THE TOWN OF FARMINGTON

INCORPORATED 1645

TOWN HALL
1 MONTEITH DRIVE
FARMINGTON, CONNECTICUT 06032-1053

INFORMATION (860) 675-2300
FAX (860) 675-7140
"TOWN TALK" (860) 675-2301

January 24, 2007

State of Connecticut
Department of Environmental Protection
Bureau of Water Management
79 Elm Street
Hartford, CT 06106-5127
Attn: Stormwater Permit Coordinator

RE: **Annual Report on Municipal Storm Sewers for 2006**
Town of Farmington

Sir or Madame:

Enclosed with this letter, we are transmitting the Annual Report on Municipal Storm Sewers covering our activities performed during the calendar year 2006 as required under subsection 6(i)(2) of the *General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 General Permit)*. We have included in Attachment A an Amended Part B Registration Form as part of the report which effectively updates the data included in Part VIA of the original Part B Registration Form that was officially filed by the town on July 8, 2004. As noted previously, I am currently the primary contact for departmental correspondence and inquires. The stormwater monitoring data and sample locations can be found in Attachments B and C. Attachment D contains an alternative sampling plan that the town is requesting the Commissioner to approve for future implementation by the town. I have previously forwarded a check for the municipal plan review fee in the amount of $187.50 as required by subsection 6(i)(2)(i) of the *MS4 General Permit*, previously. Enclosed with the annual report is a copy of the original check.

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.

Sincerely,

Russell M. Arnold, Jr., P.E.
Director of Public Works and Development Services
Town of Farmington

cc: Salvatore A. Palaia, P.E., LEA

enclosures

2006 ANNUAL REPORT

Municipal Separate Storm Sewer System
Farmington, Connecticut

January 2007

Prepared for

TOWN OF FARMINGTON
1 Monteith Drive
Farmington, Connecticut 06032

Prepared by

LOUREIRO ENGINEERING ASSOCIATES, INC.
100 Northwest Drive
Plainville, Connecticut, 06062

An Employee Owned Company

Comm. No. 28FA406.004

Table of Contents

1. PURPOSE AND SCOPE

This Annual Report is required by subsection 6(i)(2) of the *General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 General Permit)*. The *MS4 General Permit* was issued by the Department of Environmental Protection (DEP) on January 9, 2004 and it is applicable to storm sewer facilities owned or operated by the Town of Farmington. The municipal storm sewer facilities owned by the Town of Farmington were registered by the filing of Part A and Part B of the required registration forms. This report is the vehicle by which the Town of Farmington is required to annually report to the DEP Stormwater Permit Coordinator on the status of compliance with the *MS4 General Permit* and to submit the stormwater monitoring data collected and analyzed during the year.

Much of the information that must be included in the annual report is being provided by updating the Part B registration form to reflect the current status of the program implementation, especially with respect to the list of Best Management Practices (BMPs) enumerated in Part V of the original Part B registration form. The updated Part B registration form can be found in Attachment A. The data in the updated Part B is supplemented by narrative text in Section 2 of this report.

The stormwater monitoring data can be found in Attachment B, and mapping of the locations where the stormwater discharge samples were collected can be found in Attachment C.

Attachment D contains an alternative sampling plan that the town is requesting the Commissioner to approve for future implementation by the town.

The certification required under subsection 7(e) of the *MS4 General Permit* is presented in Section 3 of this report.

2. BEST MANAGEMENT PRACTICES

2.1 Public Education

The Town of Farmington has a newsletter, the *Farmington Town Letter*, which is published and distributed quarterly to all postal customers, i.e., residences and businesses, with mailing addresses within the town. It is also posted on the town website. The articles published in the newsletter during 2006 were again limited to notifications concerning spring street sweeping, the spring bulky waste collection program held between April 3rd and April 7th and the Household Hazardous Waste Collection Day held on April 22, 2006. The plan to publish a separate article covering the municipal stormwater program is now scheduled for the fall of 2007.

A number of brochures on stormwater management published by the Environmental Protection Agency (EPA) have been purchased for distribution to local schools and libraries, and three copies of the EPA video *After the Storm* have been distributed to town libraries for resident use. Three copies of the video *After the Storm* have also been distributed for use in public schools and the video has been aired by teachers in some public school classrooms. The plan to air the video *After the Storm* on Public Access TV has not yet been realized.

Contact continues to be maintained with other organizations involved with the stormwater program. These include the Department of Environmental Protection (DEP), the Department of Transportation (DOT), the Farmington River Watershed Association (FRWA), the Central Connecticut Regional Planning Agency (CCRPA), the Pequabuck River Watershed Association (PRWA) and the University of Connecticut education program known as the Nonpoint Education for Municipal Officials (NEMO) program. As noted below, a workshop developed by the NEMO staff was conducted during the spring. The workshop was publicized by the distribution of a flyer.

The CCRPA is taking the lead in the development of a Pequabuck River Watershed Management Plan. The preparation of a Pequabuck River Watershed Management Plan was a primary recommendation of "The Pequabuck River State of the Watershed Report" in December of 2004. The staffs of the CCRPA, the FRWA and the PRWA were the editors who compiled the watershed report. The plan was presented before the Farmington Conservation Commission on September 5, 2006 and the Town Council on December 12, 2006. The Town of Farmington is the most downstream town in the Pequabuck River Watershed which drains parts of the Towns of Harwinton, Plymouth, Burlington, Bristol, Plainville and Farmington.

2.2 Public Participation

A yearly schedule for the implementation of a public participation program was developed by the Planning Division. The schedule prepared during 2006 covered all of the pubic education and public participation activities implemented during 2006.

The Town of Farmington, the Farmington River Watershed Association and the NEMO staff jointly conducted a public educational workshop on pollution caused by stormwater runoff at the Farmington Public Library on May 23, 2006. The program stressed the means that can be employed to reduce pollution impacts.

During the spring the Annual Farmington Clean-up was conducted; and the Conservation Commission again sponsored a Household Hazardous Waste Collection Program jointly with The Metropolitan District Commission. As noted above, the public was made aware of these activities through the *Farmington Town Letter*.

2.3 Illicit Discharge Detection & Elimination

The mapping of municipal storm sewer outfalls within the Town of Farmington is proceeding on schedule. Although it is not required, the present plan is to map all public, institutional and private storm sewers and outfalls and to differentiate the storm sewer outfalls and sewers tributary to them on the basis of ownership. The specific size and area oriented requirements of the *MS4 General Permit* are being addressed as minimum objectives with respect to time. The attached amended Part B registration form has been adjusted to show that the mapping of outfalls greater than 15 inches owned or maintained by the Town of Farmington has been completed and the period beyond the required completion date has been amended to show "work in progress" in recognition of the fact that storm sewer and storm water outfall mapping will be a continuing mapping maintenance activity. The above described mapping reflects a choice to approach the program requirements as components of a broader town-wide effort to control pollution occurring due to both non-point and point source discharges that directly affect surface water quality and discharges conveyed by storm sewers or other types of storm water conveyance. The program that is being developed relies heavily on the use of the State Building Code to establish and enforce a required local review and approval of new storm sewer connections to municipal, institutional, private and state-owned storm sewers and, in addition, the construction of new privately owned storm sewer outfalls. The adoption of an illicit discharge ordinance is in the process of being considered.

2.4 Construction Site Runoff

The Zoning Regulations, in Article IV, Section 11, requires the submission and approval of an erosion and sediment control plan whenever more than one half acre of land will be disturbed. The regulations also reference the *Connecticut Guidelines for Soil Erosion and Sediment Control* as amended. In addition, the regulations establish enforceable performance standards for construction activity that does not require the submission of an erosion and sediment control plan. These regulatory requirements continue to be enforced.

2.5 Post Construction Runoff Control

A post construction best management strategy has been developed and it is being implemented. It is based on the enforcement of Section 25 of Article IV of the existing Zoning Regulations. It has been determined that these regulations are sufficient and no new ordinances are planned.

Where there is a specific need for the maintenance of construction site runoff controls installed and maintained by an applicant during a post construction period, provisions to ensure the applicant understands the obligation to maintain those controls are being included in the zoning approval. Where post construction maintenance of storm sewer systems by private owners is necessary to ensure continuous effective operation and the avoidance of adverse water pollution impacts, the submission of maintenance programs is being required as a function of the approval process.

In addition, an inventory of privately owned storm sewers is being developed in conjunction with the mapping of all storm sewers within the town. An evaluation of the need for periodic reports being filed with town officials by the private owners of such systems has been initiated.

2.6 Good Housekeeping

A training program for municipal employees is still in the process of being developed. Training to date has been limited to on-the-job instruction and training by supervisors and consultants. The primary focus of the training continues to be the cross training of existing employees within the divisions that make up the Department of Public Works aimed at ensuring a broader understanding of the roles of each member of the staff assigned specific stormwater management responsibilities and how those activities are integrated to meet the obligations of the stormwater general permit.

The practice of sweeping paved streets that are sanded for skid control during the winter as soon as practical after snowmelt has been implemented.

The need to sweep paved streets more than once a year is being considered as a function of the development of the Farmington Stormwater Management Plan that is scheduled to be completed before January 9, 2009.

The evaluation and cleaning of stormwater structures and the evaluation and prioritization of the need to upgrade and repair stormwater structures have always been routine activities within the Department of Public Works. Those activities will be continued and the effectiveness of the effort can be expected to improve as a result of the focus created by the stormwater general permit and the stormwater management training program that is being developed. No additional staff are being added to materially expand the programs outside of the normal annual budget process.

2.7 Monitoring

The monitoring of six stormwater outfalls was planned and completed during the fall of 2006. The analytical results are presented on the laboratory examination reports and on the DEP Stormwater Monitoring Report Forms contained in Attachment B. The sample site locations are identified on maps presented in Attachment C. The individual sample analysis results can be correlated with the mapped monitoring site locations by reference to the following table. The sampling data are presented in the same order as the site location identifiers listed below.

