



June 6, 2016
Item # 5



DEPARTMENT OF COMMUNITY SERVICES
PLANNING DIVISION
TOWN OF WEST HARTFORD
50 SOUTH MAIN STREET
WEST HARTFORD, CT 06107-2431
TEL: (860) 561-7555 FAX: (860) 561-7504
www.westhartford.org

**PERMIT APPLICATION FOR INLAND WETLANDS & WATERCOURSES
ACTIVITY: (check one of the following)**

MAP AMENDMENT REGULATED ACTIVITY

File # 1044 Application Fee \$170 Surchage Fee \$600 Date Received _____

Street Address of Proposed Application: 72 Hillsboro Drive

Zone: R-13 Acreage/Lot Area 0.57 Parcel/Lot# 2721 2720001

Applicant's Interest in Property: Owner

Brief Description of Proposed Activity: Connection of existing house to AOC Sanitary sewer in Hillsboro Drive

The undersigned warrants the truth of all statements contained herein and in all supporting documents to the best of his/her knowledge and belief. Furthermore, the applicant agrees that submission of this document constitutes permission and consent to Commission and Staff inspections of the site. Note: Notice is hereby given the Connecticut Department of Public Health must be notified by applicants for any project located within a public water supply aquifer protection area or watershed area. (CTDPH website at <http://www.dph.state.ct.us>)

Deborah E. Beach
Record Owner's Name

72 Hillsboro Dr.
Street

West Hartford CT 06107
City State Zip

757-707-3392
Telephone #

Ms. Deborah E Beach
Applicant's Name

3308 Chebea Landing
Street

Williamsburg VA 23188
City State Zip

757-707-3392
Telephone #

Contact Person:

Thomas J. Daly PE
Name

Milore & MacBroom, Inc
Street

99 Realty Drive
City State Zip

203-271-1773
Telephone #

Final/TPZ/TC/complex/TWA Permit Application April 13

Deborah Beach
Applicant's Signature

Signature of Owner/Authorized Agent

ford@miloreandmacbroom.com
E-Mail



Inland Wetlands and Watercourses Delineation

72 Hillsboro Drive
West Hartford, Connecticut

May 18, 2016
MMI #5973-01

In May 2016, I conducted an inspection of the subject property as it is depicted on the attached site plan. I investigated the site for the presence of inland wetlands and watercourses in accordance with the regulations of the City of West Hartford, Connecticut and the State of Connecticut *Inland Wetlands and Watercourses Act*, CGS 22a-36 through 45. Regulated wetland areas consist of any of the soil types designated by the National Cooperative Soils Survey as poorly drained, very poorly drained, alluvial, or floodplain. Regulated watercourses consist of rivers; streams; brooks; waterways; lakes; ponds; marshes; swamps; bogs; and all other bodies of water, natural or artificial, vernal or intermittent, public or private, not regulated pursuant to sections 22a-28 to 22a-35, inclusive (tidal wetlands).

Methodology

Weather conditions were clear and dry. Conditions were suitable for wetland delineation work. Soils were examined using a spade and Dutch auger. In general, transects were walked over the site looking for evidence of redoximorphic features in the soil (hydric soils), a predominance of wetland-adapted plants (hydrophytic vegetation), and evidence of high groundwater persisting into the growing season (wetland hydrology). Any areas of flowing or standing water and channels were inspected for evidence of ordinary high water marks diagnostic of watercourses (perennial or intermittent).

Prior to the fieldwork, geospatial data was accessed via the Web Soil Survey to determine current United States Department of Agriculture – Natural Resources Conservation Service (USDA-NRCS) soil survey mapping for the project site (<http://websoilsurvey.nrcs.usda.gov>). A copy of the web soil survey mapping is appended to this report. The USDA-NRCS maps the site as loamy, upland soils with some sand and gravel-based soils, including the following:

- Manchester, gravelly, sandy loam (#37), excessively drained

Wetland Soils

The USDA-NRCS soil survey map does not indicate the presence of any wetland soils on or in close proximity to the site, but the town's mapping does show the watercourse.

Watercourses

There is a perennial watercourse between Hillsboro Drive and the subject house at 72 Hillsboro Drive. The stream is channeled as shown in the photographs and enters a culvert beneath Hillsboro Drive. It flows from northwest to southeast.

