



January 6, 2012

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 2011
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 2011 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)*. As noted previously, I am currently the primary contact for departmental correspondence and inquiries. The stormwater monitoring data and sample locations for 2011 have been obtained based on the alternative sampling plan that the Commissioner approved in February 2007, the results of which can be found in Attachments B and C.

A check for the municipal plan review fee, in the amount of \$187.50, was recently mailed to the Accounts Receivable Department at the CTDEP. I have enclosed a copy of check for your records.

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/Town Engineer
Department of Public Works
Town of Farmington

enclosures





2011 ANNUAL REPORT

Municipal Separate Storm Sewer System

FARMINGTON, CT

Prepared by

**TOWN OF FARMINGTON
DEPARTMENT OF PUBLIC WORKS
Engineering Division
1 Monteith Drive
Farmington, CT 06032**

January, 2012

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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 permit was extended “as-is” until January 9, 2011. 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.

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

The alternative sampling plan that was filed as Attachment D of the 2006 Annual Report was approved by the Department of Environmental Protection Stormwater Permit Coordinator on February 27, 2007.

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 was published three times this year and distributed 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 2011 were notifications and general useful information for the public.

In the April issue, articles were written regarding the upcoming Household Hazardous Waste Collection Day, Town Wide Cleanup, and Electronics Recycling all to be held on April 30th. We also included an article entitled “10 Things You Can Do to Prevent Stormwater Pollution”. The article inform residents regarding the effects of pesticides, illicit storm water discharges, discharge of pollutants to storm drains, composting, discharge of roof drainage, car washing, pet waste, and septic systems. In the July issue, the residents were informed the Town would be commencing the new single stream recycling program.

The Town had created a Green Efforts Committee last year, which consists of residents, students, Town staff, Board of Education, and Town Council members. The Green Efforts Committee is responsible for promoting energy efficiency and clean energy sources, as well as storm water, recycling, understanding the value and protection of wetlands, the environment, and natural resources. One of its main projects was the creation of a “Green” Newsletter and Webpage Green Efforts Committee. The Webpage includes a Stormwater Runoff Section where we have detailed 10 Things You can Do to Help Prevent Stormwater Pollution. In the future, we will be adding other useful information to the webpage bringing awareness to the effects of storm water pollution and detailing how residents can prevent or reduce storm water pollution at home.

As noted in previous reports, the Town has eliminated the use of sand during its winter snow plowing efforts, and went to a salt product used prior and during a snowstorm. Based on our street sweeping records, there has been a large reduction in the volume of sand collected from the previous years, on all Town owned public roadways.

Contact continues to be maintained with other organizations involved with the stormwater program. These include the Department of Energy and Environmental Protection (DEEP), 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.

The Town is also continuing to work with the local planning agency CCRPA to insure implementation of the Pequabuck River Watershed Management Plan. The plan was completed in 2005 and presented before the Farmington Conservation Commission on September 5, 2006 and the Town Council on December 12, 2006. 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 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**

The Town of Farmington has collaborated with other local non-profit organizations in an attempt to involve the public in environmentally friendly projects. While the events were planned to perform certain tasks, one of the key goals was to involve the public to educate them of the surrounding environment and the possible negative effects of their everyday lifestyles. It is the hope of these organizations that the public becomes aware of the environment and works to change their ways and educating other friends and families.

On April 30, 2011, the Annual Farmington Town-Wide Clean-Up Day was conducted. This event is sponsored each year by local organizations and businesses to in an effort to clean many areas around Town, and promote the importance of protecting the environment.

On April 30, 2011 the Town of Farmington Conservation Commission and Green Efforts Committee sponsored another Household Hazardous Waste Collection and Electronics Recycling Program with the help of The Metropolitan District Commission. As noted above, the public was made aware of these activities through the *Farmington Town Letter*.

The Town in conjunction with the Farmington River Watershed Association had sponsored a program to offer rain barrels and home composting kits at discounted prices. The information was published in the Farmington Town Letter. The idea was to inform residents

On October 1, 2011 the Farmington River Watershed Association had sponsored a Farmington River Clean-Up. It was sponsored by local businesses, and involved the public in cleaning up the banks of the Farmington River.

The Town Engineer had met with a local 4th grade elementary school class to conduct a storm water education seminar. The presentation included how and where storm water is conveyed and how the importance of how our everyday actions could unknowingly be attributing to storm water pollution and its effect on the Farmington River. The Town Engineer has discussed the continuation of this presentation throughout the district in the future.

2.3 **Illicit Discharge Detection & Elimination**

The mapping of municipal storm sewer outfalls within the Town of Farmington is proceeding on schedule. The Town of Farmington continues to map all public, institutional and private storm sewers and outfalls as they are installed. The specific size and area oriented requirements of the *MS4 General Permit* are being addressed as minimum objectives with respect to time. The mapping of outfalls greater than 12 inches owned or maintained by the Town of Farmington has been completed in Urbanized Areas, and 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.

An Illicit Discharge and Connection Ordinance was approved by the Farmington Town Council, on July 12, 2011 (See Attachment C). The ordinance was developed to forbid any future illicit discharges or connections and gives the Town authority to inspect any possible illicit discharge or connections, and allows for the Town to issue citations and fines if deemed necessary.

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.

On November 26, 2007, the Town had updated the Farmington Inland Wetland and Watercourse Agency regulations that now require all landowners to obtain a permit for activities listed in Section 2.1 of this permit, conducted within 150ft of a designated wetland or watercourse.

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 many cases, these programs are included in the Homeowners Association Documents. The Town has developed a "Declaration of Covenants for Maintenance of Storm and Surface Water Facility", which is signed by the Town and Owners. The document requires the owners to maintain the storm water management system as approved by the Town. It also grants the Town the right to access the property for inspection purposes to insure that the system is being properly maintained and is continuing to perform in an adequate manner. Should it fail to maintain or correct any deficiencies, the Town is authorized to enter the property and make the required maintenance or improvements, and assess the property owner for all costs associated with the work.

The Town of Farmington decided, that in addition mapping the publicly owned storm sewers, that it would be beneficial to map and maintain an inventory of privately owned storm sewers, though not required by the permit. This has been completed and is continually being updated as required.

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 as soon as practical after snowmelt has been implemented. The Town has also converted from the use of a sand and salt mixture as ice control, to a commercial salt mixture. This operational change has significantly reduced the volume of sand that needs to be collected by street sweeping. The elimination of sand should improve the environmental health of the small and medium sized streams within the Town of Farmington, which have characteristically developed abnormal bottom deposits dominated by the erosion of sand from roadways. The DOT adopted a similar program in 2005 opting to use a liquid mixture in lieu of sand and salt.

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. These 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. The elimination of the use of sand for skid control is a manifestation of this focus. No additional staff is 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 2011. The analytical results are presented on the laboratory examination reports and on the DEP Stormwater Monitoring Report Forms contained in Attachment A. The sample site locations are identified on maps presented in Attachment B. 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.

<u>Site Location Identifier</u>	<u>Sample Number</u>	<u>Laboratory Number</u>
2011-R-25 (Residential)	R25-10-19-11	AEL11007773
2011-R-26 (Residential)	R26-10-19-11	AEL11007774
2011-C-5 (Residential)	C5-10-19-11	AEL11007775
2011-C-6 (Residential)	C6-10-19-11	AEL11007776

2011-I-3 (Industrial)
2011-I-4 (Industrial)

I3-10-19-11
I4-10-19-11

AEL11007777
AEL11007778

All six of the 2011 storm water samples were collected during a rainstorm event that commenced, during the 8:00hr, the morning of October 19, 2011. The samples were collected from the identified outfalls between 10:00hrs and 11:10hrs, starting after it was judged, based on data transmitted from a local rainfall monitoring station, that sufficient flow would be discharging from the selected outfalls. The total rainfall produced by the storm was measured at 1.17 inches. The event was a qualifying event since the preceding rainfall event occurred on October 14, 2011.

The sample results were compared to the CTDEEP Water Quality Standards as well as the benchmarks identified in the CTDEEP Industrial Storm Water Permits.

The Town decided to focus a portion of its sampling efforts on determining the discharge of Town Storm Water from a large residential neighborhood upstream of the Farmington River. Sample locations R-25 and R-26 were created to sample these areas.

Outlets R-25 and R-26 collect runoff from a large development, consisting of lots sizes zoned R-40 (40,000sqft) with areas of Open Space. Both of these outlets collect road runoff as well as runoff through lawn areas and wooded areas. Samples R-25 and R-26 were chosen since these two outlets are the collection points for the development. The sample from R-25 was collected from a catch basin on Crosswood Road prior to discharging into a closed storm water system through a wooded area. The sample from R-26 was collected at an outlet that discharges upstream of a cross culvert under Route 4 (Farmington Avenue) approximately 200lf from the Farmington River. Other than a slightly elevated level of Escherichia Coliform count, the results from both sampling locations appeared to be within reason. This area is also serviced by public sewer and water.

