Town of Colchester

2012 Annual Report for:

General Permit 3-9014
National Pollutant Discharge Elimination System (NPDES)
Number: VTR040000

For:

Storm Water Discharges From Small Municipal Separate Storm Sewer Systems (MS4's)

Submitted to:

Vermont Agency of Natural Resources
Department of Environmental Conservation
Water Quality Division, Storm Water Management Program
103 South Main Street, Building 10 North
Waterbury, Vermont 05671-0408

Submitted by:

Town of Colchester
P.O. Box 55, 781 Blakely Road
Colchester, Vermont 05446

Date Submitted:

March 14, 2013

TOWN OF COLCHESTER
GENERAL PERMIT 3-9014
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
NUMBER: VTR040000

2012 ANNUAL REPORT

Section 4.2.1

Public Education and Outreach on Storm Water Impacts

The Town of Colchester has participated throughout 2012 in the Regional Storm Water Education Program, (RSEP) along with other MS4 communities from Chittenden County. Activities as identified in the MOU contained in the Town's NOI and application have been successfully completed, and are more specifically outlined in the Chittenden County Regional Storm Water Educational Program, Annual Review: 2012 Program Summary, Prepared by Marketing Partners, Inc.

The Town has also developed a storm water web site, which displays a variety of storm water related information, including the Town's MS4 Permit Plan. The information can be viewed at www.colchestervt.gov/PublicWorks/Stormwater.shtml.

Section 4.2.2

Public Involvement and Participation

1. *Citizen volunteers established to complete stenciling of the second 50% of the storm water structures within the MS4 designated areas.* – The Town of Colchester, working with volunteers from the community, completed an extensive stenciling program during the summer of 2004. Residents from the Hidden Oaks sub-division in Colchester worked with the Department of Public Works to stencil approximately 800, or about 98% of all storm water structures throughout the community. The Department purchased the necessary equipment and materials to perform the work, which was completed primarily through the use of curb markers. Actual stenciling on the pavement was used where no curbs existed. The volunteers included several young children from residential neighborhoods. Training, supervision and a general education on good water resource management was provided by the Town. The efforts received media coverage through the local new papers. This accomplished all of the required work under this activity for years two and three of the permit. In 2006, the last two remaining sub-divisions that had not yet been stenciled were completed by high school students as a school project. Regular inspection accomplished through basin cleaning, street sweeping and regular travel on the transportation system revealed that only a limited number of curb markers required replacement.

These were done by DPW crews as they were identified. However, in 2007 a Cub Scout volunteer did assist the Town with these efforts.

At this point, regular inspections are concluding that many of the markers and stenciling now need to be replaced or updated. To continue addressing this need, the Town has formed a partnership with both the Boy Scouts and Cub Scouts in Colchester. Building on the Boy Scouts of America, "Leave No Trace" program, the partnership intends to work toward annual stenciling of the Town's storm water basins as part of their regular and ongoing curriculum. While stenciling is being done in each neighborhood, other scouts focus on distributing educational materials regarding their efforts as well as other storm water related issues. These materials also serve to direct citizens to the RSEP web site for further information. The Town provides all materials including program training for the scouts. Training materials have included products from RSEP as well as a stenciling training video developed by the Colchester Public Works Department. This video may be viewed on the storm water page of the department's web site. Select; "Education" and then; "Catch Basin Stenciling". The goal is to develop a long term relationship of public involvement and participation, and more importantly, involve younger citizens to more effectively create an improved and sustainable understanding of storm water related issues within our community. During the summer of 2012, the Scouts stenciled a total of 243 catch basins throughout the community.

2. *Citizen volunteers established to participate in a stream corridor clean-up day and complete clean-up of 40% of Sunderland Brook* – In 2004, the Town of Colchester was able to secure funding through the Chittenden Solid Waste District, under the District's Community Cleanup Fund, to retain a consultant to perform field reconnaissance of the Sunderland Watershed. This effort resulted in the identification and inventorying of nine (9) illegal dumping sites within the watershed. All information was collected in GIS format and mapped for future clean up efforts.

   From 2004 – 2006, the Town cleaned up six of the nine sites as described in previous annual reports, much of which involved the use of citizen volunteers. The sites that were cleaned up included sites A-1, A-2, A-3, A-4, J-1 and J-3 as identified in the 2004 field reconnaissance. In 2008, the Town focused on the three remaining dump sites. It was discovered that site J-2 had already been cleaned up and restored by others. The Town with its own forces cleaned up sites A-5 and J-4 using Local Community Implementation Grant funds awarded to the Town by the VDEC. Of the nine sites identified through the 2004 field reconnaissance, all sites have now been cleaned up with volunteer assistance through the first six years of the MS4 Program. Similar to the Town's stenciling program, volunteers in some cases included children supervised by adults, with their efforts published in the local news papers.

3. *Citizen Volunteer Green Day* Activities - The Town has a significant volunteer base who regularly participates in activities aimed at preserving the community's abundant natural resources. During Green Up Day, a total of 261 Colchester citizens participated in cleanup activities filling 750 trash bags. At the annual Green Up day picnic, the Town served the volunteers over 100 hotdogs. In total, Colchester citizens removed 3.95 tons of trash and 321 tires.

4. *Storm Water Watch Groups established within 100% of the sub-watersheds located within the MS4 designated areas* – The Town has previously identified and mapped all eleven sub-watersheds within Colchester. This past summer, the services of three additional community volunteers were secured to serve on our watershed watch groups. This brings the total number of volunteers serving in this capacity to fifteen. The volunteers live in a total of eleven different sub-watersheds, resulting in 100% coverage. Initial educational materials were provided to each of the volunteers to help them understand the types of conditions that can contribute to water quality problems. Information is periodically sent to them on an as needed basis. Future efforts will include using the existing storm water watch group network to solicit the participation of additional citizens to serve in this capacity.

5. *Rain Barrel Workshop.* – The Town's seven member Conservation Commission sponsored a Do-it-Yourself Rain Barrel Workshop in April in cooperation with the Winooski Natural Resources Conservation District and the Colchester Department of Public Works. In addition to building their own rain barrels for home use, the 19 participants received information on how rain barrels help conserve water, save money and protect waterways.

6. *Rain Garden Construction* – The Town's Conservation Commission also partnered with the Colchester Public Works Department on the design and construction of a rain garden along the Holy Cross Road bike path. The garden was designed by Colchester resident and landscape architect Paul Simon. Ten volunteers, including several Commission members, worked a total of 33 hours planting 16 different species of plants in the garden.

7. *Citizen Leaf Collection* – In November, 2012, the Town held a citizen leaf collection weekend. A total of 98.88 tons of leaves were collected and dropped off at Airport Park by residents and then hauled away by the Chittenden Solid Waste District to Green Mountain Compost in Williston to be turned into compost for sale.

Section 4.2.3 Illicit Discharge Detection and Elimination

1. *Update storm water system base map as required* – This activity will be an ongoing process for the Town as additional development and associated storm water infrastructure is added. To maintain this data base, a three tiered approach has been developed to document 1) existing storm water infrastructure, 2) additional storm water infrastructure added through the Town's maintenance efforts and/or capital improvement projects, and 3) additional storm water infrastructure associated with new development.

   Existing Storm Water Infrastructure - The Town has been the recipient of a $1.5 million EPA Demonstration Grant. One of the many activities contained within the scope of work is a comprehensive update of the Town's storm water system mapping. This work is now completed and can be viewed on the Town's project website at ~~www.colchesterwaters.net.~~ colchestervt.gov

   Future Town Installed Storm Water Infrastructure - The Department of Public Works continues to move toward additional in house GIS capabilities. In support of this approach, the Town has added two additional GIS Arc View work stations within the Public Works Department., and has obtained GPS data collection equipment. Under the previously mentioned EPA Demonstration Grant, the Town has recently purchased a software package that will provide a GIS based Asset Management Program to further enhance the Town's abilities to perform future mapping updates of its storm water system.

   Future Developer Installed Storm Water Infrastructure - The Town has approved amendments to its Sub-division regulations to require that developers provide the Town with as-built information associated with new development, in digital form.

2. *Develop and implement an Illicit Discharge Ordinance* – The Town has developed and implemented an Illicit Discharge Ordinance. The ordinance regulates the contribution of pollutants to the MS4 from storm water discharges by any user, prohibits illicit connections and discharges to the MS4, and establishes legal authority to carry out the IDDE Plan, including conducting inspections, monitoring, and enforcement procedures to ensure compliance with the ordinance. The ordinance was adopted by the Colchester Select Board on July 26, 2005.

3. *Perform inspection of all storm water outfalls within the MS4 designated area, and sample all outfalls with dry weather flows.* – The Town completed inspections of all permitted outfalls with reporting requirements as identified within the Town's IDDE Plan, and outfalls identified in an Outfall Reconnaissance Inventory completed for the Town of Colchester, by the Department of Environmental Conservation in March of 2006. A total of 34 storm

water outfalls were inspected. Testing included the *E-coli,* use of optical brighteners, as well as testing for pH.

4. *Identify any illicit discharges and take the appropriate actions to correct all illicit discharges detected.* – While no illicit discharges were detected as part of the outfall inspections conducted in 2012, the Town did identify one illicit discharge through a report filed with the Town by a Septic Contractor. While responding to a complaint from a property located on Hercules Drive in Colchester that their sewer lateral was plugged, the jetting of the lateral revealed that the pipe was discharging to a roadside drainage swale. The Town immediately issued an Emergency Health Order and ordered the water to be shut off to the building until the lateral could be repaired. The Town is continuing to work with the property owner on this issue.

5. *Update training for public employees as a part of the Town's program for Pollution Prevention and Good Housekeeping.* – On September 27, 2012, the Colchester Public Works employees received training at the Municipal Employees MS4 Training Workshop.

6. *Provide updated educational materials to the Colchester Community Development Corporation for distribution to the business community.* – Educational brochures developed for local businesses were distributed through the Town's Community Development Office. Approximately 130 brochures were provided for distribution.

7. *Accomplish additional educational outreach as outlined in Section 4.2.2.2.3* – The Town has accomplished additional educational outreach through the development and implementation of a storm drain stenciling program, stream corridor clean up initiatives, and the establishment of citizen storm water watch groups.

8. *Document all actions.* – The Town has established files to maintain all documents relating to the management of illicit discharges. A complaint system has also been established to receive citizen complaints through a storm water hotline. The hotline is posted on the Town's web site. There were no calls recorded in 2012.

Section 4.2.4

Construction Site Storm Water Runoff Control

1. *Conduct plan review for all land disturbances requiring permits under Planning and Zoning* – The Town continues to perform plan review of all projects involving land disturbance as a part of the site plan review process and the issuance of building permits. In 2012, the Town reviewed and issued permits for a total of 642 projects involving land disturbances.

2. *Inspect all locally permitted projects causing land disturbance for compliance to local erosion control ordinance, and take appropriate actions, including enforcement for violations. Report any suspected violations to ANR.* – In 2012, Town inspectors performed 1,466 site visits associated with 642 permitted projects involving land disturbances to ensure compliance to local erosion control ordinances.

Section 4.2.5

Post-Construction Storm Water Management in New Development and Redevelopment.

1. *Conduct development review process for all land disturbances requiring permits and require the appropriate post-construction storm water controls.* - The Town continues to perform plan review of all projects involving land disturbance as a part of the site plan review process and the issuance of building permits. In 2012, the Town reviewed and issued permits for a total of 642 projects involving land disturbances. Projects were required to conform to the Town's storm water regulations.

2. *Attach O&M permit conditions to approvals for all land disturbances that are not taken under public ownership* – All permit conditions associated with projects involving land disturbance are included in the approved Findings of Fact and Order approved by the Development Review Board. This document becomes the instrument for enforcing the Board's approval.

3. *Perform inspection activities as outlined in Section 4.2.5.2.3 and report any suspected violations to the appropriate jurisdiction.* - In 2012, Town inspectors performed 1,466 site visits associated with 642 permitted projects involving land disturbances to ensure compliance to local erosion control ordinances.

Section 4.2.6

Pollution Prevention/Good Housekeeping for Municipal Operations

1. *Maintain the improvements and procedures outlined in the MCAP program* – On September 19.2010, John Daly, Environmental Assistance Specialist within the Vermont Department of Environmental Conservation, conducted an inspection of the Town's Public Works Maintenance Facility. The Town is in compliance with each of the Direct Compliance Issues identified in the report. Spent diesel and gas

fuel filters are being disposed of as outlined. The Town discontinued the use of clay absorbents several years ago. The Town has previously tested its sand blast waste for heavy metals with negative results. No changes in procedures or materials have been made since that time. Debris from both street sweeping and catch basin cleaning is currently being stored on site at the maintenance facility. The charges from landfills to accept the material as cover material have become cost prohibitive. Subsequently, the Town has had these materials tested and determined that they can be safely disposed of at alternative sites.