Site Location Identifier	Sample Number	Laboratory Number
2006 R-4 (Residential)	R4A-12-1-06	AEL06010628
2006 R-5 (Residential)	R5A-12-1-06	AEL06010629
2006 C-4 (Commercial)	C4A-12-1-06	AEL06010630
2006 C-5 (Commercial)	C5A-12-1-06	AEL06010631
2006 I-4 (Industrial)	I4A-12-1-06	AEL06010632
2006 I-5 (Industrial)	I5A-12-1-06	AEL06010633

All six of the 2006 stormwater samples were collected during a rain storm event that commenced at approximately 5:00 AM during the morning of December 1, 2006. The samples were collected from the identified outfalls between 3:00 PM and 4:03 PM, starting soon after it was judged that sufficient flow would be discharging from the selected outfalls. The rainfall generated by the storm event was not constant and the intensity did not increase significantly until about 2:00 PM. Local records indicate that the storm only generated 0.11 inches of rainfall by 2:00 PM; however, the total rainfall produced by the storm was measured at 0.40 inches. The event was a qualifying event since the preceding rainfall event occurred on November 23, 2006. It should be noted that samples were collected from these same six locations on October 17, 2006, but it was decided to resample the outfalls based on the unusual high coliform counts in many of the samples. We have only reported the results obtained from the second sample event.

In general in may be stated that the analytical results obtained from these six sample locations were not significantly different than the average pollutant concentrations for the majority of the parameters listed in the 2004 Stormwater Quality Manual for urban stormwater runoff. The following is a brief assessment of the stormwater sample results collected from the residential, commercial and industrial land use areas of the town as required under the *MS4 General Permit.*

The values for total suspended solids, phosphorus and turbidity at both of the residential sampling locations R-4 and R-5 were slightly higher than most of the other outfall locations that were sampled in 2006. The total and Escherichia coliform counts also appeared relatively high when compared to the DEP Water Quality Criteria for the various designated uses of freshwater bodies. This is of particular concern at sample site location R-4, since the discharge is tributary to Batterson Park Pond which is used for swimming and other recreational activities. The other outfall drains to a tributary of Bass Brook below the outlet of Batterson Park Pond. However, it is important to recognize that although indicator bacteria are used to detect the potential presence of contamination by human or animal wastes, due to the inherent uncertainty involved in sampling and analytically determining the bacteria levels, exceedances of the water quality criteria does not always indicate a water quality problem and therefore should be investigated by means of a sanitary survey or other appropriate means to better determine the sources of the elevated bacteria levels.

The total suspended solids, phosphorus, turbidity and coliform levels were particularly high at one of the two commercial sampling locations, C-5. This sampling location is located off Brickyard Road opposite the Dunning Sand and Gravel site. It was apparent that runoff from the entrance to this site has affected the local water quality during this storm event based on the evidence of scour reported at the outfall by the individuals who collected the samples. Dunning Sand and Gravel is not among the industries that are listed as having registered for a *General Permit for the Discharge of Stormwater Associated with an Industrial Activity.* The sampling results at the other commercial sampling location, C-4, an outfall that discharges overland from the storm sewers serving the properties along Eastview Drive, were nominal. Both stormwater discharges enter an unnamed pond abutting a residential apartment complex in the area. The pond was historically associated with sand and gravel mining operations and it identified as being tributary to Poplar Swamp Brook by the mapping associated with the *Gazetteer of Drainage Areas of Connecticut* and the drainage area identified on the Stormwater Monitoring Report Form in Appendix B of this report lists the basin number so identified. However, that information is not correct as the ponds on both sides of Brickyard Road are isolated from Poplar Swamp Brook and the feeder canal that coursed through the area occupied by the ponds entering the historical Farmington Canal near the Farmington Canal Aqueduct over the Farmington River

south of the Farmington town line. The eastern section of the pond west of Brickyard Road discharges directly into the adjacent reach of the Farmington River (4300-00-4+R17).

The industrial sampling sites selected were both located within the watershed of Scott Swamp Brook. One of the locations, namely I-4, was previously sampled in 2005 at which time it was considered suspect due to high levels of turbidity and the presence of a septic odor. Odor was detected again this year, but it was described as organic rather than septic which could be a product of the extensive earth mining and grading operations that have been conducted in the area. The sampling results did not reveal a significant problem. The other industrial sampling site, I-5, an outfall from a storm drain system on Hyde Road where it crosses Scott Swamp Brook, revealed somewhat elevated levels of suspended solids, but not commensurately high when compared to the residential and commercial areas that were sampled. The coliform levels were only slightly elevated at this site.

2.8 Alternative Sampling Plan

Serious consideration has been given to implementing an alternative sampling plan during the past year, and that alternative plan is described in Appendix D. At this time it is requested that the Commissioner issue a written approval of the alternative sampling plan that is described.

3. CERTIFICATION

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.

Russell M. Arnold, Jr., P.E.
Director of Public Works/Town Engineer

3. CERTIFICATION

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.

Russell M. Arnold, Jr.
Director of Public Works

ATTACHMENT A

Amended Part B Registration Form

Part B - General Permit Registration Form for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4)

Please complete this form in accordance with the general permit (DEP-PED-GP-021) in order to ensure the proper handling of your registration. Print or type unless otherwise noted.

DEP USE ONLY
Application No. _____
Permit No. _____
Town I.D. _____

Part I: Registrant Information

1. Name of Town/City: **Farmington**

   Name of Chief Elected Official (CEO) or Principal Executive Officer (PEO):

   Kathleen Eagen Title: **Town Manager**

   Mailing Address: **1 Monteith Drive**

   City/Town: **Farmington** State: **CT** Zip Code: **06032-1053**

   Business Phone: **675-2350** ext. Fax: **673-8233**

   Contact Person: **Russell M. Arnold, Jr.** Title: **Director of Public Works**

   ☒ Check here if there are adjacent towns or other entities with which you will be coordinating implementation of your Stormwater Management Plan for a portion of your MS4 (See Section 6(b)(3) of the general permit). If so, label and attach additional sheet(s) with the required information as supplied above.

2. List primary contact for departmental correspondence and inquiries, if different than the CEO/PEO

   Name: **Russell M. Arnold, Jr., Director of Public Works & Dev. Ser.**

   Mailing Address: **1 Monteith Drive**

   City/Town: **Farmington** State: **CT** Zip Code: **06032-1053**

   Business Phone: **675-2330** ext. Fax: **675-2319**

   E-Mail: **ArnoldR@Farmington-CT.org**

   Contact Person: **Russell M. Arnold, Jr.** Title: **Director of Public Works**

3. List any engineer(s) or other consultant(s) employed or retained to assist in preparing the registration.

   ☐ Check here if additional sheets are necessary, and label and attach them to this sheet.

   Name: **Loureiro Engineering Associates, Inc.**

   Mailing Address: **100 Northwest Drive**

   City/Town: **Plainville** State: **CT** Zip Code: **06062**

   Business Phone: **747-6181** ext. Fax: **747-8822**

   E-Mail: **sapalaia@loureiro.com**

   Contact Person: **Salvatore A. Palaia, P.E.** Title: **Senior Project Manager**

   Service Provided: **General Consulting**

Part II: Site Information

1. Is there any activity included in your Stormwater Management Plan that would adversely affect properties listed or eligible for listing in the National Register of Historic Places? ☐ Yes ☒ No

   If yes, the registrant must be in compliance with requirements of the National Historic Preservation Act and must coordinate with the appropriate State Historic Preservation Officer to avoid or minimize impacts from any necessary activities.

2. Is there any activity included in your Stormwater Management Plan that is located within the coastal boundary as delineated on DEP approved coastal boundary maps? ☐ Yes ☒ No

   If yes, and this application is for a new authorization or for a modification of an existing permit, you must submit a *Coastal Consistency Review Form* (DEP-APP-004) with your application as Attachment A.

   For forms or assistance, please call the Permit Assistance Office at 860-424-3003.

3. Is there any activity included in your Stormwater Management Plan that is located within an area identified as a habitat for endangered, threatened or special concern species as identified on the "State and Federal Listed Species and Natural Communities Map"?

   ☐ Yes ☒ No Date of Map: **2003**

   If yes, complete and submit a *Connecticut Natural Diversity Data Base* (CT NDDB) *Review Request Form* (DEP-APP-007) to the address specified on the form.

   When submitting this permit application, please include copies of any correspondence to the NDDB, including copies of the completed CT NDDB Review Request Form, any field surveys, and any other information which may lead you to believe that endangered or threatened species may or may not be located in the area of your existing or proposed permitted activity, as Attachment B.

   Has a field survey been conducted to determine the presence of any endangered, threatened or special concern species? ☐ Yes ☒ No If yes, provide:

   Biologist's Name:

   Address:

   and submit a copy of the field survey with your application as an Attachment as specified above.

Part III: Supporting Documents

Please check the attachments submitted as verification that *all* applicable attachments have been submitted with this application form. When submitting any supporting documents, please label the documents as indicated in this part (e.g., Attachment A, etc.) and be sure to include the applicant's name as indicated on the *Permit Application Transmittal Form*.

☐	Attachment A:	Coastal Consistency Review Form: Activities within the state's coastal area, which includes the coastal boundary, must be consistent with the Connecticut Coastal Management Act (Sections 22a-90 through 22a-112 CGS). You may be required to complete a *Coastal Consistency Review Form* (DEP-APP-004) to demonstrate that the activity is consistent with the standards and policies of the Connecticut Coastal Management Act.
☒	Attachment B:	CT NDDB Information: Submit copies of any correspondence provided to or received from the CT NDDB program, including a copy of a completed *CT NDDB Request Form* (DEP-APP-007) and copies of any field surveys previously conducted to determine the presence of any endangered, threatened or special concern species.

Part IV: Registrant Certification

The registrant *and* the individual(s) responsible for actually preparing the registration must sign this part. A registration will be considered incomplete unless all required signatures are provided.

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.

I certify that this permit registration is on complete and accurate forms as prescribed by the Commissioner without alteration of the text.

I also certify under penalty of law that I have read and understand all requirements of the General Permit for the Discharge of Stormwater from a Municipal Separate Storm Sewer System issued on January 9, 2004 and that all requirements for authorization under the general permit are met and that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit for the municipality. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowingly making false statements."

Signature of CEO/PEO or designee [as specified in RCSA Section 22a-430-3(b)(2)(B)]	**Original Signed - 7/8/2004** Date
John H. McGrane Name of CEO/PEO or designee (print or type)	**Director of Public Works** Title (if applicable)
Signature of Preparer (if different than above)	**Original Signed - July 7, 2004** Date
Salvatore A. Palaia, P.E. Name of Preparer (print or type)	**Senior Project Manager** Title (if applicable)

☐ Check here if additional signatures are necessary.
If so, please reproduce this sheet and attach signed copies to this sheet.