The Town had decided to refocus on a previously sampled area. Sample locations C-5 and C-6 were resampled due to elevated levels of Escherichia Coliform. Sample location C-5 was sampled in 2009 & 2006 and Sample location C-6 was sampled in 2009 & 2008. Prior to sampling at these locations, the Town had flushed the storm pipes and vacuum cleaned the catch basins within the drainage area. The Town has also subcontracted with a video inspection company to video the sanitary sewer main in the area to examine the condition of the pipes. Based on the results of the video inspection, there was no evidence of any damaged pipes or illicit connections.

Based on the sampling results for C-5 and C-6, there was a large reduction in the findings for many of the categories, compared to the previous sampling periods. The largest reduction was in the levels of Escherichia Coliform. Based on the previous sampling periods, there was a 200 to 400 times reduction at sample location C-5 compared to the 2009 and 2006 results respectively. There was a 3 times to 27 times reduction at sample location C-6 compared to the 2006 and 2009 results respectively. Sample location C-5 is the most important location since it is the drainage outlet location for the area, and had seen the greatest decrease in Escherichia Coliform. Based on our findings, it appears the cleaning of the drainage system played a significant role in the reduction of the test results.

The Town had decided to also refocus on another previously sampled area. Sample locations I-3 and I-4 were resampled since these are the only Industrial sampling areas in Town. Sample location I-3 was sampled in 2005 and Sample location I-4 was sampled in 2005 & 2006.

Sample I-3 is located on the south side of Corporate Avenue, and accepts the overflow from a pond north of Corporate Avenue. The sampling results from 2005 and 2011 both appeared to be within reason, with no need for concern. This area is also serviced by public sewer and water.

Sample I-4 is located on the west side of Executive Drive. The drainage area is rather small is mainly roadway and some adjacent parking lot drainage. The only abnormality was the increased presence of Escherichia Coliform. This area is also serviced by public sewer and water.

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/Town Engineer
Department of Public Works

ATTACHMENT A

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. Jr. Arnold, P.E. Title: DPW Director Phone: 860-675-2305

Permit Registration # GSM000090

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): (2011) R25: Lat 41-45-17.34, Long 72-52-21.12

Taken from the CB on west side of Crosswood Road between #28 & #30

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

Receiving Water (name, basin): Farmington River 4300-00-4+R16

Time of Start of Discharge: 9:00hrs (10/19/11)

Date/Time Collected: October 19, 2011/11:01hrs Water Temperature: 47°F

Person Collecting Sample: Bruce Cyr & Stephen Doyon

Storm Magnitude (inches): 1.17 Storm Duration (hours): 9(approx)

Date of Previous Storm Event: October 14, 2011

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM19 4500H+B	7.3	Averill Environmental Lab #AEL11007773
Rain pH	SM19 4500H+B	4.8	Averill Environmental Lab #AEL11007773
Hardness	SM 2340 B	44.9 mg/L CaCO3	Averill Environmental Lab #AEL11007773
Conductivity	SM19 2510B	130 micromhos/cm	Averill Environmental Lab #AEL11007773
Oil & Grease	EPA 1664A	<1.8 mg/L	Averill Environmental Lab #AEL11007773
COD	EPA 410.4	41 mg/L	Averill Environmental Lab #AEL11007773
Turbidity	EPA 180.1	21 NTU	Averill Environmental Lab #AEL11007773
TSS	SM19 2540D	30 mg/L	Averill Environmental Lab #AEL11007773
TP	SM19 4500PE	0.338 mg/L as P	Averill Environmental Lab #AEL11007773
Ammonia	SM19 4500NHD	<0.50 mg/L	Averill Environmental Lab #AEL11007773
TKN	SM194500NH3F	1.9 mg/L	Averill Environmental Lab #AEL11007773
NO ₃ +NO ₂	EPA 300.0	0.46 mg/L	Averill Environmental Lab #AEL11007773
E. coli	SM 9222 B	3,400 per 100 mL	Averill Environmental Lab #AEL11007773

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: Date: January 6, 2012



**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 #GSM000090

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): (2011) R26: Lat 41-45-04.95, Long 72-52-17.73

Taken from the storm drainage outlet at the NE corner of Highwood and Farmington Avenue

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

Receiving Water (name, basin): Farmington River 4300-00-4+R16

Time of Start of Discharge: 9:00hrs (10/19/11)

Date/Time Collected: October 19, 2011/11:10hrs Water Temperature: 47°F

Person Collecting Sample: Bruce Cyr & Stephen Doyon

Storm Magnitude (inches): 1.17 Storm Duration (hours): 9(approx)

Date of Previous Storm Event: October 14, 2011

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM19 4500H+B	7.1	Averill Environmental Lab #AEL11007774
Rain pH	SM19 4500H+B	4.8	Averill Environmental Lab #AEL11007774
Hardness	SM 2340 B	26.1 mg/L CaCO3	Averill Environmental Lab #AEL11007774
Conductivity	SM19 2510B	90 micromhos/cm	Averill Environmental Lab #AEL11007774
Oil & Grease	EPA 1664A	<1.9 mg/L	Averill Environmental Lab #AEL11007774
COD	EPA 410.4	55 mg/L	Averill Environmental Lab #AEL11007774
Turbidity	EPA 180.1	14 NTU	Averill Environmental Lab #AEL11007774
TSS	SM19 2540D	28.5 mg/L	Averill Environmental Lab #AEL11007774
TP	SM19 4500PE	0.367 mg/L as P	Averill Environmental Lab #AEL11007774
Ammonia	SM19 4500NHD	<0.50 mg/L	Averill Environmental Lab #AEL11007774
TKN	SM194500NH3F	2.3 mg/L	Averill Environmental Lab #AEL11007774
NO ₃ +NO ₂	EPA 300.0	0.58 mg/L	Averill Environmental Lab #AEL11007774
E. coli	SM 9222 B	3,200 per 100 mL	Averill Environmental Lab #AEL11007774

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 6, 2012



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

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: <u>Town of Farmington</u>
Mailing Address: <u>1 Monteith Drive, Farmington CT 06032</u>
Contact Person: <u>Russell M. Jr. Arnold, P.E.</u> Title: <u>DPW Director</u> Phone: <u>860-675-2305</u>
Permit Registration # <u>GSM000090</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>(2011) C5: Lat 41-44-42.574, Long 72-51-15.901</u> <u>Located on the west side of Brickyard Road 1800ft north of Rte 4, south of driveway into Lakeshore Dr.</u>
Please circle the appropriate area description: Industrial, <u>Commercial</u> or Residential
Receiving Water (name, basin): <u>Farmington River 4300-28-1-L2</u>
Time of Start of Discharge: <u>9:00hrs (10/19/11)</u>
Date/Time Collected: <u>October 19, 2011/10:30hrs</u> Water Temperature: <u>46°F</u>
Person Collecting Sample: <u>Bruce Cyr & Stephen Doyon</u>
Storm Magnitude (inches): <u>1.17</u> Storm Duration (hours): <u>9(approx)</u>
Date of Previous Storm Event: <u>October 14, 2011</u>

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM19 4500H+B	7.1	Averill Environmental Lab #AEL11007775
Rain pH	SM19 4500H+B	4.8	Averill Environmental Lab #AEL11007775
Hardness	SM 2340 B	12.0 mg/L CaCO3	Averill Environmental Lab #AEL11007775
Conductivity	SM19 2510B	30 micromhos/cm	Averill Environmental Lab #AEL11007775
Oil & Grease	EPA 1664A	<1.9 mg/L	Averill Environmental Lab #AEL11007775
COD	EPA 410.4	53 mg/L	Averill Environmental Lab #AEL11007775
Turbidity	EPA 180.1	69 NTU	Averill Environmental Lab #AEL11007775
TSS	SM19 2540D	62 mg/L	Averill Environmental Lab #AEL11007775
TP	SM19 4500PE	0.276 mg/L as P	Averill Environmental Lab #AEL11007775
Ammonia	SM19 4500NHD	<0.50 mg/L	Averill Environmental Lab #AEL11007775
TKN	SM194500NH3F	1.1 mg/L	Averill Environmental Lab #AEL11007775
NO ₃ +NO ₂	EPA 300.0	<0.46 mg/L	Averill Environmental Lab #AEL11007775
E. coli	SM 9222 B	150 per 100 mL	Averill Environmental Lab #AEL11007775

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: Date: January 6, 2012



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 #	GSM000090

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description):	(2011) C6: Lat 41-44-52.64, Long 72-51-18.62		
Sample taken from	CB on west side of Brickyard Road 170lf +/- south of Eastview Drive		
Please circle the appropriate area description:	Industrial	Commercial	Residential
Receiving Water (name, basin):	Farmington River, 4300-28-1-L2		
Time of Start of Discharge:	9:00hrs (10/19/11)		
Date/Time Collected:	October 19, 2011/10:45hrs	Water Temperature:	46°F
Person Collecting Sample:	Bruce Cyr & Stephen Doyon		
Storm Magnitude (inches):	1.17	Storm Duration (hours):	9(approx)
Date of Previous Storm Event:	October 14, 2011		