3. *Maintain the improvements and procedures outlined in the Multi-Sector General Permit for the Town's Public Works Maintenance Facility* – The Town currently understands from the VANR Legal Council that MSGP's are not required for Public Works Garages. The Town has however completed several improvements which would be required under a MSGP if one were required. These include the covering of construction materials such as asphalt, manhole frames and covers, and scrap metal. The sand blasting area has been paved to facilitate the clean up of the waste material after each occurrence. A holding tank has been installed which is connected to the floor drains within the maintenance facility to capture wash water associated with cleaning equipment. The waste water is periodically removed and discharged into the Town's municipal sewer system. Voters of Colchester previously approved bonds to allow improvements to several Town buildings, including $750,000 for the Public Works maintenance Facility. As a part of this project, a 3,720 square foot cold storage facility has been constructed, allowing much of the Town's equipment and construction materials to be placed under cover. This project also included the replacement of an aging salt storage facility.

3. *Maintain operation and maintenance program as identified in Section 4.2.6.2.1* – The maintenance program as identified in Section 4.2.6.2.1 reflects the Town's standard operating procedures and basic maintenance requirements within the community. Current and future budget plans reflect a continuation of these activities.

4. *Conduct employee training as specified in Section 4.2.6.2.1* – In September 27, 2012, the Colchester Public Works employees received training at the Municipal Employees MS4 Training Workshop.

Section 4.2.1

Public Education and Outreach on Storm Water Impacts

Attachments:

1. Regional Storm Water Educational Program – 2012 Recap of Public Education and Outreach Activities.
2. Invoice and payment of 2012 RSEP contribution.
3. Public Works storm water web page.

Chittenden County Regional Stormwater Educational Program
Annual Review: 2012- 2013 Program Year Summary

The 2012-2013 program year (March 1, 2012 through February 28, 2013) of the Regional Stormwater Educational Program (RSEP) maintained a consistent stream of public education and outreach. This year's program focused on using paid media and a drive to website to educate the public about the effects of stormwater runoff on water bodies and the simple steps that the public can take to reduce these effects.

As in previous years, key messages of the campaign have remained the same, and include stormwater runoff and stormwater systems education, and tips on prevention methods related to fertilizer/chemicals. The focus of this program year was to reduce fertilizer use and runoff through the use of soil testing to determine if fertilizer was needed.

Marketing Partners, Inc. continues to work on a contract basis with RSEP to implement the public outreach campaign. RSEP Communications Plan goals achieved in 2012-2013 have included:

- The 2012 program year spring media campaign. The media campaign included four weeks of radio spots on VPR, WCPV, and WEZF; four weeks of cable TV spots in the Chittenden County area; four weeks of spots during local news on broadcast TV; print ads in member community newspapers; and three weeks of advertising on Front Porch Forum (an opt-in community e-newsletter). The spring 2012 media expenditure totaled $19,766 (approximately the same spending as spring 2011).
- The Fall 2012 media campaign. Another paid media campaign was completed throughout Chittenden County in fall of 2012 that consisted of two weeks of print ads in member community newspapers; two weeks of radio spots on VPR, WCPV, and WEZF; two weeks of cable TV spots in the Chittenden County area; and two weeks of placement on Front Porch Forum. Broadcast television was eliminated to increase online sponsorships. The fall 2012 ad campaign budget totaled $10,000. This also was approximately the same budget for fall media compared to fall 2011.
- Extension of the "Soil Test" campaign in partnership with the University of Vermont (UVM) Agricultural Testing Lab to provide residents within the MS4 a free soil test. The ad campaigns drove people to the RSEP website where 226 eligible residents downloaded a printable coupon during this program year. UVM continues to track the number of coupons redeemed during paid media campaigns running in the spring and fall. Thirty-nine tests were submitted (an increase of three over 2011-2012).
- Increased website traffic to the soil test page by more than 36% to 803 visits (although overall website visits remained steady).
- Continued compiling of website visibility tracking data and coupon download and redemptions in order to monitor outreach effectiveness.

Gross Impressions/Audience Reach, 20111-2012 Program Year Summary
Chittenden County Regional Stormwater Educational Program

1. Unpaid Media (Public Relations)

Program year 2012-2013 did not include any public relations efforts. The Champlain Water District *Water Quality Report 2012* included a reference to RSEP for stormwater mitigation information.

2. Total Paid Media Impressions, 2012 (Spring and Fall campaigns)

The 2012-2013 paid media budget was $31,000 with $29,766 expended, the same as the prior year. The same media strategies of increased online sponsorship in addition to commercial advertising were used with increased frequency through online sponsorships. This year's paid media schedule resulted in an increase of 17% in gross impressions, as delineated below:

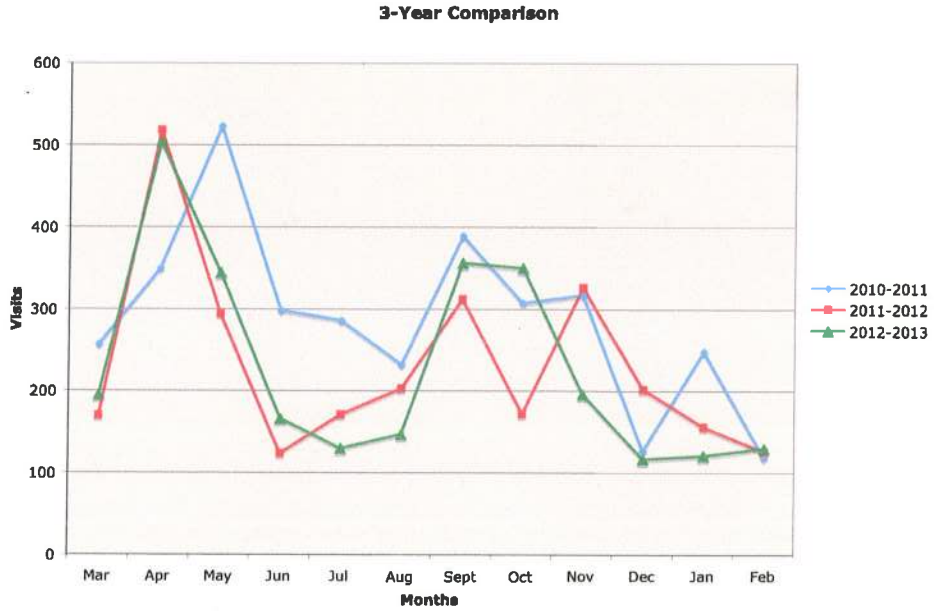
Print:	1,325,832*
Broadcast TV:	90,840 *(Nielsen households using television, Chittenden County, program ratings)*
Cable TV:	77,220 *(Nielsen program ratings by cable market penetration)*
Radio:	383,912 *(based on Arbitron ratings of adult listeners in Chittenden County, M-F 6a – 7p)*
Online:	234,000 *(based on circulation reported by media outlet)*
Total gross impressions: 2,111,804	

**Impressions are based on circulation as reported by outlet and an average readership of 2.34 per issue for community newspapers. An impression is a measure of the number of times an ad is displayed*

3. Website

Below is the website visitor information for 2012-2013, as compared to the three most recent preceding years. The program year had 2,756 visits, about the same number of visits as 2011-2012; ~~however, page views per visit and time on site increased.~~ Website traffic increases/spikes are in conjunction with paid media campaigns.

Smartwaterways.org Website Visits



NOTE: Data from Google Analytics for www.smartwaterways.org.

Regional Stormwater Education Program

110 West Canal Street
Suite 202
Winooksi, VT 05404

Invoice

Date	Invoice #
7/15/2012	43

Bill To
Mr. Brian Osborne Director of Public Works Town of Colchester PO Box 55 Colchester, VT 05468

P.O. No.	Terms	Project
	Due on receipt	

Quantity	Description	Rate	Amount
1	Regional Stormwater Education Program, Year 10	5,000.00	5,000.00
	1000434 — 480015		
		Total	$5,000.00

[an error occurred while processing this directive]

Town of Colchester, VT - Public Works Department

781 Blakely Rd., PO Box 55, Colchester, VT 05446
(802) 264-5620 8:00 am -5:00 pm Mon.-Fri.

March 7, 2013

Town Departments | Public Works Home | Volunteer Opportunities | Meet the Director

- Capital Improvements
- Data Collection
- Education
- Maintenance
- Ordinance
- Permits
- Public Involvement
- Reports
- Stormwater Plans

Stormwater Hotline: 264-5628
stormwater@colchestervt.gov

Regional Stormwater Education Program Member

SMART Water Ways
Add Up to Cleaner Water

Welcome to the Stormwater Page

The Town of Colchester is rich in natural resources.There are approximately 30 miles of shoreline on Lake Champlain, while the arms of Malletts Bay surround almost 10 square miles of the lake. The Town's southern border has about 9 miles of frontage on the Winooski river, and the northwestern border has about 3 miles of frontage on the Lamoille River. Inland from the lake lies Colchester Pond, a 186 acre water body. With 165 mapped wetlands, comprising a total of 3,066 acres, and many unmapped wetlands, Colchester has one of the most diversified and valuable collections of habitats in Vermont. For these reasons and many more, Colchester has made water quality a priority for many years. In keeping with these priorities, the Colchester Public Works Department has focused substantial resources on managing stormwater runoff within the community.

What is Stormwater Runoff?

Why is Stormwater Runoff a Problem?

Why and how to manage Stormwater?

Section 4.2.2

Public Involvement and Participation

Attachments:

1. Stenciling Project
2. Information and records relating to Green Up Day
3. Storm Water Watch Groups
4. Rain Barrel Workshop
5. Rain Garden Construction
6. Leaf Collection

Rockstar nutritionist Jill Jayne, MS, RD, toured Colchester's elementary schools on Friday, including a visit to Porters Po School, for a live performance of her nutrition-themed rock n' roll show, Jump With Jill, which incorporates nutrition-them lessons with interactive media. See more photos on page 16.

Photo by Oliver Pa

Graffiti with a message

Boy Scouts use stencils to help keep lake clean

By ELSIE LYNN
The Colchester Sun

A couple of weeks ago, Boy Scouts from Troop 658 were armed with white spray paint and were scouring the town of Colchester looking for storm drain covers on which to spray their message.

But there was no mischief involved. Rather their message was earnest and straightforward: "NO DUMPING, DRAINS TO LAKE."

Decked out in safety goggles and reflective vests and equipped with stencils to spell out their message, the six Scouts and three leaders spent most all of Saturday, May 12, spray-painting close to 85 basins throughout the community — all while working under the direction of the Colchester Public Works Department.

"It's important to remember that what goes into the storm drains goes directly into the lake," noted Colchester Public Works director Bryan Osborne.

In a recent effort to help educate the public about keeping catch basins and storm water drains clean, members of Troop 658, consisting of Boy Scouts primarily from Colchester and Burlington, participated in the stenciling project and distributed educational materials to local residents.

Scouts learned about the difference between storm water and wastewater in a prior Scout meeting. They saw training videos and learned simple techniques to prevent contaminated storm water from entering into the drains and into Lake Champlain.

> "I want people to know catch basins are not garbage cans, and the stuff goes straight to the lake. I don't want the lake to have a bunch of trash and gross, yucky stuff in it."
>
> Cub Scout Will Belluche

The Town of Colchester is a member of the Chittenden County Regional Stormwater Program, (RSEP). RSEP was formed in 2003 to encourage area residents to get personally involved in reducing storm water pollution in Lake Champlain, and to also raise awareness and encourage positive behavior in residents.

"Providing educational opportunities to younger generations is critical to changing the social behavior of future generations," said Osborne. "When I thought about the energy, dedication and focus of the Boy Scouts, I knew they would be a great partner."

Will Belluche, a 9-year-old Cub Scout, joined his older Boy Scout brother to help stencil.

"I want people to know catch basins are not garbage cans, and the stuff goes straight to the lake. I don't want the lake to have a bunch of trash and gross, yucky stuff in it," said Belluche.

The stenciling of storm water catch basins is an ongoing effort. The Public Works Department maintains approximately 2,500 basins throughout the community.

"We are hopeful that our partnership with the Boy Scouts will continue into future years," said Osborne. "As expected, they did an excellent job."

