

NOTICE OF PUBLIC MEETING
SUDBURY CONSERVATION COMMISSION
Monday, August 22, 2022 at 6:45 PM
Virtual Meeting

The Sudbury Conservation Commission will hold a public meeting to review the Request for Determination of Applicability filing under the Wetlands Protection Act and the Sudbury Wetlands Administration Bylaw to replace a septic system within the 100-foot Buffer Zone at 40 Maynard Farm Road, in Sudbury, MA. Joseph Murphy, Applicant. The meeting will be held on Monday, August 22, 2022 at 6:45 pm, via Zoom.

Copies of the application may be reviewed on the Conservation Department web page at:

<https://sudbury.ma.us/conservationcommission/meeting/conservation-commission-meeting-monday-august-22-2022/>

Please contact the Conservation Office with any questions at 978-440-5470.

SUDBURY CONSERVATION COMMISSION
8/9/2022



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

Sudbury
City/Town

WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:
- Joseph Murphy jmurph6of9@gmail.com
 Name E-Mail Address
- 40 Maynard Farm Road
 Mailing Address
- Sudbury MA 01776
 City/Town State Zip Code
- 617 571 5556
 Phone Number Fax Number (if applicable)
2. Representative (if any):
- M. J. DiModica Excavating
 Firm
- Mike DiModica mjdimodica@verizon.net
 Contact Name E-Mail Address
- 19 Christopher Lane
 Mailing Address
- Sudbury MA 01776
 City/Town State Zip Code
- 978 443 8433
 Phone Number 978 443 0682
- Fax Number (if applicable)

B. Determinations

1. I request the Sudbury Conservation Commission make the following determination(s). Check any that apply:
- a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
 - b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
 - c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
 - d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:
Sudbury
 Name of Municipality
 - e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).

Received

AUG 04 2022

Sudbury Conservation Department



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C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

40 Maynard Farm Road	Sudbury
Street Address	City/Town
B09	453
Assessors Map/Plat Number	Parcel/Lot Number

- b. Area Description (use additional paper, if necessary):

Single family residential lot located on 40 Maynard Farm Rd improved with a existing four (4) bedroom dwelling

- c. Plan and/or Map Reference(s):

Subsurface Sewage Disposal System	July 29, 2022
Title	Date
_____	_____
Title	Date
_____	_____
Title	Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

See Attached Narrative



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C. Project Description (cont.)

- b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).
3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.
- Single family house on a lot recorded on or before 8/1/96
 - Single family house on a lot recorded after 8/1/96
 - Expansion of an existing structure on a lot recorded after 8/1/96
 - Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
 - New agriculture or aquaculture project
 - Public project where funds were appropriated prior to 8/7/96
 - Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
 - Residential subdivision; institutional, industrial, or commercial project
 - Municipal project
 - District, county, state, or federal government project
 - Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.
- b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)



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D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Joseph Murphy

Name

40 Maynard Road

Mailing Address

Sudbury

City/Town

MA

State

01776

Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Joseph A. Murphy

Signature of Applicant

8/2/2020

Date

Signature of Representative (if any)

Date

Request for Determination of Applicability

NARRATIVE

Joseph Murphy
40 Maynard Farm Road
Map B09 Parcel 453

The project consists of the replacement of an existing failed Soil Absorption System (SAS) with no proposed change in use or new impervious area.

The subject parcel is located at 40 Maynard Farm Road and consists of a four (4) bedroom single family dwelling with a land area of approximately 69,400 s.f. The parcel abuts an intermittent stream and associated vegetated wetland. The proposed project is located in the riverfront area of the intermittent stream but outside of the associated buffer zone. The wetland resource areas were determined based upon an approved plan by Thomas Land Surveyors.