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM19 4500H+B	6.9	Averill Environmental Lab #AEL11007776
Rain pH	SM19 4500H+B	4.8	Averill Environmental Lab #AEL11007776
Hardness	SM 2340 B	12.0 mg/L CaCO ₃	Averill Environmental Lab #AEL11007776
Conductivity	SM19 2510B	25 micromhos/cm	Averill Environmental Lab #AEL11007776
Oil & Grease	EPA 1664A	<1.9 mg/L	Averill Environmental Lab #AEL11007776
COD	EPA 410.4	41 mg/L	Averill Environmental Lab #AEL11007776
Turbidity	EPA 180.1	34 NTU	Averill Environmental Lab #AEL11007776
TSS	SM19 2540D	33 mg/L	Averill Environmental Lab #AEL11007776
TP	SM19 4500PE	0.221 mg/L as P	Averill Environmental Lab #AEL11007776
Ammonia	SM19 4500NHD	<0.50 mg/L	Averill Environmental Lab #AEL11007776
TKN	SM194500NH3F	<1.0 mg/L	Averill Environmental Lab #AEL11007776
NO ₃ +NO ₂	EPA 300.0	<0.46 mg/L	Averill Environmental Lab #AEL11007776
E. coli	SM 9222 B	1,500 per 100 mL	Averill Environmental Lab #AEL11007776

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:	Date: January 6, 2012



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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 #	GSM000090

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description):	(2011) I3: Lat 41-41-47.35, Long 72-51-34.19
Sample taken from stormwater outlet along the south side of Corporate Ave	
Please circle the appropriate area description	<u>Industrial</u> , Commercial, or Residential
Receiving Water (name, basin):	Unnamed Pond on Scott Swamp Brook, 4315-13-2-L2
Time of Start of Discharge:	9:00hrs (10/19/11)
Date/Time Collected:	October 19, 2011/10:00hrs
Water Temperature:	48°F
Person Collecting Sample:	Bruce Cyr & Stephen Doyon
Storm Magnitude (inches):	1.17
Storm Duration (hours):	9(approx)
Date of Previous Storm Event:	October 14, 2011

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM19 4500H+B	7.0	Averill Environmental Lab #AEL11007777
Rain pH	SM19 4500H+B	4.8	Averill Environmental Lab #AEL11007777
Hardness	SM 2340 B	39.1 mg/L CaCO3	Averill Environmental Lab #AEL11007777
Conductivity	SM19 2510B	190 micromhos/cm	Averill Environmental Lab #AEL11007777
Oil & Grease	EPA 1664A	<2.0 mg/L	Averill Environmental Lab #AEL11007777
COD	EPA 410.4	<20 mg/L	Averill Environmental Lab #AEL11007777
Turbidity	EPA 180.1	7.2 NTU	Averill Environmental Lab #AEL11007777
TSS	SM19 2540D	8.5 mg/L	Averill Environmental Lab #AEL11007777
TP	SM19 4500PE	0.046 mg/L as P	Averill Environmental Lab #AEL11007777
Ammonia	SM19 4500NHD	<0.50 mg/L	Averill Environmental Lab #AEL11007777
TKN	SM194500NH3F	<1.0 mg/L	Averill Environmental Lab #AEL11007777
NO ₃ +NO ₂	EPA 300.0	0.48 mg/L	Averill Environmental Lab #AEL11007777
E. coli	SM 9222 B	<50 per 100 mL	Averill Environmental Lab #AEL11007777

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:	Date: January 6, 2012



**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 #GSM000090

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): (2011) I4: Lat 41-41-46.490, Long 72-51-25.068
Located on the west side of Executive Drive behind #20

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: 9:00hrs (10/19/11)

Date/Time Collected: October 19, 2011/10:10hrs Water Temperature: 48°F

Person Collecting Sample: Bruce Cyr & Stephen Doyon

Storm Magnitude (inches): 1.17 Storm Duration (hours): 9(approx)

Date of Previous Storm Event: October 14, 2011

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM19 4500H+B	7.0	Averill Environmental Lab #AEL11007778
Rain pH	SM19 4500H+B	4.8	Averill Environmental Lab #AEL11007778
Hardness	SM 2340 B	7.2 mg/L CaCO3	Averill Environmental Lab #AEL11007778
Conductivity	SM19 2510B	40 micromhos/cm	Averill Environmental Lab #AEL11007778
Oil & Grease	EPA 1664A	<1.9 mg/L	Averill Environmental Lab #AEL11007778
COD	EPA 410.4	23 mg/L	Averill Environmental Lab #AEL11007778
Turbidity	EPA 180.1	11 NTU	Averill Environmental Lab #AEL11007778
TSS	SM19 2540D	24.0 mg/L	Averill Environmental Lab #AEL11007778
TP	SM19 4500PE	0.106 mg/L as P	Averill Environmental Lab #AEL11007778
Ammonia	SM19 4500NHD	<0.50 mg/L	Averill Environmental Lab #AEL11007778
TKN	SM194500NH3F	<1.0 mg/L	Averill Environmental Lab #AEL11007778
NO ₃ +NO ₂	EPA 300.0	<0.46 mg/L	Averill Environmental Lab #AEL11007778
E. coli	SM 9222 B	4,000 per 100 mL	Averill Environmental Lab #AEL11007778

STATEMENT OF ACKNOWLEDGMENT

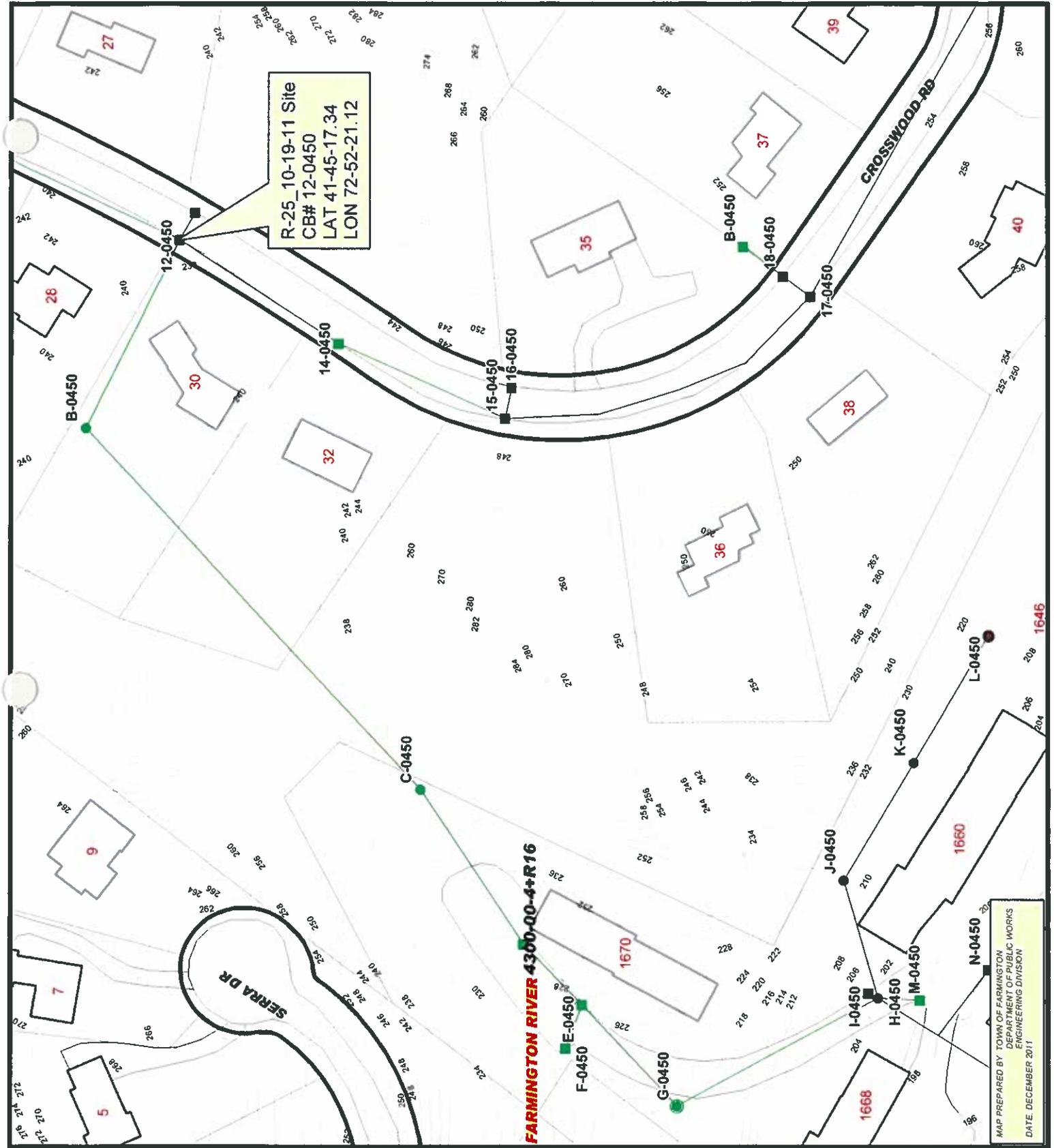
I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