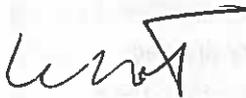
Field Investigation

The site walk confirmed the soil survey mapping of well-drained soils in the vicinity of the house. No regulated wetland soils were identified during the site work. There are no bordering wetlands along the watercourse. Its boundary is its ordinary high water mark at the top of the banks/stone wall as shown on the survey map. Wetland flags W-1 through W-14 were placed in the field and surveyed for transfer onto the site plans. I have reviewed the survey to verify the accuracy of the wetland delineation.

If there are any questions, feel free to contact me.

Very truly yours,

MILONE & MACBROOM, INC.



William A. Root, M.E.S.
Certified Professional Soil Scientist

Attachment: USDA-NRCS Web Soil Survey Map
Photo Log

5973-01-m1716-rpt



Inland Wetlands and Watercourses Delineation

USDA-NRCS Web Soil Survey Map

Soil Map—State of Connecticut
 (72 Hillsboro Dr., W. Hartford)



Map Scale: 1:3,580 if printed on A landscape (11" x 8.5") sheet.
 0 50 100 200 Feet
 0 150 300 600 900 Meters
 Map projection: Web Mercator Corner coordinates: WGS84 Edge UTM: UTM Zone 18N WGS84

MAP LEGEND

- | | |
|-------------------------------|-----------------------|
| Area of Interest (AOI) | Spoil Area |
| Soils | Stony Spot |
| Soil Map Unit Polygons | Very Stony Spot |
| Soil Map Unit Lines | Wet Spot |
| Soil Map Unit Points | Other |
| Special Point Features | Special Line Features |
| Blowout | Water Features |
| Borrow Pit | Streams and Canals |
| Clay Spot | Transportation |
| Closed Depression | Rails |
| Gravel Pit | Interstate Highways |
| Gravelly Spot | US Routes |
| Landfill | Major Roads |
| Lava Flow | Local Roads |
| Marsh or swamp | Background |
| Mine or Quarry | Aerial Photography |
| Miscellaneous Water | |
| Perennial Water | |
| Rock Outcrop | |
| Saline Spot | |
| Sandy Spot | |
| Severely Eroded Spot | |
| Sinkhole | |
| Slide or Slip | |
| Sodic Spot | |

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut
Survey Area Data: Version 14, Sep 22, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 28, 2011—Apr 18, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

State of Connecticut (CT600)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
6	Wilbraham and Menlo soils, extremely stony	1.1	2.3%
15	Scarboro muck, 0 to 3 percent slopes	0.8	1.2%
37C	Manchester gravelly sandy loam, 3 to 15 percent slopes	30.8	65.0%
87B	Wethersfield loam, 3 to 8 percent slopes	0.4	0.9%
87D	Wethersfield loam, 15 to 25 percent slopes	5.4	11.4%
88B	Wethersfield loam, 3 to 8 percent slopes, very stony	6.8	14.4%
88C	Wethersfield loam, 8 to 15 percent slopes, very stony	1.1	2.3%
306	Udorthents-Urban land complex	1.2	2.5%
Totals for Area of Interest		47.4	100.0%



Inland Wetlands and Watercourses Delineation

Project Name: [Illegible]

Date: [Illegible]

Page: [Illegible]