Boy Scouts from Troop 658 prepare to paint stencils near catch basins in Colchester on May 12. Pictured from left to right are: Nate Belluche, Al Belluche, Colyn Hutchings, Will Belluche, Nick Bouffard, Adam Hoagland, Gary Coryer and William Coryer.

Photo contributed

'Full m

Dubie, guard co the fal

By JASON STARR
The Colchester Sun

Lest one forgets Me simply the unofficial start from work or school and grill, the Vermont Nationa ceremony last week that g national remembrance of war.

Family members of V post-Sept. 11 battles joi leader Maj. Gen. Mich national guard members 40th Army Band on Thu Fallen Heroes Memorial poignant speech by Dubie and the booming of canno ceremony.

Within the half-moon Fallen Heroes Memorial reminders of the reason observed — 14 plaques Vermont National Guar since the wars in Afghani

Guard show

By JASON STARR
The Colchester Sun

The Vermont Nati upgraded quarters for retiree services teams at C

The guard showed of of additions and renovatio and retention building" space is one of two loc where military retirees identification cards and about medical and family is the Vermont Air Gua South Burlington.

The addition will alsc stop for potential new Vermont National Guard. floor-to-ceiling windows

Bryan Osborne

From: Aaron Frank <afrank@cctaride.org>
Sent: Monday, March 04, 2013 9:47 AM
To: Bryan Osborne
Cc: Kate/Al Belluche
Subject: Re: Colchester Catch Basin Stenciling

Bryan,

We took the boys camping this weekend. They were talking about boating, swimming and lake water quality, and storm drains. This volunteer work provided for a much better understanding of the water cycle and its effect on the water we swim in and drink.

Aaron

On Mon, Mar 4, 2013 at 9:36 AM, Bryan Osborne <bosborne@colchestervt.gov> wrote:

Al. Got the maps this morning. Thanks for dropping them off. The boys did an incredible job and I hope that it was a worthwhile experience for them that they had some fun with. It would be great to continue these efforts later this summer if there is interest. I will contact you later this summer. Again, thank you for all of your help and please extend the Town's appreciation to all of the boys and all those involved for a job well done.

Thanks, Bryan

Bryan K. Osborne

Director of Public Works

Town of Colchester

P.O. Box 55, Colchester, Vt. 05446

Tel. (802) 264-5625

e-mail bosborne@colchestervt.gov

From: Kate/Al Belluche [mailto:akbelluche@aol.com]
Sent: Saturday, March 02, 2013 6:41 PM
To: bosborne@colchestervt.gov
Subject: Re: Colchester Catch Basin Stenciling

Hi Brian,

I dropped the maps off and put them in the drop box Friday afternoon

My quick estimate was around 240 catchbasins.

Al

-----Original Message-----
From: Bryan Osborne <bosborne@colchestervt.gov>
To: 'Kate/Al Belluche' <akbelluche@aol.com>
Cc: alfred.s.belluche.mil <alfred.s.belluche.mil@mail.mil>
Sent: Fri, Mar 1, 2013 9:18 am
Subject: RE: Colchester Catch Basin Stenciling

Al. That would work fine. I had forgotten about the drop box. The Town Clerk advised me that it is checked daily.

Thanks, Bryan

From: Kate/Al Belluche [mailto:akbelluche@aol.com]
Sent: Thursday, February 28, 2013 9:31 PM
To: bosborne@colchestervt.gov
Cc: alfred.s.belluche.mil@mail.mil
Subject: Re: Colchester Catch Basin Stenciling

Hi Brian,

Can I leave it in the Drop box outside the town offices? I almost left it in that box today but was not sure who/how it got checked. If not I will drop off at police dispatch and will tell you when I do.

FYI, I check my work email, in the cc line throught the day so please reply all. Thanks.

Al

-----Original Message-----
From: bosborne <bosborne@colchestervt.gov>
To: Kate/Al Belluche <akbelluche@aol.com>
Sent: Thu, Feb 28, 2013 6:47 am
Subject: Re: Colchester Catch Basin Stenciling

Al. The garage closes at 3:00pm and the town officies close at 5:00pm. Neither have doors you would be able to slide anything under. If you can tell me what day you are coming I will stay after work to wait for you. Alternatively you can leave it with dispatch at the police department which is open 24/7. Just let me know where and when you are going to drop it off so I can make sure I get it.
Thanks Bryan

Sent from my Verizon Wireless 4G LTE Smartphone

----- Reply message -----
From: "Kate/Al Belluche" <akbelluche@aol.com>
To: <bosborne@colchestervt.gov>
Cc: <aaron_a_frank@yahoo.com>, <alfred.s.belluche.mil@mail.mil>
Subject: Colchester Catch Basin Stenciling
Date: Wed, Feb 27, 2013 8:49 pm

Hi Brian,

I can drop off the maps to the building. It will likley be aroud 5:30 pm Thursday or Friday. I will put them in an envelope with your name on it and try to find a door to slide them under if the garage is closed when I come by.

Does this work for you?

Al

Aaron, thanks for the reminder, Bryan asked a while ago and I never made the time for it.

-----Original Message-----
From: roman pride <aaron_a_frank@yahoo.com>
To: akbelluche <akbelluche@aol.com>
Cc: Bryan Osborne <bosborne@colchestervt.gov>
Sent: Wed, Feb 27, 2013 9:34 am
Subject: Colchester Catch Basin Stenciling

Hi Al,

Bryan Osborne from Colchester Public Works contacted me regarding the maps of where we placed the stencils. The Town is working or a report on educational activities and Bryan needs to include our work in that report.

Do you have the maps and can you provide them to Bryan? His contact info is below

Thanks,

Aaron

Bryan K. Osborne

Director of Public Works

Town of Colchester

P.O. Box 55, Colchester, Vt. 05446

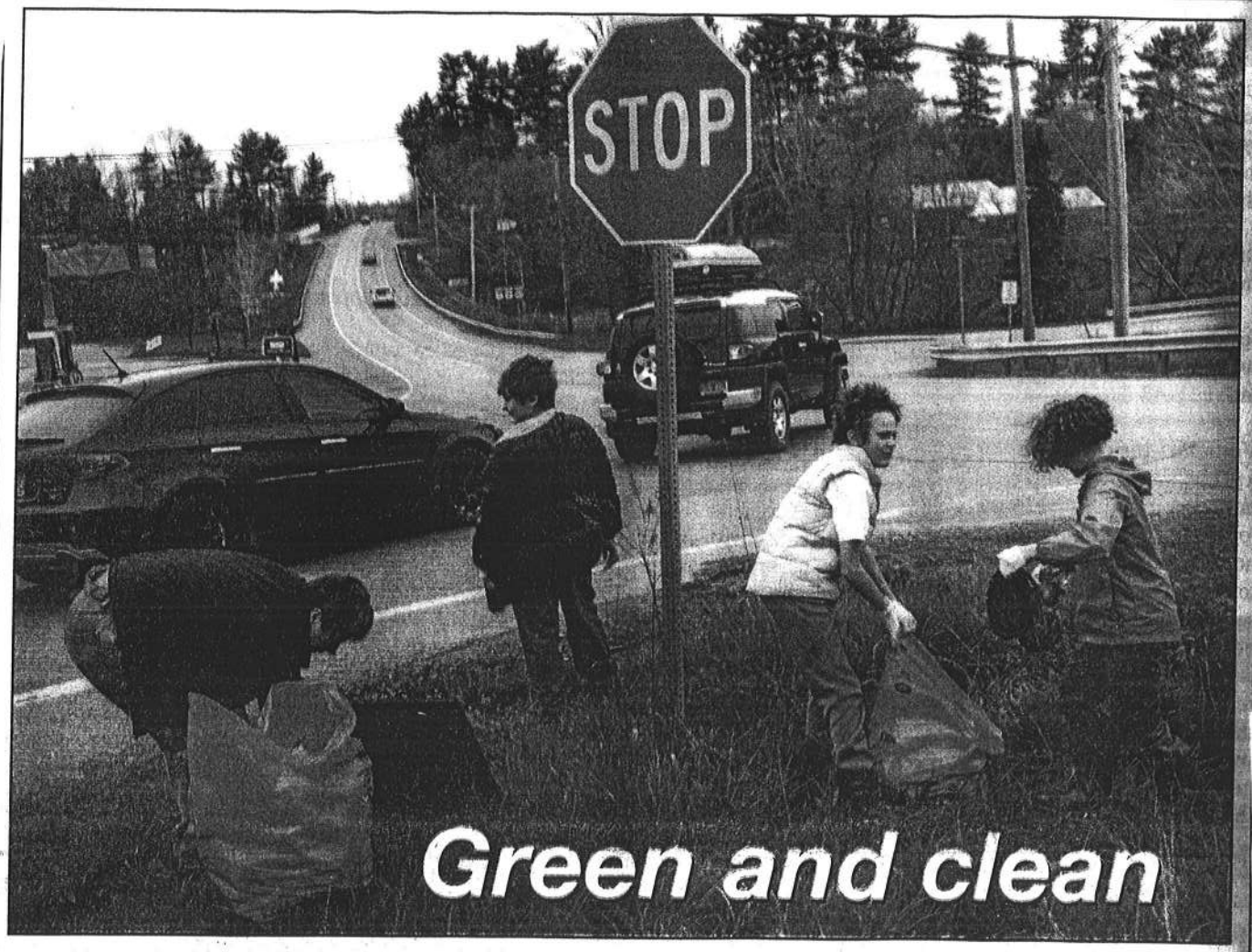
Tel. (802) 264-5625

e-mail bosborne@colchestervt.gov

	TRASH (tons)													
TOWN	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	AVG
Bolton	1.1	1.6	2.0	1.7	1.4	2.8	1.6	1.2	1.3	1.0	1.9	1.5	0.70	1.6
Burlington	5.2	3.1	3.6	2.9	6.0	6.1	6.4	5.6	3.7	6.9	3.8	3.0	4.05	4.6
Charlotte	2.5	1.6	2.3	3.0	2.4	2.3	2.5	1.8	2.6	1.6	1.3	1.9	2.51	2.2
Colchester	7.2	3.3	5.8	3.9	3.3	3.4	5.3	2.6	4.6	5.0	4.4	4.4	3.95	4.2
Essex Town	1.1	2.1	3.2	2.6	3.6	2.6	4.4	3.6	2.2	2.3	0.9	3.5	1.94	2.7
Essex Junction	0.5	0.6	0.8	1.3	1.1	0.7	0.6	0.4	0.7	0.9	1.7	0.9	0.13	0.8
Hinesburg	2.8	2.3	4.0	4.2	3.2	2.8	3.2	3.3	2.7	2.5	1.8	2.4	2.07	2.9
Huntington	0.9	0.9	1.7	1.1	0.8	1.1	0.7	1.1	2.2	0.7	0.0	1.2	0.61	1.0
Jericho	2.8	0.7	1.4	1.1	1.6	1.7	1.7	2.5	1.8	1.6	1.7	1.1	1.08	1.5
Milton	4.6	4.1	8.0	2.0	5.6	5.1	4.4	3.1	2.6	4.9	2.9	2.8	2.61	4.0
Richmond	2.7	2.3	2.6	2.1	2.1	2.7	2.2	3.3	2.0	3.2	1.9	2.9	2.01	2.4
Shelburne	0.6	0.7	0.4	0.8	0.9	1.1	0.8	1.1	0.8	0.6	0.4	0.5	0.46	0.7
outh Burlington	0.3	0.1	1.5	1.0	1.3	1.3	1.7	0.7	1.4	2.5	2.8	6.1	3.30	2.0
St. George	0.3	0.3	0.7	0.2	0.3	0.4	0.5	0.6	0.4	0.1	0.1	0.0	0.00	0.3
Underhill	n/a	n/a	n/a	n/a	1.4	1.3	0.7	1.0	0.5	0.4	0.7	0.4	0.61	0.8
Westford	3.8	0.6	1.1	0.7	1.9	4.0	2.0	1.0	2.6	1.4	1.2	1.1	0.62	1.5
Williston	2.3	2.2	1.9	2.2	2.4	1.4	1.7	1.7	1.6	1.6	1.1	1.4	2.99	1.8
Winooski	10.9	6.0	1.2	2.1	2.1	2.1	0.3	0.6	3.2	1.5	1.2	3.0	2.80	2.2
State Highway	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.7	0.8	1.0	0.5	0.0	0.72	0.4
TOTALS	49.7	32.5	42.0	33.0	41.4	42.8	41.7	35.9	37.6	39.5	30.3	38.1	33.2	38.3

