

20 December 2022

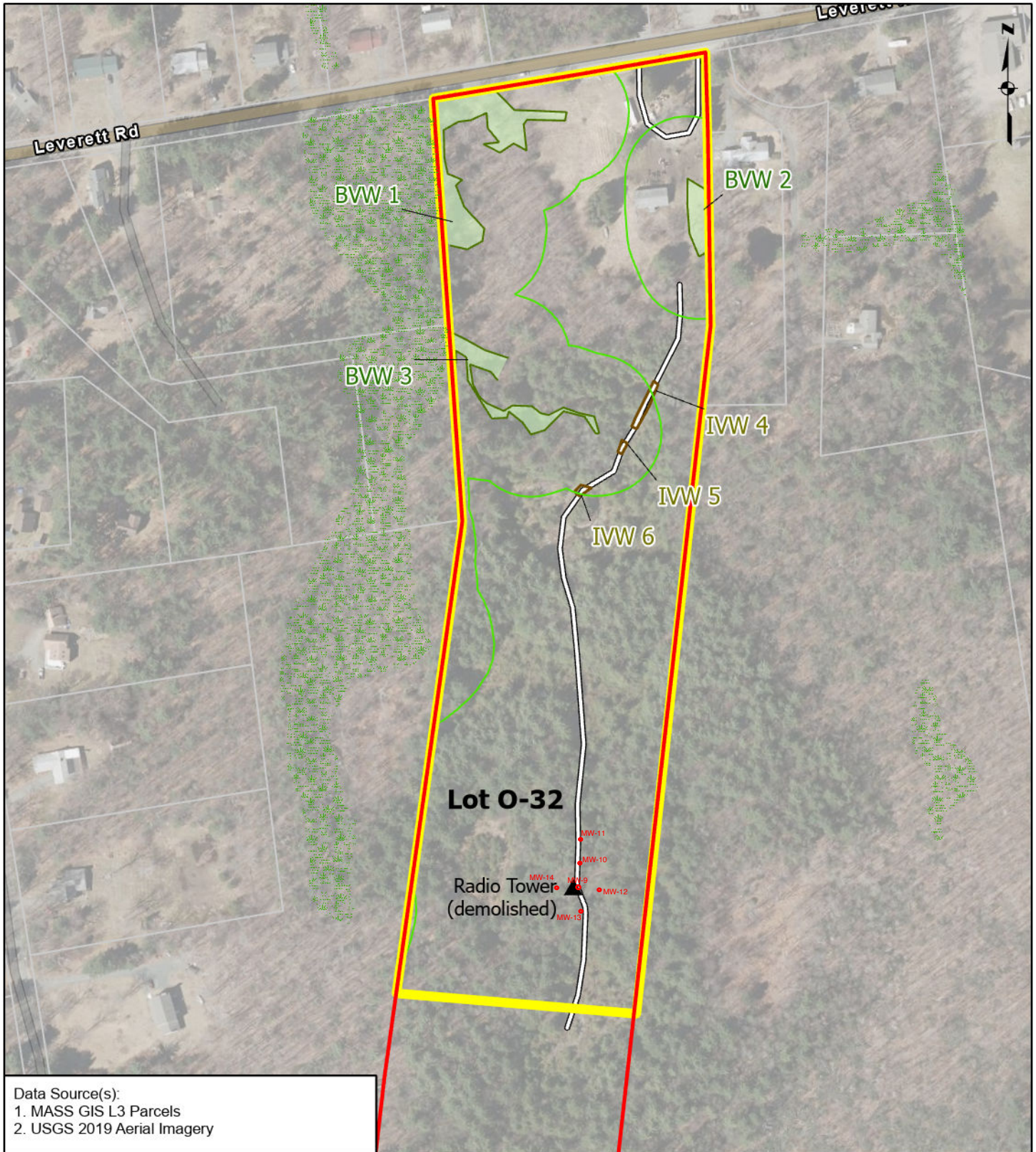
Dear Conservation Commission,

I write in response to the Commission's request for information on the additional testing on Lot O-32 that Fuss and O'Neill plans to conduct in January 2023. The work is a continuation of the investigations described in the RDA (10/22) and covered by the DOA issued by the Commission on 10/15/22.