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

Signature: *Russell M. Arnold* Date: January 6, 2012

ATTACHMENT B

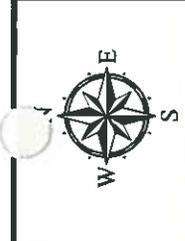
Monitoring Site Location Mapping



R-25_10-19-11 Site
 CB# 12-0450
 LAT 41-45-17.34
 LON 72-52-21.12

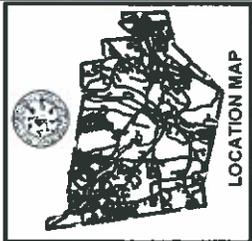
FARMINGTON RIVER 4300-00-4+R16

MAP PREPARED BY TOWN OF FARMINGTON
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 DATE: DECEMBER 2011



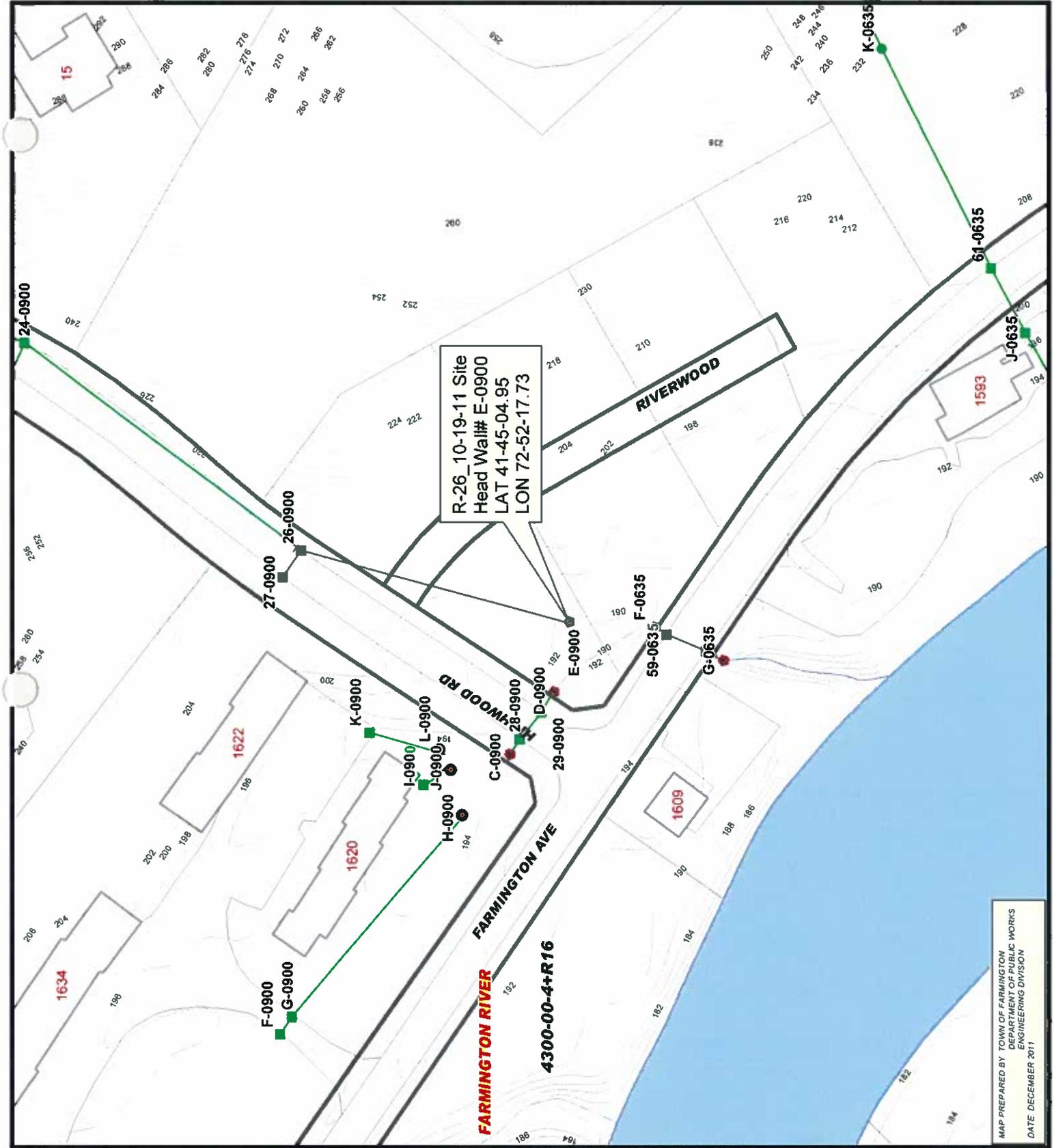
**TOWN OF FARMINGTON
 DRAINAGE
 OUT FALL
 SAMPLING AREA
 SITE R-25_10-19-11**

Sampling Site
 R-25_10-19-11
 Was Taken From
 CB# 12-0450
 West Side Of
 Crosswood Rd.
 Between #28&30
 DATUM REFERENCE: NAD 1927



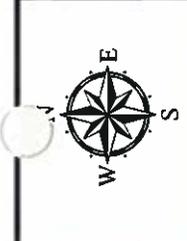
LEGEND

STRUCTURES	DRAINAGE BASIN CLASSIFICATION
FLARED END	1 MAJOR
PIPE END	2 REGIONAL
END WALL	3 SUBREGIONAL
CATCH BASIN	4 LOCAL
MANHOLE	5 STREAM REACH
ROAD	6 LAKE IMPOUNDMENT
STORM LINE	7 STREAM DIVERSION



R-26_10-19-11 Site
 Head Wall# E-0900
 LAT 41-45-04.95
 LON 72-52-17.73

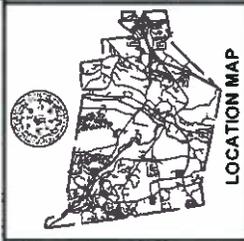
MAP PREPARED BY TOWN OF FARMINGTON
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 DATE: DECEMBER 2011



**TOWN OF FARMINGTON
 DRAINAGE
 OUT FALL
 SAMPLING AREA
 SITE R-26_10-19-11**

Sampling Site
 R-26_10-19-11
 Was Taken From
 Head Wall# E-0900
 South East Corner
 Farmington Ave. &
 Highwood Rd

DATUM REFERENCE: NAD 1927



LEGEND

STRUCTURES	STRUCTURE TYPE
▲	FLARED END
●	PIPE END
○	END WALL
■	CATCH BASIN
□	MANHOLE
—	ROAD
—	STORM LINE
DRAINAGE BASINS (DEP Line)	DRAINAGE BASIN CLASSIFICATION
1	1 MAJOR
2	2 REGIONAL
3	3 SUBREGIONAL
4	4 LOCAL
---	5 STREAM REACH
----	6 LAKE IMPOUNDMENT
.....	7 STREAM DIVERSION



**TOWN OF FARMINGTON
DRAINAGE
OUT FALL
SAMPLING AREA
SITE C-5_10-19-11**

SAMPLE No.
C5_10-19-11
Flared End#DD-0190
Sampling site C-5 is located on the west side of Brickyard Rd. 1800 feet north of the intersection with Farmington Ave.

