

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Phase II SPDES General Permit for

Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s), GP-02-02
MUNICIPAL COMPLIANCE CERTIFICATION (MCC) FORM



Regulated MS4: Town of Putnam Valley SPDES Permit Number: NYR20A345

See information packet for information to help complete this form.

MCC Form for year ending: March 9, 2006 (Year 3) X 2007 (Year 4) 2008 (Year 5)

Section A. MS4 Owner/Operator and Contact Person Information (contact persons explained in instructions)

Owner/Operator Is information below new or changed? X Yes No

Name: Sam Davis	Title: Supervisor	Department: Town Hall
--------------------	----------------------	--------------------------

Mailing Address:	Street or P.O. Box: 265 Oscawana Lake Road	City: Putnam Valley
	County: Putnam	State: New York

Phone: (845) 526 - 2121	E-mail Address: sdavis@putnamvalley.com
----------------------------	--

Local Stormwater Public Contact (Required by Minimum Measure 2)

Is information below: 1) new or changed? X Yes No
2) same as: Owner/Operator

Name: Susan Manno	Title: Town of Putnam Valley Stormwater Coordinator	Department: Town Hall
----------------------	--	--------------------------

Mailing Address:	Street or P.O. Box: 265 Oscawana Lake Road	City: Putnam Valley
	County: Putnam	State: New York

Phone: (845) 526-9114	E-mail Address:
--------------------------	-----------------

Stormwater Management Program (SWMP) Coordinator (Responsible for implementation/coordination of SWMP)

Is information below: 1) new or changed? X Yes No
2) same as: Owner/Operator Local Stormwater Public Contact

Name: Gary Wulfhop	Title: Deputy Highway Superintendent	Department: Highway
-----------------------	---	------------------------

Mailing Address:	Street or P.O. Box: 265 Oscawana Lake Road	City: Putnam Valley
	County: Putnam	State: New York

Phone: (845) 526 - 3333	E-mail Address: highway@putnamvalley.com
----------------------------	---

Annual Report Preparer

Is information below: 1) new or changed? X Yes No
2) same as: Owner/Operator Local Stormwater Public Contact SWMP Coordinator

Name: J. Robert Folchetti and Associates, LLC	Title: Civil and Environmental Engineers	Department:
--	---	-------------

Mailing Address:	Street or P.O. Box: 247 Route 100 - Suite 1003	City: Somers
	County: Westchester	State: New York

Phone: (914) 232 - 2500	E-mail Address: John.Folchetti@jrfa.com
----------------------------	--

IMPORTANT NOTE: Rows can be added to the tables in the following sections by going to the rightmost cell in the bottom row of the table and hitting tab. Hitting return in a given row will make the row wider, creating more room to type or write.

Section B. Local Water Quality Information
Information to help complete this section can be found in the instructions.

1. Does the MS4 discharge to 303(d) listed waters or is it in a TMDL watershed?
 Yes (complete the table below) No Not Yet Determined
(Put an X in the 'Classification' cell to indicate if the MS4 discharges to a waterbody on the 303(d) list and / or if it is in a TMDL watershed.)

Impaired Waters Name (from 303 (d) list and/or TMDL)	Pollutant(s) of Concern (from 303 (d) list and/or TMDL)	Classification	
		303 (d)	TMDL
Oscawana Lake	Phosphorus	X	
Boyds Corners Reservoir Basin	Mercury	X	
Amawalk Reservoir Basin	Mercury	X	

2. Have you received notification from the Department that you are subject to the special conditions in Part III.B. of the permit?
 Yes
 No

3. Have all necessary changes been made to the Stormwater Management Program (SWMP) to ensure compliance with Part III.B. of the MS4 permit for discharges to 303(d) or TMDL waters?
 Yes
 No (explain below)

Explanation:
The Town of Putnam Valley will begin phosphorus and mercury reduction in compliance with the special conditions in Part III.B of the MS4 permit when the Draft Proposed Heightened Permit Requirements For MS4's In the East of Hudson Watershed is issued as Final. The Town of Putnam Valley has not yet adopted the local law, which shall be enacted by the end of the summer of 2007. The Town has begun phosphorus reduction in the Lake Oscawana community via bidding a contract for retrofitted catch basins.

Section C. Partnership Information Information to help complete this section can be found in the instructions.
1. Does your MS4 work with partners? <input checked="" type="checkbox"/> Yes (complete table below) <input type="checkbox"/> No (Proceed to Section D)
List MS4 Partners with Legally Binding Agreements or Contracts in Place
Intermunicipality agreement with Putnam County (Resolution #-60-021) was agreed upon by the Board of Trustees on February 15, 2006.
List MS4 Partners with Planned Legally Binding Agreements or Contracts
List MS4 Partners with Other Agreements in Place

Section D. Geographic Areas Addressed by Stormwater Management Program (SWMP) Information to help complete this section can be found in the instructions.
1. Does your SWMP cover all jurisdictional (automatic and additionally designated) areas within the MS4, as required by 40 CFR 122.32(a)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain below)
Explain:

Section E. Funding and Resource Allocation
Information to help complete this section can be found in the instructions.
1. Are adequate resources (funding mechanism, equipment, staff, etc.) planned or in place to fully implement your SWMP no later than January 8, 2008? ___ Yes <u>X</u> No (explain below)
Explain: The Town of Putnam Valley is waiting for the Board to approve funding for drainage maps. There is not enough grant money or money in the budget to complete the program by January 8, 2008.
2. If the <u>MS4 is receiving funding</u> through the municipal budget, a grant, or other source, briefly explain below: what are the sources, estimated amounts, and frequency of funding for the MS4?
Explain: The Town of Putnam Valley received a 50/50 grant received for a vacuum truck for \$87,500.00 on August 15, 2006. The Town of Putnam Valley has applied for grant funding through the New York State Department of Environmental Conservation for GIS equipment, which will be necessary to complete the goals for the MS4 compliance. The Town has not received any information in regards to the status of this grant.
3. If the <u>MS4 is not receiving funding</u> , briefly explain below: plans the MS4 has for obtaining future funding?
Explain:

Section F. Compliance Certification


Compliance Assessment - For each of the minimum control measures, indicate below if your program has made steady progress toward full implementation *and* has achieved all measurable goals scheduled to be completed **during this reporting year**. Refer to the NOI and prior Annual Reports for information about measurable goals scheduled for this reporting year.

Permit Part	Minimum Control Measure	ANSWER BOTH COLUMNS FOR THIS REPORT YEAR ONLY			
		Steady Progress		Goals Achieved	
IV.C.1.	Public Education and Outreach on Stormwater Impacts Explain 'no' / 'N/A' answer: Two publications were done. The first was targeting local businesses in the Town of Putnam Valley and the second was in a newsletter that was mailed to residents. The newsletter was also available at the Town Hall and the local library.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
IV.C.2.	Public Involvement / Participation Explain 'no' / 'N/A' answer:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
IV.C.3.	Illicit Discharge Detection and Elimination The sources were not identified for the illicit discharges; therefore the discharges were not eliminated. The outfall information is almost complete in paper format. Source identification will be completed by the next reporting period.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
IV.C.4.	Construction Site Stormwater Runoff Control Explain 'no' / 'N/A' answer:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
IV.C.5.	Post-Construction Stormwater Management Explain 'no' / 'N/A' answer:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
IV.C.6.	Pollution Prevention / Good Housekeeping for Municipal Operations Explain 'no' / 'N/A' answer:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print Name: Sam Davis Title: Supervisor, Town of Putnam Valley

Signature:  Date: 5/22/07

This form must be signed by either a principal executive officer or ranking elected official, or duly authorized representative of that person as described in Part VI.I.2. of the permit. See instructions for more information about who can sign this form.