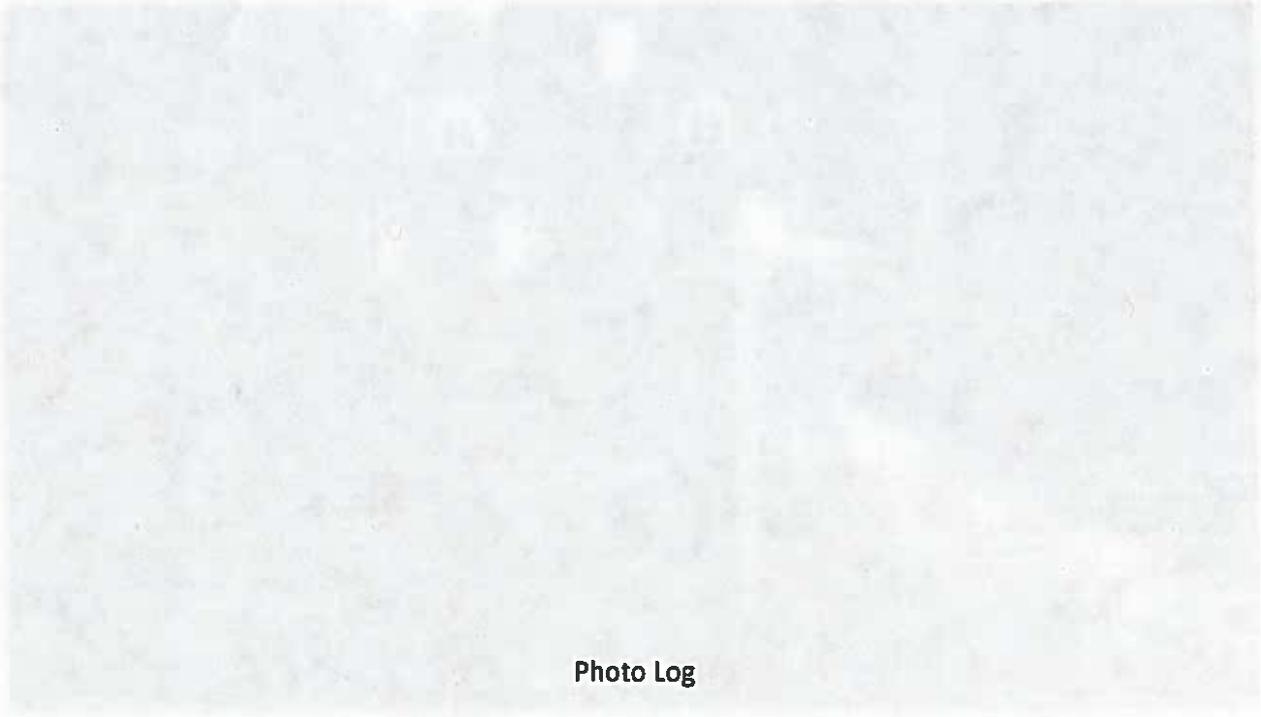
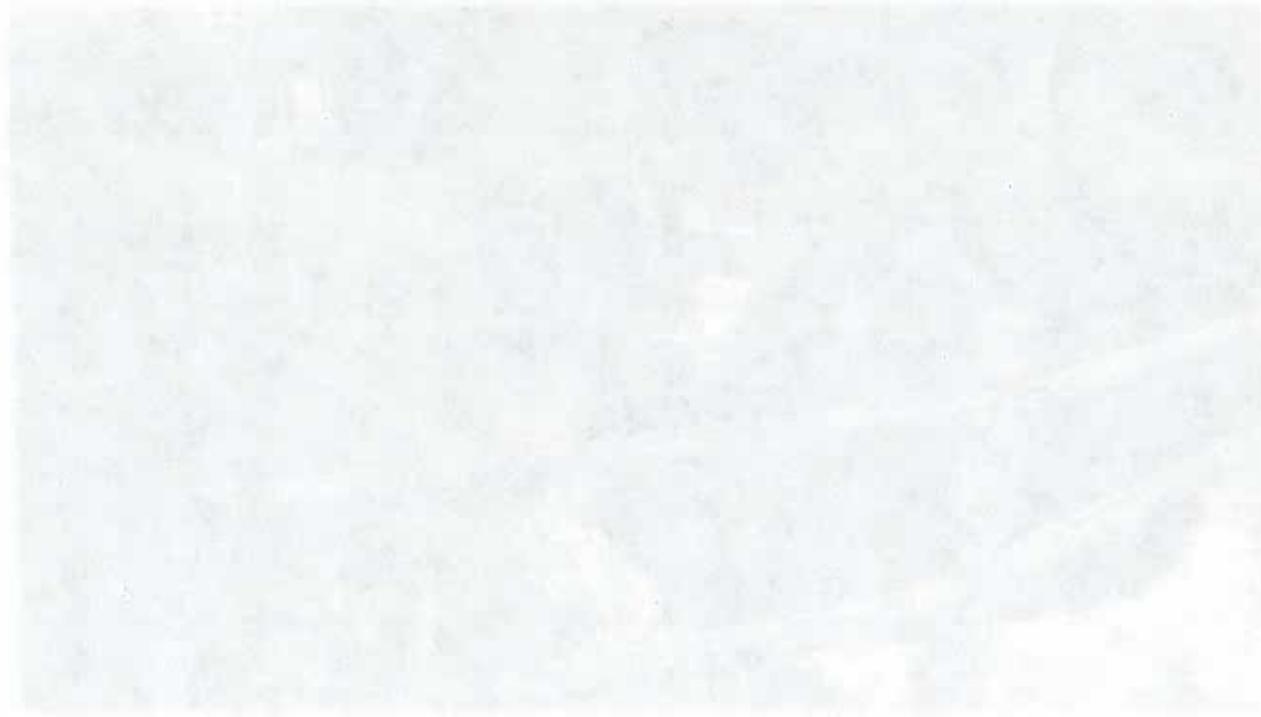


