| 252 | Pay As You Throw | | EPA | A New Trend In Substainable Solid Waste Management | Video | www.epa.gov/payt | | | | | 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 makrking 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 ditrs for biodiversity conservation in your area | Brochure | www.nhesp.org | | 0027.0.1 | | | | | |
| 258 | 2005 Household Hazardous Waste Colletion 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. Delaney | | 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 McMahan, Karen M Beaulieu | | During August 2000, responses of biological communities(invertebrates, fish, and algae), physical habitat, and water chemistry to urban | Literature | | | | | | | | 6.11 |

| | 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, hve very different biological nad 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 invetsigating 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 | | Ameican Watr Works Association | Eroded soil at construction sites can pollute rivers, streams and lakes via stormwater runoff. One way to heklp 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 Aseessments | 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 callaborative efforts by Towns on developing a stormwater by-law | printout | wendy@nsrwa.org | 4/24/2006 | | | 3.8 | | | |

SECTION V

ACTIVITIES FOR THE NEXT REPORTING CYCLE

The activities planned for the next NPDES reporting cycle (May 1, 2007 through April 30, 2008) are shown on the charts following this page.

The activities during this period will conclude with an Annual Report submittal covering Permit Year Five by May 1, 2008.

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WAKEFIELD, MA NPDES STORMWATER PHASE II PERMIT

ANNUAL REPORT COVERING MAY 2006 through APRIL 2007

SECTION V. ACTIVITIES FOR NEXT REPORTING CYCLE

PERMIT YEAR FIVE

| | Spring 07 | Summer 07 | Fall 07 | Winter 07-08 | BRIEF DESCRIPTION OF ACTIVITY |
|---------------------|--------------|--------------|------------|-----------------|--|
| | X | | | | Press release in local paper describing program and inviting residents to a Stormwater Forum |
| Article | | | X | | Stormwater article will be included in at least one of the two annual DPW newsletters |
| | X | | | | Further fact sheet development as needed |
| Each | X | | | | Planned for, advertising in local paper for citizen participation |
| | X | | | | Planned for, advertising in local paper for citizen participation |
| | X | | | | Poster and kiosk will be at library late spring-2007 |
| Waste Day (1/year) | X | | X | | Planned for Spring and Fall each year |
| | | | | | Watershed signage installed throughout the town |
| Participation | X | | | | Planned for advertising for citizen participation |
| (year) | X | | X | | Planned for Spring and Fall each year |
| | | | | | Volunteers sought under 1.11 and 1.12, above |
| (rs) | | X | | X | Two meetings will be conducted with the town NPDES steering committee |
| Workshop | | | | X | Annual Stormwater Forum will be conducted, invite is part of press release in local paper |
| Materials | | | | | |
|) | X | | | | Stormwater article will be included in at least one of the two annual DPW newsletters |
| ss) | | | | | Brochure will be modified and sent to residents and businesses |
| st-A-Stream Program | | | | | Program will be implemented and tracked for achievement |
| n & Elimination | | | | | |
| it Discharges | | | | | Field investigations, sampling and testing will continue as suspect locations are found |
| charges | | | | | If any locations are found will be added to Town electronic mapping / GIS system |
| ving Waters | | | | | Receiving water observations and sampling testing will continue |

| WAKEFIELD, MA NPDES STORMWATER PHASE II PERMIT | | | | | |
|---|----------------------|----------------------|--------------------|-------------------------|---|
| ANNUAL REPORT COVERING MAY 2006 through APRIL 2007 | | | | | |
| SECTION V. ACTIVITIES FOR NEXT REPORTING CYCLE | | | | | |
| PERMIT YEAR FIVE | | | | | |
| | Spring 07 | Summer 07 | Fall 07 | Winter 07-08 | BRIEF DESCRIPTION OF ACTIVITY |
| | | | | | Mapping of trunk drains, then tributary drains to trunks will continue. This information being added to Town mapping / GIS system |
| | | | | | DPW investigate possible sources |
| Control | | | | | |
| ment & Enforce | | | | | Propose By-Law at Town Meeting for vote in FY08 |
| ff Control | | | | | |
| force | | | | | Propose By-Law at Town Meeting for vote in FY08 |
| od Housekeeping | | | | | |
| , Guidelines & Training | | D | | | Review and revise as needed |
| elines | | I | | | Ensure guidelines followed, update if needed |
| es | | I | | | Ensure guidelines followed, update if needed |
| els Guidelines | | I | | | DPW working through Conservation Commission and Adopt-A-Stream Program to maintain rivers and channels |
| aders Guidelines | | I | | | Ensure guidelines followed, update if needed |
| 1 Guidelines | | I | | | Ensure guidelines followed, update if needed |
| m | | | | | As needed |
| mmended Use Guidelines | | I | | | Ensure guidelines followed, update if needed |
| y & Waterbodies | | I | | | Results of work under BMP above provides this information |
| ischarges | | D | | | Results of work under BMP above provides this information |
| oring Program | | D | | | Ongoing DPW activity at Municipal Facilities |
| | | | | | |
| | | | | | |
| | | | | | |

SECTION VI.

CHANGES IN IDENTIFIED BMP'S OR MEASURABLE GOALS

At the time of preparing this annual report for Permit Year Four (May 1, 2006 through April 30, 2007) 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.

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.