Note: Please submit the Registration Form and all Supporting Documents to:

STORMWATER PERMIT COORDINATOR
BUREAU OF WATER MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

Part V: Best Management Practice List (BMP)

BMP ID	Public Education	Responsible Dept. or Person	Measurable Goal
1-1	Publish article in the Town Letter once per year	Planning	Article published
1-2	Obtain educational videos for Library distribution	Planning	Videos available
1-3	Air educational videos in schools and on Public Access TV	Planning	Videos aired
1-4	Coordinate with others: DEP, DOT, FRWA, NEMO, CCRPA, PRWA	Planning	Annual summary/report
1-5			
1-6			
1-7			
1-8			
1-9			
1-10			

BMP ID	Public Participation	Responsible Dept. or Person	Measurable Goal
2-1	Develop public involvement/participation program	Planning	Prepare yearly schedule
2-2	Comply with state and local public notice and FOI requirements	Public Works	Maintain compliance
2-3	Hold meetings/workshops to educate and involve the public	Planning	Hold meetings/workshops
2-4	Organize/implement community clean-up days: Town, FRWA	Planning	Hold community clean-ups
2-5			
2-6			
2-7			
2-8			
2-9			
2-10			

BMP ID	Illicit Discharge Detection & Elimination	Responsible Dept. or Person	Measurable Goal
3-1	Map outfalls greater than 15" in Urbanized Area (Year 2)	Engineering	Mapping completed
3-2	Map outfalls greater than 15" in town-wide (Year 3)	Engineering	Mapping completed
3-3	Map outfalls greater than 12" in Urbanized Area (Year 4)	Engineering	Mapping completed
3-4	Develop program to detect and eliminate illicit discharges	Public Works	Program implemention
3-5	Develop illicit discharge ordinance	Public Works	Determine need
3-6			
3-7			
3-8			
3-9			
3-10			

BMP ID	Construction Site Runoff Control	Responsible Dept. or Person	Measurable Goal
4-1	Review land use regulations to meet requirements of MS4 permit and E&S Guidelines	Planning	Review completed
4-2			
4-3			
4-4			
4-5			
4-6			
4-7			
4-8			
4-9			
4-10			
BMP ID	**Post Construction Runoff Control**	**Responsible Dept. or Person**	**Measurable Goal**
5-1	Review land use regulations to meet requirements of MS4 permit and E&S Guidelines	Planning	Review completed
5-2	Develop post-construction ordinance or regulation	Planning	Determine need
5-3	Develop and implement post-construction BMP strategy	Planning	Program implemention
5-4	Develop program to ensure long-term operation and maintenance of BMPs	Planning	Program implemention
5-5			
5-6			
5-7			
5-8			
5-9			
5-10			
BMP ID	**Good Housekeeping**	**Responsible Dept. or Person**	**Measurable Goal**
6-1	Develop training program for municipal employees	Public Works	Program implemention
6-2	Sweep streets at least once a year as soon as possible after snowmelt	Highway	Program implemented
6-3	Evaluate Urbanized Area for possible sweeping more than once a year	Public Works	Evaluation completed
6-4	Develop program to evaluate and clean stormwater structures at least once a year	Public Works	Program implementation
6-5	Develop program to evaluate and prioritize system for upgrade and/or repair	Public Works	Program implementation
6-6			
6-7			
6-8			
6-9			
6-10			
BMP ID	**Monitoring**	**Responsible Dept. or Person**	**Measurable Goal**
S-1	Sample 6 outfalls once a year	Public Works	Completion
S-2	Alternate sampling plan	Public Works	Consideration completed

Part VIA: Best Management Practice Timeline

BMP ID	Permit Year One				Permit Year Two				Permit Year Three				Permit Year Four				Permit Year Five				Next Permit
	Spring 2004	Summer 2004	Fall 2004	Winter 2004-05	Spring 2005	Summer 2005	Fall 2005	Winter 2005-06	Spring 2006	Summer 2006	Fall 2006	Winter 2006-07	Spring 2007	Summer 2007	Fall 2007	Winter 2007-08	Spring 2008	Summer 2008	Fall 2008	Winter 2008-09	
Public Education																					
1-1				Done		Done			Done						----			----			
1-2			Done				Done														
1-3				Done		Done							----						----		
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1-10																					
Public Participation																					
2-1				Done				Done				Done				----				----	
2-2				Done				Done				Done	----	----	----	----	----	----	----	----	
2-3									Done						----				----		
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Illicit Discharge Detection & Elimination																					
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3-2												Done	----	----	----	----	----	----	----	----	
3-3												----	----	----	----	----					
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3-10																					

----- Work in Progress

X Task Completed as a One-time Event During that Quarter

Done Task Completed

BMP ID	Permit Year One				Permit Year Two				Permit Year Three				Permit Year Four				Permit Year Five				Next Permit
	Spring 2004	Summer 2004	Fall 2004	Winter 2004-05	Spring 2005	Summer 2005	Fall 2005	Winter 2005-06	Spring 2006	Summer 2006	Fall 2006	Winter 2006-07	Spring 2007	Summer 2007	Fall 2007	Winter 2007-08	Spring 2008	Summer 2008	Fall 2008	Winter 2008-09	
Construction Site Runoff Control																					
4-1			Done	Done																	
4-2																					
4-3																					
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4-10																					
Post Construction Runoff Control																					
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5-10																					
Good Housekeeping																					
6-1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
6-2					Done				----				----				----				
6-3							Done				Done				----				----		
6-4							Done														
6-5							Done														
6-6																					
6-7																					
6-8																					
6-9																					
6-10																					
Monitoring																					
S-1			X				X				X			----	----			----	----		
S-2												Done									

Part VIB: Sample Best Management Practice Timeline

BMP ID	Permit Year One				Permit Year Two				Permit Year Three				Permit Year Four				Permit Year Five				Next Permit
	Spring 2004	Summer 2004	Fall 2004	Winter 2004-05	Spring 2005	Summer 2005	Fall 2005	Winter 2005-06	Spring 2006	Summer 2006	Fall 2006	Winter 2006-07	Spring 2007	Summer 2007	Fall 2007	Winter 2007-08	Spring 2008	Summer 2008	Fall 2008	Winter 2008-09	
Public Education																					
1-1	----	----	Done																		
1-2				----	----	----	----	----	Done												
1-3			----	----	----	----	Done														
1-4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
1-5									----	----	----	----	----	----	Done						
1-6																					
1-7																					
1-8																					
1-9																					
1-10																					
Public Participation																					
2-1	----	----	----	----		X				X				X				X			
2-2	X				X				X				X				X				
2-3					----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
2-4									----	----	----	----	----	----	----	----	Done				
2-5																					
2-6																					
2-7																					
2-8																					
2-9																					
2-10																					
Illicit Discharge Detection & Elimination																					
3-1					----	----	----	Done													
3-2									----	----	----	Done									
3-3													----	----	----	Done					
3-4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
3-5	----	----	----	Done																	
3-6		X				X				X				X				X			
3-7																					
3-8																					
3-9																					
3-10																					

----- Work in Progress

X Task Completed as a One-time Event During that Quarter

Done Task Completed

BMP ID	Permit Year One				Permit Year Two				Permit Year Three				Permit Year Four				Permit Year Five				Next Permit
	Spring 2004	Summer 2004	Fall 2004	Winter 2004-05	Spring 2005	Summer 2005	Fall 2005	Winter 2005-06	Spring 2006	Summer 2006	Fall 2006	Winter 2006-07	Spring 2007	Summer 2007	Fall 2007	Winter 2007-08	Spring 2008	Summer 2008	Fall 2008	Winter 2008-09	
Construction Site Runoff Control																					
4-1			----	----	----	Done															
4-2							----	----	----	Done											
4-3													----	----	----	Done					
4-4																					
4-5																					
4-6																					
4-7																					
4-8																					
4-9																					
4-10																					
Post Construction Runoff Control																					
5-1		----	----	----	Done																
5-2					----	----	----	Done													
5-3									----	----	----	Done									
5-4													----	----	----	Done					
5-5			X				X				X				X				X		
5-6																					
5-7																					
5-8																					
5-9																					
5-10																					
Good Housekeeping																					
6-1	----	----	----	----				X				X				X				X	
6-2	X				X				X				X				X				
6-3	----	----	----														----	----	Done		
6-4		----	----	----	----				X				X				X				
6-5									----	----	----	Done									
6-6																					
6-7																					
6-8																					
6-9																					
6-10																					
Monitoring																					
S-1		----	----			----	----			----	----			----	----			----	----		
S-2																					

ATTACHMENT B

Stormwater Monitoring Report Forms

General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Farmington

Mailing Address: 1 Monteith Drive, Farmington CT 06032

Contact Person: Russell M. Arnold, Jr. P.E. Title: DPW Director Phone: 860-675-2305

Permit Registration #GSM

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): (2006) R4: Lat41-42-55.982, Long72-47-15.334

Located on Batterson Park Road 500ft south of Two Mile Road near Entrance to Batterson Park Pond

Please circle the appropriate area description: Industrial, Commercial, or (Residential)

Receiving Water (name, basin): Batterson Park Pond, 4401-00-1-L1

Time of Start of Discharge: 12:00pm

Date/Time Collected: December 1, 2006/15:20hrs Water Temperature: 50°F

Person Collecting Sample: Bruce Cyr & Stephen Doyon

Storm Magnitude (inches): 0.4 Storm Duration (hours): 10(approx)

Date of Previous Storm Event: November 23, 2006

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	EPA 150.1	7.2	Averill Environmental Lab #AEL06010628
Rain pH	EPA 150.1	4.54	
Hardness	SM 2340 B	44.7 mg/L CaO3	Averill Environmental Lab #AEL06010628
Conductivity	EPA 120.1	100 micromhos/cm	Averill Environmental Lab #AEL06010628
Oil & Grease	EPA 1664A	<1.9 mg/L	Averill Environmental Lab #AEL06010628
COD	EPA 410.4	83 mg/L	Averill Environmental Lab #AEL06010628
Turbidity	EPA 180.1	77 NTU	Averill Environmental Lab #AEL06010628
TSS	EPA 160.2	91.0 mg/L	Averill Environmental Lab #AEL06010628
TP	EPA 365.2	0.196 mg/L as P	Averill Environmental Lab #AEL06010628
Ammonia as N	EPA 350.2	0.19 mg/L	Averill Environmental Lab #AEL06010628
TKN as N	EPA 351.3	2.5 mg/L	Averill Environmental Lab #AEL06010628
NO_3+NO_2 as N	EPA 300.0	< 0.99 mg/L	Averill Environmental Lab #AEL06010628
E. coli	SM 9222 B	600 per 100 mL	Averill Environmental Lab #AEL06010628