Photo Log



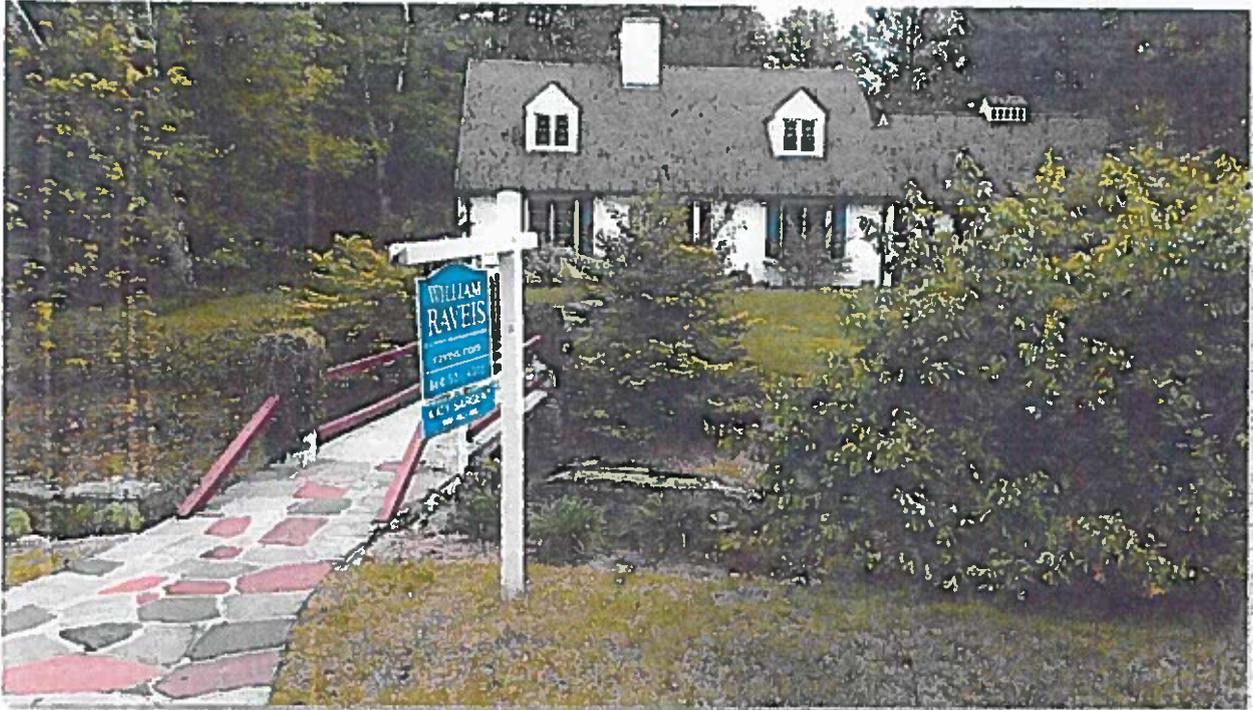


Site Photo Log

72 Hillsboro Drive – West Hartford, Connecticut

May 2016

MMI #5973-01





5973-01-m1716-2-rpt

Town of West Hartford
50 South Main Street
West Hartford, CT 06107

Re: Septic to Sewer Conversion
72 Hillsboro Drive

As discussed, JDC Enterprises, Inc. "JDC" has been contracted to complete a septic to sewer conversion at the above referenced location. MDC has installed a lateral stub off the main on Hillsboro Drive in the front of the house to allow for such hookup. It has come to our attention that the stream that goes through the front of the yard is governed under the wetland regulations of the Town of West Hartford. JDC is proposing the following course of action to complete the work which will defer any environmental impact of the proposed activity on the wetlands. The planned scope of work is as follows:

- Notify Call Before You Dig and have all utilities in the area of excavation marked out prior to the start of work as per CT State Law;
- Dam off the brook up-stream from the proposed sewer crossing with the use of sand bags;
- Set 3" clear water pump just up-stream from the sand bag dam;
- Run 3" discharge hose from the pump downstream past the area of the sewer crossing;
- Start pump bypassing the stream around the area of the sewer crossing, this will be done first before any excavating begins allowing time for the steam to dewater;
- Lay tarps down parallel to the trench line for the stockpiling of soil from the excavation on, this will minimize the impact on the landscape to the trench line only;
- Carefully remove shrubs/flowers in the line of excavation with root balls in tact;
- Excavate trench on the street side of the stream from the MDC sewer lateral stub (sewer tie in point) located at street line to the edge of the stream bank;
- Excavate trench from the left front of the house foundation where the new gravity sewer will exit through the foundation wall to the edge of the brook bank on the house side;
- Tunnel/bore underneath both sides of the steams retaining wall. This will be done by hand excavating only;
- Hand excavate trench across the stream between the retaining walls;
- Install 6" SDR 35 PVC gasketed sewer pipe in trench excavation with all necessary fittings to MDC state specifications and standards; from the house to the lateral stub located at street line
- Backfill around the new gravity sewer line with 3/4" stone, packing underneath to prevent soil settling as per MDC specifications and standards;
- Have MDC inspect and map the new sewer line;
- Backfill the area of excavation with 18" onsite materials and apply caution sewer line tape in the trench over the new sewer line;
- Form and pour 4000 psi concrete around underneath each side of the steams retaining wall. This will create a footing for the retaining wall where the sewer passes underneath. It will also be a water stop preventing any water from the stream following the stone in the trench line and to the sewer main in the street;
- Backfill the remainder of excavation with onsite materials compacting the trench line with the bucket of the excavator in lifts;
- Pump, crush and fill the septic tank with clean fill as per CT requirements;
- Replant any shrubs and/or flowers in the area they were removed from;
- Supply, spread and grade screened topsoil on all disturbed areas of lawn;
- Seed and hay mulch all landscaped areas;

420 John Fitch Blvd, PO Box 905, South Windsor, CT 06074
Phone (860) 667-4800 Fax (860) 667-4164

Website: www.jdcenterprisesinc.com Email: www.jdcenterprises@aol.com

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Page 2 – 72 Hillsboro Road, West Hartford

- Install double steaked hay bales and row of silt fence in a U shaped pattern from the edge of the streams walls away from the stream encasing the trench line; and
- De-construct the stream bypass.

- ❖ Work to commence after a week of dry weather when the stream is reduced to a trickle.
- ❖ JDC will be installing C-900 PVC gasketed water/sewer pressure pipe under the stream. This pipe product is used for both water and sewer applications. It is a thick walled pipe MDC requires used in low ground cover and high water table applications.
- ❖ JDC has estimated the above scope to be completed in one 12 to 16 hour continuous work shift. In other works, work will continue non-stop until the stream crossing and new gravity lateral sewer line is complete, inspected backfilled and all erosion controls measures are in place before the bypass is de-constructed. JDC believes this is the best approach that will have the least impact on the environmental aspects of the job.

JDC fully intends to be compliant with all the regulated requirements to complete this work and any assistance that can be provided to help expedite the process will be greatly appreciated. It is important to understand that the current septic system is in close proximity to the stream and at any time can cause an environmental impact that may not be able to be reversed. The sooner this can be completed the better. JDC will be providing a detailed sketch of the proposed work under separate cover.

We thank you for taking the time to review this and if you have any additional questions or concerns, please feel free to contact me at (860) 667-4800.

Sincerely,
Andrea Bucchere
Office Manager

420 John Fitch Blvd, PO Box 905, South Windsor, CT 06074
Phone (860) 667-4800 Fax (860) 667-4164

Website: www.jdcenterprisesinc.com Email: www.jdcenterprises@aol.com

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Emailed on 5-24-16 to
A. Zi Kelis, T. Daley, A. Eberly
T. Dumais and C. Dorau

Brittany Bermingham

From: Bob Proctor
Sent: Tuesday, May 24, 2016 3:39 PM
To: Brittany Bermingham; Catherine Dorau; Todd Dumais; Aimee Eberly
Cc: 'tdaley@mminc.com'
Subject: 72 Hillsboro Drive, West Hartford -- IWW RA #144

Brittany,

The above subject application has been reviewed, along with the site plan submitted by Milone & McBroom, Inc. and the Health District strongly recommends that the home be connected to the existing MDC sanitary sewer line in Hillsboro Drive.

The septic system at this site has failed and no code compliant area remains to replace this system. The leaching field is currently too close to the existing stream to comply with current code separation requirements.