	TIRES (#)													
TOWN	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	AVG
Bolton	85	155	86	185	87	0	172	125	80	167	51	90	134	109
Burlington	81	166	71	241	70	176	53	34	240	249	134	91	102	136
Charlotte	59	47	87	65	47	107	94	64	96	80	51	119	157	85
Colchester	410	215	345	242	325	201	303	165	332	291	189	132	321	255
Essex Town	49	52	160	116	55	8	211	2	97	115	35	145	383	115
Essex Junction	2	7	11	33	2	3	113	220	3	48	21	14	0	40
Hinesburg	331	373	193	100	105	110	97	155	251	119	100	51	75	144
Huntington	111	30	150	37	19	37	36	103	85	100	24	31	52	59
Jericho	54	48	93	4	61	35	47	74	66	74	49	83	39	56
Milton	660	150	0	180	178	198	124	187	195	270	177	189	0	154
Richmond	109	60	81	75	243	36	88	64	165	73	64	79	159	99
Shelburne	16	13	19	11	84	125	60	165	61	78	82	147	147	83
outh Burlington	0	20	18	3	18	127	6	19	57	107	162	46	2	49
St. George	2	16	14	5	0	10	0	0	9	14	0	0	0	6
Underhill	n/a	n/a	n/a	n/a	10	98	92	134	156	238	33	60	208	114
Westford	637	127	17	74	32	0	0	135	208	101	97	187	0	82
Williston	17	31	105	32	36	63	33	10	52	41	87	5	212	59
Winooski	17	18	5	18	13	0	0	1	4	9	12	10	73	14
State Highway	0	0	0	0	0	0	212	97	177	37	336	299	270	119
TOTALS	2,640	1,528	1,455	1,421	1,385	1,334	1,741	1,754	2,335	2,212	1,703	1,778	2,335	1,817

	METAL (cubic yards)													
TOWN	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	AVG
Bolton	0.0	0.0	0.0	d/k	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
Burlington	5.5	14.0	5.5	3.4	11.3	4.0	6.0	0.0	0.0	0.0	4.0	0.5	0.1	4.1
Charlotte	4.0	5.0	3.5	6.0	8.0	1.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	2.5
Colchester	0.0	0.0	1.0	8.0	0.5	0.0	5.0	2.0	1.0	3.3	0.0	0.1	0.0	1.7
Essex Town	2.0	7.0	9.0	7.0	4.5	6.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	2.8
Essex Junction	1.0	0.5	1.0	0.5	1.0	0.0	0.0	2.0	0.3	1.0	0.0	0.5	0.0	0.6
Hinesburg	6.3	7.0	6.5	7.0	7.0	3.0	5.0	4.0	2.0	2.0	2.8	0.0	0.9	3.9
Huntington	8.0	6.0	9.5	d/k	4.0	2.0	1.0	1.0	0.0	0.0	2.3	0.0	0.0	2.3
Jericho	6.0	7.0	6.5	1.0	5.0	5.0	4.3	2.0	2.0	0.0	0.0	0.0	0.0	2.7
Milton	0.0	0.0	0.0	12.0	3.0	3.2	5.0	7.0	2.0	4.0	1.8	2.0	0.0	3.3
Richmond	0.0	0.0	3.5	d/k	d/k	0.0	1.0	0.0	2.0	0.0	0.0	0.0	0.0	0.7
Shelburne	0.3	1.0	3.5	1.0	0.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
outh Burlington	0.0	0.5	3.5	1.0	0.5	2.0	0.0	2.0	1.0	6.0	9.0	0.0	0.0	2.1
St. George	2.5	3.0	0.0	1.0	0.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Underhill	n/a	n/a	n/a	n/a	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Westford	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Williston	2.5	5.0	3.5	3.5	1.3	1.5	0.5	0.3	0.1	1.5	0.0	0.2	0.0	1.5
Winooski	0.0	0.0	28.6	10.7	d/k	0.0	0.5	0.0	0.0	0.0	4.0	0.0	0.0	4.0
State Highway	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.1
TOTALS	38.1	56.0	85.1	62.1	69.6	34.7	28.3	20.6	17.4	17.8	23.9	3.3	1.0	35.9



Green and clean

Tammy Wood and her children Seb, left, Adriana, center, and Myla Jacobs, right, pick up trash on the side of Route 2A in Colchester for Green Up Day on Saturday morning.

Photo by Oliver Parini

By SUSAN BONDARYK
The Colchester Sun

Last Saturday, residents of Colchester came together to clean their community. Residents "littered" the streets with bright green bags stuffed with dumped debris.

Vermont was the first state 42 years ago to organize groups of volunteers to pick up trash along the Interstate. The idea was to keep Vermont green and the highways welcoming for interstate travelers. Eventually, the tradition expanded to villages and towns throughout Vermont.

Lisa Halvorsen of the Colchester Conservation Commission — which hosts the event — considers the annual tradition vital for the town.

"Of all the towns in Chittenden County, Colchester usually collects the most trash. Occasionally, we come in number two if Burlington has a large turnout of volunteers."

Green Up Day would not be a success without its many volunteers. Colchester has seen an increase in groups over the years. This year, 261 community members volunteered their time. Boy scouts, girl scouts, ROTC, and middle and high school groups are always ready to help remove rubbish.

Patrick Volz, Green Up Day Coordinator, added, "One of the ways we make Green Up Day fun is to have a noon-time hot dog roast in appreciation of all our wonderful volunteers."

*–See **GREEN** on page 3*

Colchester residents, from left to right, Jenna Baillargeon, Adrianne Colley, Clara Johnson and Brenna McMannon, cleaned up Airport Park on Green Up Day. Photos by Amber van Zuilen

GREEN

from page 1

The Colchester Rotary Club sponsored this year's roast and many volunteers came back to enjoy hot dogs grilled by Chief of Police Chuck Kirker.

Overall, Green Up Day was a success in Colchester. The official amount of trash collected will not be known for a couple of weeks because Chittenden Solid Waste District needs to weigh the dumpster, count the tires and weigh the metal gathered. However, the average tonnage is 4.4 tons of trash — which does not include tires or metal — and judging by the overflowing dumpster, Colchester may come close to that estimate again.

Eileen Beckwith, of Colchester, cleans up a stretch of Route 7.

Storm Water Watch Group Briefing

Greetings and thank you for agreeing to be a part of a storm water watch group we are assembling throughout the community. The establishment of this citizen network is a key part of our overall water quality plan. Community involvement accomplishes an important component of public education, which is essential to an effective plan.

Your role is to provide your eyes and ears relative to water quality problems in your area, and report them to us. We will then evaluate the problem, and attempt to address it in the best way we can. Periodically, we will send you information that will hopefully assist in your efforts.

Attached to this e-mail, I have included a map that illustrates the sub-watersheds where the full storm water watch group will be established. There are now representatives working in the following water sheds:

- Colchester Pond Brook
- Crooked Creek
- Indian Brook
- Inner Malletts Bay
- Morehouse Brook
- Outer Malletts Bay
- Smith Brook
- Sunderland Brook
- Winooski River
- Gilbrook
- Lake Champlain

One of the leading problems relative to storm water pollution is sediment. Sediment comes from a variety of different sources. We spread sand on the roadways as a part of our winter maintenance operations. In order to prevent this practice from being problematic, it is critical that we have sound street sweeping and basin cleaning programs to remove the sand before it finds its way into a receiving waterway. It also comes from construction sites or other forms of land disturbance, both big and small. When the soil is exposed and it rains, erosion occurs and washes the sand and soil into receiving waterways. It also occurs from channel erosion where storm flows have reached a level where stream channels are being eroded and transferring sediment down stream.

Although a primary concern with Vermont's waterways is sediment, we are also concerned about other pollutants as well that may enter into our storm water systems and waterways. These are referred to as illicit discharges. These are typically discharges to the storm water system that consist of flows other then pure storm water. Examples would include oils, chemicals or untreated sewage.

Generally the types of things you should be looking for are erosion problems, anything other then storm water being placed or directed into the storm water system, or flows coming out of storm water systems during dry weather conditions.

Before you begin thinking that the entire responsibility for water quality monitoring for your area rest entirely on your shoulders, keep in mind that our storm water management plan contains

inspection programs where storm water basins and outfalls are inspected by our staff each year. Land disturbances are required to be permitted through our Planning and Zoning Offices, and are subject to inspection by Town staff. We can not see everything however and will benefit greatly from another set of eyes and ears.

Below are a few links that will provide you with additional information that you may find both informative and useful.

www.anr.state.vt.us/dec/waterq/stormwater.htm

This link will take you to the storm water section of the Vermont Agency of Natural Resources web-site. Select "Publications" and you will find the Vermont Handbook for Erosion Prevention and Sediment Control.

www.epa.gov/npdes/pubs/fact2-5.pdf

This link will take you to a section of the EPA's site where you will find a fact sheet on Illicit Discharge Detection and Elimination Minimum Control Measure.

www.smartwaterways.org

This web-site has been developed by the Chittenden County Regional Storm Water Education Program, (RSEP), to which Colchester is a member. It has been designed to provide public education on storm water and is advertised through a state wide social marketing campaign.

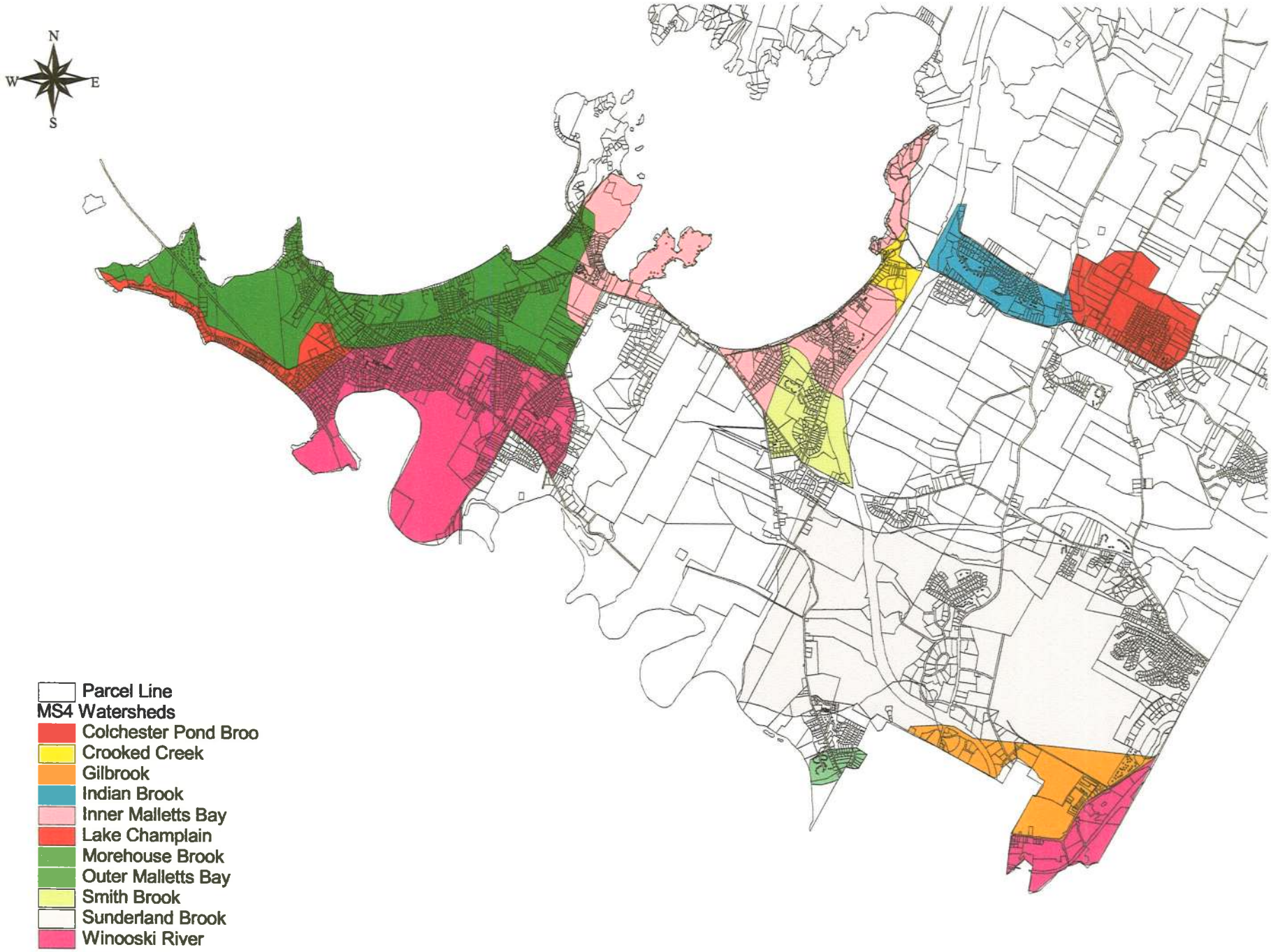
For additional materials that you may find useful, please visit our website at www.colchestervt.gov/PublicWorks/Stormwater.shtml. Here you will find our NPDES Phase II MS4 General Permit. This is a federal permit we are required to maintain. This document contains our plan that demonstrates compliance to this permit. You will also find our Illicit Discharge Detection Plan and our Storm Water Ordinance. Please feel to look around our site where you will find other useful and interesting information.