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: Russell M. Arnold, Jr., P.E. / Director of Public Works/Town Engineer

Signature: Russell M Arnold Jr Date: January 3, 2006

General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Farmington

Mailing Address: 1 Monteith Drive, Farmington CT 06032

Contact Person: Russell M. Arnold, Jr. P.E. Title: DPW Director Phone: 860-675-2305

Permit Registration #GSM

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): (2006) R5: Lat 41-42-53.845, Long 72-46-52.549 Located on Batterson Park Road, south of Berkshire Dr., on the NW wing wall of Bridge# 51-006

Please circle the appropriate area description: Industrial, Commercial, or (Residential)

Receiving Water (name, basin): Batterson Park Pond, 4401-00-1-L1

Time of Start of Discharge: 12:00pm

Date/Time Collected: December 1, 2006/15:30hrs Water Temperature: 50°F

Person Collecting Sample: Bruce Cyr & Stephen Doyon

Storm Magnitude (inches): 0.4 Storm Duration (hours): 10(approx)

Date of Previous Storm Event: November 23, 2006

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	EPA 150.1	7.3	Averill Environmental Lab #AEL06010629
Rain pH	EPA 150.1	4.54	
Hardness	SM 2340 B	28.8 mg/L CaO3	Averill Environmental Lab #AEL06010629
Conductivity	EPA 120.1	77 micromhos/cm	Averill Environmental Lab #AEL06010629
Oil & Grease	EPA 1664A	<2.0 mg/L	Averill Environmental Lab #AEL06010629
COD	EPA 410.4	52 mg/L	Averill Environmental Lab #AEL06010629
Turbidity	EPA 180.1	48 NTU	Averill Environmental Lab #AEL06010629
TSS	EPA 160.2	85.0 mg/L	Averill Environmental Lab #AEL06010629
TP	EPA 365.2	0.218 mg/L as P	Averill Environmental Lab #AEL06010629
Ammonia as N	EPA 350.2	<0.10 mg/L	Averill Environmental Lab #AEL06010629
TKN as N	EPA 351.3	1.7 mg/L	Averill Environmental Lab #AEL06010629
NO_3+$NO_{2\ as\ N}$	EPA 300.0	< 0.63 mg/L	Averill Environmental Lab #AEL06010629
E. coli	SM 9222 B	3000 per 100 mL	Averill Environmental Lab #AEL06010629

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official: Russell M. Arnold, Jr., P.E. / Director of Public Works/Town Engineer

Signature: Russell M [illegible] Date: January 3, 2006

General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Farmington

Mailing Address: 1 Monteith Drive, Farmington CT 06032

Contact Person: Russell M. Jr. Arnold, P.E. Title: DPW Director Phone: 860-675-2305

Permit Registration #GSM

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): (2006) C4: Lat 41-44-51.849, Long 72-51-28.171

Located to the rear (south) of #9 Eastview Drive

Please circle the appropriate area description: Industrial, (Commercial), or Residential

Receiving Water (name, basin): Unnamed Brook, 4300-28-1-L2

Time of Start of Discharge: 12:00pm

Date/Time Collected: December 1, 2006/15:50hrs Water Temperature: 50°F

Person Collecting Sample: Bruce Cyr & Stephen Doyon

Storm Magnitude (inches): 0.4 Storm Duration (hours): 10(approx)

Date of Previous Storm Event: November 23, 2006

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	EPA 150.1	6.7	Averill Environmental Lab #AEL06010630
Rain pH	EPA 150.1	4.54	
Hardness	SM 2340 B	32.3 mg/L CaO3	Averill Environmental Lab #AEL06010630
Conductivity	EPA 120.1	110 micromhos/cm	Averill Environmental Lab #AEL06010630
Oil & Grease	EPA 1664A	<1.8 mg/L	Averill Environmental Lab #AEL06010630
COD	EPA 410.4	< 20 mg/L	Averill Environmental Lab #AEL06010630
Turbidity	EPA 180.1	5.3 NTU	Averill Environmental Lab #AEL06010630
TSS	EPA 160.2	5.3 mg/L	Averill Environmental Lab #AEL06010630
TP	EPA 365.2	0.046 mg/L as P	Averill Environmental Lab #AEL06010630
Ammonia as N	EPA 350.2	< 0.10 mg/L	Averill Environmental Lab #AEL06010630
TKN as N	EPA 351.3	< 0.1 mg/L	Averill Environmental Lab #AEL06010630
NO_3+NO_2 as N	EPA 300.0	< 0.54 mg/L	Averill Environmental Lab #AEL06010630
E. coli	SM 9222 B	650 per 100 mL	Averill Environmental Lab #AEL06010630

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official: Russell M. Arnold, Jr., P.E., Director of Public Works/Town Engineer

Signature: Russell M Arnold Jr Date: January 3, 2006

General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Farmington

Mailing Address: 1 Monteith Drive, Farmington CT 06032

Contact Person: Russell M. Arnold, Jr. P.E. Title: DPW Director Phone: 860-675-2305

Permit Registration #GSM

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): (2006) C5: Lat 41-44-42.574, Long 72-51-15.901

Located on the west side of Brickyard Road 1800lf North of Rte 4, South of driveway into Lakeshore Dr.

Please circle the appropriate area description: Industrial, (Commercial) or Residential

Receiving Water (name, basin): Unnamed Pond, 4300-28-1-L2

Time of Start of Discharge: 12:00pm

Date/Time Collected: December 1, 2006/16:03hrs Water Temperature: 50°F

Person Collecting Sample: Bruce Cyr & Stephen Doyon

Storm Magnitude (inches): 0.4 Storm Duration (hours): 10(approx)

Date of Previous Storm Event: November 23, 2006

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	EPA 150.1	7.3	Averill Environmental Lab #AEL06010631
Rain pH	EPA 150.1	4.54	
Hardness	SM 2340 B	25.9 mg/L CaO3	Averill Environmental Lab #AEL06010631
Conductivity	EPA 120.1	58 micromhos/cm	Averill Environmental Lab #AEL06010631
Oil & Grease	EPA 1664A	<1.9 mg/L	Averill Environmental Lab #AEL06010631
COD	EPA 410.4	70 mg/L	Averill Environmental Lab #AEL06010631
Turbidity	EPA 180.1	170 NTU	Averill Environmental Lab #AEL06010631
TSS	EPA 160.2	103 mg/L	Averill Environmental Lab #AEL06010631
TP	EPA 365.2	0.232 mg/L as P	Averill Environmental Lab #AEL06010631
Ammonia as N	EPA 350.2	< 0.10 mg/L	Averill Environmental Lab #AEL06010631
TKN as N	EPA 351.3	1.1 mg/L	Averill Environmental Lab #AEL06010631
NO_3+NO_2 as N	EPA 300.0	< 0.35 mg/L	Averill Environmental Lab #AEL06010631
E. coli	SM 9222 B	60000 per 100 mL	Averill Environmental Lab #AEL06010631

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: Russell M. Arnold, Jr., P.E., Director of Public Works/Town Engineer

Signature: Russell M Arnold Jr Date: January 3, 2006

General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Farmington

Mailing Address: 1 Monteith Drive, Farmington CT 06032

Contact Person: Russell M. Arnold, Jr. P.E. Title: DPW Director Phone: 860-675-2305

Permit Registration #GSM

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): (2006) I-4: Lat 41-41-46.490, Long 72-51-25.068

Located on the west side of Executive Dr. at the end of the cul-de-sac

Please circle the appropriate area description: (Industrial) Commercial, or Residential

Receiving Water (name, basin): Unnamed Pond on Scott Swamp Brook, 4315-13-2-L2

Time of Start of Discharge: 12:00pm

Date/Time Collected: December 1, 2006/15:10hrs Water Temperature: 50°F

Person Collecting Sample: Bruce Cyr & Stephen Doyon

Storm Magnitude (inches): 0.4 Storm Duration (hours): 10(approx)

Date of Previous Storm Event: November 23, 2006

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	EPA 150.1	6.6	Averill Environmental Lab #AEL06010632
Rain pH	EPA 150.1	4.54	
Hardness	SM 2340 B	16.8 mg/L CaO3	Averill Environmental Lab #AEL06010632
Conductivity	EPA 120.1	98 micromhos/cm	Averill Environmental Lab #AEL06010632
Oil & Grease	EPA 1664A	<1.8 mg/L	Averill Environmental Lab #AEL06010632
COD	EPA 410.4	20 mg/L	Averill Environmental Lab #AEL06010632
Turbidity	EPA 180.1	25 NTU	Averill Environmental Lab #AEL06010632
TSS	EPA 160.2	35 mg/L	Averill Environmental Lab #AEL06010632
TP	EPA 365.2	0.089 mg/L as P	Averill Environmental Lab #AEL06010632
Ammonia as N	EPA 350.2	0.21 mg/L	Averill Environmental Lab #AEL06010632
TKN as N	EPA 351.3	1.2 mg/L	Averill Environmental Lab #AEL06010632
NO_3+NO_2 as N	EPA 300.0	< 0.81 mg/L	Averill Environmental Lab #AEL06010632
E. coli	SM 9222 B	50 per 100 mL	Averill Environmental Lab #AEL06010632

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: Russell M. Arnold, Jr., P.E., Director of Public Works/Town Engineer

Signature: Russell M Arnold Jr Date: January 3, 2006

General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Farmington

Mailing Address: 1 Monteith Drive, Farmington CT 06032

Contact Person: Russell M. Arnold, Jr. P.E. Title: DPW Director Phone: 860-675-2305

Permit Registration #GSM

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): (2006) I 5: Lat 41-41-50.623, Long 72-52-02.366

On the south side of Hyde Road, west of 111 Hyde Road, in vicinity of Box Culvert

Please circle the appropriate area description: (Industrial) Commercial, or Residential

Receiving Water (name, basin): Scott Swamp Brook, 4315-13-2-L2

Time of Start of Discharge: 12:00pm

Date/Time Collected: December 1, 2006/15:00hrs Water Temperature: 50°F

Person Collecting Sample: Bruce Cyr & Stephen Doyon

Storm Magnitude (inches): 0.4 Storm Duration (hours): 10(approx)

Date of Previous Storm Event: November 23, 2006

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	EPA 150.1	7.0	Averill Environmental Lab #AEL06010633
Rain pH	EPA 150.1	4.54	
Hardness	SM 2340 B	39.0 mg/L CaO3	Averill Environmental Lab #AEL06010633
Conductivity	EPA 120.1	250 micromhos/cm	Averill Environmental Lab #AEL06010633
Oil & Grease	EPA 1664A	<2.0 mg/L	Averill Environmental Lab #AEL06010633
COD	EPA 410.4	32 mg/L	Averill Environmental Lab #AEL06010633
Turbidity	EPA 180.1	28 NTU	Averill Environmental Lab #AEL06010633
TSS	EPA 160.2	89.0 mg/L	Averill Environmental Lab #AEL06010633
TP	EPA 365.2	0.121 mg/L as P	Averill Environmental Lab #AEL06010633
Ammonia as N	EPA 350.2	0.29 mg/L	Averill Environmental Lab #AEL06010633
TKN as N	EPA 351.3	1.5 mg/L	Averill Environmental Lab #AEL06010633
NO_3+NO_2 as N	EPA 300.0	<1.02 mg/L	Averill Environmental Lab #AEL06010633
E. coli	SM 9222 B	1050 per 100 mL	Averill Environmental Lab #AEL06010633

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: Russell M. Arnold, Jr., P.E., Director of Public Works/Town Engineer

Signature: Russell M Arnold Jr Date: January 3, 2006

AVERILL ENVIRONMENTAL LABORATORY, INC.