Send two completed **hard copies** (an original and a photocopy) of this form, the Annual Report Table and any attachments to the DEC Central Office (MS4 Permit Coordinator, 625 Broadway, Division of Water - 4th Floor, Albany, NY 12233-3505). **DO NOT SUBMIT REPORTS IN THREE-RING BINDERS.**



Phase II SPDES General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s), GP-02-02 STORMWATER MANAGEMENT PROGRAM ANNUAL REPORT (SWMPAR) TABLE

Regulated MS4: Town of Putnam Valley SPDES Permit Number: NYR20A345

Annual Report Table for year ending: March 9, 2006 (Year 3) X 2007 (Year 4) 2008 (Year 5)

Information about how to complete the follow tables is in the instruction section. Please complete the tables electronically, if possible. Send two completed hard copies (an original and a photocopy) of this Annual Report Table, the MCC form and any attachments to the DEC Central Office (MS4 Permit Coordinator, 625 Broadway, Division of Water - 4th Floor, Albany, NY 12233-3505). **DO NOT SUBMIT REPORTS IN THREE-RING BINDERS.**

Minimum Control Measure 1. Public Education and Outreach

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

<p>Permit Reference IV.C.1.a, b: Plan and conduct an ongoing public education and outreach program to ensure the reduction of all pollutants of concern in stormwater discharges to the maximum extent practicable (MEP).</p> <ul style="list-style-type: none"> <i>Explain the program, including activities and materials used</i> <i>Identify the personnel or outside organization conducting the activity.</i> <i>Indicate activities planned for next year.</i> 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<p>The Putnam Valley Webpage was created by way of an internal web master. Two stormwater management publications targeting selected management practices are planned for the 4th annual reporting period.</p>	<p>The website was created January 2006. It was updated February 15, 2006. The MS4 information will be posted on the webpage by April 2006. This is an ongoing task. The website is constantly updated with new information that is available to residents and local business with regards to various stormwater management practices. This is an ongoing task.</p>
<p>Two brochures about stormwater management practices were made and distributed to the Town Hall, Highway Department, Fire Departments, Library, and Recreation Department. The new pamphlets were distributed with the drinking water permit, building permits, and catch basin design.</p>	<p>Completed task</p> <p>Ongoing task</p>
<p>The library of materials is updated as links and maintained.</p>	<p>Ongoing Task – Through Year 4 and Year 5</p>
<p>A publication of best management activities was posted at the Town of Putnam Valley Building Department.</p>	<p>Posted on November 11, 2006.</p>
<p>A video entitled “After the Storm” co-produced by the EPA (Environmental Protection Agency) and the Weather Channel is posted for viewing on the Town’s website in addition to the posting on local channel 20.</p>	<p>The video was posted on local Channel 20 on December 12, 2006. The video was shown twice a day during the week of January 1, 2007.</p>
<p>The library of materials is constantly updated and added to. It is available at the Town Hall. It is also available on the Town’s website.</p>	<p>Ongoing task.</p>
<p>For the next annual reporting period, public educational meetings will be</p>	<p>Scheduled Task – Year 5</p>

<p>scheduled to concentrate on different management practices targeted to pollutants of concern.</p>	
<p><i>Managing Nonpoint Source Pollution from Households</i> article was available on the Town website for the public (as published by the EPA in March of 1996).</p>	
<p><i>Don't be Wasted by Grass! Lawns to Gardens</i> article authored by Heather Coburn from "Food Not Lawns" (Chelsea Green, 2005) was posted on the Town's website for the residents to read.</p>	
<p>Information was posted on the Town website in regards to the Town's Highway Snow Removal Process. This documents the changes the Town has made in an effort to reduce the amount of salt needed during the winter months. This was done in an effort to educate the public about the changes.</p>	
<p>An educational seminar entitled, "A Presentation of the Water Quality of Lake Peckskill, Putnam county, New York" as held and administered by Fred S. Lubnow, PhD, Director of Aquatics Program of Princeton Hydro, LLC. The presentation included information on the current water quality of the lake, biological data, and watershed control measures that may protect the lake.</p>	<p>The seminar was held on March 18, 2006.</p>
<p>An outdoor posting was available for everyone in regards to keeping the lakes and watercourses clean when transferring boats to and from the water.</p>	<p>The information was posted in the Supervisor's newsletter March of 2006.</p>
<p>A biodiversity information meeting was held at the local high school and administered by the Commission on Conservation of the Environment.</p>	<p>The meeting was held on November 2, 2006.</p>
<p>Additional Techniques</p>	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<p>Explain any changes or additions to the Permit Referenced Activities / Techniques, Measurable Goals and / or Scheduled Dates above and provide a reason(s) for the change:</p>	

Municipality: Town of Putnam Valley

Permit Number: NYR20A345

Minimum Control Measure 2. Public Involvement/Participation

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

	Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)
<p>participation program.</p> <ul style="list-style-type: none"> Describe activities that the MS4 has/will undertake to provide program access to interested individuals and to gather needed input. Indicate activities planned for next year. 	Signed on February 15, 2006.
<p>Putnam County signed an Inter Municipal Agreement (IMA) with the towns in Putnam County.</p> <p>Public notice is provided via announcements at televised Town Board meetings, for key events and upcoming stormwater meetings. Putnam Valley has also provided public notice for all Town SWMP related public hearings by posting notice in the official Town newspaper and posting notice at the Town Hall. Putnam Valley provided full access to the public to review and request copies of all information collected and developed as part of the Town SWMP.</p> <p>In addition to the above-mentioned notices, the Town has also provided announcements via their website.</p>	Ongoing Task
Organized Putnam County Litter Patrol (Town litter pick-up)	The Litter Patrol is coordinated by Putnam County and is done approximately once every three months. This is an ongoing task.
Utilized existing volunteer monitoring by Lake Committees to assist in the Town SWMP assessment (Lake sampling).	The stormwater sampling is an ongoing task.
The public has the opportunity to comment, via the internet, on the various activities within the Town that is posted in the Supervisor's Newsletter, via the Town website.	This is an ongoing task. This is just one way that the town receives feedback from its' residents.
The Town schedules "Bulk Pick Up Days" during the spring and summer months in an effort to have the residents assist with cleaning up bulk garbage. The Town residents "celebrated" Earth Day by cleaning up roadside litter. Everyone who was interested in helping was invited to assist in the clean up.	This is an ongoing task.
The Town posted the date for the County Hazardous Waste Drop Off, along with the phone number and internet website for registering.	In addition to the earth day clean up on April 22, 2006 the town also participated in the Litter Patrol.
Permit Reference IV.C.2.a, f: Develop procedures to provide public notice about and access to documents and information in a manner that complies with state and local public notice requirements. Describe procedures below and state the methods used to publicize the AR public presentation.	Public notice regarding stormwater is presented at all Town Board meetings. Notices have also been posted throughout the Town Hall and local

<p>Public notices are also posted on the Town's website under "Calendar and Agendas" and "Stormwater Management" in addition to the methods listed above.</p>	
<p>In addition, residents can view the presentation regarding the MS4 for the last reporting period (taped on May 10, 2006) on the Town's website. In addition to the video of the presentation to the public, the resolutions and reports of past years' are also listed on the website for public viewing.</p>	
<p>Permit Reference IV.C.2.e: Public presentation of; f: summary of comments received on; and g: intended response to comments on the SWMPAR.</p>	
<p>Summarize attendance at the public presentation of the Annual Report. Include number of attendees and who was represented:</p>	
<p>Comments on Annual Report Meeting ___ No public comments received on Annual Report. ___ Comments received. Attach summary of comments and intended responses.</p>	<p>Date of Annual Report Meeting: April 18th 2007</p>
<p>Additional Techniques</p>	<p>Approximate Date of Meeting Next Year: January 2008</p>
<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>	
<p>Explain any changes or additions to the Permit Referenced Activities / Techniques, Measurable Goals and / or Scheduled Dates above and provide a reason(s) for the change:</p>	