1. Fuss and O'Neill has recommended installation of additional groundwater monitoring wells near the Radio Tower site, all within a short radius of the current monitoring well MW-9 and the borings that were done in early November.
2. **All work is located outside of the 100-foot Buffer Zone** to the site's BVWs and IVWs, but the drilling rig requires access along the established route to the Radio Tower area. If the ground is not frozen, the access road will be protected with temporary wetland mats as specified in the RDA.
3. As before, the work will be advanced via Geoprobe direct-push method. Up to five 2-inch diameter monitoring wells will be installed to a depth of approximately 20 feet below grade. The wells will be finished with a stick-up steel casing set in concrete. A Fuss & O'Neill field engineer will be present for oversight of the installation.
4. Upon completion, any remaining material from the digging will be backfilled to grade.
5. The work will be completed within one day.
6. Fuss & O'Neill will return to the Site to collect groundwater samples from the newly installed monitoring wells and existing monitoring well MW-9.

I hope this answers any questions you may have. Please feel free to contact me if you need more information.


Penny Jaques
Library Building Committee



Data Source(s):
 1. MASS GIS L3 Parcels
 2. USGS 2019 Aerial Imagery



- Subject Parcel
- ANRAD Review Area
- BVW Boundary (Delineated)
- IVW Boundary (Delineated; Not Jurisdictional)
- Wetland Area
- ▲ Radio Tower (demolished)
- Access
- 100-ft Buffer Zone (MAWPA & Local)
- MassDEP Mapped Wetland

0 50 100 200 Feet

Disclaimer: This map is not the product of a Professional Land Survey. It was created by Fuss & O'Neill, Inc. for general reference, informational, planning and guidance use, and is not a legally authoritative source as to location of natural or manmade features. Proper interpretation of this map may require the assistance of appropriate professional services. Fuss & O'Neill, Inc. makes no warrantee, express or implied, related to the spatial accuracy, reliability, completeness, or currentness of this map.
 Wetland Delineation conducted by Fuss & O'Neill on August 5, 16, and November 10, 2022.

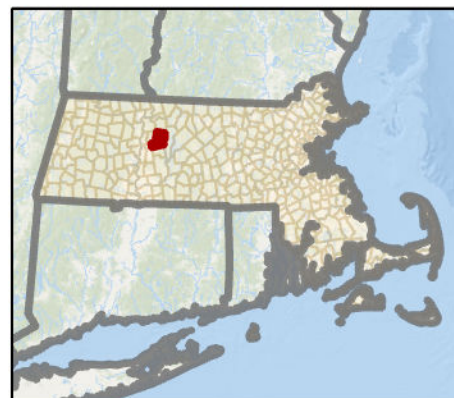
Wetland Delineation Overview
 66 Leverett Road
 Shutesbury, Massachusetts
 November 2022

FUSS & O'NEILL
 1550 Main Street, Suite 400
 Springfield, MA 01103
 413.452.0445 | www.fando.com

Figure 2



Data Source(s):
 1. MASS GIS L3 Parcels
 2. USGS 2019 Aerial Imagery



- Wetland Flags
- ▭ Subject Parcel
- ▭ ANRAD Review Area
- ▭ Parcel Boundary
- BVW Boundary (Delineated)
- ▭ Wetland Area
- Soil Test Pit
- ▭ 100-ft Buffer Zone (MAWPA & Local)
- ▭ MassDEP Mapped Wetland

0 25 50 100 Feet

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Wetland Delineation conducted by Fuss & O'Neill on August 5, 16, and November 10, 2022.