CT Laboratory ID No. PH-0513 | 100 Northwest Drive, Plainville, Connecticut 06062 | NH Laboratory ID No. 2506
MA Laboratory ID No. M-CT0513 | (860) 747-0676 Fax: (860) 747-9264 CT ONLY 1-(800) 870-7904 | ME Laboratory ID No. CT029
NY Laboratory ID No. 11599 | Lawton S. Averill - Director Alan G. Jacobs - Co-Director | EPA Laboratory ID No. CT00029

REPORT ON LABORATORY EXAMINATIONS

To Client: Town of Farmington, Engineering
1 Monteith Drive
Farmington, CT 06034-0948

ATTN: Russ Arnold

Report Date: Friday, December 15, 2006
Received Date: Friday, December 01, 2006
Collect Date: Friday, December 01, 2006
Collect Time: 3:20 PM

AEL Lab#: AEL06010628

Client Sample ID: R4A-12-1-06

Source: Batterson Road, Farmington, CT

Sample ID: Stormwater Sample

Sample Matrix: Surface Water

Test		Result	Units	Analyst	Analysis Date	Analysis Method
Total Suspended Solids		91.0	mg/L	CC	12/5/06	EPA 160.2
Nitrate Nitrogen as N		0.87	mg/L	CC	12/6/06	EPA 300.0
Nitrite Nitrogen as N	<	0.122	mg/L	CC	12/6/06	EPA 300.0
pH		7.2	units	AGJ	12/1/06	EPA 150.1
Specific Conductivity		100	micromhos/cm	MTK	12/6/06	EPA 120.1
Hardness, Calculated		44.7	mg/L CaCO3	RR	12/6/06	SM 2340 B
Chemical Oxygen Demand		83	mg/L	JF	12/11/06	EPA 410.4
Ammonia Nitrogen as N	L	0.19	mg/L	CC	12/4/06	EPA 350.2
Phosphorus, Total as P		0.196	mg/L as P	JM	12/8/06	EPA 365.2
E. Coli		600	per 100 mL	AGJ/JF	12/1/06	SM 9222 B
Total Coliform		200000	per 100 mL	AGJ/JF	12/1/06	SM 9222 B
Total Kjeldahl Nitrogen		2.5	mg/L	CC	12/14/06	EPA 351.3
Turbidity		77	NTU	CC/MAP	12/5/06	EPA 180.1
Calcium		11.6	mg/L	RR	12/6/06	EPA 200.7
Magnesium		3.82	mg/L	RR	12/6/06	EPA 200.7
Oil & Grease, Hexane Ext. Material	<	1.9	mg/L	WCH	12/11/06	EPA 1664A

L- Flag results above MDL and less than quantitation Limit as estimated.

H- Flag results above calibration range as estimated.

Lawton S. Averill (MAP)
Laboratory Director

AVERILL ENVIRONMENTAL LABORATORY, INC.

CT Laboratory ID No. PH-0513
MA Laboratory ID No. M-CT0513
NY Laboratory ID No. 11599

100 Northwest Drive, Plainville, Connecticut 06062
(860) 747-0676 Fax: (860) 747-9264
Lawton S. Averill - Director
CT ONLY 1-(800) 870-7904
Alan G. Jacobs - Co-Director

NH Laboratory ID No. 2506
ME Laboratory ID No. CT029
EPA Laboratory ID No. CT00029

REPORT ON LABORATORY EXAMINATIONS

To Client: Town of Farmington, Engineering
1 Monteith Drive
Farmington, CT 06034-0948

ATTN: Russ Arnold

Report Date: Friday, December 15, 2006
Received Date: Friday, December 01, 2006
Collect Date: Friday, December 01, 2006
Collect Time: 3:30 PM

AEL Lab#: AEL06010629

Client Sample ID: R5A-12-1-06

Source: Batterson Road, Farmington, CT
Sample ID: Stormwater Sample

Sample Matrix: Surface Water

Test		Result	Units	Analyst	Analysis Date	Analysis Method
Total Suspended Solids		85.0	mg/L	CC	12/5/06	EPA 160.2
Nitrate Nitrogen as N		0.51	mg/L	CC	12/6/06	EPA 300.0
Nitrite Nitrogen as N	<	0.122	mg/L	CC	12/6/06	EPA 300.0
pH		7.3	units	AGJ	12/1/06	EPA 150.1
Specific Conductivity		77	micromhos/cm	MTK	12/6/06	EPA 120.1
Hardness, Calculated		28.8	mg/L CaCO3	RR	12/6/06	SM 2340 B
Chemical Oxygen Demand		52	mg/L	JF	12/11/06	EPA 410.4
Ammonia Nitrogen as N	<	0.10	mg/L	CC	12/4/06	EPA 350.2
Phosphorus, Total as P		0.218	mg/L as P	JM	12/8/06	EPA 365.2
E. Coli		3000	per 100 mL	AGJ/JF	12/1/06	SM 9222 B
Total Coliform		390000	per 100 mL	AGJ/JF	12/1/06	SM 9222 B
Total Kjeldahl Nitrogen		1.7	mg/L	CC	12/14/06	EPA 351.3
Turbidity		48	NTU	CC/MAP	12/5/06	EPA 180.1
Calcium		7.89	mg/L	RR	12/6/06	EPA 200.7
Magnesium		2.21	mg/L	RR	12/6/06	EPA 200.7
Oil & Grease, Hexane Ext. Material	<	2.0	mg/L	WCH	12/11/06	EPA 1664A

L- Flag results above MDL and less than quantitation Limit as estimated.

H- Flag results above calibration range as estimated.

Lawton S. Averill (MAP)
Laboratory Director

N:\2006\TWN_FARM\10629.snp

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MA Laboratory ID No. M-CT0513
NY Laboratory ID No. 11599

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Lawton S. Averill - Director

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Report Date: Friday, December 15, 2006
Received Date: Friday, December 01, 2006
Collect Date: Friday, December 01, 2006
Collect Time: 3:50 PM

AEL Lab#: AEL06010630

Client Sample ID: C4A-12-1-06

Source: Eastview Drive, Farmington, CT
Sample ID: Stormwater Sample

Sample Matrix: Surface Water

Test		Result	Units	Analyst	Analysis Date	Analysis Method
Total Suspended Solids		5.3	mg/L	CC	12/5/06	EPA 160.2
Nitrate Nitrogen as N		0.42	mg/L	CC	12/6/06	EPA 300.0
Nitrite Nitrogen as N	<	0.122	mg/L	CC	12/6/06	EPA 300.0
pH		6.7	units	AGJ	12/1/06	EPA 150.1
Specific Conductivity		110	micromhos/cm	MTK	12/6/06	EPA 120.1
Hardness, Calculated		32.3	mg/L CaCO3	RR	12/6/06	SM 2340 B
Chemical Oxygen Demand	<	20	mg/L	JF	12/11/06	EPA 410.4
Ammonia Nitrogen as N	<	0.10	mg/L	CC	12/4/06	EPA 350.2
Phosphorus, Total as P		0.046	mg/L as P	JM	12/8/06	EPA 365.2
E. Coli		650	per 100 mL	AGJ/JF	12/1/06	SM 9222 B
Total Coliform		78500	per 100 mL	AGJ/JF	12/1/06	SM 9222 B
Total Kjeldahl Nitrogen	<	1.0	mg/L	CC	12/14/06	EPA 351.3
Turbidity		5.3	NTU	CC/MAP	12/5/06	EPA 180.1
Calcium		11.6	mg/L	RR	12/6/06	EPA 200.7
Magnesium		0.80	mg/L	RR	12/6/06	EPA 200.7
Oil & Grease, Hexane Ext. Material	<	1.8	mg/L	WCH	12/11/06	EPA 1664A

L- Flag results above MDL and less than quantitation Limit as estimated.

H- Flag results above calibration range as estimated.

Lawton S. Averill (MAP)
Laboratory Director

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AVERILL ENVIRONMENTAL LABORATORY, INC.