Minimum Control Measure 3. Illicit Discharge Detection and Elimination (IDDE)

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

<p>Permit Reference IV.C.3.a: Develop, implement and enforce a program to detect, identify and eliminate illicit discharges, including illegal dumping, into the MS4.</p> <ul style="list-style-type: none"> • <i>Explain the activities and procedures used to meet this requirement this year and planned for next year.</i> • <i>Revise as procedures are updated.</i> • <i>Identify personnel or outside organization conducting the activities</i> 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p> <ul style="list-style-type: none"> • <i>Example measurable goals: number of illicit discharges detected; number of illicit discharges eliminated.</i>
<p>Putnam Valley has reviewed and assessed the second quartile of the Town MS4 for illicit discharges. This review will require follow-up actions in the next reporting period. For reporting year 4, a review and assess for the third quartile of the Town MS4 for illicit discharges will be completed.</p>	<p>Ongoing Task through Years 4 and 5</p>
<p>For the March 2006 to March 2007 reporting period (Year-4), Putnam Valley will prepare and distribute illicit discharge pamphlets to 50 targeted local businesses and industries.</p>	<p>Year 4 – scheduled completion date</p>
<p>A water project ordinance was adopted June 2002. The Salt Project and a new wash-down facility were completed as well as training for Town employees following this ordinance.</p>	<p>Completed task – for Year 4 Completed Task – June 2002</p>
<p>The Town of Putnam Valley has mailed out pamphlets to 52 businesses within the Town regarding the hazards of illicit discharges. Included with the pamphlets was a letter to the business and a brochure in regards to the Peekskill Hollow Brook.</p>	<p>The letter from the Supervisor to the business owners was dated December 1, 2006.</p>
<p>Permit Reference IV.C.3.b: Develop and maintain a map showing the location of all outfalls and the names and location of all waters of the US that receive discharges from outfalls. <i>Explain activities performed this year and planned for next year, including work on the following IDDE guidance prerequisites:</i></p> <ul style="list-style-type: none"> • field verification of outfall locations; • mapping all inter-municipal subsurface conveyances; • delineating storm sewershed; and • developing and retaining MS4 mapping as needed to find the source and identify illicit discharges. <i>State if maps are in GIS.</i> 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p> <ul style="list-style-type: none"> • <i>Example measurable goals: percent of outfalls mapped</i>
<p>A map regarding outfalls will be in progress in Year 4.</p>	<p>Ongoing Task – Year 4</p>
<p>A paper and pencil map of the outfalls within the Town is 75% complete. The Town has applied for grant funding for GIS capability.</p>	<p>This will be an ongoing task.</p>
<p>The Town has ground and surface maps, which will be updated as necessary.</p>	<p>This information was posted in the Supervisor's Newsletter on December 18, 2006.</p>

--

Minimum Control Measure 3. Illicit Discharge Detection and Elimination (IDDE) Regulatory Mechanism

Permit Reference IV.C.3.c: Prohibit, through an ordinance, local law or other regulatory mechanism, illicit discharges into the MS4. The MS4s have until year 5 to complete the local law work. See the instructions for information about completing this section.

Does the MS4 have the legal authority to enact ordinances, local laws or other regulatory mechanisms?
 No (go to ADDENDUM 1)
 Yes (complete questions below)

Assessment of Regulatory Mechanism (Local Code)

1) When was this assessment completed or planned to be completed?
 Date completed: _____
 Not yet completed (proceed to next table)
 Plan to complete for reporting in year: 4; 5.

2) Is there an existing ordinance, local law or other regulatory mechanism?
 No (go to question 5)
 Yes

3) Does the existing regulatory mechanism prohibit illicit discharges as required by the MS4 Permit?
 No (amendments needed)
 Yes

4) Does the existing regulatory mechanism include enforcement authorities and procedures as required by the MS4 Permit?
 No (amendments needed)
 Yes

Development of Regulatory Mechanism (Local Codes)

5) When was this work completed or planned to be completed?
 Work is planned to be completed prior to January 8 2008
 Date completed: _____
 Not yet completed (proceed to next table)
 Plan to complete work below for reporting in year: 4; 5.

6) If you answered 'No' to question 1, 2 or 3, what regulatory mechanism or amendments will be adopted to meet the MS4 permit requirements?
 NYS IDDE Model Law in its entirety
 Selected NYS IDDE Model Law articles adopted as amendments to existing code(s) that are equivalent to the NYS IDDE Model Law
 MS4 will write language equivalent to NYS IDDE Model Law

7) If you answered 'No' to question 1, 2 or 3, has a list of needed changes to local codes been developed for adoption of the regulatory mechanism?
 No
 Yes, list the local code(s) that will be changed:

8) If the existing regulatory mechanism does not require amendments, what language is in the mechanism?
 NYS IDDE Model Law in its entirety
 Selected NYS IDDE Model Law articles adopted as amendments to existing code(s) that are equivalent to the NYS IDDE Model Law
 Language equivalent to NYS IDDE Model Law

9) What was the date or is the planned date of local law adoption?
 Date: _____

10) Provide a web address if adopted local law can be found on a web site.
 Web Address: _____

Minimum Control Measure 3. Illicit Discharge Detection and Elimination (IDDE)

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

<p>Permit Reference IV.C.3.e: Inform public employees, businesses and the general public of hazards associated with illegal discharges and improper disposal of waste.</p> <ul style="list-style-type: none"> • <i>Explain activities and materials used to meet this requirement this year and planned for next year</i> • <i>Identify personnel or outside organization conducting activities</i> 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<p>The Town of Putnam Valley will continue to distribute information pamphlets addressing construction site stormwater runoff control for construction sites with all site construction permits. The pamphlets contain information on hazards associated with discharge and runoff.</p>	<p>Ongoing Task – Year 4 and 5</p> <p>The pamphlet mailing was done for all commercial and highway properties. Ongoing task.</p>
<p>Additional Techniques</p>	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<p>Explain any changes or additions to the Permit Referenced Activities / Techniques, Measurable Goals and / or Scheduled Dates above and provide a reason(s) for the change:</p>	

Minimum Control Measure 4 and 5. Construction Site and Post-Construction Stormwater Runoff Control Regulatory Mechanism

Permit Reference IV.C.4.b.i, 5.a.i: Require development and implementation of erosion and sedimentation controls through a local law or other regulatory mechanism. Report on assessment process used (*Stormwater Management Gap Analysis Workbook for Local Officials* or equivalent process). The MS4s have until year 5 to complete the local law work. **See the instructions for information about completing this section.**