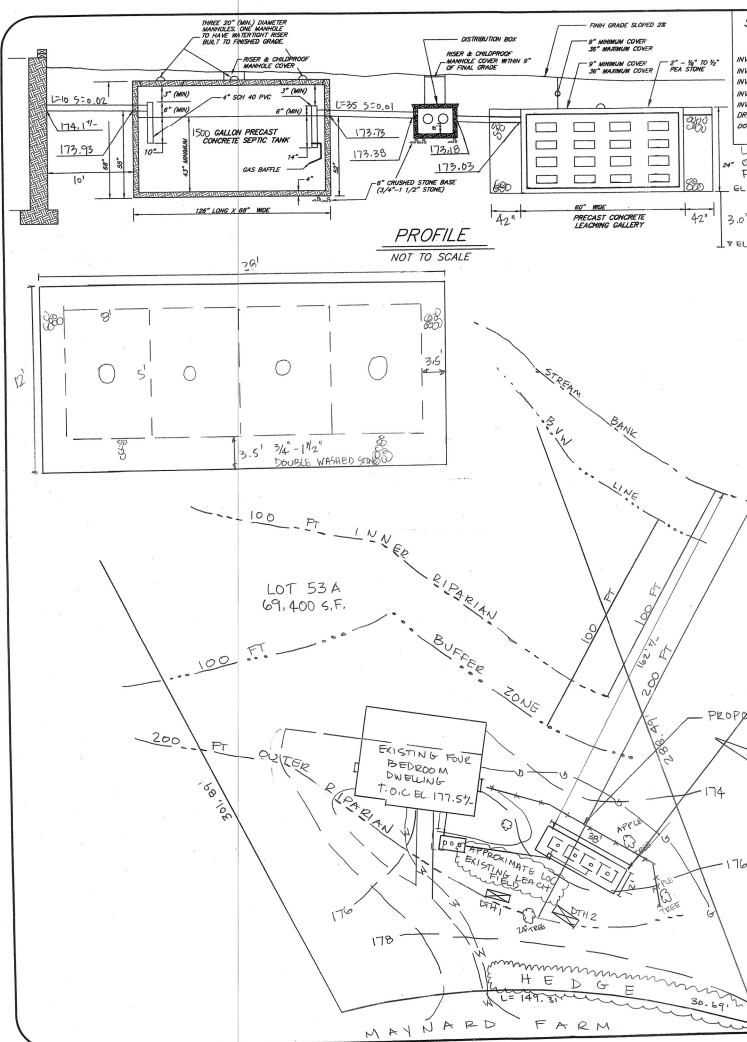
The project consists of replacing an existing failed Soil Absorption System (SAS) in the front and right side of the dwelling with a new title 5 compliant system in the front and right side of the parcel as shown on the attached plan.

As this site is located in the Riverfront Area of the intermittent stream, alternative analysis was performed for proposed locations of the new SAS. The water line location restricts the area in the front for use and the large tree would have to be removed in this area as well. This location would still be in the outer riparian zone. The subject location was identified as least disruptive as not requiring the removal of the mature tree and allow for the SAS to be shallower in the ground. This area was chosen for depth of the soil test holes, the permeability of the soils, and the least amount of tree removal.

The new SAS consists of a new 1500 gallon septic tank and new leaching field with precast concrete rectangular drywells with washed stone surrounding the drywells. All of this work is located in the Outer Riparian zone (162 feet at the closest point) with no work proposed in the buffer zone or Inner Riparian zone.

The work will require access down the driveway from Maynard Farm Road and across the front yard to the location of the soil pipe exits the building. The driveway is paved and will serve as construction access to prevent tracking dirt to the street. The erosion control barrier (straw wattles) is proposed between the work area and the resource area to ensure protection of the resource area. There shall be a minimum amount of stockpiling due to the nature of the SAS.

No work shall commence onsite until erosion control barriers have been installed and inspected by the Conservation Commission.



SCHEDULE OF ELEVATIONS

DESIGN	AS-BUILT
N.Y. @ FOUNDATION	174.13
N.Y. @ S.T. INLET	173.93
N.Y. @ S.T. OUTLET	173.75
N.Y. @ D-BOX INLET	173.38
N.Y. @ D-BOX OUTLET	173.18
DRYWELL IN	173.02
TOP OF DRY WELL	171.52

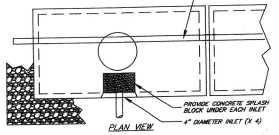
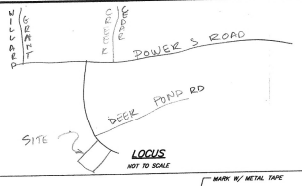
LOCAL UPGRADE VARIABLE P.L. OPERET TO GREEN/WHITE ROOM 4' TO 3' BELOW G.E.D.