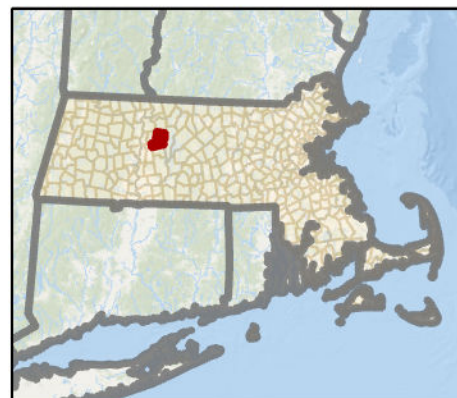
Wetland Flag Locations
 66 Leverett Road
 Shutesbury, Massachusetts
 November 2022

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Figure 3-1



Data Source(s):
 1. MASS GIS L3 Parcels
 2. USGS 2019 Aerial Imagery



- Wetland Flags
- ▭ Subject Parcel
- ▭ ANRAD Review Area
- ▭ Parcel Boundary
- ▭ MassDEP Mapped Wetland
- BVW Boundary (Delineated)
- IVW Boundary (Delineated; Not Jurisdictional)
- ▭ Wetland Area
- ▭ 100-ft Buffer Zone (MAWPA & Local)

0 25 50 100 Feet

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Wetland Delineation conducted by Fuss & O'Neill on August 5, 16, and November 10, 2022.

Wetland Flag Locations
 66 Leverett Road
 Shutesbury, Massachusetts
 November 2022

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Figure 3-2



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December 19, 2022

Ms. Mary Anne Antonellis
Director
M.N. Spear Memorial Library
10 Cooleyville Road
PO Box 256
Shutesbury, MA 01072

Via email: library.director@shutesbury.org

Re: Proposal for Environmental Services Task Amendment 06
66 Leverett Rd., Shutesbury, MA
Fuss & O'Neill Reference No. 20091032.A22

Dear Ms. Antonellis:

Professional services were initiated in July 2022 in accordance with the original proposal dated July 7, 2022 and authorized on July 20, 2022. This Task Amendment has been developed due to the need for additional LSP services related to the open Release Tracking Notification (RTN) 1-21489 at 66 Leverett Rd. Property (the Site).

Scope of Services

Task 900. MassDEP Submittals and Regulatory Coordination (New Task)

Following review of soil and groundwater data collected at the Site during the November and December 2022 preliminary environmental investigation, we have determined that the appropriate regulatory step will be to Tier Classify the Site. Under this task, a Tier Classification Submittal for RTN 1-21489, including a Phase I Initial Site Investigation (ISI) Report, will be prepared for submittal to the Massachusetts Department of Environmental Protection (MassDEP) by the Tier Classification Deadline of January 28, 2023, as dictated in the Notice of Responsibility (NOR) issued to the Town of Shutesbury on February 1, 2022.

As specified at 310 CMR 40.0500, Tier Classification results are used by MassDEP to determine the appropriate level of oversight. Tier Classification also allows for the establishment of a five-year timeline to achieve Permanent or Temporary Solution under the MCP, with interim milestones for certain submittals over this period and provisions for an extension if needed.

The Tier Classification submittal will consist of the following elements:

- Tier Classification Submittal Form and LSP Opinion and Certifications
- A summary of the Site's regulatory compliance history

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- A conceptual Phase II Scope of Work and schedule, including a plan for further assessing identified OHM (if warranted) in the environment and a summary of potential receptor exposure scenarios
- Comparison of site conditions to Tier I criteria (i.e. potential drinking water resource impacts, presence of Imminent Hazards or Critical Exposure Pathways)
- Required public notification measures, including a newspaper notice, public comment opportunities, and letters to the Town of Shutesbury Town Manager and Health Department

The primary component of the Tier Classification Submittal will consist of a Phase I Initial Site Investigation (ISI) Report, which will be prepared in accordance with 310 CMR 4.0483 and includes:

- Description of the environmental conditions of the Site and surrounding area, including mapping depicting known on-Site release areas
- Site history relevant to potential OHM release(s)
- Description of subsurface conditions, including nature and extent of identified OHM releases and a preliminary Conceptual Site Model
- Summary of analytical results
- Recommendations for next steps which may include Comprehensive Response Actions under the MCP, such as supplemental assessment and/or cleanup planning and implementation
- Required public notification letters to the Town of Shutesbury Town Manager and Health Department

We will work with the Town of Shutesbury to electronically file the necessary transmittal forms with MassDEP associated with these documents.