<p>Does the MS4 have the legal authority to enact land use ordinances, local laws or other regulatory mechanisms?</p>	<p><input type="checkbox"/> No (go to ADDENDUM 2) <input checked="" type="checkbox"/> Yes (complete questions below)</p>
<p align="center">Preliminary Assessment of Regulatory Mechanism (Local Code)</p>	
<p>1. When was the preliminary assessment of existing local codes completed or when will it be completed?</p>	<p>Date completed: _____ <input checked="" type="checkbox"/> Not yet completed (proceed to next table) Plan to complete for reporting in year: ___ 4; <u> X </u> 5. <input type="checkbox"/> Did not do preliminary assessment; proceeded directly to Gap Analysis Worksheets 1-4 or adopted <i>Sample Local Law for Stormwater Management and Erosion & Sediment Control</i> (Sample Local Law).</p>
<p>2. If preliminary assessment was completed, indicate the results.</p>	<p><input type="checkbox"/> If none of Sample Local Law provisions appear in local code; consider adopting Sample Local Law or equivalent <input type="checkbox"/> If few Sample Local Law provisions appear in local code; major revisions needed or consider adopting Sample Local Law or equivalent <input type="checkbox"/> If most of the Sample Local Law provisions appear in local code; minor revisions needed</p>
<p align="center">Assessment and Development of Regulatory Mechanism (Local Code) (continued on next page)</p>	
<p>3. When was the Gap Analysis or equivalent process completed or when will it be completed?</p>	<p>Date completed: _____ <input checked="" type="checkbox"/> Not yet completed (proceed to next table) Plan to complete work below for reporting in year: ___ 4; <u> X </u> 5.</p>
<p>4. How was the local code adopted or how will it be adopted*? <i>*If MS4 has some existing local code equivalent to the Sample Local Law and adopted parts of the Sample Local Law as amendments to make a complete local code, check b and c.</i></p>	<p>a. ___ The entire Sample Local Law adopted as amendments to existing code or as stand alone law. • If no portions of the Sample Local Law were moved or deleted, all provisions would be exactly the same as the Sample Local Law. • If ANY provisions of the Sample Local Law were moved or deleted, the moved or changed provisions must be reviewed (use the <i>Gap Analysis</i> or equivalent process) to ensure the intent of the law has not been changed. b. ___ Parts of NYS Sample Local Law adopted as amendments to existing code. c. ___ Language developed by municipality was demonstrated to be equivalent.</p>

Minimum Control Measure 4 and 5. Construction Site and Post-Construction Stormwater Runoff Control Regulatory Mechanism

Permit Reference IV.C.4.b.i, 5.a.i (continued)

Assessment and Development of Regulatory Mechanism (Local Code) (continued)

5. Answer the following questions about the Gap Analysis or equivalent processes.

Clauses are defined as: All the Sample Local Law sections or subsections in the Gap Analysis Worksheets 1-4 that have a box in the "Equivalence" column, meaning that there is an associated "Equivalence" sheet (with the exception of Article 6, Section 4 which does not have an Equivalence sheet).

Total number of clauses in each worksheet: Sample Local Law Article 1 (Gap Analysis Worksheet 1) - 8 clauses; Sample Local Law Article 2 (Gap Analysis Worksheet 2) - 51 clauses; Sample Local Law Article 3, 4, 5 (Gap Analysis Worksheet 3) - 3 clauses; Sample Local Law Article 6 (Gap Analysis Worksheet 4) - 9 clauses.

MS4s that adopt the entire Sample Local Law as amendments to existing code or as stand alone law need to indicate the number of clauses being adopted that are exactly the same as the Sample Local Law, or equivalent, in the right-hand column below.

Sample Local Law Articles	NUMBER OF REQUIRED CLAUSES IN LOCAL LAW	
	Existing clauses exactly the same as the Sample Local Law language	Existing clauses equivalent to the Sample Local Law language (see Gap Analysis Workbook Equivalence Sheets for information to help determine equivalence)
1		
2		
3, 4, 5		
6		
TOTAL		

6. Has a list of needed changes (legislative agenda) been developed for adoption of amendments to local codes (or for deletion of existing codes that are addressed by adoption of a stand alone law)?

Yes No

Yes, list the local codes that will be changed:

7. What was the date or is planned date of local code adoption? Date:

8. Provide a web address if the adopted local law can be found on a web site. Web Address:

Minimum Control Measure 4. Construction Site Stormwater Runoff Control

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

<p>Permit Reference IV.C.4.b. v: Develop and implement procedures for site plan review by the MS4 that incorporate consideration of potential water quality impacts and review individual pre-construction site plans to ensure consistency with local sediment and erosion control requirements.</p> <ul style="list-style-type: none"> Describe the procedures below. <u>Revise as procedures are updated.</u> 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p> <ul style="list-style-type: none"> Example measurable goals: number of plans received; number of plans reviewed; percent of plans received that are reviewed.
<p>Draft amendments to existing Soil Erosion and Sediment Control Ordinance, Chapter 155 to be consistent with GP-02-02.</p> <p>Will try and achieve 50% "on the ground" compliance with approved Erosion Control Plan. For Year 4/5, the Town of Putnam Valley will achieve 75% "on the ground" compliance with approved Erosion Control Plan.</p>	<p>Ongoing Task</p> <p>Ongoing Task</p> <p>Ongoing construction site inspections done by the town engineer</p>
<p>Permit Reference IV.C.4.b. vi: Develop and implement procedures for the receipt and consideration of information submitted by the public.</p> <ul style="list-style-type: none"> Explain the procedures below. <u>Revise as procedures are updated.</u> Identify the responsible personnel or outside organizations. <p>The Town of Putnam Valley has distributed information pamphlets addressing construction site stormwater runoff control for construction sites with all building permits and site construction permits.</p> <p>The public can submit comments in regards to stormwater practices that are not being utilized to the Town Board or the Town Code Enforcement Officer. The Town Code Enforcement Office will conduct an inspection to make sure that the construction site is in conformance. If not, a stop work order will be issued until all measures are corrected.</p>	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p> <p>Ongoing Task – Year 4 and Year 5</p> <p>Ongoing Task</p> <p>This will be an ongoing task that the Code Enforcement Officer is responsible for.</p>

Minimum Control Measure 4. Construction Site Stormwater Runoff Control

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

Permit Reference IV.C.4.b. iii, vii: Develop and implement procedures for site inspections, enforcement of control measures and sanctions to ensure compliance with GP-02-02.

- Describe each procedure below. Revise as procedures are updated.

Management practices to reduce maximum pollutant discharge and weekly inspection and maintenance on the construction site have been completed during the March 05 to March 06 year.

Permit Reference IV.C.4.b. viii: Educate and train construction site operators about requirements to develop and implement a SWPPP and any other requirements they must meet within the MS4s jurisdiction.

- Explain the activities and materials used to meet this requirement.
- Identify the personnel or outside organization conducting this activity.
- Indicate activities planned for next year.

Construction site operators were educated and will continue to be trained throughout Year 4 and 5

Additional Techniques

Explain any changes or additions to the Permit Referenced Activities / Techniques, Measurable Goals and / or Scheduled Dates above and provide a reason(s) for the change:

Describe Measurable Goals and Results (when applicable)
Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)

- Example measurable goals are number of: inspections; fines assessed; stop work orders; other sanctions.

Inspections and Maintenance will continue through Year 5

Describe Measurable Goals and Results (when applicable)
Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)

Ongoing Task – Year 4 and 5

Describe Measurable Goals and Results (when applicable)
Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)

Minimum Control Measure 5. Post-Construction Stormwater Management

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

<p>Permit Reference IV.C.5.a, c. Develop and implement a post-construction stormwater management program that addresses stormwater runoff from new development and redevelopment and will reduce the discharge of pollutants to the MEP. Program requirements should include:</p>	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<ul style="list-style-type: none"> • A combination of structural and/or non-structural management practices. • <i>Identify and describe below procedures to ensure installation of post-construction management practices. Revise as procedures are updated.</i> <p>The Town of Putnam Valley weekly implements management practices to reduce maximum pollutant discharge on construction sites.</p>	<p style="text-align: center;">DO NOT ENTER INFORMATION IN THIS CELL</p>
<p>The Town will continue to implement management practices to reduce pollutant discharge.</p>	<p>Ongoing Task</p>
<ul style="list-style-type: none"> • Procedures for site plan and SWPPP review to ensure SWMPs meet state standards. • <i>Describe procedures below. Revise as procedures are updated.</i> 	<p>Ongoing Task</p> <ul style="list-style-type: none"> • <i>Example measurable goals include: number of plans received; number of plans reviewed; percent of plans received that are reviewed.</i>
<p>The Town of Putnam Valley Planning Board and their consultants review any plans for proposed development and the SWPPP plans.</p>	<p>52 plans received by the planning board, 52 plans reviewed, 18 plans approved.</p>