Again, thanks for all of your help. Please feel free to contact me anytime at 264-5625 with any questions.

Bryan K. Osborne
Director of Public Works

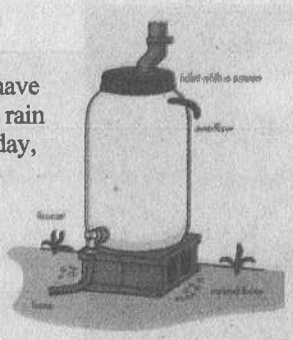
Storm Water Watch Group

Watershed		Representative
1.	Inner Malletts Bay	Tom Berry Moe Germain Anita Socinski
2.	Smith Brook	Jeff Barton
3.	Colchester Pond Brook	Betsy Orselet
4.	Winooski River	Evan Fitzgerald Marc Landry
5.	Crooked Creek	Harlan Lachman
6.	Indian Brook	Jean Osborne
7.	Sunderland Brook	Meg McGovern
8.	Morehouse Brook	Sherry LaBarge
9.	Outer Malletts Bay	Tracy Byrnes
10.	Gilbrook	Alan Dicinson
11.	Lake Champlain Watershed	Pam Loranger Buzz Hoerr


N
W
E
S
Parcel Line
MS4 Watersheds
Colchester Pond Broo
Crooked Creek
Gilbrook
Indian Brook
Inner Malletts Bay
Lake Champlain
Morehouse Brook
Outer Malletts Bay
Smith Brook
Sunderland Brook
Winooski River

The Colchester Sun | Thursday, April 12, 2012

Rain barrel workshop to be held April 16



Residents who are interested in putting rainwater to use in their landscapes and gardens will have an opportunity to build their own rain barrels at a workshop on Monday, April 16. Early registration is recommended, as space is limited to 25.

The Build Your Own Rain Barrel Workshop will be held at Bibbens Ace Hardware, 713 West Lakeshore Drive in Colchester, from 5 to 7 p.m. The cost is $30 and includes all supplies and instruction to make a 55-gallon rain barrel.

The workshop is sponsored by the Colchester Conservation Commission in cooperation with the Winooski Natural Resources Conservation District and the Colchester Department of Public Works. In addition to constructing a rain barrel to take home, participants will learn how capturing rainwater will help save money, conserve water and reduce runoff of storm water into nearby streams and rivers.

Preregistration is required. There is a limit of one barrel per household, but families may work on the project together.

Contact Amber van Zuilen at (802) 264-6027 or by e-mail at AmbervanZuilen@gmail.com for more information or to sign-up. Bring cash or check to the workshop.

Bryan Osborne

From: Front Porch Forum <mallettshead@frontporchforum.com>
Sent: Wednesday, April 04, 2012 7:04 PM
To: Bryan Osborne
Subject: Malletts Head Front Porch Forum No. 383

POST A NOTE TO YOUR NEIGHBORS

ISSUE NO. 383 APRIL 4, 2012

Malletts Head Neighborhood Forum

Rover?	KEVIN ALLEN	JOEY DRIVE
The Schoolhouse Mother's Day Brunch Bag Sale	AMY CARLSON	WILLOW CIRCLE
Colchester Commercial Bus Service	SAM CONANT	THOMAS DR
Rain Barrel Workshop April 16	ANJA TWITE, ADMINISTRATIVE COORDINATOR, DEPT. OF PUBLIC WORKS	BLAKELY RD
Marathon Travel Advisories April 14	SUZIE DEBROSSE	BUCKINGHAM DR
CSWD Job Opening: Full-time Project Engineer	CLARE INNES, MARKETING COORDINATOR, CSWD	REDMOND RD

"I can't imagine my town without FPF." Become a Supporting Member... http://bit.ly/SupportFPF

Thanks to FPF's LOCAL SPONSORS.

OPEN HOUSE AND STUDENT SHOWCASE AT JOHNSON STATE COLLEGE APRIL 13

Exploring college? Friday the 13th is your lucky day! Come to Johnson State College and learn how student internships, undergraduate research and community involvement = amazing opportunities! Lunch is on us. Sign up today!

http://bit.ly/JSCvisit

THINKING ABOUT BUYING A HOME? NEFCU IS A GREAT PLACE TO START!

We'll help organize your Game Plan to get the best terms on your mortgage. Our experienced staff will get you pre-approved at no cost/obligation. Call 866-80-LOANS before you go house hunting! Equal Housing Lender NMLS#446767

http://bit.ly/NEFCU

THINK SPRING! PAUL MAZZA'S IS ACCEPTING NEW CSA MEMBERS FOR OUR 2012 SEASON

Enjoy delicious fresh fruits and vegetables grown right here in Chittenden County! Very affordable, 3 pick-up locations (including one in Colchester), great flexibility and choice, and stand credit for missed pick-ups!

Rain Barrel Workshop April 16

ANJA TWITE, ADMINISTRATIVE COORDINATOR, DEPT. OF PUBLIC WORKS
BLAKELY RD

Interested in saving money, conserving water, reducing flooding, and improving the environment? Add a rain barrel under your roof downspout to capture water for later use around your yard or garden.

Using stored rainwater can reduce your water bill, improve plant health, and help replenish groundwater supplies. Water captured in your rain barrel is also water that won't rush off into nearby rivers and streams.

What: During this workshop you will have the opportunity to build your own rain barrel, while learning about nearby streams and how they are affected by stormwater. We will provide the barrels, as well as the tools and the hardware required to build the rain barrels.

Who: Priority will be given to Colchester residents.
When: Monday, April 16th from 5-7 pm
Where: Bibbens Ace Hardware, 713 West Lakeshore Drive, Colchester
Cost: The cost of the workshop is $30, which includes the cost of the barrels and supplies!
Signup: Contact Amber van Zuilen at (802) 264-6027 or AmbervanZuilen@gmail.com for information or to sign-up. Sign up quick! Space is limited to 25!

Sponsored by the Winooski Natural Resources Conservation District, the Colchester Public Works Department, and the Colchester Conservation Commission.

EMAIL AUTHOR REPLY TO FORUM

Marathon Travel Advisories April 14

SUZIE DEBROSSE
BUCKINGHAM DR

Half Marathon Unplugged
Saturday April 14, 2012
Travel Advisories

Colchester – Airport Park area:
Buckingham Dr to Broadlake Rd: traffic delayed 8:55am-9:05am, 10:55am-11:05am
Minor delays at Airport Park/Buckingham Dr: 9:10am-9:30am, 11:10am-11:30am

Burlington – South Cove/Dunder Drive area:
Runners on the road 10:00am-11:45am and noon-1:45pm. Minor intermittent delays, nothing exceeding 1-2 minutes.

We thank you for driving cautiously in these areas when runners are in the road. During the race we'll be working with your local police departments to minimize delays and open roads as soon as it is safe to do so. We are always looking for volunteers so if you'd like to help out in your neighborhood we'd love to talk to you! If you have any concerns or need guidance regarding alternative routes or to volunteer please contact Joe Connelly at RunVermont, joe@runvermont.org, or 863-8412.

Suzie DeBrosse

212 Buckingham Drive
Colchester, VT 05446
(802)658-1677
cell (802)343-4076

"Never doubt that a small group of thoughtful, committed citizens can change the world; indeed it's the only thing that ever does." - Margaret Mead

EMAIL AUTHOR REPLY TO FORUM

CSWD Job Opening: Full-time Project Engineer

CLARE INNES, MARKETING COORDINATOR, CSWD
REDMOND RD

The Chittenden Solid Waste District is seeking full-time engineer with strong communication skills and the ability to wrangle the myriad details of multiple projects. The person in this position will manage project design, estimating, permitting, and construction. BS in

Rain garden rises on Holy Cross path

By ELSIE LYNN
The Colchester Sun

Members of the Colchester Conservation Commission have joined forces with the Colchester Public Works Department to construct a rain garden along the Holy Cross Road recreation path.

A rain garden is a planted depression that collects rainwater from impervious surfaces. The goal is to reduce rain runoff by allowing storm water to soak into the ground. Public Works Director Bryan Osborne notes that rain gardens help reduce soil erosion, water pollution, flooding and diminished ground water levels, and are an inexpensive way to treat storm water runoff. Rain gardens can be adapted for use around the home as well.

"It is important to keep the storm water as clean as possible for the health of the lake," noted Theresa Carroll of the Conservation Commission.

The town's Conservation Commission was established in 1995. A seven-member volunteer organization appointed by the selectboard, it works toward raising public awareness of Colchester's natural resources. In addition to Carroll, the current commission includes: Lisa Halvorsen, Gail Halvorsen, Patrick Volz, Elizabeth Chant, Amber van Zuilen and Pam Loranger.

The Conservation Commission and Public Works Department worked over the spring for roughly 30 hours planting about 100 plants of 16 different species. The rain garden was designed by Paul Simon of Colchester

–See **GARDEN** on page 2

The Colchester Sun | Thursday, July 12, 2012

The Colchester Conservation Commission works on a rain garden on Holy Cross Road during the spring.

Photo contributed

GARDEN
from page 1

and became functional on May 5.

"The commission consists of a highly dedicated group of citizens who care about the community's natural resources," Osborne said. "It was a tremendous opportunity to partner with them on a project that displays innovative practices for storm water treatment, and provides an educational component for the community."

An informational plaque was erected at the rain garden describing the purpose of a rain garden.

"These efforts are very important to our overall water quality goals," Osborne said.

The rain garden dovetails with the town's membership in the Chittenden County Regional Storm water Education Program, (RSEP). The program was formed in 2003 to encourage residents to get personally involved in reducing storm water pollution in Lake Champlain and to encourage positive behavioral changes in residents.

Bryan Osborne

From: mnhinc <mnhinc@comcast.net>
Sent: Saturday, November 10, 2012 3:48 AM
To: CCC Amber van Zuilen; CCC Gail Halvorson; CCC Lisa Halvorsen; CCC Pamela Loranger; CCC Patrick Volz; CCC Moran Tim,
Cc: CCC Moran Tim,; Col Glen Cuttitta,; Col June Campbell; Col Bryan K. Osborne
Subject: Leaf totals

Here are the totals for leaf collection – pretty impressive.

98.88 tons of leaves from Town of Colchester in 12 loads. 11 loads on 11/5 and 1 load on 11/6.

Colchester Conservation Commission

By Theresa Carroll, Chair

The Conservation Commission organized several projects during FY-12 that benefitted residents, beautified the town and helped protect the community's natural resources.

In November 2011 Commission members served as monitors for the leaf collection weekend at Airport Park. A total of 41.15 tons (seven 40-cubic yard loads) of leaves were dropped off by residents and hauled away by the Chittenden Solid Waste District to Green Mountain Compost in Williston to be turned into compost for sale.

The seven-member Commission sponsored a Do-It-Yourself Rain Barrel Workshop in April in cooperation with the Winooski Natural Resources Conservation District and the Colchester Department of Public Works. In addition to building their own rain barrels for home use, the 19 participants received information on how rain barrels help conserve water, save money and protect waterways.

Another spring project was the installation of a rain garden along the bike path on Holy Cross Road to help collect rainwater runoff and control soil erosion. The garden was designed by Colchester resident and landscape architect Paul Simon. Ten volunteers, including several Commission members, worked a total of 33 hours planting 16 different species of plants in the garden.

For the 17th consecutive year, the Commission coordinated the town's Green Up Day, which attracted 261 volunteers who collected 3.95 tons of roadside trash. The Commission also continued its beautification efforts by planting annuals and perennials in public flower beds including those at Bayside Park, the Colchester Senior Center and the traffic islands across from Malletts Bay School.

In May, volunteers planted a rain garden along the bike path on Holy Cross Road.

