

This report covers activities which occurred between the following dates:

1/1/2015 to 12/31/2015

For questions regarding this report contact:

Lou Spina
41 West Street
Cromwell, CT 06416

Stormwater Program Permit Information

1. Permitting Authority: CT DEEP	
2. Permit Number: DEP-PED-GP-021	3. Permit Type: MS4
4. Permit Name: STORMWATER MANAGEMENT PLAN	
5. Date Issue: 1/9/2004	6. Date Expire: 1/8/2015

General Information for MS4 Operator

1. Operator Name:	Jon Sistaire		
2. Operator Title:	Town Manager		
3. Represented Entity:	Town of Cromwell		
4. Mailing Address:	41 West Street		
5. Mail City, State, Zip:	Cromwell, CT 06416		
6. Phone Number:	(860) 632-3410		
7. E-Mail Address:	jsistaire@cromwellct.com		
8. Co-Permitting With:			
9. Population: 12,900	Households: 5,100	Area (sq mi): 14	
10. Official Website:	cromwellct.com		

General Information for Primary Contact Person

1. Name:	Lou Spina
2. Title:	Director of Public Works
3. Phone Number	(860) 632-3420
4. E-Mail Address:	lspina@cromwellct.com

General Information for Secondary Contact Person

1. Name:	Jon Harriman
2. Title:	Town Engineer
3. Phone Number	8606323465
4. E-Mail Address:	jharriman@cromwellct.com

General Information for Receiving Waters

Receiving Water Lists: Listed below are all the identified receiving waterbodies to which identified outfalls discharge.

Receiving Streams (creek, stream, river, etc.)	Receiving Waterbodies (lake, wetland, ocean, etc.)	Receiving Watersheds
MATTABESSET RIVER CONNECTICUT RIVER	N/A	MATTABESSET REGIONAL BASIN (4600) CONNECTICUT MAIN STREAM (4000)

Public Outreach and Education -'15

Labor Budget:

0

Non-Labor Budget:

0

Labor Budget Summary

Non-Labor Budget Summary

Develop education and outreach

Start Date: 12/18/2015

End Date: 12/19/2015

Permits Years during which activities are scheduled:

	Labor Budget (hrs)	Non-Labor Budget (\$)
Year 1	0.00	0.00
Year 2	0.00	0.00
Year 3	0.00	0.00
Year 4	0.00	0.00
Year 5	0.00	0.00

BMP Description:

Develop and implement a public education and outreach program to distribute educational materials to the community,

Conduct equivalent outreach activities about the detrimental effects of storm water on local water bodies and the steps that can be taken to reduce storm water pollution.

Year Five and beyond: Activities begun in years one thru five will continue and will be modified as necessary. As the program moves to watershed-based education, messages and education activities will continue to be directed to the Town's broad audiences. We will also begin to incorporate broad storm water messages on radio and television. The goal of watershed based education is two-fold: to have the target audience learn that they live in a community environmentally defined by a watershed and they are the caretakers who must learn new behaviors. The Town intends to work to ensure activities and messages are cohesive and resources efficiently utilized. What specific tools, messages and sequencing or layering of messages will be influenced by a number of physical, economic and stakeholder driven factors.

To use education to garnish support for future stormwater initiatives.

Permit Requirement.

Work performed for the BMP listed above

Date of activity: 1/1/2015

Information disseminated to the public

1. Through the office of the Department of Public Works (DPW) , the following information pamphlets had been disseminated to the public:

a. Wisconsin Department of Natural resources:

"Better Homes and Groundwater"

b. Wisconsin Department of Natural resources:

"Car Care for Cleaner Water"

c. Wisconsin Department of Natural resources:

"Cleaning Up Stormwater Runoff"

d. Wisconsin Department of Natural resources:

"Erosion Control for Home Builders"

e. Wisconsin Department of Natural resources:

"Polluted Urban Runoff" A Source of Concern

f. Wisconsin Department of Natural resources:

"Storm Drain Stenciling"

g. Wisconsin Department of Natural resources:

"Storm Sewers Beneath Our Feet"

h. Wisconsin Department of Natural resources:

"Lawn & Garden Fertilizers"

i. Wisconsin Department of Natural resources:

"Lawn Garden Pesticides"

j. Wisconsin Department of Natural resources:

"Lawn Watering"

k. Wisconsin Department of Natural resources:

"Lawn Weed Control"

l. Wisconsin Department of Natural resources:

"Pet Waste and Water Quality"

m. Wisconsin Department of Natural resources:

"Managing Leaves and Yard Trimmings"

n. Wisconsin Department of Natural resources:

"The Wealth of Waterways"

o. City of Columbia Missouri:

"Glossary of Stormwater Terms"

2. Completion of Stream identification signs at intersections of all roads and major streams within Cromwell.

3. Installation/Use of portable public display structure for the Town's Library and public buildings. Completion of Public display at Town Hall.