Task 1000. Additional Groundwater Investigation (New Task)

In November and December 2022, Fuss & O'Neill performed a preliminary soil boring and groundwater investigation at the Site to evaluate the reproducibility of a reportable concentration of Volatile Petroleum Hydrocarbon (VPH) Ranges in a soil sample collected in October 2021 by O'Reilly, Talbot & Okun Engineering (OTO). The exceedance of the reportable concentration was collected from OTO soil boring B-9, near the location of a historic gasoline underground storage tank (UST) and associated backup generator in the southern portion of the site.

Following the receipt and review of the preliminary soil and groundwater analytical data collected by Fuss & O'Neill during the November and December 2022 investigation, it was determined that

Ms. Mary Anne Antonellis, Director M.N. Spear Memorial Library

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concentrations of dissolved phase contaminants in groundwater that exceed one or more applicable reportable concentration, exist in the vicinity of the historic gasoline UST. Initially, one groundwater monitoring well was proposed/installed in this area to determine if the need for additional groundwater monitoring points was necessary, and if so, to help inform the number and location of new monitoring wells.

Based on the initial data, Fuss & O'Neill recommends the installation of additional groundwater monitoring wells to evaluate the nature and extent of the impacts to groundwater in the vicinity of the historic UST, and to facilitate determination of the appropriate remediation and/or risk characterization response actions which will be needed to achieve Permanent Solution. Under this Task, Fuss & O'Neill will coordinate and conduct the following services:

1. Mark-out drilling locations and contact Dig Safe® prior to installation of the new monitoring wells.
2. Mobilize a drilling rig (sub-contractor) and a Fuss & O'Neill field engineer for oversight of monitoring well installation.
3. At strategic locations in four lateral directions from recently-installed groundwater monitoring well MW-9, monitoring wells be installed via Geoprobe®. We have assumed one (1) day of on-site drilling and the installation of up to five (5) 2-inch diameter monitoring wells to a depth of up to approximately 20 feet below grade. The wells will be finished with a stick-up steel casing set in concrete. We have assumed that the saturated zone will be encountered within approximately 10 to 15 feet of the ground surface.
4. After completion of the monitoring well installation, Fuss & O'Neill will return to the Site to develop the newly installed monitoring wells by pumping water from the wells to remove fine grained materials from the wells and filter packs. We have assumed that purge water will not exhibit visual or olfactory evidence of contamination and can be returned to the ground surface. If free-phase petroleum or significant signs of groundwater contamination are present, we will notify you to make arrangements for containerization and disposal of purge water. During this mobilization, Fuss & O'Neill will also conduct a relative elevation survey for the newly installed monitoring wells, using recently acquired survey data for existing well MW-9 as a benchmark.
5. Fuss & O'Neill will return to the Site to collect groundwater samples from the newly installed monitoring wells, and existing monitoring well MW-9. Groundwater sampling will be conducted utilizing low flow sampling procedures and the sample will be selected for laboratory analysis for the following parameters:
 - a. Compendium of Analytical Methods (CAM) 14 Metals by USEPA Methods 6010/7471.
 - b. Extractable Petroleum Hydrocarbons (EPH) and Target Compounds by MassDEP Methodology.

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- c. Volatile Petroleum Hydrocarbons (VPH) and Target Compounds by MassDEP Methodology.

Following receipt of analytical data, Fuss & O'Neill will conduct a preliminary review in support of the ongoing site characterization activities under the MCP. This task will include one (1) call with Fuss & O'Neill's LSP and Town of Shutesbury officials to discuss the results and recommended next steps.