DATUM REFERENCE: NAD 1927

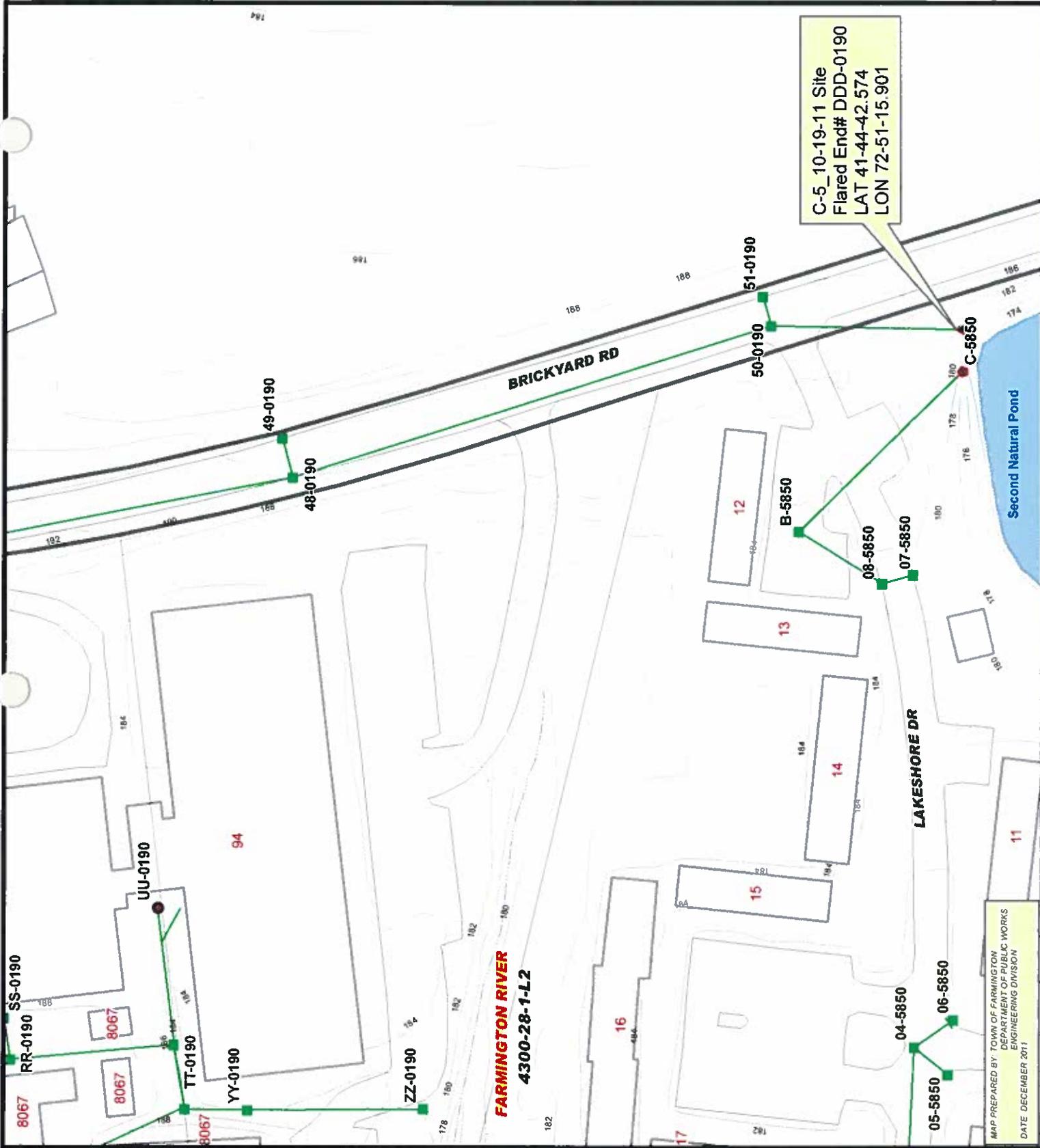


LOCATION MAP

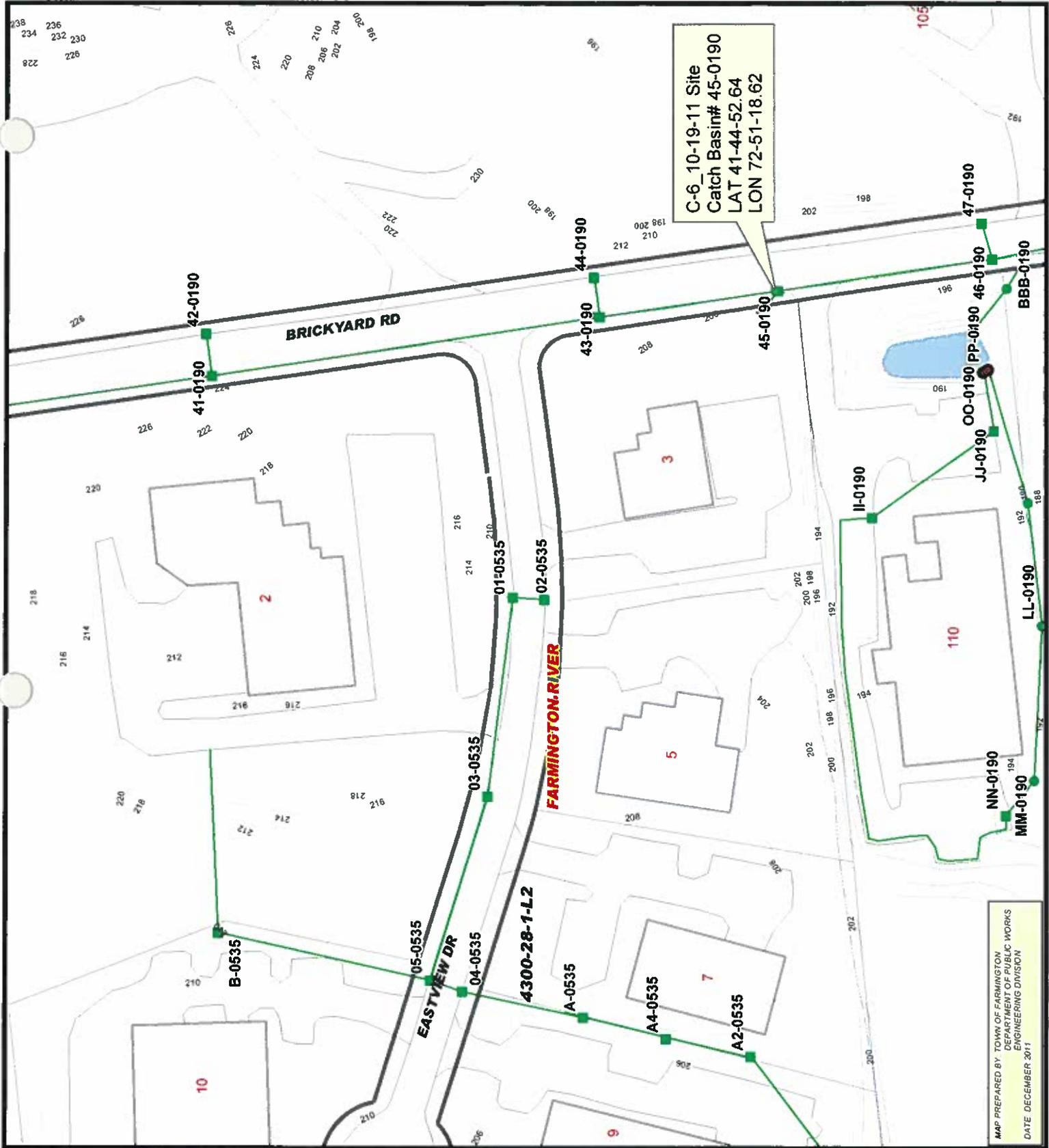


LEGEND

- STRUCTURES**
- FLARED END
 - PIPE END
 - END WALL
 - CATCH BASIN
 - MANHOLE
 - ROAD
 - STORM LINE
- DRAINAGE BASINS (DEP Line)**
- 1 MAJOR
 - 2 REGIONAL
 - 3 SUBREGIONAL
 - 4 LOCAL
 - 5 STREAM REACH
 - 6 LAKE IMPOUNDMENT
 - 7 STREAM DIVERSION



MAP PREPARED BY TOWN OF FARMINGTON
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
DATE DECEMBER 2011



MAP PREPARED BY TOWN OF FARMINGTON
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 DATE: DECEMBER 2011



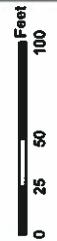
TOWN OF FARMINGTON
DRAINAGE
OUT FALL
SAMPLING AREA
SITE C-6_10-19-11

SAMPLE No.
 C6_10-19-11
 CB# 45-0190
 Sample Was Taken
 From The 2nd CB
 South Of Eastview
 Dr. On West Side
 Of Brickyard Road

DATUM REFERENCE: NAD 1927



LOCATION MAP



LEGEND

STRUCTURES	DRAINAGE BASINS (DEP Line)
FLARED END	1 MAJOR
PIPE END	2 REGIONAL
END WALL	3 SUBREGIONAL
CATCH BASIN	4 LOCAL
MANHOLE	5 STREAM REACH
ROAD	6 LAKE IMPOUNDMENT
STORM LINE	7 STREAM DIVERSION



TOWN OF FARMINGTON DRAINAGE OUT FALL SAMPLING AREA SITE I-3 10-19-11

SAMPLE No. I-3_10-19-11
 Flared End# D-0415
 Sample Was Taken From The 3rd Structure 300' Off The South Side Of Corporate Ave., 900' West Of The Intersection Of Executive Drive