Minimum Control Measure 5. Post-Construction Stormwater Management

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

<p>Permit Reference IV.C.5.a, c. (continued): Develop and implement a post-construction stormwater management program that addresses stormwater runoff from new development and redevelopment and will reduce the discharge of pollutants to the MEP. Program requirements should include:</p>	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<ul style="list-style-type: none"> Procedures for inspection and maintenance of post-construction management practices. 	<ul style="list-style-type: none"> <i>Example measurable goals are number of: inspections maintenance activities performed.</i>
<ul style="list-style-type: none"> <i>Explain procedures below. Revise as procedures are updated.</i> <p>The Town will inspect and maintain construction site operations as required</p>	<p>Ongoing Task</p>
<ul style="list-style-type: none"> Procedures for enforcement and penalization of violators. 	<ul style="list-style-type: none"> <i>Example measurable goals: number enforcement activities performed.</i>
<ul style="list-style-type: none"> <i>Explain procedures below. Revise as procedures are updated.</i> <p>Stop work orders will be issued for those who violate stormwater and erosion and sediment control procedures during construction.</p>	<p>32 stop work orders issued for March 9, 2006 to March 10, 2007.</p>
<p>Site correction memos can be sent out prior to a stop work order so the contractor can correct his procedures.</p>	<p>17 site correction memos sent for March 9, 2006 to March 10, 2007.</p>

Minimum Control Measure 5. Post-Construction Stormwater Management

Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

<p>Permit Reference IV.C.5.a, c. (continued): Develop and implement a post-construction stormwater management program that addresses stormwater runoff from new development and redevelopment and will reduce the discharge of pollutants to the MEP. Program requirements should include:</p>	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<ul style="list-style-type: none"> • Adequate resources for a program to inspect new and re-development sites and for enforcement and penalization of violators. • <i>Describe resources below. Update annually.</i> 	<p>DO NOT ENTER INFORMATION IN THIS CELL</p>
<p>The Town of Putnam Valley building department, Town Engineer, and/or the Code Enforcement Officer inspect and enforce stormwater runoff procedures for new and re-development of sites.</p>	<p>Ongoing task.</p>
<p>Additional Techniques</p>	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<p>Explain any changes or additions to the Permit Referenced Activities / Techniques, Measurable Goals and / or Scheduled Dates above and provide a reason(s) for the change:</p>	

Minimum Control Measure 6. Pollution Prevention/Good Housekeeping for Municipal Operations

OVERALL MUNICIPAL POLLUTION PREVENTION / GOOD HOUSEKEEPING PROGRAM INFORMATION

<ul style="list-style-type: none"> This table is for MS4s to report on their OVERALL Municipal Pollution Prevention / Good Housekeeping Program. A separate table follows that is for MS4s to report on management practices performed in identified municipal operations. Refer to the Municipal Pollution Prevention / Good Housekeeping Assistance document for example best management practices, policies and procedures. Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed. 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<p>Permit Reference IV.C.6.a: Develop and implement an operation and maintenance program to reduce and prevent pollutant discharges from municipal operations to the MEP.</p> <ul style="list-style-type: none"> List pollutants that will be addressed by the municipal pollution prevention program. 	
<p>Phosphorus and Mercury</p>	
<ul style="list-style-type: none"> Set and describe pollution prevention priorities by geographic areas, municipal operation type, and facilities. <p>Phosphorus pollutants are being addressed in Lake communities. Catch basin retrofitting has gone out to bid. The retrofitting will remove approximately 40% of the first flush total phosphorus as well as 80% of oil, grease and total suspended solids (TSS) found in the first flush.</p>	<p style="text-align: center;">DO NOT ENTER INFORMATION IN THIS CELL</p> <p>This task is ongoing. The lake committees that voluntarily monitor the waters (via lake sampling) will be able to determine if the retrofitted catch basins are having any affect once they are in place and have been utilized for some time. The bid will be awarded in May of 2007.</p>
<p>A newsletter was sent to the residents of the Town of Putnam Valley in the Oscawana Lake district in regards to phosphorus reduction. The newsletter indicated how phosphorus can be moderated by utilizing phosphorus free automatic dishwasher detergent, planting trees/vegetation, properly maintaining septic systems, not fertilizing excessively, having soil tested, and using compost for fertilizer.</p>	<p>The newsletter was sent out in the summer of 2006. Copies of the newsletter were also available at the Town Hall and the Library.</p>
<p>Permit Reference IV.C.6.a: Include a municipal pollution prevention training component for staff (where all staff are trained).</p> <ul style="list-style-type: none"> Explain activities and materials used to meet this requirement. Identify training needs and design training components Determine the adequacy and appropriate frequency of staff training. Identify personnel or outside organization conducting activities. <p>The Town Supervisor attended the Association of Towns conference where stormwater regulations were discussed.</p>	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p> <p>The Supervisor posted this information via his Newsletter on February 22, 2007.</p>

Additional Techniques	Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)
<p>The Town of Putnam Valley cleans the catch basins that are located within the Town. A log is maintained noting the date, the location and number of catch basins, the size, and the condition of the catch basin.</p>	<p>This will be an ongoing task. The Town maintains the catch basins consistently.</p>
<p>Explain any changes or additions to the Permit Referenced Activities / Techniques, Measurable Goals and / or Scheduled Dates above and provide a reason(s) for the change:</p>	

Municipality: Town of Putnam Valley

Permit Number: NYR20A345

Minimum Control Measure 6. Municipal Operations: Street and Bridge Maintenance; Winter Road Maintenance;

 Stormwater System Maintenance; Vehicle and Fleet Maintenance; Park and Open Space Maintenance; Municipal Building Maintenance;

 Solid Waste Management; Other:

<ul style="list-style-type: none"> • Copy this page and give it to each municipal office or department responsible for reporting. • Put an 'X' in front of each municipal operation type addressed by the Municipal Pollution Prevention/Good Housekeeping Program in that office or department. • Refer to the Municipal Pollution Prevention / Good Housekeeping Assistance document for example best management practices, policies and procedures. • Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed. 	
<p>Permit Reference IV.C.6.a, c: Develop and implement an operation and maintenance program to reduce and prevent pollutant discharges from the municipal operation(s) indicated above to the MEP.</p> <ul style="list-style-type: none"> • Describe how the bulleted items below focus on pollutants addressed by the municipal pollution prevention program and the pollution prevention priorities. 	<p>Describe Measurable Goals and Results (when applicable) Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)</p>
<ul style="list-style-type: none"> • Briefly describe or reference any existing policies and procedures • Briefly describe or reference any policies and procedures being developed 	<p>DO NOT ENTER INFORMATION IN THIS CELL</p>
<ul style="list-style-type: none"> • Briefly describe or reference any existing best management practices • Briefly describe or reference any planned best management practices <p>The Town of Putnam Valley has purchased new salt trucks, which mix the salt with water. This, in addition to, the highway department salting prior to a winter storm allows for less salt to be utilized, reducing pollutants.</p>	<p>DO NOT ENTER INFORMATION IN THIS CELL</p> <p>This is an ongoing task.</p>
<ul style="list-style-type: none"> • Identify and describe the equipment and staff that are in place 	<p>DO NOT ENTER INFORMATION IN THIS CELL</p>

Minimum Control Measure 6. Municipal Operations: ___ Street and Bridge Maintenance; ___ Winter Road Maintenance; ___ Stormwater System Maintenance; Vehicle and Fleet Maintenance; ___ Park and Open Space Maintenance; ___ Municipal Building Maintenance; ___ Solid Waste Management; ___ Other: _____

- Copy this page and give it to each municipal office or department responsible for reporting.
- Put an 'X' in front of each municipal operation type addressed by the Municipal Pollution Prevention/Good Housekeeping Program in that office or department.
- Refer to the Municipal Pollution Prevention / Good Housekeeping Assistance document for example best management practices, policies and procedures.
- Use separate rows to explain the different processes, activities, procedures, practices, etc. used by the MS4. Add additional rows as needed.