Assumptions and Exclusions

The following assumptions apply to the Scope of Services presented herein:

- **Regulatory Coordination and Immediate Response Actions** – We have not included cleanup services to address conditions warranting immediate response to protect human health, such as Substantial Release Migration Conditions or Imminent Hazards. A need to promptly deploy remedial measures to address such conditions may be identified. If these or similar scenarios arise, we will contact you as soon as possible to discuss an appropriate response.
- **Investigation Derived Waste** – For the purposes of this proposal, we have assumed that purge water generated during the investigation can be returned to the subsurface. If visual or olfactory evidence of significant contamination is observed in soil or purge water, we may recommend that the material be containerized for off-Site disposal. If so, we will contact you to discuss options.
- **Annual Compliance Fees** – Please be advised that MassDEP administers annual compliance fees to parties performing response actions at Tier Classified sites, until a Permanent Solution is achieved. Annual compliance fees range from \$4,915 per year for sites in “default” status to \$2,455 per year for Tier II sites. These fees are billed directly to the responsible party by MassDEP and have not been accounted for in our budget.
- **Public Notification Fees** – Please be advised that MassDEP requires public notification measures, including a newspaper notice, for the submittal of a Tier Classification and Phase I ISI. For the purposes of this proposal, it is assumed that these fees will be billed directly to the Town of Shutesbury by the publishing entity, and therefore, these fees have not been accounted for in our budget.
- **LSP-of-Record** – Timothy Clinton, CPG, LSP will become the LSP-of-record for the Site (RTN 1-21489) following the first MassDEP submittal.



Ms. Mary Anne Antonellis, Director M.N. Spear Memorial Library
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Fees

Fuss & O'Neill proposes to provide these additional professional services on a time and materials basis, as indicated below, for a fee of \$26,750, raising the total contract fee to \$92,240. Our policy is to invoice on a monthly basis using a percent complete for each of the lump sum project tasks shown below.

| Task | Type | Original Fee | TA 01 | TA 02 | TA 03 | TA 04 | TA 05 | TA 06 | Total |
|--|--------------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Task 100 – Previous Environmental Investigation Desktop Review | Lump Sum | \$1,080 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,080 |
| Task 200 – Limited Soil Boring Investigation | Lump Sum | \$8,200 | \$1,500 | \$0 | \$0 | \$0 | \$0 | \$0 | \$9,700 |
| Task 300 – Reporting | Lump Sum | \$2,800 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$2,800 |
| Task 400 – Meetings and On-Call Services | Time and Materials | \$1,560 | \$0 | \$0 | \$3,120 | \$6,240 | \$6,240 | \$0 | \$17,160 |
| Task 500 – Wetland Delineation | Lump Sum | New | New | \$6,500 | \$2,500 | \$0 | \$0 | \$0 | \$9,000 |
| Task 600 – ANRAD | Lump Sum | New | New | New | \$4,100 | \$4,600 | \$7,300 | \$0 | \$16,000 |
| Task 700 – RDA | Lump Sum | New | New | New | \$3,300 | \$0 | \$0 | \$0 | \$3,300 |
| Task 800 – UIC Permitting and Environmental Assessment | Lump Sum | New | New | New | \$6,450 | \$0 | \$0 | \$0 | \$6,450 |
| Task 900 – MassDEP Submittals and Regulatory Coordination | Lump Sum | New | New | New | New | New | New | \$10,500 | \$10,500 |
| Task 1000 – Additional Groundwater Investigation | Lump Sum | New | New | New | New | New | New | \$16,250 | \$16,250 |
| Total Fee | | \$13,640 | \$1,500 | \$6,500 | \$19,470 | \$10,840 | \$13,540 | \$26,750 | \$92,240 |

Please do not hesitate to contact either of the undersigned at 413-333-5472 if you have any questions concerning our proposed work, fee, or you need additional information.

Sincerely,

Matthew Kissane
 Environmental Geologist

Timothy Clinton, CPG, LSP
 Project Manager

Attachments: Authorization to Proceed



Authorization to Proceed

Matthew Kissane
Fuss & O'Neill, Inc.
1550 Main Street
Springfield, MA 01103

RE: Authorization to Proceed
Proposal for Environmental Services - Task Amendment 06
M.N. Spear Memorial Library
Shutesbury, MA 01072
Fuss & O'Neill Opportunity No. 20091032.A22

Dear Mr. Kissane:

I hereby authorize Fuss & O'Neill, Inc. to proceed with the above-referenced project in accordance with the General Terms and Conditions and Task Amendment 06 dated December 19, 2022.

Printed Name

Date

Signature

Title