DATUM REFERENCE: NAD 1927



0 37.5 75 150 Feet

LEGEND

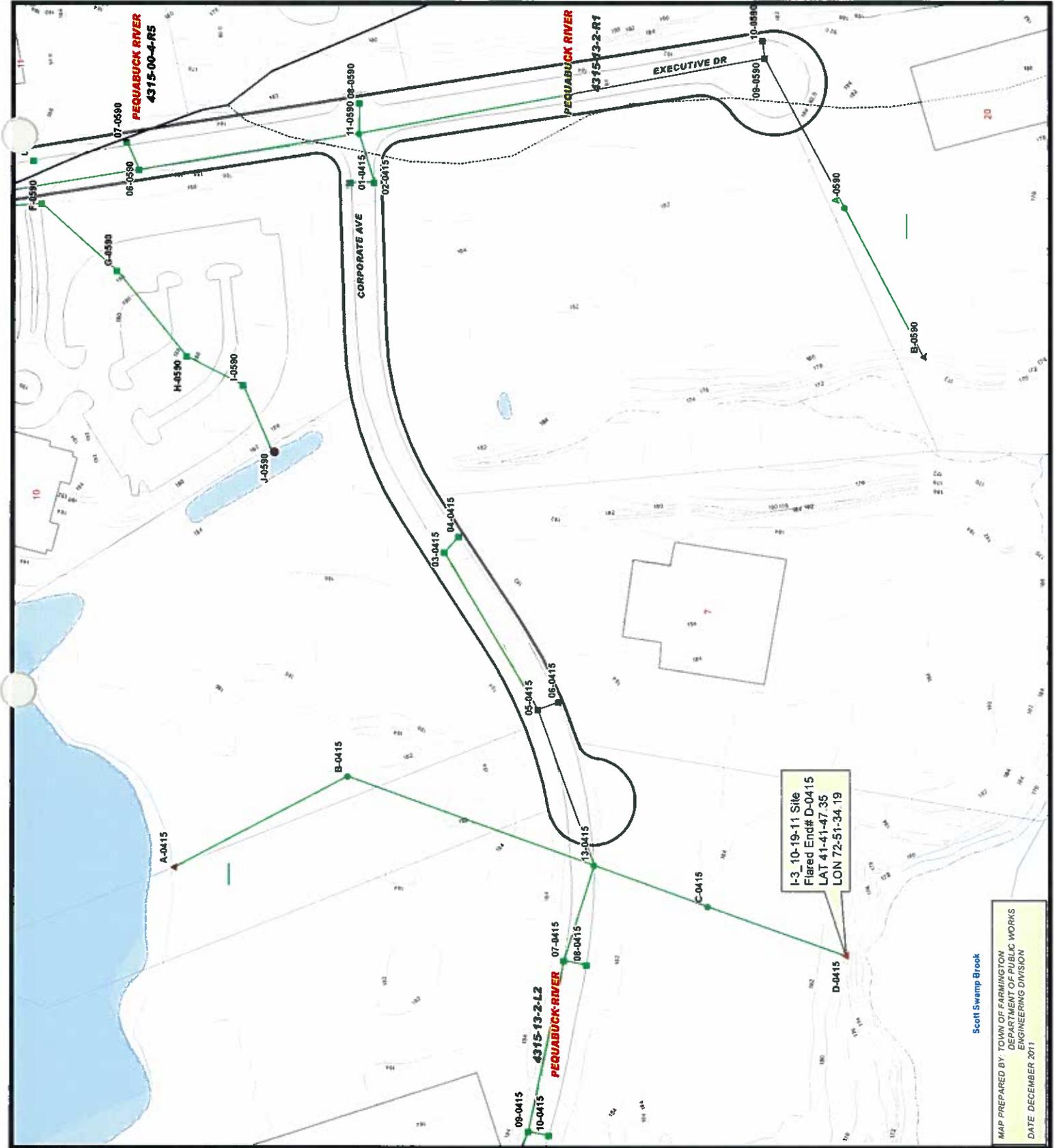
STRUCTURES

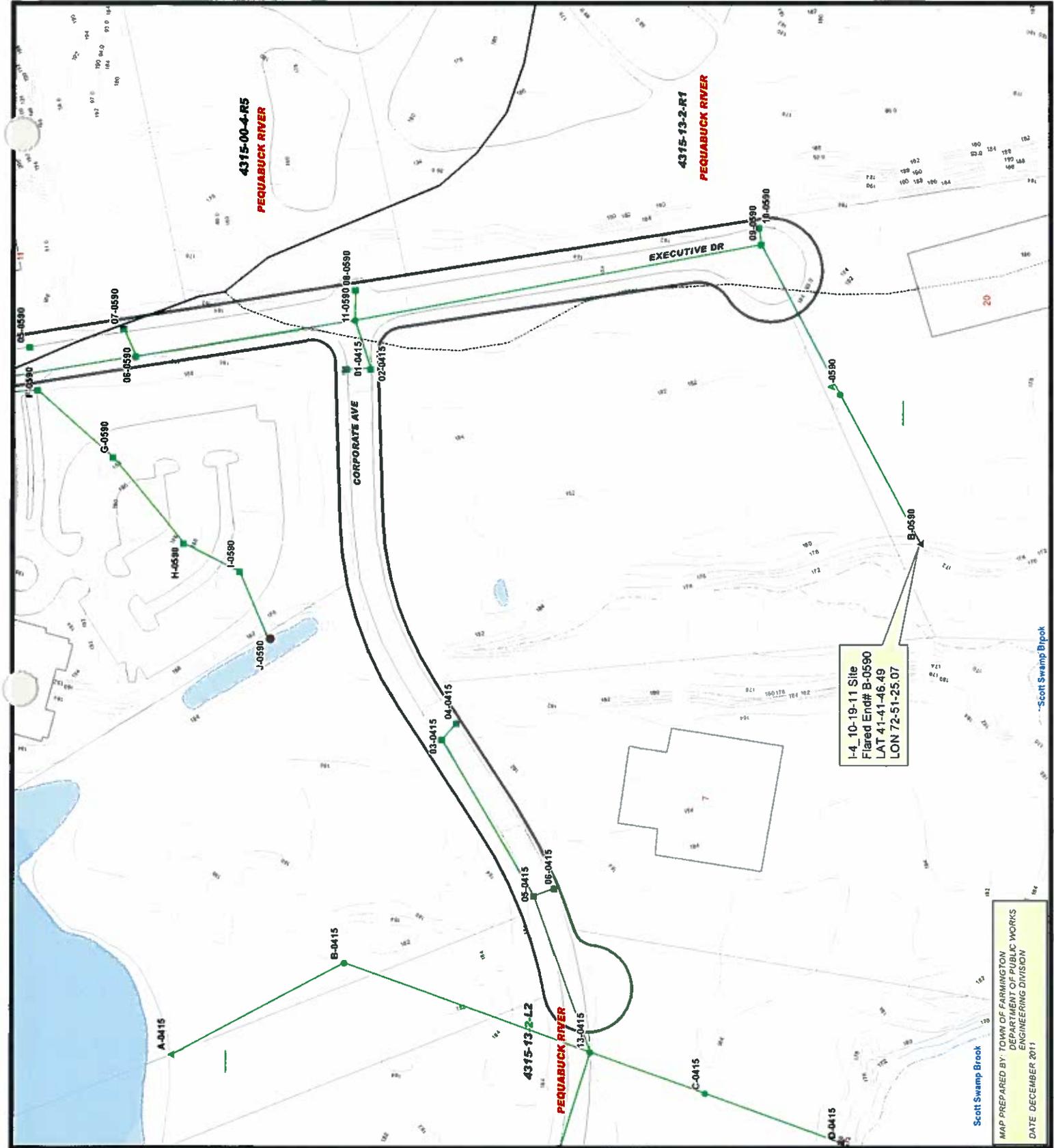
- ▲ FLARED END
- PIPE END
- END WALL
- CATCH BASIN
- MANHOLE
- ROAD
- STORM LINE

DRAINAGE BASINS (DEP Line)

DRAINAGE BASIN CLASSIFICATION

- 1 MAJOR
- 2 REGIONAL
- 3 SUBREGIONAL
- 4 LOCAL
- 5 STREAM REACH
- 6 LAKE IMPOUNDMENT
- 7 STREAM DIVERSION





I-4_10-19-11 Site
 Flared End# B-0590
 LAT 41-41-46.49
 LON 72-51-25.07

Scott Swamp Brook

Scott Swamp Brook

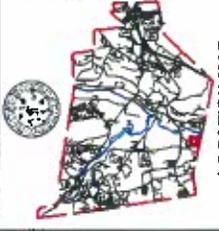
MAP PREPARED BY: TOWN OF FARMINGTON
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 DATE: DECEMBER 2011



**TOWN OF FARMINGTON
 DRAINAGE
 OUT FALL
 SAMPLING AREA
 SITE I-4_10-19-11**

SAMPLE No.
 I-4_10-19-11
 Flared End# B-0590
 Sample Was Taken
 From The 3rd
 Structure 400' South-
 west Of Executive
 Drive Cul-de-sac

DATUM REFERENCE: NAD 1927



LOCATION MAP



LEGEND

STRUCTURES

- FLARED END (triangle symbol)
- PIPE END (circle symbol)
- END WALL (square symbol)
- CATCH BASIN (circle with cross symbol)
- MANHOLE (square with cross symbol)
- ROAD (thick line symbol)
- STORM LINE (dashed line symbol)

DRAINAGE BASINS (DEP Line)

DRAINAGE BASIN CLASSIFICATION

- 1 MAJOR (thick solid line)
- 2 REGIONAL (medium solid line)
- 3 SUBREGIONAL (thin solid line)
- 4 LOCAL (dotted line)
- 5 STREAM REACH (dashed line)
- 6 LAKE IMPOUNDMENT (dotted line)
- 7 STREAM DIVERSION (dashed line)

ATTACHMENT C

Illicit Discharge and Connections Ordinance

Illicit Discharges and Connections

Sec 1. – Intent and Purpose

The purpose of this ordinance is to provide for the health, safety, and general welfare of the citizens of Farmington through the regulation of non-stormwater discharges to the storm drainage system. This ordinance establishes methods for controlling the introduction of pollutants into the municipal separate storm sewer system (MS4) in order to comply with requirements of the National Pollutant Discharge Elimination System (NPDES) permit process. The objectives of this ordinance are:

1. To regulate the contribution of pollutants to the municipal separate storm sewer system (MS4) by stormwater discharges by any user.
2. To prohibit Illicit Discharges and Connections to the municipal separate storm sewer system.
3. To establish legal authority to carry out all inspection, surveillance, monitoring and enforcement procedures necessary to ensure compliance with this ordinance.