- commercial establishments for all future mailings.
5. Supported the CRCOG "HazWaste Collection" Program with two collection events (April and November).
6. Placed MS4 Annual Report on Town website.

Public Participation / Involvement -'15

Labor Budget: 0 Non-Labor Budget: 0

Labor Budget Summary	Non-Labor Budget Summary
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Promote citizen participation

Start Date: 12/18/2015

End Date: 12/19/2015

Permits Years during which activities are scheduled:

	Labor Budget (hrs)	Non-Labor Budget (\$)
Year 1	0.00	0.00
Year 2	0.00	0.00
Year 3	0.00	0.00
Year 4	0.00	0.00
Year 5	0.00	0.00

BMP Description:

Year Five and beyond: Activities begun in years one through five will continue and will be modified as necessary. As the program moves to watershed-based education, messages and education activities will continue to be directed to the Town's broad audiences. We will also begin to incorporate broad storm water messages on radio and television. The goal of watershed based education is two-fold: to have the target audience learn that they live in a community environmentally defined by a watershed and they are the caretakers who must learn new behaviors. The Town intends to work to ensure activities and messages are cohesive and resources efficiently utilized. What specific tools, messages and sequencing or layering of messages will be influenced by a number of physical, economic and stakeholder driven factors.

Work performed for the BMP listed above

Date of activity: 1/1/2015

Citizen Participation

Through advertising the Town of Cromwell had 115 households participate in Household Hazardous Waste Collection days (spring and fall). These were held in East Hampton in the spring and Middletown in the fall. This was the highest participation rate recorded to date for the Town. Participation is voluntary.

Illicit Discharges and Elimination -'15

Labor Budget:	0	Non-Labor Budget:	0
Labor Budget Summary		Non-Labor Budget Summary	

Detect and eliminate illicit discharges

Start Date: 12/18/2015 End Date: 12/19/2015

Permits Years during which activities are scheduled:

	Labor Budget (hrs)	Non-Labor Budget (\$)
Year 1	0.00	0.00
Year 2	0.00	0.00
Year 3	0.00	0.00
Year 4	0.00	0.00
Year 5	0.00	0.00

BMP Description:

Water Quality Monitoring
Dry Weather Monitoring Program
Wet Weather Monitoring Program
Illicit Connection / Illicit Discharge

Inventories

Review and refine watershed inventories
Assess threat to water quality priorities and revise, if necessary
Revise and refine water quality threat priorities of facilities in database
Update inventories for Annual Assessment Form

Enforcement of Storm Water Ordinance

Train code compliance officers
Coordinate with other departments involved in code compliance activities
Prepare & submit annual activities report

Work performed for the BMP listed above

Date of activity: 1/1/2015

Continuation of DPW's GIS mapping

1. Expansion of DPW's GIS mapping program of the storm water system; Identifying the entire Town's stormwater conveyance system, including the State DOT's drainage system within the Town's boundaries. Town owned structures included approximately 300 outlet structures (headwalls, flared ends, open pipes) and 1500 inlet structures (manholes, catch basins, etc.), and 133,000 linear feet of pipe. The Town contracted with AppGEO to continue the updating of the MS4 system. At this point the mapping updates generally consist of the addition of stormwater mapping of newly constructed subdivisions and small commercial developments.
2. Continued DPW's Asset Management Program for storm water inventory.
3. Continued MS4 storm water sampling during wet weather events and dry weather events.
4. Continued sampling the Town Transfer Station and Highway Garage as per the Industrial Stormwater Permit requirements. 4 sampling efforts made, one each quarter.

Construction Site Runoff Control - '15

Labor Budget:

0 Non-Labor Budget:

0

Labor Budget Summary

Non-Labor Budget Summary

To use a variety of controls to reduce pollution

Start Date: 12/18/2015

End Date: 12/19/2015

Permits Years during which activities are scheduled:

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Year 3	0.00	0.00
Year 4	0.00	0.00
Year 5	0.00	0.00

BMP Description:

Land Use Planning

1. Make storm water information available on the department web site.

Complete conservation and land use elements update.