Permit Reference IV.C.6.a, c (continued): Develop and implement an operation and maintenance program to reduce and prevent pollutant discharges from municipal operations to the MEP.

- *Assess if existing programs adequately reduce and/or prevent pollutant discharges*
- *Determine and list any operation type, location or facility that is in need of modification or updates.*

The Town of Putnam Valley maintains a logbook on vehicle maintenance to minimize the pollution from municipal vehicles.

Permit Reference IV.C.6.a: If there is a training component for staff specific to these municipal operations:

- *explain the activities and materials;*
- *identify the personnel or outside organization conducting the activities.*

Additional Techniques

Explain any changes or additions to the Permit Referenced Activities / Techniques, Measurable Goals and / or Scheduled Dates above and provide a reason(s) for the change:

Describe Measurable Goals and Results (when applicable)
Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)

DO NOT ENTER INFORMATION IN THIS CELL

The maintenance of the vehicles is currently done routinely.

Describe Measurable Goals and Results (when applicable)
Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)

Describe Measurable Goals and Results (when applicable)
Indicate: Date Completed, Ongoing Task, or Scheduled Date (for next years activities)

<p>Did you include any of the following documents as appendices? Put a mark each appended document.</p>
<p><input checked="" type="checkbox"/> Summary of public comments received on the annual report at the public presentation (Required)</p>
<p><input checked="" type="checkbox"/> Intended response to comments on the annual report (Required)</p>
<p><input type="checkbox"/> Results of information collected and analyzed, including monitoring data; evaluation of assessment (modeling) of pollutant discharges, including modeling results and pollutant transport trends.</p>
<p><input type="checkbox"/> Other _____</p>

**MS4 2006-2007 Annual Report Comments
Public Hearing, May**

- Q: I am on the committee for Lake Oscawanna, which is one of the lakes. We have done intensive work with the highway department; this was like three years ago. We went around with Earl, with Joe, sorry, to look at the actual sites of the basins, the water basins which some of them could not be identified at the time. And I remember, it was my part to look at stormwater, we presented to the town board I think Mr. Santos was the supervisor at the time, our recommendations as advisory committee to that one lake. One of the issues was stormwater, and the stormwater basins. The big thing there and I remember the original mandated, we had a copy of it and were looking at it, that the mapping was to have been done in the year 2003. I gather the mapping is still not done?
- C: (TWA) Mapping is done by pencil and paper.
- Q: It was done in pencil then.
- C: (TWA) Yes, and this one was of the things that was brought up. The town did not have the revenue to go out and purchase fifty something thousand dollars worth of GPS and GIS equipment and actually just recently received a grant to do so.
- Q: Because the infrastructure and anything we do ...Just Saturday to look at what's left to do. He said mapping is essential to anything. Its almost like we are, uh, putting the cart before the horse or something. And what is the time frame; I was told that was done nine months. I met with the highway department, the town, with Mr. Santos, they said it would be done in six months and that was in 2004. September, I remember, August. When will the deadline be? And when will we have access to the mapping?
- C: (DAVIS) You can have paper mapping. So we are in compliance with the regulations. We want to go further and will now that we have the grant to purchase GIS and GPS equipment. That will give us a really enhanced mapping and make it easier for us to track down problems, to find them and correct them. But in terms of being in accordance to the law, and regulations, the MS4 regulations, we are in accordance with them.
- Q: So can we have access to that map for Lake Oscawanna at the moment?
- C: (TWA) The paper copy I am sure ...
- Q: So we can get an updated? Because the one back then was very minimal.
- C: (TWA) The one thing that you brought up was the basins around the lake and I thing, Sue can help me out here, but how many basins did the town just award a contract to ... around the lake
- (SUE) ... Thirty -three basins. Um, I cannot think give you an exact figure.
- (TWA) But we have targeted the hot spots around the lake. Its actually predominately the Lake Peekskill and Oscawanna area. They are probably about more than half of those are, um, going to Lake Oscawanna. I am not going to quote off the top of my head, but, those have already been awarded. The contracts have already been awarded and those will already be installed. Hopefully, within the next four to six

weeks. And those are phosphorus removing – provide phosphorus reduction, provide oil and uh, petroleum reduction and they provided uh, total suspended solids reduction. Huge reduction – almost eighty percent.

Q: These are the special filters?

C: (TWA) They will be going in the basin out there.

Q: Can we know which basins?

C: (TWA) Yes. We can give you a list.

Q: Because we are supposed to be looking at those and see we are looking at the lake and what we can do because we have issues with the Lake Oscawanna. I am sure there are many other lakes. So we can get that? Okay. The mapping will be completed when? When do you think –

C: (TWA) It's a matter of when we get the GPS and GIS equipment and then it will go from there. I think in talking with Gary, I hope we can shoot for the January 8 and have it all done by January 2008 because that's the – (GARY) ...The software equipment and programs to go out in the field and do our actual calculations and marking the basins and things like that it requires sophisticated equipment and training to know how to use it. Mary Donnelly from Folchetti and myself have put together a grant to which we have been awarded the money. It's a matching grant for the town and we got notified about that about two weeks ago. The process will now be to get that money and get that software and equipment and uh, figure out who's going to go out in the field and who's actually going to get that this year.

(TWA) They will utilize the pencil copy to go out and make sure they get all the –

Q: It is essential because we cannot dialog with one another. And that's straight communication. We talk about basin number 245, we don't even know what basin we're talking about. We talk about street or some lane or whatever.

C: (GARY) Now that we have located those basins, those filters will be changed periodically. As they need to be. We can tell which basins, where they are, their locations, and filter when they were put in, when they were changed. So this is an ongoing effort to make sure that this, this gets off the ground and gets going. It's important.

(TWA) and what's going to happen here too, gradually here, when the next grant process comes up, we will put in for another grant and hopefully pick another forty catch basins and the next priority bunch and get those worked on too. This is going to be an ongoing process – trying to retrofit the entire town.

Q: I have two questions. The first is about the soil erosion and sediment control ordinance. What exactly needs to be amended in our ordinance? What are the requirements?

C: (TWA) There's two different ordinances. The town has an ordinance that they have been utilizing for quite awhile, um, and, in certain instances it

meets the New York State guidelines, but New York State has put out what they call their model ordinance that they want to see everybody go to. If you do not go to their model ordinance, you have to perform what they call a Gap Analysis to figure out the difference between that your ordinance is and what their ordinance is. And it's a lengthy process and in other municipalities, it's taken almost six to eight months to get it approved through the state. The state actually, ah, if I believe I'm right on this, actually has to sign off on what you do adopt as your erosion and sediment control ordinance.

Q: So the plan is for us to adopt the state's model ordinance?

C: (TWA) To adopt it or to modify it and meet what you have currently and to take some things in consideration and then, ah, perform the Gap Analysis, get it approved by the state and get it into local law here.

Q: Okay. And my second question concerns the very, very large pipes that are running directly into Lake Oscawanna. Ah, is anything being done to filter those pipes? In other words, I understand the catch basin filters, but I see tremendous amounts of water coming out of pipes this big around, directly into Lake Oscawanna. And that brings a large amount of phosphorus into the Lake. What is being done about those pipes?