Throughout the summer, the Commission made site visits to several local natural areas for informational purposes for future projects as well as to assess the natural resources to make information available to the Town as needed.

Section 4.2.3

Illicit Discharge Detection and Elimination

Attachments:

1. Information and records relating to the Town's IDDE Program.
2. IDDE information provided to the Colchester Community Development Office for distribution to the business community.
3. Illicit Discharge at 697 Hercules Drive, Colchester Vermont

IDDE Location / Questions / Concerns

Location	ID#	State ID	Map or Location Concern	Directions
Lexington Road	6	CP1397	Access on Coventry	Down the hill past the work shed and then right of the road after it turns le
Brighton Lane	7	CP1399	Access at 201 Wyndham	Off roadway in ditch area
Coventry Road	8	CP1398		Ditch east of the house next to the shared facilities
Liberty Lane	11	CP1402		Behind home
Foreman Drive	18	CP1428		Ditch east of home
Severance Road	5	OC1483	Access at 12 Woodrose	North of driveway near Severance
Severance Road	48	CP1391	Access off Eagle Park Drive	West of Eagle Park Drive
Young Street				Down hill from culdesac
W. Lakeshore Drive	B3-016		Access along Shore Acres	East of road just before Y
W. Lakeshore Drive	B3-017		W. Lakeshore West of Moorings	Culvert coming through beach wall
E. Lakeshore Drive	B3-018		Moorings bafflebox	WQ site
1086 Bay Road	C2-001		On lake along E Lakeshore / Camp Tee	Camp Tee culvert
1063 Bay Road	C2-002		On lake along E Lakeshore	Culvert between camps
35 Bay Road	C2-003		On lake along E Lakeshore	Clay piping between camps
1277 Bay Road	C2-004		On lake along E Lakeshore	Piping through wall
Bay Road	C2-005		On lake along E Lakeshore	Culvert down to beach
Granite Creek	C2-006		Retention Pond on Stone Drive	Drain at beginning of pond
Granite Creek	C2-007		Retention Pond on Stone Drive	Concrete box at far end of pond
Tower Ridge	C3-002			Ditch between houses
Ever Breeze	C3-003			Ditch along Williams behind Evergreen
Blakely Road	C3-004			Retention pond past Lavigne
796 Bay Road	C3-005		E. Lakeshore	
903 Bay Road	C3-006		E. Lakeshore	
Acorn Lane	C3-018			Ditch south of GMP
Acorn Lane	C3-019			Ditch south of GMP
Champlain Drive	C3-021			Near entrance to old Premier Bus Garage
118 Orchard Drive	C3-025			Behind home
Route 2 & 7 (Shaws)	C4-015		Fountain pond (first drain)	Fountain pond along road
Hercules Drive	C4-017		Fountain pond (second drain)	Fountain pond along road
St. Michaels College	C4-018		Access at Hampton Inn & I89 ramp	Along ramp
Orion Drive	C4-019		Maps do not match	Behind Shaws near Route 7
Main Street	D3-010		Maps off - Kylie Way access	Kylie Way off Severance
Fort Ethan Allen	D4-001	OP1497	Behind water company	Behind water supply company
Fort Ethan Allen	D4-003	CP1438	VPR retention pond	West of VPR parking lot

Location	ID#	Date	Flow	pH	OB	E.Coli
Lexington Road	6 / CP1397	10/18/2012	N	7.2	N	-
102 Wyndham	7 / CP1399	10/18/2012	Y	8.0	N	12
Coventry Road	8 / CP1398	10/18/2012	DRY	-	-	-
196 Liberty Lane	11 / CP1402	10/18/2012	DRY	-	-	-
122 Foreman Drive	18 / CP1428	10/18/2012	N	7.4	N	-
12 Woodrose	5 / OC1483	10/18/2012	N	7.0	N	-
Severance Road	48 / CP1391	10/18/2012	DRY	-	-	-
Young Street		10/18/2012	DRY	-	-	-
W. Lakeshore Driv	B3-016	10/18/2012	Y	8.4	N	230
W. Lakeshore Driv	B3-017	10/18/2012	DRY	-	-	-
E. Lakeshore Drive	B3-018	10/18/2012	Y	7.4	N	22
1086 Bay Road	C2-001	10/18/2012	Y	8.2	N	14
1063 Bay Road	C2-002	10/18/2012	DRY	-	-	-
35 Bay Road	C2-003	10/18/2012	Y	8.2	N	43
1277 Bay Road	C2-004	10/18/2012	Y	8.2	N	43
Bay Road	C2-005	10/18/2012	DRY	-	-	-
Granite Creek	C2-006	10/18/2012	N	7.2	N	-
Granite Creek	C2-007	10/18/2012	N	7.2	N	-
Tower Ridge	C3-002	10/18/2012	DRY	-	-	-
Ever Breeze	C3-003	10/18/2012	Y	7.4	N	1700
Blakely Road	C3-004	10/18/2012	N	7.4	N	-
796 Bay Road	C3-005	10/18/2012	DRY	-	-	-
903 Bay Road	C3-006	10/18/2012	DRY	-	-	-
Acorn Lane	C3-018	10/18/2012	Y	8.4	N	5
Acorn Lane	C3-019	10/18/2012	DRY	-	-	-
Champlain Drive	C3-021	10/18/2012	N	7.2	N	-
118 Orchard Drive	C3-025	10/18/2012	N	7.4	N	-
Route 2 & 7 (Shaw	C4-015	10/18/2012	N	8.4	N	-
Hampton Inn	C4-017	10/18/2012	N	8.0	N	-
St. Michaels Colleg	C4-018	10/18/2012	DRY	-	-	-
Shaw's	C4-019	10/18/2012	DRY	-	-	-
Main Street	*D3-010*	10/18/2012	DRY	-	-	-
Fort Ethan Allen	D4-001	10/18/2012	DRY	-	-	-
Fort Ethan Allen	D4-003	10/18/2012	Y	7.4	N	3

Illicit Discharge Information

Based upon population density, Colchester Vermont has been designated as an operator of a Phase II regulated Small Municipal Separate Storm Sewer System (MS4), and is required to develop a storm water management program to meet the conditions of its National Pollutant Discharge Elimination System (NPDES) permit. The development of an Illicit Discharge Detection and Elimination Plan is one of six minimum control measures that are required within the program.

What is an "Illicit Discharge"?
Federal regulations define an illicit discharge as"...any discharge to an MS4 that is not composed entirely of storm water...." with some exceptions. These exceptions include discharges from NPDES-permitted industrial sources and discharges from fire-fighting activities. Illicit discharges are considered "illicit" because MS4s are not designed to accept, process, or discharge such non-storm water wastes.

Why are Illicit Discharge Detection and Elimination Efforts Necessary?
Discharges from MS4s often include wastes and wastewater from non-storm water sources. Illicit discharges enter the system through either direct connections (e.g., wastewater piping connected to storm water drains) or indirect connections (e.g., spills or disposal of used paint, oil, etc., into a storm water drain.) The result is untreated discharges that contribute high levels of pollutants, including heavy metals, toxics, oil and grease, solvents, nutrients, viruses, and bacteria to receiving water bodies. Pollutant levels from these illicit discharges have been shown in EPA studies to be high enough to significantly degrade receiving water quality and threaten aquatic, wildlife, and human health.

Colchester's Storm Water Management Program
The Town's Storm Water Management Program will include the development of an Illicit Discharge Detection and Elimination Plan, as well as, an Illicit Discharge Ordinance. You are encouraged to provide you valuable input into the development of these initiatives. The overall program also contains a strong education component. This education bulletin is one example of the implementation of these efforts. For further information, please visit the following links:

- U.S. Environmental Protection Agency www.epa.gov
- Vermont Agency of Natural Resources www.anr.state.vt.us

Or contact:

- Town of Colchester, Department of Public Works bosborne@town.colchester.vt.us

Sources of Illicit Discharge

Sanitary wastewater
Effluent from septic tanks
Car wash wastewaters
Improper oil disposal
Radiator flushing disposal
Laundry wastewaters
Spills from roadway accidents
Improper disposal of auto and household toxics

Town of Colchester
Department of Public Works
Presents:

An Informational Bulletin for Local Business

U.S. EPA Storm Water Phase II Final Rule

Illicit Discharge Detection
And
Elimination Minimum Control Measure

".....improve the overall quality of life within the community through the development of a superior infrastructure that promotes and encourages planned responsible commercial, industrial and residential growth in a manner that preserves and enhances our environment and natural resources."

Colchester Public Works
Mission Statement

1. Ok folks, Corporate says we have some water quality issues to deal with

2. So Bob, what is an illicit discharge anyway?

3. Bill, it's basically any discharge that is not composed entirely of storm water

4. What does that mean?

5. Well Bill, it could be things like sanitary waste, improper oil disposal or industrial cleaning products.

6. Bob, how do these discharges happen?

7. Bill, pollutants can enter the storm water system either through direct pipe connections, or spills collected by drain outlets.

8. So what's the big deal Bob, doesn't it all get treated at the plant?

9. No Bill, storm water doesn't go to treatment plants. It goes directly to rivers and lakes

10. Studies have shown that these pollutants can damage aquatic, wildlife and human health.

11. Hmm, environmental damage, that's not good for business

12. Ok, people, lets get to work. I want a plan on my desk by Friday to prevent illicit discharges from our company

TOWN OF Colchester ESTABLISHED • 1763

Planning & Zoning Department

Select Board
L. Richard Paquette
Herbert Downing
Marc Landry
Kathrine R. Niquette
Nadine Scibek

Town Manager
Albin Voegele
264-5501

Director of Planning & Zoning
Sarah Hadd
264-5602

Zoning Administrator
Lisa Riddle
264-5604

Assistant Zoning Administrator
Jane Dion
264-5603

Building Inspector
Derek Shepardson
264-5607

Administrative Assistant
Sarah Copland
264-5606

Wastewater Official & Health Officer
Denise Johnson-Terk
264-5601

Fax Number
(802) 264-5503

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

EMERGENCY HEALTH ORDER

January 28, 2013

Wendell Farrell
697 Hercules Drive
Colchester, VT 05446

Re: 921 Hercules Drive Drive, TM 01, P 20-19
Failed Wastewater Disposal System

Dear Mr. Farrell:

I Denise Johnson-Terk, Health Officer, of the Town of Colchester hereby find that:

1. The commercial warehouse building located at 921 Hercules Drive is deemed to be a public health hazard due to wastewater draining into the roadside ditch due to a broken building sewer pipe. The building sewer line for 921 Hercules Drive was deemed failed on January 25, 2013.

Therefore, by the authority granted to me by Title 18, V.S. A. Chapter 3, it is hereby:

ORDERED that the water to the building be turned off at the curb stop until the building sewer pipe can be repaired preventing any further drainage of sewage into the ditch.

It is further:

ORDERED that lime, then straw be spread over the effluent in the ditch and temporary fencing be erected around all areas of surfaced sewage.

It is further:

ORDERED that a portable toilet be provide until such time as the building sewer is repaired.

It is further:

ORDERED that a licensed designer or engineer evaluates the building sewer pipe failure and submit to the Town on behalf of the Drinking Water and Groundwater Protection Division a plan and proposal of the repairs to be made in accordance to the Colchester Sewer Ordinance, Colchester Public Works Specification and the Environmental Protection Rules, Chapter 1, Wastewater System and Potable Water Supply Rules. Depending on what your engineer or designer finds, a State Wastewater and Potable Water Supply permit may or may not be required.

It is further:

ORDERED that the repairs be made to the building sewer pipe and a certification letter from you designer or engineer be provided to the Town of Colchester no later than March 1, 2013. If it is determined by your designer or engineer that a permit is required, that application shall be submitted to the Town on behalf of the Drinking Water and Groundwater Protection Division no later than February 15, 2013.

It is further:

ORDERED that the owner or his agents must contact the Town of Colchester Health Officer at 781 Blakely Road, Colchester, VT 05446, P.O. Box 55, (802) 264-5601 and notification be given in advance for the necessary inspections

Yourself or your agent may appear before the Board of Health, Town of Colchester, to show cause why this health order should not continue in effect. Said hearing shall be requested within five business days of receipt of this order. This health order shall remain in force and in effect from the date of its issuance and throughout any hearing until terminated by the Colchester Board of Health.

If you have any questions feel free to contact me at 802-264-5601.