Sec. 2 – Applicability

This ordinance shall apply to all water entering the storm drainage system generated on any developed or undeveloped lands unless explicitly exempted by the Town Engineer.

Sec. 3 – Designation of Ordinance Administrator

The Town Engineer is hereby appointed to administer, implement, and enforce the provisions of this ordinance.

Sec. 4 – Definitions

Best Management Practices (BMPs)

Schedules of activities, prohibitions of practices, general good housekeeping practices, pollution prevention and educational practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants directly or indirectly to stormwater, receiving waters, or stormwater conveyance systems. BMPs also include treatment practices, operating procedures, and practice to control site runoff, spillage or leaks, sludge or water disposal, or drainage from raw materials storage.

Construction Activity Activities subject to NPDES Construction Permits, CT DEP Construction Permits or Town of Farmington Erosion & Sediment Control Permits. These include construction projects resulting in land disturbance of 0.5-acre or more. Such activities include but are not limited to clearing and grubbing, grading, excavating, and demolition.

CT DEP Connecticut Department of Environmental Protection.

Hazardous Materials Any material, including any substance, waste, or combination thereof, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause, or significantly contribute to, a substantial present or potential hazard to human health, safety, property, or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.

Illegal Discharge Any direct or indirect non-stormwater discharge to the storm drainage system, except as exempted in Section 5 of this ordinance.

Illicit Connections An illicit connection is defined as either of the following:

- (a) Any drain or conveyance, whether on the surface or subsurface, which allows an illegal discharge to enter the storm drainage system including but not limited to any conveyances that allow any non-stormwater discharge including sewage, process wastewater, and wash water to enter the storm drainage system and any connections to the storm drainage system from indoor drains and sinks, regardless of whether said drain or connection has been previously allowed, permitted, or approved by the Town; or
- (b) Any drain or conveyance connected from a commercial or industrial land use to the storm drainage system which has not been documented in plans, maps, or equivalent records and approved by the Town.

Industrial Activity Activities subject to NPDES Industrial Permits as defined in 40 CFR, Section 122.26(b)(14).

MS4 Municipal separate storm sewer system.

National Pollutant Discharge Elimination System (NPDES) Storm Water Discharge Permit

A permit issued by EPA (or by a State under authority delegated pursuant to 33 U.S.C. §1342(b)) that authorizes the discharge of pollutants to waters of the United States, whether the permit is applicable on an individual, group, or general area-wide basis.

Non-Stormwater Discharge

Any discharge to the storm drainage system that is not composed entirely of stormwater.

Person

“Person” means, except to the extent exempted from this ordinance, any individual, partnership, firm, association, joint venture, public or private corporation, trust, estate, commission, board, public or private institution, utility, cooperative, city, county or other political subdivision of the State, any interstate body or any other legal entity.

Pollutant

Anything which causes or contributes to pollution of air, water or soil. Pollutants may include, but are not limited to: paints, varnishes, and solvents; oil and other automotive fluids; non-hazardous liquid and solid wastes and yard waste; refuse, rubbish, garbage, litter, or other discarded or abandoned objects and accumulations, so that same may cause or contribute to pollution; floatables; pesticides, herbicides, and fertilizers; hazardous substances and wastes; sewage, fecal coliform and pathogens; dissolved and particulate metals; animal wastes; wastes and residues that result from constructing a building or structure; and noxious or offensive matter of any kind.

Premises

Any building, lot, parcel of land, or portion of land whether improved or unimproved including adjacent sidewalks and parking strips.

Professional Engineer

A professional engineer licensed in the State of Connecticut.

Storm Drainage System

Publicly-owned facilities by which storm water is collected and/or conveyed, including but not limited to any roads with drainage systems, municipal streets, gutters, curbs, inlets, piped storm drains, pumping facilities, retention and detention basins, natural and man-made or altered drainage channels, reservoirs, and other drainage structures.

Stormwater

Any surface flow, runoff, and drainage consisting entirely of water from any form of natural precipitation and resulting from such precipitation.

Stormwater Runoff That portion of the precipitation (excess rainfall, snow melt or irrigation) on a drainage area that is discharged from the area in the form of flow across the surface of the ground.

Stormwater Pollution Prevention Plan A document which describes Best Management Practices and activities to be implemented by a person or business to identify sources of pollution or contamination at a site and the actions to eliminate or reduce pollutant discharges to stormwater, stormwater conveyance systems, and/or receiving waters to the maximum extent practicable.

Town Engineer The Town of Farmington Town Engineer or his/her designee.

Town Manager The Town of Farmington Town Manager or his/her designee.

Wastewater Any water or other liquid, other than uncontaminated stormwater, discharged from a facility.

Watercourse A permanent or intermittent stream or other body of water, either natural or man-made, which gathers or carries surface water. This includes, but is not limited to lakes, ponds, rivers, and streams.

Sec. 5 – Discharges Prohibitions

(a) Prohibition of Illegal Discharges

No person shall discharge or cause to be discharged into the municipal storm drainage system or watercourses any materials, including but not limited to pollutants or waters containing any pollutants that cause or contribute to a violation of applicable water quality standards, other than stormwater. The commencement, conduct or continuance of any illegal discharge to the storm drainage system is prohibited except as described below:

1. The following discharges are exempt from discharge prohibitions established by this ordinance:
 - a. Naturally occurring discharges such as rising groundwaters, uncontaminated groundwater infiltration [as defined at 40 CFR 35.2005(20)], springs, diverted stream flows, and natural riparian habitat or wetland flows;
 - b. Uncontaminated pumped ground water, foundation or footing drains (not including active groundwater dewatering systems), crawl space pumps;
 - c. Water line flushing;
 - d. Landscape irrigation; and

- e. Fire fighting activities.
 - 2. Discharges specified in writing by the Town Engineer as being necessary to protect health and safety.
 - 3. Dye testing is an allowable discharge, but requires a verbal notification to the Town Engineer prior to the time of the test.
 - 4. The prohibition shall not apply to any non-stormwater discharge permitted under an NPDES permit, waiver, or waste discharge order issued to the discharger and administered under the authority of the Federal Environmental Protection Agency or CT DEP, provided that the discharge is in full compliance with all requirements of the permit, waiver, or order and other applicable laws and regulations, and provided that written approval has been granted for any discharge to the storm drainage system.
- (b) Prohibition of Illegal Connections
- 1. The construction, use, maintenance or continued existence of Illicit Connections to the storm drainage system is prohibited.
 - 2. This prohibition expressly includes, without limitation, Illicit Connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.
 - 3. A person is considered to be in violation of this ordinance if the person connects a line conveying sewage to the MS4, or allows such a connection to continue.

Sec. 6 – Suspension of MS4 Access

(a) Suspension due to Illicit Discharges in Emergency Situations

The Town Engineer may, without prior notice, suspend MS4 discharge access to a person when such suspension is necessary to stop an actual or threatened discharge which presents or may present imminent and substantial danger to the environment, or to the health or welfare of persons, or to the MS4 or Waters of the United States. If the violator fails to comply with a suspension order issued in an emergency, the Town Engineer may take such steps as deemed necessary to prevent or minimize damage to the MS4 or Water of the United States, or to minimize danger to persons.

(b) Suspension due to the Detection of Illicit Discharge

Any person discharging to the MS4 in violation of this ordinance may have their MS4 access terminated if such termination would abate or reduce an illicit discharge. The Town Engineer will notify a violator of the proposed termination of its MS4 access. The violator may petition the Town Engineer for a reconsideration and hearing.

A person commits an offense if the person reinstates MS4 access to premises terminated pursuant to this Section, without the prior written approval of the Town Engineer.

Sec. 7 – Industrial or Construction Activity Discharges

Any person subject to an industrial or construction activity NPDES stormwater discharge permit shall comply with all provisions of such permit. Proof of compliance with said permit may be required in a form acceptable to the Town Engineer prior to the allowing of discharges to the MS4.

Sec. 8 – Monitoring of Damages

(a) Applicability

This section applies to all premises that have stormwater discharges associated with industrial and/or construction activities.

(b) Access to Premises

1. The Town Engineer shall be permitted to enter and inspect premises subject to regulation under this ordinance as often as may be necessary to determine compliance with this ordinance. If a discharge has security measures in force which require proper identification and clearance before entry into its premises, the discharger shall make the necessary arrangements to allow access to representatives of the Town Engineer.
2. Persons shall allow the Town Engineer ready access to all parts of the premises for the purposes of inspection, sampling, examination and copying of records that must be kept under the conditions of an NPDES permit to discharge stormwater, and the performance of any additional duties as defined by state and federal law.
3. The Town Engineer shall have the right to set up on any premise such devices as are necessary in the opinion of the Town Engineer to conduct monitoring and/or sampling of the premise's stormwater discharge.
4. The Town Engineer has the right to require the discharger to install monitoring equipment as necessary. The premise's sampling and monitoring equipment shall be maintained at all times in a safe and proper operating condition by the discharger at its own expense. All devices used to measure stormwater flow and quality shall be calibrated to ensure their accuracy.
5. Any temporary or permanent obstruction to safe and easy access to the premise to be inspected and/or sampled shall be promptly removed by the person responsible for maintaining the premise at the written or oral request of the Town Engineer and shall not be replaced. The costs of clearing such access shall be borne by the person responsible for maintaining the premise.