C: (TWA) Well, I cannot speak directly for one pipe. What happens is ...

Q: Can the water be redirected to the ground to be filtered? Can it be filtered by filters?

C: (TWA) It can be filtered by filters. There's filters out there. We have actually looked into a few of them. They're very costly, just for instance for the type of flow you'd see coming off some of the slopes you have around this area, ah, with say a forty-eight inch pipe, you're looking at somewhere in the neighborhood of a hundred and fifty to two hundred thousand dollars to install one of these filter systems that reduce the phosphorus and that collects the sedimentation. And that's on one, just one pipe by itself. Ah, those are the numbers we have worked out with a few of the distributors that came in to look at the bid for the catch basin inserts. Now catch basin inserts, the nice thing about them is, if these pipes are conveying water that is coming downhill off and going into a headwall and going into that pipe and traveling down that pipe and going into Lake Oscawanna, you're not picking up so much the, ah, phosphorus that you would be from the streets and from the yards. It's just a conveyance for that stream coming off the hill. The areas where you really get the problem, is where the pipe is picking up the water from a series of catch basins or where yard drains and things like that and that's where we're targeting right now. With the actual catch basin inserts. The catch basin inserts that we're just awarded in a contract, reduce the total suspended solids by eighty percent, forty percent phosphorus reduction, eighty percent petroleum. And those actually require, I'm not going to minimal, but they require maintenance that has to be taken care of periodically – usually somewhere in the neighborhood of three to four times a year. We've already gone over that with Gary and Joe, and actually got a grant

for a new vacuum truck that will be utilized to help clean or maintain those catch basins. So, we have to make gradual progress and retrofit what catch basins that we believe are really contaminating those lake areas; and pick those first and go from there. It's major money to actually do something with the actual pipes.

Q: Is there grant money available?

C: (TWA) There is always grant money out there.

C: (TWA) There's definitely grant money out there. I know that the maximum, the grant that just came out, the maximum grant that was awarded the Town of Carmel got one of the highest grants, two hundred thousand dollars and what we will do is and what I have already done actually is gone and gotten a copy of their grant application to utilize here for the next rotation. So to see what they have actually hit on and see what the state liked about theirs. So, we not like to reinvent the wheel, if it works then, you know, it's already been approved, we'll go forward with it like that.

Q: The DEC is currently doing a total maximum daily load calculation for Lake Oscawanna. So that should help with analyzing stormwater issues for Lake Oscawanna.

C: (TWA) Correct. Since it's already listed as an impaired water body, they keep a good eye on it. And hopefully, by utilizing that and one of the upcoming grants, we will look at getting the Town quite a bit of money. That's what we're shooting for right now.

Q: Are they matching grants?

C: (TWA) Yes, they're matching grants. So if you get two hundred thousand dollars, you have to match it with two hundred thousand dollars. So that's the downfall on them usually.

Q: Do you have any idea why the filters are so expensive? I mean are they –

C: (TWA) They're expensive to buy and expensive to install. You actually have to excavate out and go back up the line some and you have to put – have to have the highway department install them or put them out to bid. There's, ah, the technology alone is what you are paying for. The r and d, the research and development, to get them approved by the DEC, DEP that always bumps the numbers.

Q: It's crazy that they are encouraging us –

C: (DAVIS) They're not encouraging us, they're demanding us.

(TWA) Yes. They're demanding. If the DEC was making them and the cost was high, that's one thing. But they're just approving manufacturers out there who are trying to meet all the requirements of the DEC, DEP and you know we're so new to this, that down the road, they'll start probably dropping in price. But right now, the research and design that's gone into them, you have to take that into consideration and include it in the overhead of what you're building.

Q: Are there multiple manufacturers?

- C: (TWA) Oh, yes, there are. So I assume that in a few years, they're going to lower the price, based on that. We had a low turnout for the last bid for catch basins, there's only three people that bid on it, but a total of five bids and that was kind of low, but there's so many manufacturers out there and each of them has a little quirk, so everyone's trying to find their own little niche, and unfortunately, it's keeping the prices up high. Once everyone is on the same level, you'll see the prices come down.
- (DAVIS) We used two different manufacturers, we awarded the one bid for one set of things and another is good for another set of things. So –
- (TWA) Like in Lake Peekskill area, you have high fecal coliform, which is – No? You know better than I do –
- (SUE) Lake Oscawanna.
- (TWA) Is it Lake Osacawanna?
- (SUE) Two catch basins we're putting in to decrease coliform.
- (TWA) Yes, so there are different manufacturers that target different things and right now there isn't anyone staying to the same parameters. So that's why you see the costs staying up there. The costs of the unit that I was talking about before, that was by, who was that, Stormtech, Pricestart, I do not remember off the top of my head, but the unit we're looking at is actually an in-line filter unit. Meaning that you'd go back a ways, up that culvert, cut into that culvert and drop the chamber in the ground. And the chamber and for that culvert is in the neighborhood of sixteen feet long by eight feet wide and ten feet deep. It's got layers of filters, filter fabric and maintenance wise, every three months you got to maintain it, so it's go a lot of issues with it, the cost is real high and ah, for the Town right now, the best way to start making impacts on the lake communities is to start getting these catch basin inserts in. This is the runoff we really need to target.
-

- Q: Real quick, Sam. You had mentioned on public mandates – Is there any money earmarked for the towns from the state for this?
- C: (DAVIS) Not at the moment. They're working on it. I have been meeting with the supervisors of this County. We've also had meetings with Dutchess and we're trying to get Westchester involved with us. Essentially, we're started out saying we're thinking this is really great. We think this is really important and get the stuff we need. Stormwater management could be critical to our future. But we cannot do it with the funds that we have, so we're about ready to make a box and take a T and mark it, and throw it over into the Hudson, because you're going to bankrupt the towns.
- Q: What about counties? I know the counties are under the...
- C: (DAVIS) They're trying.
- Q: I know it's a multi-million dollar ...
- C: (DAVIS) It's a huge, huge bill. So we said that we essentially will do this – but we can only do it if you help us out and we have insisted that they

come up with a plan for collecting funds to fund the program. One of the things that was suggested at the County level was that everyone within the watershed, the New York City watershed, puts in a dollar, a dollar a person –

Q: Right.

C: (DAVIS) They hardly feel it, but it would raise enormous amounts of money.

Q: That would hurt us because we don't have a lot of area within the watershed.

C: (DAVIS) Yes but the thing is that – in theory, at this moment, we only have to use the advanced measures in that small part of the Town that's in the DEP watershed. My feeling though is that everyone is in someone's watershed. Before too long, the State's going to come down and say it doesn't matter whose watershed we're in. You're going to have to use enhanced measures. So then we're going to need money for everyone else's.

C: (GARY) Todd, I just want to make a correction here on the municipal operation form. On page four, under number two, eight thousand four hundred dollars and it says eight seven ...

(TWA) Oh, yeah that's a typo. It would be nice to get a truck for that price though.

(GARY) I would also like to say that Peekskill did help us because we got letters from them for this vacuum truck. So we have been working with the City of Peekskill.

(TWA) Because of the watershed.

(GARY) Yes.

Q: I hate to harp on these pipes that go directly into water bodies, but I do see them all over the place. And my question is: Isn't it less expensive than filtering to redirect that water into the ground so that it gets filtered naturally by the earth before it reaches the water bodies? In other words, these are man made pipes that have been purposely brought to directly discharge – it's an illicit discharge as far as I'm concerned –

C: (TWA) Um.

Q: To discharge directly into water bodies and pollute them in order to fix road runoff problems. But maybe there should be a re-thinking of that to the ground so that it doesn't go in a straight line directly into our lakes.