Coordinate with the appropriate departments to consider amendments to the street design and the drainage design specifications

Coordinate with the Planning Department to amend landscape regulations

Support ongoing development of storm water and urban runoff pollution prevention programs

Prepare & submit annual activities report

Assess & revise budget

2. Development Review & Permitting

Complete Drainage Design Manual update

Prepare & submit annual assessment form

Assess & Revise storm water budget

3. CIP Project Planning & Design

Implement Year 4 storm water practices

Education activities

Prepare & submit annual activities report

Assess, revise budget

Modify storm water guidelines, specifications, details, etc. as necessary

4. Construction Contracts

Modify (as necessary) and enforce BMP requirements for construction activities

Education activities

Prepare & submit annual activities report

Revise budget

Work performed for the BMP listed above

Date of activity: 1/1/2015

Control construction site runoff

1. Engineering Department continued to review and comment on applications for subdivision and siteplans through Inland Wetlands and Planning and Zoning. The CTDEP Stormwater Quality Manual (2004) was used as a guideline.
2. Town staff in the engineering, planning and zoning enforcement departments continued to perform routine inspections of private site developments.
3. Town staff in the engineering, planning and zoning enforcement departments performed routine inspections of the following subdivisions under construction:
Sunset Ridge (Thomas Court) accepted as a Town Road this fall
North Woods (Fawn Drive, Bucks Crossing)
4. Town staff in the engineering, planning and zoning enforcement departments performed inspections of CIP projects undertaken by the Public Works Department:
On street Parking construction - Veterans Memorial Green
Reconstruction of County Line Drive
Dog Park drainage modification

Post Construction Runoff Control -'15

Labor Budget: 0 Non-Labor Budget: 0

Labor Budget Summary	Non-Labor Budget Summary
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Reduction of Pollution for permanent BMPs

Start Date: 12/18/2015 End Date: 12/19/2015

Permits Years during which activities are scheduled:

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Year 3	0.00	0.00
Year 4	0.00	0.00
Year 5	0.00	0.00

BMP Description:

1. Develop cooperative partnerships with industry and trade associations
Develop outreach plan with trade and industry associations
Adjust program based on conclusions and recommendations of Annual Report Perform routine inspections
Continue to facilitate dissemination of educational material
Verify and update inventory database
Prepare Annual Report with assessment conclusions and recommendations

Work performed for the BMP listed above

Date of activity: 1/1/2015

Reduction of Pollution

1. Supported the CRCOG "HazWaste Collection" Program - 2 events (April and Novemeber 2015)
2. Continued the implementation of a policy through planning&zoning & wetlands whereby any approved site plan would require the submission of a report of the annual O&M stormwater measures completed to Town staff by January 31 of the following year.
3. The Highway Division replacwed seven failed catach basin structures that had collapsed allowing surrounding soils into the stormwater system. These catch basins were older and of block and mortar construction. They were replaced with precast units that should not fail in the same manner.

Pollution Prevention / Good Housekeeping -'15

Labor Budget:

0 Non-Labor Budget:

0

Labor Budget Summary

Non-Labor Budget Summary

Catch Basin Inspection/Cleaning

Start Date: 12/18/2015

End Date: 12/19/2015

Permits Years during which activities are scheduled:

	Labor Budget (hrs)	Non-Labor Budget (\$)
Year 1	0.00	0.00
Year 2	0.00	0.00
Year 3	0.00	0.00
Year 4	0.00	0.00
Year 5	0.00	0.00

BMP Description:

Routinely Inspect and Clean Catch Basins to reduce pollution. Catch basins must be emptied periodically to reduce the discharge of pollutants to the receiving water bodies.

Work performed for the BMP listed above

Date of activity: 1/1/2015

Catch basin cleaning - contracted services

The Town of Cromwell Contracted with Shaw Vac Services for this year. More than 800 catch basins were cleaned this year. As a result of the inspections, five catch basins were identified as deficient and were replaced.

Heavy Truck washing

Start Date: 12/18/2015

End Date: 12/19/2015

Permits Years during which activities are scheduled:

	Labor Budget (hrs)	Non-Labor Budget (\$)
Year 1	0.00	0.00
Year 2	0.00	0.00
Year 3	0.00	0.00
Year 4	0.00	0.00
Year 5	0.00	0.00

BMP Description:

To clean Highway and Sewer Department vehicles in an approved wash bay to reduce or eliminate wash waters from contacting the environment.

Work performed for the BMP listed above

Date of activity: 1/1/2015**Construction vehicle washing**

The Town of Cromwell continued to wash heavy equipment in the area designated for washing outside the Maintenance garage. The drainage system in the wash area is connected to a catch basin that is connected to an oil/grit separator that is then connected to the sanitary sewer.