CT Laboratory ID No. PH-0513
MA Laboratory ID No. M-CT0513
NY Laboratory ID No. 11599

100 Northwest Drive, Plainville, Connecticut 06062
(860) 747-0676 Fax: (860) 747-9264
Lawton S. Averill - Director

CT ONLY 1-(800) 870-7904
Alan G. Jacobs - Co-Director

NH Laboratory ID No. 2506
ME Laboratory ID No. CT029
EPA Laboratory ID No. CT00029

REPORT ON LABORATORY EXAMINATIONS

To Client: Town of Farmington, Engineering
1 Monteith Drive
Farmington, CT 06034-0948

Report Date: Friday, December 15, 2006
Received Date: Friday, December 01, 2006
Collect Date: Friday, December 01, 2006
Collect Time: 4:03 PM

ATTN: Russ Arnold

AEL Lab#: AEL06010631

Client Sample ID: C5A-12-1-06

Source: Brickyard Road, Farmington, CT
Sample ID: Stormwater Sample

Sample Matrix: Surface Water

Test		Result	Units	Analyst	Analysis Date	Analysis Method
Total Suspended Solids		103	mg/L	CC	12/5/06	EPA 160.2
Nitrate Nitrogen as N	<	0.23	mg/L	CC	12/6/06	EPA 300.0
Nitrite Nitrogen as N	<	0.122	mg/L	CC	12/6/06	EPA 300.0
pH		7.3	units	AGJ	12/1/06	EPA 150.1
Specific Conductivity		58	micromhos/cm	MTK	12/6/06	EPA 120.1
Hardness, Calculated		25.9	mg/L CaCO3	RR	12/6/06	SM 2340 B
Chemical Oxygen Demand		70	mg/L	JF	12/11/06	EPA 410.4
Ammonia Nitrogen as N	<	0.10	mg/L	CC	12/4/06	EPA 350.2
Phosphorus, Total as P		0.232	mg/L as P	JM	12/8/06	EPA 365.2
E. Coli		60000	per 100 mL	AGJ/JF	12/1/06	SM 9222 B
Total Coliform		335000	per 100 mL	AGJ/JF	12/1/06	SM 9222 B
Total Kjeldahl Nitrogen		1.1	mg/L	CC	12/14/06	EPA 351.3
Turbidity		170	NTU	CC/MAP	12/5/06	EPA 180.1
Calcium		6.69	mg/L	RR	12/6/06	EPA 200.7
Magnesium		2.22	mg/L	RR	12/6/06	EPA 200.7
Oil & Grease, Hexane Ext. Material	<	1.9	mg/L	WCH	12/11/06	EPA 1664A

L- Flag results above MDL and less than quantitation Limit as estimated.

H- Flag results above calibration range as estimated.

Lawton S. Averill (MAP)
Laboratory Director

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Lawton S. Averill - Director

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Alan G. Jacobs - Co-Director

NH Laboratory ID No. 2506
ME Laboratory ID No. CT029
EPA Laboratory ID No. CT00029

REPORT ON LABORATORY EXAMINATIONS

To Client: Town of Farmington, Engineering
1 Monteith Drive
Farmington, CT 06034-0948

ATTN: Russ Arnold

Report Date: Friday, December 15, 2006
Received Date: Friday, December 01, 2006
Collect Date: Friday, December 01, 2006
Collect Time: 3:10 PM

AEL Lab#: AEL06010632

Client Sample ID: I4A-12-1-06

Source: Executive Drive, Farmington, CT
Sample ID: Stormwater Sample

Sample Matrix: Surface Water

Test		Result	Units	Analyst	Analysis Date	Analysis Method
Total Suspended Solids		35.0	mg/L	CC	12/5/06	EPA 160.2
Nitrate Nitrogen as N		0.69	mg/L	CC	12/6/06	EPA 300.0
Nitrite Nitrogen as N	<	0.122	mg/L	CC	12/6/06	EPA 300.0
pH		6.6	units	AGJ	12/1/06	EPA 150.1
Specific Conductivity		98	micromhos/cm	MTK	12/6/06	EPA 120.1
Hardness, Calculated		16.8	mg/L CaCO3	RR	12/11/06	SM 2340 B
Chemical Oxygen Demand		20	mg/L	JF	12/11/06	EPA 410.4
Ammonia Nitrogen as N	L	0.21	mg/L	CC	12/4/06	EPA 350.2
Phosphorus, Total as P		0.089	mg/L as P	JM	12/8/06	EPA 365.2
E. Coli		50	per 100 mL	AGJ/JF	12/1/06	SM 9222 B
Total Coliform		18600	per 100 mL	AGJ/JF	12/1/06	SM 9222 B
Total Kjeldahl Nitrogen		1.2	mg/L	CC	12/14/06	EPA 351.3
Turbidity		25	NTU	CC/MAP	12/5/06	EPA 180.1
Calcium		5.11	mg/L	RR	12/11/06	EPA 200.7
Magnesium		0.98	mg/L	RR	12/11/06	EPA 200.7
Oil & Grease, Hexane Ext. Material	<	1.8	mg/L	WCH	12/11/06	EPA 1664A

L- Flag results above MDL and less than quantitation Limit as estimated.

H- Flag results above calibration range as estimated.

Lawton S. Averill (MAP)
Laboratory Director

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AVERILL ENVIRONMENTAL LABORATORY, INC.

CT Laboratory ID No. PH-0513
MA Laboratory ID No. M-CT0513
NY Laboratory ID No. 11599

100 Northwest Drive, Plainville, Connecticut 06062
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Lawton S. Averill - Director

CT ONLY 1-(800) 870-7904
Alan G. Jacobs - Co-Director

NH Laboratory ID No. 2506
ME Laboratory ID No. CT029
EPA Laboratory ID No. CT00029

REPORT ON LABORATORY EXAMINATIONS

To Client: Town of Farmington, Engineering
1 Monteith Drive
Farmington, CT 06034-0948

Report Date: Friday, December 15, 2006
Received Date: Friday, December 01, 2006
Collect Date: Friday, December 01, 2006
Collect Time: 3:00 PM

ATTN: Russ Arnold

AEL Lab#: AEL06010633

Client Sample ID: I5A-12-1-06

Source: Hyde Road, Farmington, CT
Sample ID: Stormwater Sample

Sample Matrix: Surface Water

Test		Result	Units	Analyst	Analysis Date	Analysis Method
Total Suspended Solids		89.0	mg/L	CC	12/5/06	EPA 160.2
Nitrate Nitrogen as N		0.90	mg/L	CC	12/6/06	EPA 300.0
Nitrite Nitrogen as N	<	0.122	mg/L	CC	12/6/06	EPA 300.0
pH		7.0	units	AGJ	12/1/06	EPA 150.1
Specific Conductivity		250	micromhos/cm	MTK	12/6/06	EPA 120.1
Hardness, Calculated		39.0	mg/L CaCO3	RR	12/11/06	SM 2340 B
Chemical Oxygen Demand		32	mg/L	JF	12/11/06	EPA 410.4
Ammonia Nitrogen as N	L	0.29	mg/L	CC	12/4/06	EPA 350.2
Phosphorus, Total as P		0.121	mg/L as P	JM	12/8/06	EPA 365.2
E. Coli		1050	per 100 mL	AGJ/JF	12/1/06	SM 9222 B
Total Coliform		122000	per 100 mL	AGJ/JF	12/1/06	SM 9222 B
Total Kjeldahl Nitrogen		1.5	mg/L	CC	12/14/06	EPA 351.3
Turbidity		28	NTU	CC/MAP	12/5/06	EPA 180.1
Calcium		11.5	mg/L	RR	12/11/06	EPA 200.7
Magnesium		2.48	mg/L	RR	12/11/06	EPA 200.7
Oil & Grease, Hexane Ext. Material	<	2.0	mg/L	WCH	12/11/06	EPA 1664A

L- Flag results above MDL and less than quantitation Limit as estimated.

H- Flag results above calibration range as estimated.

Lawton S. Averill (MAP)
Laboratory Director

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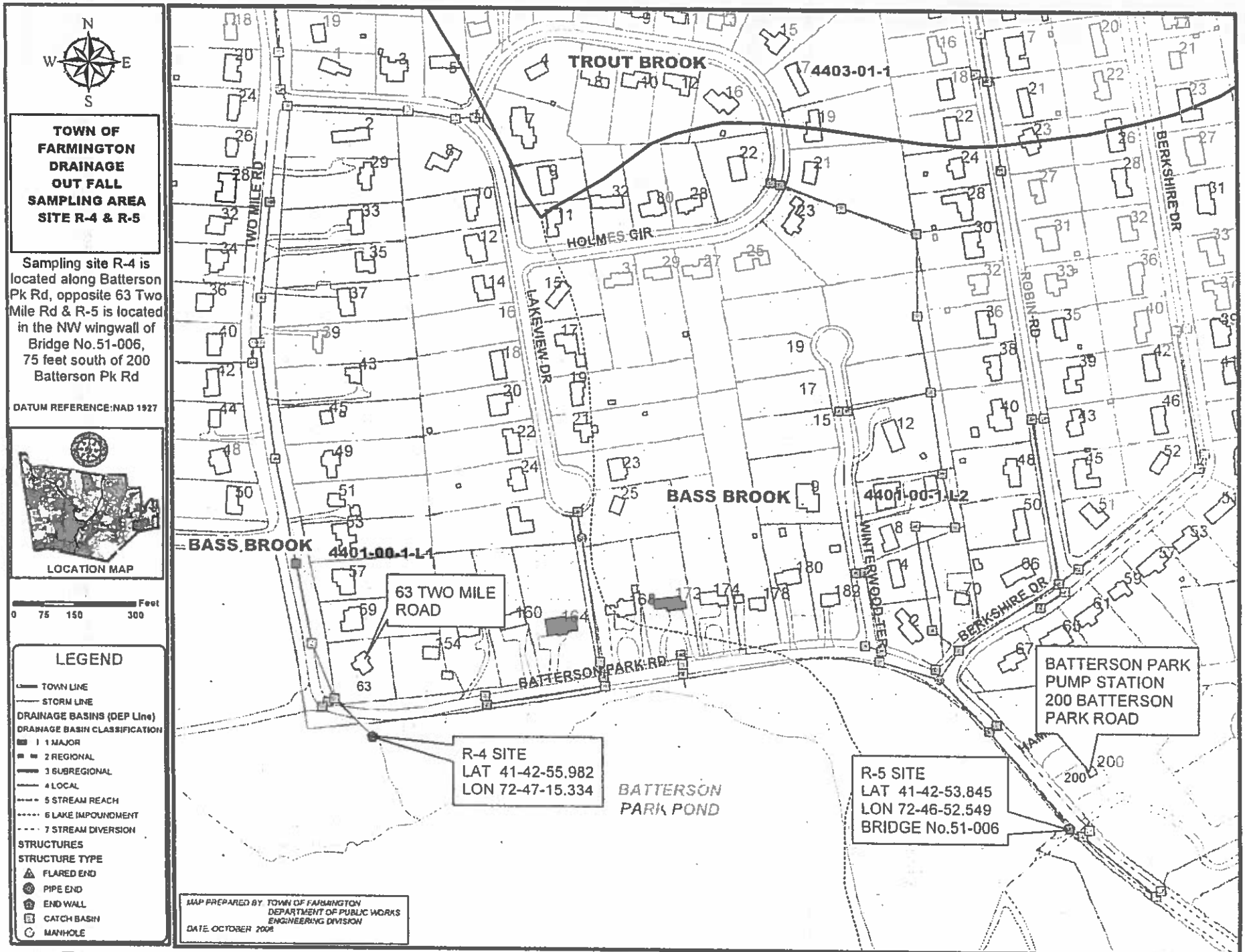
ATTACHMENT C