Bob Proctor, RS
West Hartford Bloomfield Health District

C: Alexandra Zikely

Catherine Dorau

From: Tom Daly <tomd@miloneandmacbroom.com>
Sent: Tuesday, May 24, 2016 4:12 PM
To: Catherine Dorau
Subject: 72 Hillsboro
Attachments: SKMBT_C45416052415180.pdf

Cathy – here is the requested impact assessment. I also spoke with Bob Proctor and he will be sending you an email. Please forward to me upon receipt. He said we just need to pump out the septic tank and fill with soil to abandon the system. The leach field will be left as is and abandoned in place.

Tom

Thomas J. Daly, P.E., Principal
Senior Project Manager, Civil Engineering

MILONE & MACBROOM
99 Realty Drive, Cheshire, CT 06410
(203) 271-1773
www.miloneandmacbroom.com



Inland Wetlands and Watercourses Impact Assessment

72 Hillsboro Drive
West Hartford, Connecticut

May 24, 2016
MMI #5973-01

Earlier in May 2016, I visited this site to delineate inland wetlands and watercourses as described in my May 15, 2016 report, which includes photographs of the setting. Since then, I have reviewed the site plan prepared by this office for installation of a residential sewer lateral from the left corner of the house to the existing sewer main on Hillsboro Drive. In addition, I have reviewed the proposed scope of work for the installation prepared by JDC Enterprises, Inc. of Windsor, Connecticut, a licensed installer. In my opinion, there will be no significant impact to any wetlands or to the watercourse from this proposal. The provision to conduct the work at a time of low to no flow in the watercourse and using a pump system to "work in the dry" is the best method to eliminate any risk of impacts. There will be a temporary impact to the streambed during installation of the sewer lateral, but the same materials will be replaced afterward so that when flow is restored there will be no long-term impacts to the stream. Stabilizing the existing stone retaining wall after tunneling beneath the stream will also lessen the risk of long-term impacts. The proposed Erosion and Sedimentation Control Plan is sufficient to protect the regulated area from negative impacts.

If there are any questions or comments, I will be available to discuss them with town staff or with the commission.

Very truly yours,

MILONE & MACBROOM, INC.

William A. Root, MS
Senior Project Specialist, Environmental

5973-01-m2416-rpt



Inland Wetlands and Watercourses Application

**72 Hillsboro Drive
West Hartford, Connecticut**

**May 31, 2016
MMI #5973-01**

An application has been submitted to the West Hartford Inland Wetlands Commission for regulated activities associated with the installation of a sanitary sewer lateral for 72 Hillsboro Drive. The Metropolitan District Commission (MDC) has already stubbed out a connection for the lot, but the lateral will need to cross under a watercourse to connect to the stub. The watercourse has walls on both sides, and no riparian wetland exists. Connection to the MDC is required as the health department has determined that the existing subsurface sewage disposal system has failed.

Alternate designs were considered but deemed unfeasible. They included the following:

1. Replacement of the existing on-site subsurface disposal system

The health department has determined that the lot cannot support a code-compliant septic system due to the size of the lot and separation distances to the watercourse and drainage pipes.

2. Connection to the Hunter Drive sanitary sewer

An MDC sanitary sewer is located in Hunter Drive, but a 10-foot-wide strip of land separates this parcel and the Hunter Drive right-of-way. An 8" water main and a 6" gas main are located in that right-of-way. It is our understanding 72 Hillsboro Drive has no rights to install utilities across this strip of land. Furthermore, we have reviewed the MDC mapping, and shallow rock exists in Hunter Drive, and no lateral stub was installed for 72 Hillsboro Drive. As the sanitary sewer in Hunter Drive is shallow, we believe 72 Hillsboro Drive would require a pump to connect to this sewer, and that is not desirable.

Ruling out these two alternatives, it has been determined that the only feasible and prudent alternative is to connect to the Hillsboro Drive sanitary sewer. It is of the opinion of William Root, Wetland Scientist with Milone & MacBroom, Inc., there will be no significant impact to any wetlands or to the watercourse from this proposal. There will be a temporary impact to the streambed during installation of the sewer lateral, but the same materials will be replaced afterward so that when flow is restored there will be no long-term impacts to the stream. The proposed Erosion and Sedimentation Control Plan is sufficient to protect the regulated area from negative impacts.

5973-01-m2716-rpt