C: (TWA) That's definitely a possibility.

Q: And that would be less expensive, probably than having to cleaning these filters every three months. And buying them to begin with. So what's – Are you looking at that solution too?

C: (TWA) That's definitely a solution. The problem we have is that the soils you have around, in the town and Putnam County and the slopes also. There's not, say you take around Lake Oscawanna that are not already built that you can put a system like that in. These systems are huge. When

you talk about the forty-eight inch pipe; you're probably looking at something in the neighborhood of a half of an acre of recharge basin that would have to go in and now you're talking about taking trees down, taking other things and ledge in some areas. If there's ledge, you cannot even put them in.

Q: And what about the property?

C: (TWA) Well that's true too. So you have to buy the property or have an easement on the property. That's definitely a way for the Town to go, but it's going to have to really analyze and that's – anything's going to be better than dumping it straight into the lake of course. But, money wise, it's going to be what the Town can afford. I know the Lakeshore Drive, Gary, uh, where the property comes down off the hill – is there some recharge basins that went in just recently – four or five years? Not even? Chipawa has one too?

(GARY) There's a series of basins.

(TWA) Some of these pipes that you're talking about have been installed for a long time. The state's been out there looking at them. I have been out with the DEC a few times looking at them. They are trying to figure out if there's any way they can help the Town out in any way too. But I know that some of the runoff – I don't know the name, it's the 'S' turn in Lakeshore Drive. You're high on the hill, you go down the hill and back around. There's recharge basins on both sides of the road in that area. Because the DEC, there's definitely a stormwater issue. The Town figured out there was a stormwater issue and went to the DEC and the DEC said there no way to put it in the lakes, so infiltrators were put in.

(GARY) There's also new technology intended to ... When you need to transport water, sometimes is not the best thing to put a pipe under the ground.

(TWA) Correct.

(GARY) Uh, so what we try to do and what we try to implement into any new drainage is, if we can, to let it run alongside the road in a grassy area where it can be adsorbed back rather than transport it to another area or put it into the lake and so on and so forth.

...
(GARY) There's always new technologies, all new thoughts on these, on all of this and you're a hundred percent right.

(TWA) And when you pipe, you have velocities on these. And when it discharges, that is when you get your erosion and sediment control problems. When you keep you velocities low, keep them in a grassed swale or keep them in a rock-lined swale alongside the road, you reduce the curbing, curbing speeds velocity up, you keep the sheet flow down. Roadways try to break up that with pervious surface – pervious pavers alongside the driveways, you see alongside Lake Oscawanna Road, the new houses that went in have a two foot wide pervious strip to keep the stormwater from coming right down into the roadway. There's a lot of

methodology out there that we are always trying to implement.

Unfortunately sometimes, there's a – just doesn't happen.

(GARY) Also, the public doesn't understand. There's been a lot of complaints. Some of them are: 'I don't want that open ditch in front of my house. Can you pipe it? It's always wet in there when it rains.' The public really has to understand too. That's what the water is supposed to do, is it can soak into the ground.

(TWA) Correct.

(GARY) It's not always easy trying to tell someone.

(TWA) Whenever you concentrate water in pipes or something of that nature, it usually ends up being a bad thing. At the end, it's always a bad thing.

(GARY) Curbing does help. It contains the water to the road and it may contain salt that we do spread in the road.

(DAVIS) It also means that the water is directed all the way down the road instead of going into the grass.

(GARY) Right. There's pros and cons on both of them.

(TWA) Exactly.

Q: I would propose or recommend to the Town Board that since we're a town of lakes and we are looking at stormwater management that we that we have so many experts on the subject, we are going forward and doing a lot of things, that we should have some kind of cable, ongoing cable tv program. Somehow, that can fit in with it. We talked about education. People don't understand. But I think people watch tv, and I think it's an idea we can put into this plan. We have cable tv programming.

C: (SUE) Actually, we are working on something. Bruce Barber and it is also going to encompass stormwater...

Q: Okay.

C: (TWA) Bruce Barber is the Town wetland inspector. ... After the Storm...

(SUE) To answer Karen's question about the pipes going into the lake, we have targeted that area and we have ten filters going in.

Q: At Chippiwa?

C: (SUE) Yes. So that's going to make an impact. Um, as far as Lake Oscawanna is concerned, I need to retest two basins where we have very high bacteria coming in. Um, so again, we'll now start a database. Until we start using these, we're not going to know how often we have to clean them, how often to change them. In heavy traffic areas, of course you're gonna have to do it more.

(TWA) What the Town...

(?) It depends on the types of storm events.

(TWA) Exactly.

(SUE) Right. We just got this vacuum truck. The Town of Putnam Valley, I am very proud of this town, the Town Board, the MS4 Committee, our engineers, because we have taken a very aggressive approach with computerized salt trucks, our wash down station, now these are going in. The public education, this is – we're just starting to get it out there. But it's

not only just the water in the drains. People have to know whatever you are using in your house and flushing down your toilet, and down your sink, is polluting the water we drink. So education is important. It's time for us to look for gentler and environmentally friendlier ways. Um, I found a lot of information through the Environmental Protection Agency. I wanted people to go out to their supermarket and buy products that are safe to the environment that are not costing you an arm and a leg. That you have to take time on the internet, and there's a listing out there, through the Green Seal Organization, you'd be surprised how many companies have products right out in – on the market.

(TWA) Reduced phosphorus products.

(SUE) Right.

(TWA) Things like that. If you use a dishwasher and you use the little tablets in there, they are one of the worst things out there. Pure phosphorus. You put that right into you septic system each time. If your on the lake, it's going to eventually make its way out to the lake. Um, ...

(DAVIS) The DEC's trying to get fertilizer manufacturers to manufacture phosphorus free fertilizer because the soils we have here generally don't need any phosphorus. And that becomes a very poor pollutant.

(SUE) When people just don't know. Your life is going a hundred miles and hour and who knows if what they're putting on their lawn is going to kill you. You know? So you know again that's why these are important. The lake committee meets with the ecologies. We have to try to get back to basics and I think that these catch basin filters are going to help.

(TWA) We're going to analyze it to see what it will do for the community. Then, what we're also doing in talking with Sue and a few other people, we're looking at getting a few of each type of filter out there. It's hard to get the kind that we need and analyze what works best in our community. For they can be utilizing it in Florida somewhere. They have different storms and they definitely don't have the same slopes and stuff like that. Analyze those and then move towards adapting the – retrofitting the catch basins to those units.

Q: This refers to the one hundred year flood. How does this last storm ...

C: (TWA) They haven't rated it yet. But –

Q: ...[several people talking]

C: (TWA) I haven't heard any actual numbers. But I think in this area, six inches in a twenty-four hour period. It's either six inches or six and a half. I think we well exceeded that so, at one point.

Q: Another question is...just past few days. A lot of pipes and catch basins have either been clogged or exceeded their capacity, with so much water. You keep mentioning the filters and I am wondering, the filter media in general causes an impendence, right, that is how it works. Does that decrease the capacity of the drainage pipe or catch basin?

C: (TWA) No it doesn't. Most filters, it doesn't because it has bypasses so that if it does get clogged and you don't get to it in time it actually bypasses the system.

Q:

...

C:

(TWA) It doesn't go in the pipe. It goes just in the catch basin.

(SUE) there are bypasses so that if we have a storm like this it won't cause ponding and make the road –

Q:

So it will just bypass?

C:

(SUE) Right.

(TWA) What it is going to do, is it will collect the first flush, they call it.

Which is the first hour rate, which actually has the majority of the contaminants in it. It's going to collect that and if it clogs at that point the majority of the flow beyond that will flow through the bypass.

DAVIS: Any other questions? Comments? No? Thank you.