Monitoring Site Location Mapping


N
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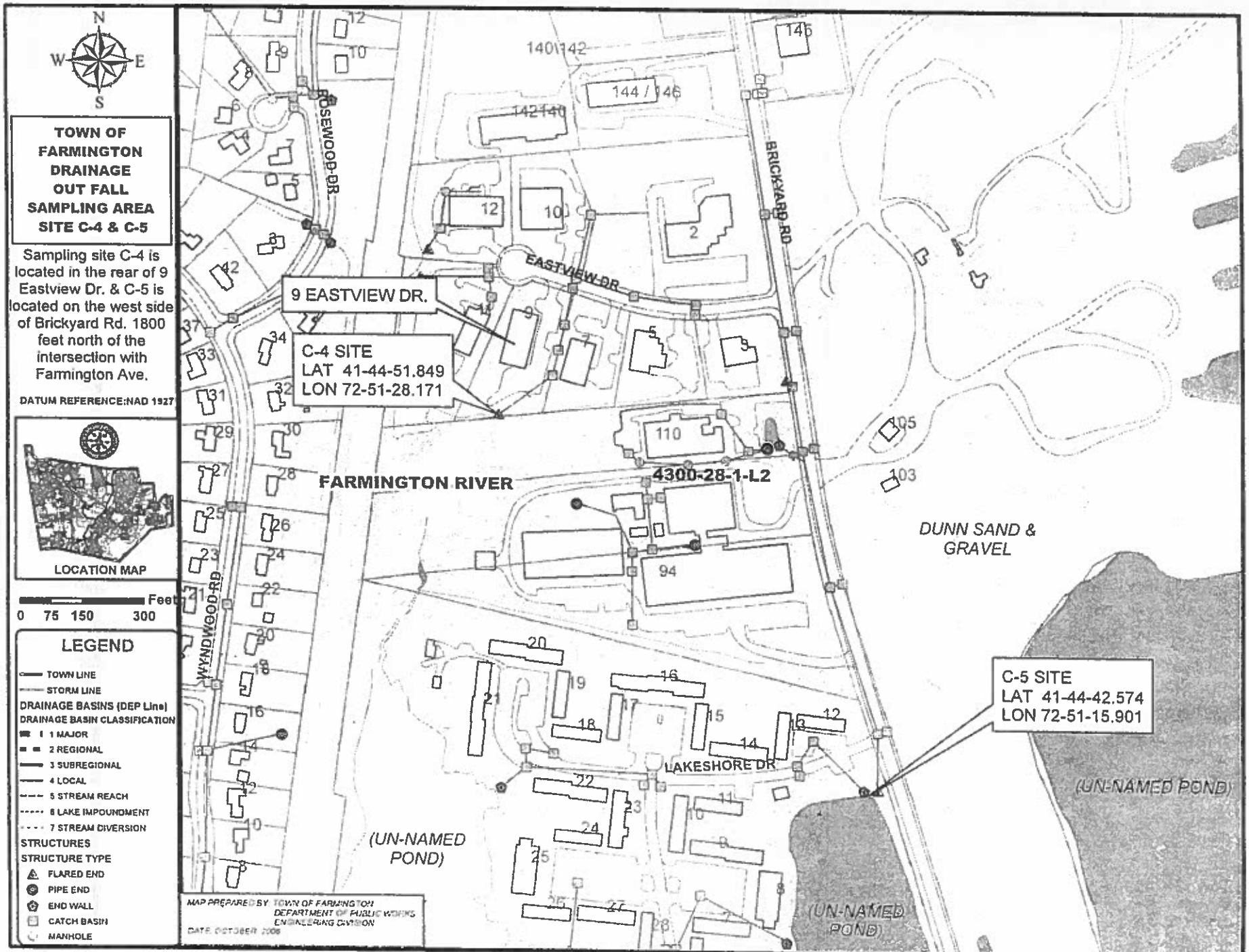
TOWN OF FARMINGTON DRAINAGE OUT FALL SAMPLING AREA SITE R-4 & R-5
Sampling site R-4 is located along Batterson Pk Rd, opposite 63 Two Mile Rd & R-5 is located in the NW wingwall of Bridge No.51-006, 75 feet south of 200 Batterson Pk Rd
DATUM REFERENCE:NAD 1927
LOCATION MAP
Feet
0 75 150 300
LEGEND
TOWN LINE
STORM LINE
DRAINAGE BASINS (DEP Line)
DRAINAGE BASIN CLASSIFICATION
1 MAJOR
2 REGIONAL
3 SUBREGIONAL
4 LOCAL
5 STREAM REACH
6 LAKE IMPOUNDMENT
7 STREAM DIVERSION
STRUCTURES
STRUCTURE TYPE
FLARED END
PIPE END
END WALL
CATCH BASIN
MANHOLE
TROUT BROOK
4403-01-1
HOLMES CIR
TWO MILE RD
LAKEVIEW DR
ROBIN RD
BERKSHIRE DR
BASS BROOK
4401-00-1-L2
BASS BROOK
4401-00-1-L1
WINTERWOOD TER
63 TWO MILE ROAD
BATTERSON PARK RD
BATTERSON PARK POND
R-4 SITE
LAT 41-42-55.982
LON 72-47-15.334
R-5 SITE
LAT 41-42-53.845
LON 72-46-52.549
BRIDGE No.51-006
BATTERSON PARK PUMP STATION
200 BATTERSON PARK ROAD
MAP PREPARED BY: TOWN OF FARMINGTON
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
DATE: OCTOBER 2008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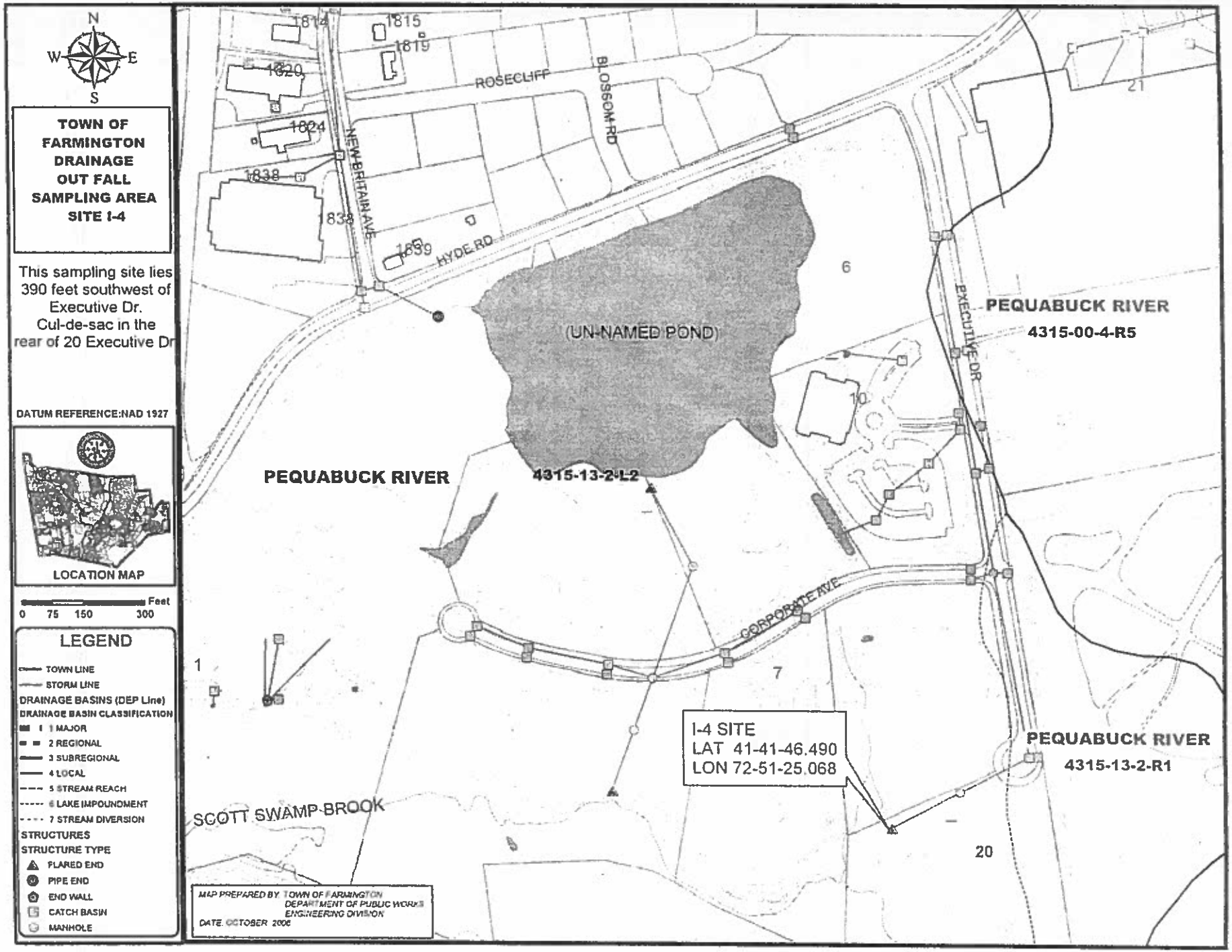
TOWN OF FARMINGTON DRAINAGE OUT FALL SAMPLING AREA SITE C-4 & C-5
Sampling site C-4 is located in the rear of 9 Eastview Dr. & C-5 is located on the west side of Brickyard Rd. 1800 feet north of the intersection with Farmington Ave.
DATUM REFERENCE:NAD 1927
LOCATION MAP
Feet
0 75 150 300
LEGEND
TOWN LINE
STORM LINE
DRAINAGE BASINS (DEP Line)
DRAINAGE BASIN CLASSIFICATION
1 MAJOR
2 REGIONAL
3 SUBREGIONAL
4 LOCAL
5 STREAM REACH
6 LAKE IMPOUNDMENT
7 STREAM DIVERSION
STRUCTURES
STRUCTURE TYPE
FLARED END
PIPE END
END WALL
CATCH BASIN
MANHOLE
9 EASTVIEW DR.
C-4 SITE
LAT 41-44-51.849
LON 72-51-28.171
FARMINGTON RIVER
4300-28-1-L2
DUNN SAND & GRAVEL
C-5 SITE
LAT 41-44-42.574
LON 72-51-15.901
(UN-NAMED POND)
(UN-NAMED POND)
(UN-NAMED POND)
EASTVIEW DR
BRICKYARD RD
ROSEWOOD DR
WYNDWOOD RD
LAKESHORE DR
MAP PREPARED BY: TOWN OF FARMINGTON DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION
DATE: OCTOBER 2008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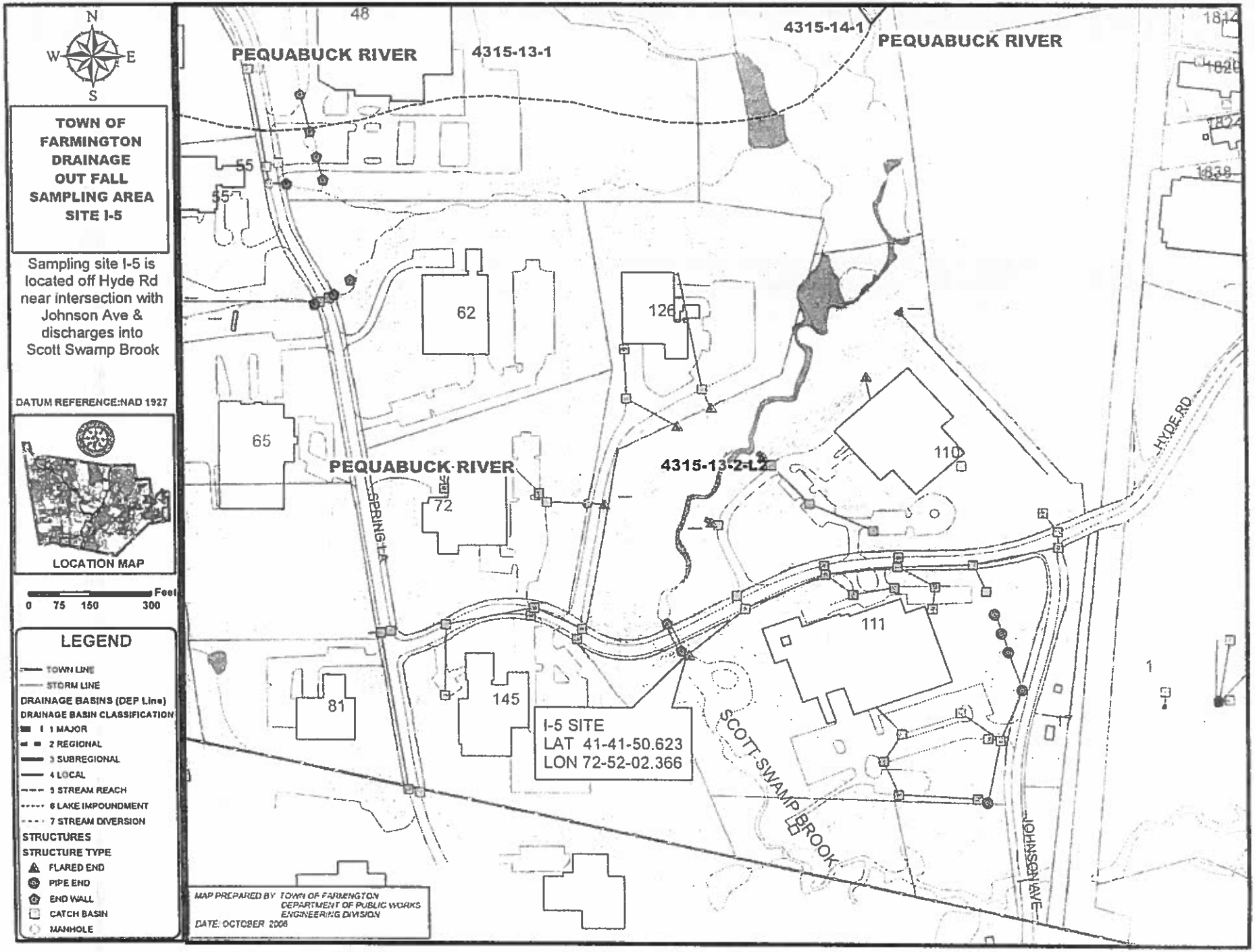
TOWN OF FARMINGTON DRAINAGE OUT FALL SAMPLING AREA SITE I-4
This sampling site lies 390 feet southwest of Executive Dr. Cul-de-sac in the rear of 20 Executive Dr
DATUM REFERENCE:NAD 1927
LOCATION MAP
Feet
0 75 150 300
LEGEND
TOWN LINE
STORM LINE
DRAINAGE BASINS (DEP Line)
DRAINAGE BASIN CLASSIFICATION
1 MAJOR
2 REGIONAL
3 SUBREGIONAL
4 LOCAL
5 STREAM REACH
6 LAKE IMPOUNDMENT
7 STREAM DIVERSION
STRUCTURES
STRUCTURE TYPE
FLARED END
PIPE END
END WALL
CATCH BASIN
MANHOLE
1814
1815
1819
1820
1824
1838
1839
ROSECLIFF
BLOSSOM RD
NEW BRITAIN AVE
HYDE RD
(UN-NAMED POND)
PEQUABUCK RIVER
4315-13-2-L2
PEQUABUCK RIVER
4315-00-4-R5
EXECUTIVE DR
CORPORATE AVE
I-4 SITE
LAT 41-41-46.490
LON 72-51-25.068
PEQUABUCK RIVER
4315-13-2-R1
SCOTT SWAMP BROOK
1
6
7
10
20
21
MAP PREPARED BY: TOWN OF FARMINGTON
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
DATE: OCTOBER 2006