6. Unreasonable delays in allowing the Town Engineer access to a premise is a violation of a stormwater discharge permit and of this ordinance. A person who is the operator of a premise with a NPDES permit to discharge stormwater associated with industrial activity commits an offense if the person denies the Town Engineer reasonable access to the premise for the purpose of conducting any activity authorized or required by this ordinance.
7. If the Town Engineer has been refused access to any part of the premise from which stormwater is discharged, and he is able to demonstrate probable cause to believe that there may be a violation of this ordinance; or that there is a need to inspect and/or sample as part of a routine inspection and sampling program designed to verify compliance with this ordinance or any order issued hereunder; or to protect the overall public health, safety, and welfare of the community, then the Town Engineer may seek issuance of a search warrant from any court of competent jurisdiction.

Sec. 9 – Requirement to Prevent, Control, and Reduce Stormwater Pollutants by the Use of Best Management Practices

The Town Engineer will implement requirements identifying Best Management Practices for any activity, operation, or facility which may cause or contribute to pollution or contamination of stormwater, the storm drainage system, or waters of the United States. The owner or operator of a commercial or industrial establishment shall provide, at their own expense, reasonable protection from accidental discharge of prohibited materials or other wastes into the municipal storm drainage system or watercourses through the use of these structural and non-structural BMPs. Further, any person responsible for a property or premise which is or may be, the source of an illicit discharge, may be required to implement, at said person's expense, additional structural and non-structural BMPs to prevent the further discharge of pollutants to the municipal separate storm sewer system. Compliance with all terms and conditions of a valid NPDES permit authorizing the discharge of stormwater associated with industrial activity, to the extent practicable, shall be deemed in compliance with the provisions of this section. These BMPs shall be part of a stormwater pollution prevention plan (SWPPP) as necessary for compliance with the requirements of the NPDES permit.

Sec. 10 – Watercourse Protection

Every person owning property through which a watercourse passes, or such person's lessee, shall keep and maintain that part of the watercourse within the property free of trash, debris, excessive vegetation, and other obstacles that would pollute, contaminate, or significantly retard the flow of water through the watercourse. In addition, the owner or lessee shall maintain existing privately owned structures within or adjacent to a watercourse, so that such structures will not become a hazard to the use, function, or physical integrity of the watercourse.

Sec. 11 – Notification of Spills

Notwithstanding other requirements of law, as soon as any person responsible for a facility or operation has information of any known or suspected release of materials which are resulting or may result in illegal discharges or pollutants discharging into stormwater, the storm drainage system, or water of the United States; said person shall take all necessary steps to ensure the discovery, containment, and cleanup of such release. In the event of such release of hazardous materials said person shall immediately notify emergency response agencies of the occurrence. Additionally, in the event of a release of hazardous and/or non-hazardous materials, said person shall notify the Town Engineer in person or by phone no later than the next business day. Notifications in person or by phone shall be confirmed by written notice addressed and mailed to the Town Engineer within three business days of the phone notice. If the discharge of prohibited materials emanates from commercial or industrial activities, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three years.

Sec. 12 - Enforcement

(a) Notice of Violation

Whenever the Town Engineer finds that a person has violated a prohibition or failed to meet a requirement of this ordinance he shall order compliance by written notice of violation to the responsible person. Such notice may require without limitation:

1. The performance of monitoring, analyses, and reporting;
2. The elimination of Illicit Discharges or Connections;
3. That violating discharges, practices, or operations shall cease and desist;
4. The abatement or remediation of stormwater pollution or contamination hazards and the restoration of any affected property; and
5. The implementation of source control or treatment BMPs.

If abatement of a violation and/or restoration of affected property are required, the notice shall set forth a deadline within which such remediation or restoration must be completed. Said notice shall further advise that, should the violator fail to remediate or restore within the established deadline, the work will be done by a designated governmental agency or a contractor and the expense thereof shall be charged to the violator.

(b) Procedure for Issuance of Citations

1. The Town Manager shall issue a written notice to any person who violates any provision of this ordinance. No written notice may be issued against the State or

any State official or employee acting within the scope of his/her employment.

Such written notice shall explain the nature of the violation and the steps required for compliance, and shall allow a seventy-two (72) hour period within which to correct the violation or within which a written plan for correction shall be submitted to the Town Manager, setting forth a reasonable time period for correction of the violation as agreed upon by the Town Manager. A written notice issued pursuant to this subsection shall be served: 1) by hand delivery, at which time the seventy-two (72) hour period shall begin; or 2) by certified mail return receipt requested and by regular first class mail. Three (3) business days shall be allowed for mail delivery of the notice prior to the commencement of the seventy-two (72) hour period.

2. Within two (2) business days after the period for correction established in subsection (a) expires, the Town Engineer shall re-inspect the subject property to determine compliance.
3. If the violations set forth in the written notice have not been corrected at the time of re-inspection, the Town Manager, in his/her capacity as chief executive officer, shall issue a citation and fine in the amount of \$250.00 for each violation by hand, by certified mail return receipt requested, by leaving a true and attested copy of the citation at the usual place of abode or residence of the person in violation, or in the case of a corporate or business entity, delivery to the business address or the address of the statutory agent of said entity. No such fine shall be levied against the State or any State Official or State employee acting within the scope of his/her employment. All citations issued pursuant to this Section shall state the violation for which the citation is being issued, the fine imposed for the violation, the time period within which the fine must be paid, and an address for remittance of the fine.

(c) Compliance Periods After Citation

1. Any violation for which a citation is issued and which is not corrected within the time period specified in Section 12(b) shall be a new violation of this ordinance, and every twenty-four (24) hour period thereafter in which the violation is not corrected shall constitute a new violation. The citation shall include a notice to the alleged violator that each 24 hour period of noncompliance after the time period specified in Section 12(b) shall constitute a new violation and a new fine of \$250.00.
2. The Town Manager shall not be responsible for a daily re-inspection. Rather the person to whom the citation has been issued shall be responsible for reporting subsequent compliance by way of written report to the Town Manager. The Town Manager shall re-inspect to confirm compliance within one (1) business day of receipt of such report.

(d) Payment of Fines

1. All fines imposed under this Article which are uncontested shall be made payable to the Town of Farmington and shall be received by the Town Manager

within ten (10) business days from receipt of the citation. All fines collected by the Town Manager shall be directed to the Town Finance Director to be deposited into the Town of Farmington General Fund.

2. If no payment is received for any fine imposed under this Article within the time allowed for payment, then the Town Manager shall act in accordance with the procedures established in Chapter 91, of the Code of the Town of Farmington.

(e) Remedies Not Exclusive

The remedies listed in this ordinance are not exclusive of any other remedies available under any applicable federal, state, or local law and it is within the discretion of the Town Engineer to seek cumulative remedies.

Sec. 13 – Hearing procedure for a citation

The procedure for admitting liability to a violation under this Article, and the hearing procedure for any citation issued pursuant to this Article shall be in accordance with the provisions set forth in Chapter 91 of the Code of the Town of Farmington.

Sec. 14 – Appeals

Any person or entity aggrieved by a finding, determination, notice order or action taken under the provisions of this ordinance may appeal and shall be advised of his/her right to appeal in accordance with the provisions set forth in Chapter 91 of the Code of the Town of Farmington.

Sec. 15 - Miscellaneous

The penalties established by this ordinance shall not be exclusive of any other enforcement remedy which may be imposed by the Town Manager, or his/her designee, for violations of this ordinance, as authorized by any state statute, Town Ordinance, or the Inland Wetlands and Watercourses Regulations, of the Town of Farmington or otherwise any other penalty that may be imposed by any local, state or federal agency.

Sec. 16 - Savings Clause

The enactment of this ordinance shall not operate as an abatement of any action or proceeding previously taken, now pending, or taken prior to the effective date of this ordinance. All said actions and proceedings are hereby ratified to be continued.

Sec. 17 - Severability

All provisions of the Town Code in conflict herewith are hereby repealed and that if for any reason, any word, clause, paragraph, or section of this ordinance shall be held to make the same unconstitutional, this ordinance shall not hereby be invalidated and the remainder of the ordinance shall continue in effect. Any provision herein which is in conflict with the

Connecticut General Statutes is hereby repealed, it being understood that said statutes shall take precedence over this ordinance.

Sec. 18 - Statutory Authorization

The Legislature of the State of Connecticut has in Title 7, Chapter 98, Section 7-148(c)(7) of the General Statutes delegated the responsibility to local governmental units to adopt regulations designed to promote the public health, safety, and general welfare of its citizenry.

Sec. 19 - Effective Date

This ordinance shall become effective ten (10) days after publication in a newspaper having a circulation in Farmington.