Denise Johnson-Terk
Health Officer
Town of Colchester

01/25/2013 10:12

01/25/2013 10:13

01/25/2013 10:18

Denise Johnson Terk

From: Floyd Sheesley <fsheesley@colchestervt.gov>
Sent: Friday, January 25, 2013 3:33 PM
To: Denise Johnson-Terk
Subject: Wendell's sewer line

Denise,
Please see Bryan regarding this issue as he needs some information regarding this illicit discharge into the ditch and we need to make sure that the repair is done in accordance with the Sewer Ordinance and the Public Works Specifications. Please let me know if you have any questions or need anything from me after you update Bryan as to what you have found out to date.

thanks

Floyd Sheesley, P.E.
Operations Manager

Town of Colchester
P.O. Box 55
Colchester, VT 05446

ph: 802-264-5621
cell: 802-316-1046
fax: 802-264-5503

20-3
20-5
20-27
20-8
20-9
20-10
20-15
20-16
20-17
20-18
20-19
20-21
20-22
20-23
20-24
20-26
STORM & SAN SEWER ESMT
HERCULES DR
ORION DR
INTERSTATE 89
SOUTH PARK DR
VERMONT NTL GUARD

GKI

Section 4.2.4

Construction Site Storm Water Runoff Control

Attachments:

1. Report of land disturbing activities greater than 1 acre, and greater than 5 acres.

TOWN OF Colchester
ESTABLISHED • 1763

PLANNING & ZONING DEPARTMENT

SELECT BOARD
NADINE SCIBEK
HERBERT DOWNING
MARC LANDRY
THOMAS MULCAHY
KATHERINE NIQUETTE

TOWN MANAGER
ALBIN VOEGELE
264-5501

DIRECTOR OF PLANNING & ZONING
SARAH HADD
264-5602

ZONING ADMINISTRATOR
LISA RIDDLE
264-5604

ASSISTANT ZONING ADMINISTRATOR
JANE DION
264-5603

BUILDING INSPECTOR
DEREK SHEPARDSON
264-5607

ADMINISTRATIVE ASSISTANT
264-5606

WASTEWATER OFFICIAL
DENISE JOHNSON-TERK
264-5601

RECORDS CLERK
CARLA BABINEAU
264-5608

FAX NUMBER
(802) 264-5503

MEMORANDUM

TO: Bryan Osborne, Director of Public Works
FROM: Sarah Hadd, Director of Planning & Zoning
DATE: March 14, 2013
RE: Stormwater Reporting Calendar Year 2012

Please find attached a spreadsheet enumerating projects advanced to construction for the period January 1, 2012 through December 31, 2012 with more than an acre of land disturbance. In calendar year 2012, the Department issued in total 642 permits and conducted 1,466 inspections including violation investigations.

Should you need any additional information, including copies of the individual permits, please feel free to contact me directly.

Project	Description	Location	Contact	Acreage Disturbed	Impervious Surface Acreage
Acabay	75,000 sq. ft. research facility and general office building	West View Road, Tax Map 3, Parcel 203	Frank Motter	1 to 5 ac.	2.22 acres
Nynex Mobile Limited Partnership and Cellco Partnership each d/b/a Verizon Wireless	235 Broadacres Drive, Tax Map 6, Parcel 24	amend a previously approved site plan for: 1) a 5,300 square foot water tank with an overall maximum height of 41 feet and a 75 foot monopole with mounted antennas extending the height to 78 feet and two accessory equipment shelters. The site plan amendment consists of: 1) construction of a 35' by 80' fenced compound with an eight foot high chain link fence, 2) construction a new 75 foot monopole, 3) construction of a 12' by 24' equipment shelter, and 4) construction	Brian Sullivan	less than 1 ac.	1.35 acres
Rathe Rd. LLC	2 lot planned unit development subdivision of a 45.6 acre undeveloped parcel: 1) lot one a 27.3 acre parcel to accommodate a recycling center in two buildings totaling 17,850 sq. feet; and 2) a 16.9 acre undeveloped lot	Rathe Road, Tax Map 3, Parcel 23-1	O'Leary Burke Civil Asssociates	1 to 5 ac.	3.1 acres

Project	Description	Location	Contact	Acreage Disturbed	Impervious Surface Acreage
St. Michael's College	amend a previously approved Site Plan for a college campus. The amendment consists of 1) the construction of a 41,240 sq. ft., four story, student center with connections to five residence halls, and 2) the construction of a 39,860 sq. ft. four story, 105-bed residential hall	College Parkway, Tax Map 1, Parcel 5	Hamlin Engineering	1 to 5 ac.	24.38 acres
State of Vermont	reconfiguration of the AOT highway garage complex. The Site Plan involves consolidation of existing uses into one main structure to be 36,016 sq. ft. and 2 salt sheds for a total of 54,128 sq. ft., reconfiguration of parking and removal of several structures	Troy Avenue, Tax Map 20, Parcel 1	Vermont Department of Transportation District #5	1 to 5 ac.	12.41 acres
Bushey, Ronald	1 lot	1662 Main Street, Tax Map 22, Parcel 168	Bushey, Ronald	less than 1 ac.	.17 acres
Clavellle	1 lot	618 East Lakeshore	Clavelle, Raymond	less than 1 ac.	Up to 3.46 acres allowed.
Cottonwood Crossing	2/4 lots	816 East Road, Tax Map 12, Parcel 13	David Burke	less than 1 ac.	Up to 11.4 acres allowed
Dickinson, Richard & Erlene	3/6 lots	304 Porters Point Road, Tax Map 41, Parcel 29	David Goodrich	1 to 5 ac.	Up to .7 acres allowed.
Haskins, Samuel & Rivers Edge Development	5/8 lots	2266 Main Street, TM 9, P 3	David Burke	over 5 ac.	Up to 3.25 acres allowed.
Hergenrother, Adam	1 lot	788 Red Rock Rd., Tax Map 77, Parcel 4	Adam Hergenrother	less than 1 ac.	Up to 1.72 acres allowed.

Project	Description	Location	Contact	Acreage Disturbed	Impervious Surface Acreage
Mele	9 lots with 8 new units	422 Malletts Bay Avenue, Tax Map 6, Parcel 9 and 9-1	O'Leary - Burke Civil Assoc.	5 ac.	Up to 16.4 acres allowed.
Veronneau	4 units in 2 duplexes	855 Porters Point Road, Tax Map 42, Parcel 249	Tom Hergenrother	less than 1 ac.	.71 acres

Section 4.2.5

Post-Construction Storm Water Management in New Development and Redevelopment

Attachments:

1. Report of land disturbing activities that resulted in more than 1 acre of impervious surface.

TOWN OF Colchester
ESTABLISHED • 1763

PLANNING & ZONING DEPARTMENT

SELECT BOARD
NADINE SCIBEK
HERBERT DOWNING
MARC LANDRY
THOMAS MULCAHY
KATHERINE NIQUETTE

TOWN MANAGER
ALBIN VOEGELE
264-5501

DIRECTOR OF PLANNING & ZONING
SARAH HADD
264-5602

ZONING ADMINISTRATOR
LISA RIDDLE
264-5604

ASSISTANT ZONING ADMINISTRATOR
JANE DION
264-5603

BUILDING INSPECTOR
DEREK SHEPARDSON
264-5607

ADMINISTRATIVE ASSISTANT
264-5606

WASTEWATER OFFICIAL
DENISE JOHNSON-TERK
264-5601

RECORDS CLERK
CARLA BABINEAU
264-5608

FAX NUMBER
(802) 264-5503

MEMORANDUM

TO: Bryan Osborne, Director of Public Works
FROM: Sarah Hadd, Director of Planning & Zoning
DATE: March 14, 2013
RE: Stormwater Reporting Calendar Year 2012

Please find attached a spreadsheet enumerating projects advanced to construction for the period January 1, 2012 through December 31, 2012 with more than an acre of land disturbance. In calendar year 2012, the Department issued in total 642 permits and conducted 1,466 inspections including violation investigations.

Should you need any additional information, including copies of the individual permits, please feel free to contact me directly.

Project	Description	Location	Contact	Acreage Disturbed	Impervious Surface Acreage
Acabay	75,000 sq. ft. research facility and general office building	West View Road, Tax Map 3, Parcel 203	Frank Motter	1 to 5 ac.	2.22 acres
Nynex Mobile Limited Partnership and Cellco Partnership each d/b/a Verizon Wireless	235 Broadacres Drive, Tax Map 6, Parcel 24	amend a previously approved site plan for: 1) a 5,300 square foot water tank with an overall maximum height of 41 feet and a 75 foot monopole with mounted antennas extending the height to 78 feet and two accessory equipment shelters. The site plan amendment consists of: 1) construction of a 35' by 80' fenced compound with an eight foot high chain link fence, 2) construction a new 75 foot monopole, 3) construction of a 12' by 24' equipment shelter, and 4) construction	Brian Sullivan	less than 1 ac.	1.35 acres
Rathe Rd. LLC	2 lot planned unit development subdivision of a 45.6 acre undeveloped parcel: 1) lot one a 27.3 acre parcel to accommodate a recycling center in two buildings totaling 17,850 sq. feet; and 2) a 16.9 acre undeveloped lot	Rathe Road, Tax Map 3, Parcel 23-1	O'Leary Burke Civil Asssociates	1 to 5 ac.	3.1 acres

Project	Description	Location	Contact	Acreage Disturbed	Impervious Surface Acreage
St. Michael's College	amend a previously approved Site Plan for a college campus. The amendment consists of 1) the construction of a 41,240 sq. ft., four story, student center with connections to five residence halls, and 2) the construction of a 39,860 sq. ft. four story, 105-bed residential hall	College Parkway, Tax Map 1, Parcel 5	Hamlin Engineering	1 to 5 ac.	24.38 acres
State of Vermont	reconfiguration of the AOT highway garage complex. The Site Plan involves consolidation of existing uses into one main structure to be 36,016 sq. ft. and 2 salt sheds for a total of 54,128 sq. ft., reconfiguration of parking and removal of several structures	Troy Avenue, Tax Map 20, Parcel 1	Vermont Department of Transportation District #5	1 to 5 ac.	12.41 acres
Bushey, Ronald	1 lot	1662 Main Street, Tax Map 22, Parcel 168	Bushey, Ronald	less than 1 ac.	.17 acres
Clavellle	1 lot	618 East Lakeshore	Clavelle, Raymond	less than 1 ac.	Up to 3.46 acres allowed.
Cottonwood Crossing	2/4 lots	816 East Road, Tax Map 12, Parcel 13	David Burke	less than 1 ac.	Up to 11.4 acres allowed
Dickinson, Richard & Erlene	3/6 lots	304 Porters Point Road, Tax Map 41, Parcel 29	David Goodrich	1 to 5 ac.	Up to .7 acres allowed.
Haskins, Samuel & Rivers Edge Development	5/8 lots	2266 Main Street, TM 9, P 3	David Burke	over 5 ac.	Up to 3.25 acres allowed.
Hergenrother, Adam	1 lot	788 Red Rock Rd., Tax Map 77, Parcel 4	Adam Hergenrother	less than 1 ac.	Up to 1.72 acres allowed.

Project	Description	Location	Contact	Acreage Disturbed	Impervious Surface Acreage
Mele	9 lots with 8 new units	422 Malletts Bay Avenue, Tax Map 6, Parcel 9 and 9-1	O'Leary - Burke Civil Assoc.	5 ac.	Up to 16.4 acres allowed.
Veronneau	4 units in 2 duplexes	855 Porters Point Road, Tax Map 42, Parcel 249	Tom Hergenrother	less than 1 ac.	.71 acres

Section 4.2.6

Pollution Prevention/Good Housekeeping for Municipal Operations

Attachment:

1. Sign in sheet for training for DPW maintenance crews
2. Memo documenting MS4 cleaning activities.
3. Testing results of materials removed form catch basins and roadways.
4. 2012 MS4 Indicators

MS4 Municipal Employees Workshop – September 27, 2012 NAME	Session #1 TOWN/MS4
Chelsea Mandigo	Village of Essex Junction
Jay Nadeau	City of Winooski
Tom DiPietro	South Burlington
William Sanderson	Milton
Nathan Lavallee	Milton WWTF
James Bushey	Milton WWTF
Floyd Sheesley	Town of Colchester
Bob Provost	" " "
Brian Line	Winooski
Rick Peet	Williston
MARK Russell	Williston
LISA Sheltra	Williston
Rob Cushman	Milton
JOHN DOLAN	MILTON
Doug Landry	Town of Colchester
Larry Lamphere	Town of Colchester
TOM MANNING	TOWN OF Colchester
BRUCE TROMBLY	TOWN OF MILTON
Steve Woodworth	City of Winooski
Jerry O'Neal	" " "

MS4 Municipal Employees Workshop – September 27, 2012 NAME	Session #2 TOWN/MS4
Guy LABELLE	Winooski (Sesh 1)
Craig Plumb	Milton - (Sesn 1)
Erik Bailey	Winooski
Jary Nadeau	"
Brian Line	"
Jim Justus	Essex Jct
Pat Adams	So. Burl
Tom Tatro	" "
Scott Jacobs	" "
Ben Hollwedel	Essex Town
Brian Roy	"
Nick Cameron	"
Jeremy Giroux	"
DANIEL MLOUNICK	SO. Burlington
Eric Barkyoumb	Essex
Joseph Tammaro	Essex
Todd Blaisdell	Milton
Randy Mathieu	Milton
Tom Drobatt	So. Burl.
[illegible]	So Burl.
[illegible]	SO. BURL.