N
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S
TOWN OF FARMINGTON DRAINAGE OUT FALL SAMPLING AREA SITE I-5
Sampling site I-5 is located off Hyde Rd near intersection with Johnson Ave & discharges into Scott Swamp Brook
DATUM REFERENCE:NAD 1927
LOCATION MAP
0 75 150 300 Feet
LEGEND
TOWN LINE
STORM LINE
DRAINAGE BASINS (DEP Line)
DRAINAGE BASIN CLASSIFICATION
1 MAJOR
2 REGIONAL
3 SUBREGIONAL
4 LOCAL
5 STREAM REACH
6 LAKE IMPOUNDMENT
7 STREAM DIVERSION
STRUCTURES
STRUCTURE TYPE
FLARED END
PIPE END
END WALL
CATCH BASIN
MANHOLE
PEQUABUCK RIVER
4315-13-1
4315-14-1
PEQUABUCK RIVER
PEQUABUCK RIVER
4315-13-2-L2
SPRING LA
HYDE RD
JOHNSON AVE
SCOTT SWAMP BROOK
I-5 SITE
LAT 41-41-50.623
LON 72-52-02.366
48
55
55
62
126
65
72
110
111
81
145
1
MAP PREPARED BY TOWN OF FARMINGTON
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
DATE: OCTOBER 2006

ATTACHMENT D

Alternative Sampling Plan

Alternative Sampling Plan

The nominal objective of any monitoring program is to document progress toward a stated goal or to identify, document and provide a basis for corrective action with respect to conditions that may be preventing the achievement of that goal. As noted in subsection 3.2 of this plan, the goal set forth in subsection (b) of Section 5 of the general permit states "The permittee shall develop, implement, and enforce a stormwater management plan designed to reduce the discharge of pollutants from the Small MS4 to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate water quality requirements under the Clean Water Act." These are very broad objectives, the achievements of which are obviously difficult to document by a monitoring program. However, as can be noted from the requirements of the general permit outlined above and specified in the general permit, the monitoring requirements set forth in the general permit are very specific and rigid unless an alternative sampling plan is defined and submitted for the written approval of the Commissioner.

Based on the experience implementing the stormwater monitoring program as set forth in the general permit within the Town of Farmington, it has been concluded that the specified monitoring program is not a very useful means of attempting to document progress toward the objectives and goal of the general permit. Part of the reason is the fractured nature of the town owed stormwater collection systems serving the town. Most of the storm sewers serving industrial and commercial properties do not discharge into town owned storm sewers making the selection of sampling locations at town owned outfalls a very strained process of trying to identify sampling locations that are compliant with the written requirements of the general permit rather than objectives of the permit program. In addition, the town is compelled to the sampling of outfalls that serve specific land use areas without regard to their relative importance.

Under the alternative sampling plan, attention will be focused on the water quality of the stormwater discharges within subordinate drainage basins that collect runoff from limited areas of the town and discharge across town boundaries into neighboring municipalities or discharge into the major river systems coursing through the town, namely the Farmington and the Pequabuck Rivers. Examples of the drainage areas that drain limited areas within Farmington are the upper reaches of Trout Brook, a minor tributary of the Quinnipiac River, streams within the Trout Brook Basin that drain into Woodridge Lake and reservoirs managed by the Metropolitan District, streams that flow into the Bass Brook Basin which is dominated by Batterson Park Pond, and Copper Mine Brook that drains into public water supply watersheds in Bristol. An example of a stream that drains a significant area within the Town of Farmington dominated historically by earth mining and presently by industrial development is Scott Swamp Brook which discharges into the Pequabuck River just south of the town boundary with Plainville.

The alternative sampling plan that has been developed is to collect a minimum of six samples each year from either individual storm sewer outfalls or selected sampling locations on streams or water bodies located within one or more selected drainage basins and identify the land use prevalent in the drainage area rather than basing the selection of sampling locations on the type of land use. This will allow a more systematic assessment of each of the storm sewer systems located within specific drainage basins.

The samples may also be taken at select outfalls or directly from streams before expected storm events that will be sampled in an attempt to quantify adverse effects that can be attributed to runoff induced by storm events. By introducing this type of flexibility into the monitoring program, the town staff can direct its available resources and efforts to known or suspected problem areas to identify the potential sources of contamination. Further field investigations and inspections can then be initiated to identify specific causes of such contamination.

As presently defined, it is not intended that the wet weather stormwater monitoring procedures will be significantly varied from those specified in paragraphs (h)(3)(A), (B) and (C) of Section 6 of the general permit. Those paragraphs require samples to be collected during the first 6 hours of a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours after any previous storm event of 0.1 inches or greater. Run-off events resulting from snow or ice melt will also not be sampled, grab samples will be used and, if possible, all the stormwater samples to be submitted to the DEP as monitoring compliant with the approved alternate sampling plan shall be collected during the same storm event. These provisions are consistent with the existing monitoring requirements of the general permit.