Improve general maintenance of municipal storm system

Start Date: 12/18/2015

End Date: 12/19/2015

Permits Years during which activities are scheduled:

	Labor Budget (hrs)	Non-Labor Budget (\$)
Year 1	0.00	0.00
Year 2	0.00	0.00
Year 3	0.00	0.00
Year 4	0.00	0.00
Year 5	0.00	0.00

BMP Description:

Implement storm water BMPs

Prepare projected storm water budget

Education activities

Prepare & submit annual activities report

Work performed for the BMP listed above

Date of activity: 1/1/2015**Housekeeping**

1. More than 800 inlet structures were inspected. This inspection was primarily done during the vaccing process by Town staff in the highway department. Additional catch basin issues were brought forth by citizen complaints. Catch basins were either repaired or replaced.

Pool vehicle washing

Start Date: 12/18/2015

End Date: 12/19/2015

Permits Years during which activities are scheduled:

	Labor Budget (hrs)	Non-Labor Budget (\$)
Year 1	0.00	0.00
Year 2	0.00	0.00
Year 3	0.00	0.00
Year 4	0.00	0.00
Year 5	0.00	0.00

BMP Description:

Minimize wash water runoff caused by the washing of Town of Cromwell pool vehicles.

Work performed for the BMP listed above

Date of activity: 1/1/2015

pool vehicle washing

The Town of Cromwell obtained a PO to have all Town pool vehicles washed at the local car wash as needed.

Winter weather road treatment

Start Date: 12/18/2015

End Date: 12/19/2015

Permits Years during which activities are scheduled:

	Labor Budget (hrs)	Non-Labor Budget (\$)
Year 1	0.00	0.00
Year 2	0.00	0.00
Year 3	0.00	0.00
Year 4	0.00	0.00
Year 5	0.00	0.00

BMP Description:

Reduce or eliminate the use of sand on winter road conditions. Sand can enter catch basins and be transported to the receiving water bodies via existing outfalls. Sand also adds increased costs for road sweeping and catch basin cleaning operations.

Work performed for the BMP listed above

Date of activity: 1/1/2015

Treated salt

Treated salt was once again for snow plowing operations. No sand was used.

Public Participation / Involvement - '14		
Jon Harriman, P.E.		
Promote citizen participation		
	12/8/2014	12/9/2014
Illicit Discharges and Elimination - '14		
Jon Harriman, P.E.		
Detect and eliminate illicit discharges		
	12/15/2014	12/16/2014
Construction Site Runoff Control - '14		
Jon Harriman, P.E.		
To use a variety of controls to reduce pollution		
	12/15/2014	12/16/2014
Post Construction Runoff Control - '14		
Jon Harriman, P.E.		
Reduction of pollution for permanent BMP's		
	12/15/2014	12/16/2014
Pollution Prevention / Good Housekeeping - '14		
Lou Spina		
Catch Basin Inspection/Cleaning		
	12/15/2014	12/16/2014
Jon Harriman, P.E.		
Improve general maintenance of municipal storm system		
	12/15/2014	12/16/2014
Pool vehicle and truck washing		
	12/15/2014	12/16/2014
Pool vehicle and truck washing contracts		
	12/15/2014	12/16/2014
Winter weather road treatment		
	12/15/2014	12/16/2014
Public Outreach and Education - '15		
Jon Harriman, P.E.		
Develop education and outreach		
	12/18/2015	12/19/2015
Public Participation / Involvement - '15		
Jon Harriman, P.E.		
Promote citizen participation		
	12/18/2015	12/19/2015
Illicit Discharges and Elimination - '15		
Jon Harriman, P.E.		
Detect and eliminate illicit discharges		
	12/18/2015	12/19/2015
Construction Site Runoff Control - '15		
Jon Harriman, P.E.		
To use a variety of controls to reduce pollution		

	12/18/2015	12/19/2015
Post Construction Runoff Control -'15		
Jon Harriman. P.E.		
Reduction of Pollution for permanent BMPs		
	12/18/2015	12/19/2015
Pollution Prevention / Good Housekeeping -'15		
Lou Spina		
Catch Basin Inspection/Cleaning		
	12/18/2015	12/19/2015
Heavy Truck washing		
	12/18/2015	12/19/2015
Jon Harriman. P.E.		
Improve general maintenance of municipal storm system		
	12/18/2015	12/19/2015
Lou Spina		
Pool vehicle washing		
	12/18/2015	12/19/2015
Winter weather road treatment		
	12/18/2015	12/19/2015