EL 171.03

3' 0"

EL 168.03

PROFILE
NOT TO SCALE



LEACHING GALLERY DETAILS
NOT TO SCALE

1. ELEVATION REFER TO BENCHMARK T.O.C. EL 174.54.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 8 OF THE MASSACHUSETTS ENVIRONMENTAL CODE AND THE BOARD OF HEALTH REGULATIONS OF THE TOWN OF SUDBURY (WHERE APPLICABLE).
3. FINISH GRADING SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAILS AS SHOWN HEREON.
4. HEAVY CONSTRUCTION EQUIPMENT SHALL NOT BE ALLOWED TO PASS OVER THE LEACHING AREA.
5. ALL INCHES SHOWN TO BE DOUBLE INCHES.
6. ALL SOFT GENT PIPING SHALL CONSIST OF PERMEABLE CHLORIDE (PVC) SCHEDULE 40 PIPE OR AS SPECIFIED.
7. THE SYSTEM SHALL BE INSPECTED IMMEDIATELY AND SHALL BE STOPPED IF ANY DEFECTS ARE FOUND EXCEEDING THE ALLOWED TOLERANCE OF THE TANK.
8. LIMIT OF EXCAVATION: ALL TRENCH, CHANNELS, LARGE ROUGHNESS AND PROTECTIVE MATS SHALL BE EXCAVATED AND PROTECTED WITH 18\"/>

SOIL TEST DATA: DATE 7-21-22 CORRECTED ON PERFORMED BY M.J. DIMODICA

DEPTH	174.13	173.93	173.75	173.38
0-24"	LS	LS	LS	LS
24-30"	LS	LS	LS	LS
30-36"	LS	LS	LS	LS
36-42"	LS	LS	LS	LS
42-48"	LS	LS	LS	LS
48-54"	LS	LS	LS	LS

PERCOLATION TEST DATA

PROG. NO.	DATE	DEPTH	STABILIZED RATE	INVESTIGATED BY
1-1	7-21-22	36"	3 MPI	B. MURPHY

DESIGN INFORMATION

DESIGN FLOW: 4 BDRM @ 110 GPD/BDRM = 440 GPD

DESIGN PERC. RATE: 3 MPI

DESIGN LOAD FACTORS: 0.74 MPI/F

LEACHING AREA REQUIRED: SITE 535 S.F. LOCAL (5000) 200 S.F.

LEACHING AREA REQUIRED:
S.A. = (2)(2)(28+12) = 200 S.F.
P.A. = (38)(2) = 456 S.F.
SEPTIC TANK CAPACITY: TOTAL = 656 S.F.

440 GPD x 200% = 880 GPD

USE 1500 GALLON SEPTIC TANK

- NOTES:**
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LEGEND

---	FINISH GROUND
---	EXISTING GROUND
---	EXISTING SPOT GRADE
---	PROPOSED SPOT GRADE
---	EDGE OF METTLAND
○	PERCOLATION TEST
⊗	DEEP TEST HOLE
---	WATER LINE
---	ELECTRIC TELEPHONE CABLE AND GAS LINE
---	GAS LINE
---	LIMIT OF EXCAVATION
---	PROPOSED STRAIN WATTLES

NO.	DATE	REVISION DESCRIPTION
1		
2		
3		
4		

SUBSURFACE SEWAGE DISPOSAL SYSTEM - REPAIRED

40 MAINFOLD FARM RD
SUDBURY, MA

PREPARED FOR: JOSEPH MURPHY
40 MAINFOLD FARM RD
SUDBURY, MA
JULY 29, 2022

Scale: 1" = 20'

MAINTENANCE: EXISTING STRAIN WATTLES LOCATED ON INTERSECTIONS SHALL BE OBTAINED FROM THE LOCAL HEALTH DEPARTMENT IN SUDBURY. THE CONTRACTOR SHALL TAKE CAUTION TO AVOID DAMAGE TO EXISTING STRAIN WATTLES TO PERSONNEL DURING WORKING IN THESE AREAS.

CALL 781-381-1100 (OR) 800-551-7100 (OR) 344-7223

EXISTING LINES OTHER THAN THOSE SHOWN MAY BE ON THE SITE. THE CONTRACTOR IS WARNED TO PROCEED WITH CAUTION WITH ALL WORK ESPECIALLY EXCAVATION WORK, AND TO MAKE ALL POSSIBLE INVESTIGATIONS AS TO POSSIBLE UNKNOWEN UTILITY LINES.

M. J. DIMODICA
18 CHRISTOPHER LANE, SUDBURY, MA 01776 (800) 448-8433
mjd@dimodica-engineering.com

Prepared by: [Signature]

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