Randy Mathieu	Town of Milton
Todd Blaisdell	Town of Milton
TODD GREGORY	S. BURL
Joe Gebo	S- BURL
Craig Lambert	S Burl.
GREG MAGNANT	S. B.
Dustin KEELTY	MILTON
SEAN CHELSON	MILTON
Samuel Cameron	" "
Roy Delogu	" "
ANDREW NOONAN	MILTON
MARK MOSELY	" "
Jeremy Cioa	TOWN OF ESSEX
Nick [illegible]	Town of essex

MS4 Municipal Employees Workshop – September 27, 2012 NAME	Session #3 TOWN/MS4
Gary Jennings	Colchester DPW
DANE P. McGRATH	Colchester DPW
Victor Raymond	Shelburne
Paul Goodrich	Shelburne
Rob LeBeau	Shelburne
Peter Righ	Town of Essex
Tom Martin	" "
BOB Miller	" "
Mark Metivier	B.T.A
Gerry Carey	B.T.A
Scott Smith	Colchester
Greg Hill	BTV Airport
Jerry Lesage	Town of Essex
Ken Booker	Town of Essex
Dan Roberge	" "
Jackie Kline	TOWN OF ESSEX
Loren Ward	" "
Jeff Smoik	Town of Colchester
Buzzy Julien	" "
LORIANO CODREAM	[illegible]

Rob Lorenz	Rob Burlington
Bill Geehan	Burlington
Roger Hunt	R Milton

Town of Colchester
Department of Public Works

Memo

To: Bryan K. Osborne, Director of Public Works

From: Floyd Sheesley, P.E., Operations Manager FS

Cc:

Date: March 12, 2013

Re: MS4 Permit information

We currently have 314 catch basins and 58 outfalls associated with 35 Stormwater Permits that are inspected at least annually.

Catch basin cleanings totaled 28 cubic yards of material and the town collected approximately 48 cubic yards of street sweepings last spring and approximately 42 cubic yards of leaf debris in the fall.

ENDYNE Inc.
Environmental Laboratories

Laboratory Report

Colchester, Town of	100580
PO Box 55	
Colchester, VT 05446	
Atten: Anja Twite	

PROJECT: Street Sweepings
WORK ORDER: **1106-07277**
DATE RECEIVED: June 02, 2011
DATE REPORTED: June 15, 2011
SAMPLER: Floyd Sheesley

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

Laboratory Report

CLIENT: Colchester, Town of
PROJECT: Street Sweepings
REPORT DATE: 6/15/2011

WORK ORDER: 1106-07277
DATE RECEIVED: 06/02/2011

TEST METHOD: EPA 8260B

001 Site: Street Sweeping Catch Basin - Cleaning Pile Date Sampled: 6/2/11 14:15 Analysis Date: 6/14/11 W MGT

Parameter	Result	Unit	Nelac	Qual
Dichlorodifluoromethane	< 95.0	ug/Kg, Dry	N	
Vinyl chloride	< 38.0	ug/Kg, Dry	A	
Chloroethane	< 95.0	ug/Kg, Dry	A	
Diethyl ether	< 95.0	ug/Kg, Dry	U	
Acetone	< 190	ug/Kg, Dry	N	
Methylene chloride	< 95.0	ug/Kg, Dry	A	
Methyl-t-butyl ether (MTBE)	< 38.0	ug/Kg, Dry	A	
Di-isopropyl ether (DIPE)	< 38.0	ug/Kg, Dry	U	
Ethyl-t-butyl ether (ETBE)	< 38.0	ug/Kg, Dry	U	
2,2-Dichloropropane	< 38.0	ug/Kg, Dry	N	
Bromochloromethane	< 38.0	ug/Kg, Dry	N	
Tetrahydrofuran	< 190	ug/Kg, Dry	U	
Carbon tetrachloride	< 19.0	ug/Kg, Dry	A	
? Benzene	< 19.0	ug/Kg, Dry	A	
1,2-Dichloroethane	< 19.0	ug/Kg, Dry	A	
1,2-Dichloropropane	< 38.0	ug/Kg, Dry	A	
Bromodichloromethane	< 19.0	ug/Kg, Dry	A	
4-Methyl-2-pentanone (MIBK)	< 190	ug/Kg, Dry	N	
trans-1,3-Dichloropropene	< 38.0	ug/Kg, Dry	A	
Tetrachloroethene	< 19.0	ug/Kg, Dry	A	
2-Hexanone	< 190	ug/Kg, Dry	N	
1,2-Dibromoethane	< 19.0	ug/Kg, Dry	N	
Ethylbenzene	< 19.0	ug/Kg, Dry	A	
Xylenes, Total	< 38.0	ug/Kg, Dry	A	
Bromoform	< 38.0	ug/Kg, Dry	A	
1,1,2,2-Tetrachloroethane	< 38.0	ug/Kg, Dry	A	
n-Propylbenzene	< 19.0	ug/Kg, Dry	A	
2-Chlorotoluene	< 19.0	ug/Kg, Dry	N	
4-Chlorotoluene	< 19.0	ug/Kg, Dry	N	
1,2,4-Trimethylbenzene	< 19.0	ug/Kg, Dry	A	
4-Isopropyltoluene	< 19.0	ug/Kg, Dry	A	
1,4-Dichlorobenzene	< 19.0	ug/Kg, Dry	A	
1,2-Dichlorobenzene	< 19.0	ug/Kg, Dry	A	
1,2,4-Trichlorobenzene	< 38.0	ug/Kg, Dry	N	
Hexachlorobutadiene	< 19.0	ug/Kg, Dry	N	
1,2,3-Trichlorobenzene	< 38.0	ug/Kg, Dry	N	
Surr. 2 (Toluene d8)	100	%	A	
Unidentified Peaks	1		U	

Parameter	Result	Unit	Nelac	Qual
Chloromethane	< 57.0	ug/Kg, Dry	A	
Bromomethane	< 95.0	ug/Kg, Dry	A	
Trichlorofluoromethane	< 38.0	ug/Kg, Dry	N	
1,1-Dichloroethene	< 19.0	ug/Kg, Dry	A	
Carbon disulfide	< 95.0	ug/Kg, Dry	N	
t-Butanol	< 380	ug/Kg, Dry	N	
trans-1,2-Dichloroethene	< 19.0	ug/Kg, Dry	A	
1,1-Dichloroethane	< 19.0	ug/Kg, Dry	A	
2-Butanone	< 190	ug/Kg, Dry	A	
cis-1,2-Dichloroethene	< 19.0	ug/Kg, Dry	N	
Chloroform	< 19.0	ug/Kg, Dry	A	
1,1,1-Trichloroethane	< 19.0	ug/Kg, Dry	A	
1,1-Dichloropropene	< 19.0	ug/Kg, Dry	N	
t-Amylmethyl ether (TAME)	< 38.0	ug/Kg, Dry	U	
Trichloroethene	< 19.0	ug/Kg, Dry	A	
Dibromomethane	< 38.0	ug/Kg, Dry	N	
cis-1,3-Dichloropropene	< 19.0	ug/Kg, Dry	A	
Toluene	< 19.0	ug/Kg, Dry	A	
1,1,2-Trichloroethane	< 19.0	ug/Kg, Dry	A	
1,3-Dichloropropane	< 19.0	ug/Kg, Dry	N	
Dibromochloromethane	< 38.0	ug/Kg, Dry	A	
Chlorobenzene	< 19.0	ug/Kg, Dry	A	
1,1,1,2-Tetrachloroethane	< 38.0	ug/Kg, Dry	N	
Styrene	< 19.0	ug/Kg, Dry	N	
Isopropylbenzene	< 19.0	ug/Kg, Dry	A	
Bromobenzene	< 19.0	ug/Kg, Dry	N	
1,2,3-Trichloropropane	< 38.0	ug/Kg, Dry	N	
1,3,5-Trimethylbenzene	< 19.0	ug/Kg, Dry	A	
t-Butylbenzene	< 19.0	ug/Kg, Dry	A	
s-Butylbenzene	< 19.0	ug/Kg, Dry	A	
1,3-Dichlorobenzene	< 19.0	ug/Kg, Dry	A	
n-Butylbenzene	< 19.0	ug/Kg, Dry	A	
1,2-Dibromo-3-Chloropropane	< 38.0	ug/Kg, Dry	N	
1,3,5-Trichlorobenzene	< 38.0	ug/Kg, Dry	U	
Naphthalene	< 38.0	ug/Kg, Dry	A	
Surr. 1 (Dibromofluoromethane)	97	%	A	
Surr. 3 (4-Bromofluorobenzene)	97	%	A	

ENDYNE, INC.
160 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY-RECORD

57005

Special Reporting Instructions/PO#:

Project Name: STREET SWEEPINGS

State of Origin: VT ✓ NY __ NH __ Other __

Endyne WO # 1106-07277

Client/Contact Name: TOWN OF COLCHESTER

Phone #: 264-5621

Mailing Address: P.O. Box 55 Colchester, VT 05446

Sampler Name: FLOYD SHEESLEY

Phone #: 264-5621

Billing Address: P.O. Box 55 COLCHESTER VT 05446

Sample Location	Matrix	RCRA	GW	Date/Time Sampled	Sample Container No.	Sample Container Type/Size	Sample Preservation	Analysis Required	Field Results/Remarks	Due Date
STREET SWEEPING/CATCH BASIN Cleaning PILE			X	6-2-11 2:15 PM	1			8260 B		

Relinquished by: [signature] Date/Time 6-2-11 2:45

Received by: Date/Time

Received by: [signature] Date/Time 6/2/11 2:45

1	pH	6	TKN	11	Total Solids	16	Sulfate	21	1664 TPH/FOG	26	8270 PAH Only
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	8015 GRO	27	8081 Pest
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	8015 DRO	28	8082 PCB
4	Nitrite N	9	BOD	14	Turbidity	19	VT PCF	24	8260B	29	PP13 Metals
5	Nitrate N	10	Alkalinity	15	Conductivity	20	VOC Halocarbons	25	8270 B/N or Acid	30	Total RCRA8
31	Metals (Total, Diss.) Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Tl, U, V, Zn										
32	TCLP (volatiles, semi-volatiles, metals, pesticides, herbicides)					33	Other				
34	Corrosivity	35	Ignitability	36	Reactivity	37	Other				
38	Other										

LAB USE ONLY
Delivery: Courier
Temp: 3.4
Comment:

(White - Laboratory / Yellow - Client)

2012 MS4 INDICATORS	MS4
CATCH BASIN CLEANING CYDS or #BASINS CLEANED	28 CYDS
STREET SWEEPING (DIRT&LEAVES) CYDS OR #ROAD MILES SWEPT	100 CYDS
GREEN-UP & STREAM CLEAN-UPS #TONS OF TRASH DISPOSED **(CSWD-just trash not metals or tires)**	3.95
HAZ WASTES DISPOSED OR REUSED LBS **(CSWD JULY-JULY)**	
#STORMWATER OUTFALLS SURVEYED	58
#CATCHBASIN INSPECTIONS	314
#STORM DRAINS MARKED	243
#ILLICIT DISCHARGES DETECTED	1
#ILLICIT DISCHARGES ELIMINATED	1
#CONSTRUCTION EROSION SITE INSPECTIONS	1,466
#SITE PLAN REVIEWS FOR SW MANAGEMENT	642
# SW DISCHARGE PERMIT RENEWALS	24
DOLLARS SPENT ON STORMWATER PROGRAM	$360,421
MUNICIPAL EMPLOYEE TRAINING WORKSHOP ATTENDANCE (HRS)	20 hrs.
#PET WASTE BAGS DISTRIBUTED	24,000
CHANNEL PROTECTION VOL. CREATED (CUBIC FEET OR ACRE-FT)	