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DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
REMEDIATION DIVISION, PCB PROGRAM, AND
LEAKING UNDERGROUND STORAGE TANK COORDINATION PROGRAM
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This Electronic Transmittal Form must be completed and included as the cover sheet of your electronic document when uploading a document to the Connecticut SFT website. Requirements for Transmittals through the SFT website:

- Documents submitted through the SFT website must include all applicable figures, tables and laboratory data.
- Files must be formatted as PDF/A and use the appropriate naming convention:
  - For Remediation Filings: **REM_REMID #_SiteAddress_Town_DocumentType_DateofDocument**
  - For LUST Filings: **LUST_SiteAddress_Town_AbbreviationForDocumentType_DateofDocument**
  - For PCB Filings: **PCB_SiteAddress_Town_AbbreviationForDocumentType_DateofDocument**
  **Example:** LUST_1MainStreet_Hartford_ESA_01-01-2001
  **Note:** For "AbbreviationForDocumentType" use appropriate abbreviation at Transmittal of Documents
- If no Rem ID assigned (new filing) or REM ID is unknown leave field blank

**Part I: Primary Recipient*: LUST Program** (* required)

| For Remediation documents: | For PCB/LUST documents: |
|---|---|
| Primary Program*: Select a Program | UST Facility ID: 170-8475 (if applicable) |
| Rem ID*: | Spill Case Number: 1989-03058 (if known) |

**Part II: Site Information**

Site Name*: Madison Area Work Center
Site Address*: 135 New Road
City/Town*: Madison State: CT Zip Code: 06443

Secondary Programs (complete as many as applicable for this document):

| | |
|---|---|
| Program: Other Remediation Program | Project ID: 5836 |
| Program: Select Secondary Program | Project ID: |
| Program: Select Secondary Program | Project ID: |
| Program: Select Secondary Program | Project ID: |

Provide Project ID for each secondary program if it is known.
Each program has a unique ID (i.e. Rem ID, Spill Case #, UST Facility ID, etc.)

**Part III: Document Information** (document type required for appropriate program[s] only)

Remediation*:
LUST/PCB*: Tank Closure Assessment Report/UST Closure Report
Date of Document*: Select Date Version: Final

**Part IV: Submitter Information**

Name*: Michael C. DeGloria
E-mail*: MDeGloria@gesonline.com
Name of company/business this document is being submitted on behalf of: *
Eversource Energy Service Company

Eversource Energy Service Company

# Leaking Underground Storage Tank Closure Report

Madison Area Work Center
135 New Road
Madison, Connecticut
UST ID # 170-8475
LUST ID #31668

March 14, 2025

**Leaking Underground Storage Tank Closure Report**

Madison Area Work Center
135 New Road
Madison, Connecticut
UST ID #170-8475
LUST ID #31668

Prepared for:
Eversource Energy Service Company
107 Selden Street
Berlin, CT 06037

Prepared by:
Groundwater & Environmental Services, Inc.
100 Sebethe Drive, Unit 8-A
Cromwell, CT 06416
TEL: 800-220-6119
www.gesonline.com

GES Project:
1503708

Date:
March 14, 2025

Michael DeGloria

Digitally signed by Michael DeGloria
Date: 2025.03.14 14:55:18 -04'00'

Michael DeGloria, PG
Principal Project Manager

Timothy Burke, LEP
Principal Geologist

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# 1 Introduction

Groundwater & Environmental Services, Inc. (GES), on behalf of Eversource Energy Service Company, as agent for The Connecticut Light and Power Company (CL&P) dba Eversource Energy (collectively Eversource), has prepared this *Leaking Underground Storage Tank (LUST) Closure Report* for the Madison Area Work Center (AWC) located at 135 New Road, Madison, Connecticut (the Site). The Madison AWC is listed in the Connecticut Department of Energy and Environmental Protection (CTDEEP) database of potentially contaminated properties as a LUST site, LUST ID #31668.

A *Remedial Action Plan*, dated September 30, 2022 (GES), and *Remedial Action Report*, dated December 7, 2023 prepared by GES, were previously submitted to the CTDEEP. These reports detailed the proposed remedial action, which included excavation of gasoline impacted soil, and a detailed description of the completed activities including compliance soil sampling results.

A Site Location Map depicting the Site and local area is included as **Figure 1**.

## 1.1 Purpose

The purpose of this *LUST Closure Report* is to summarize the remedial activities and post-remedial compliance groundwater monitoring conducted in accordance with Connecticut's underground storage tank (UST) regulations and Remediation Standard Regulations (RSRs) in support of closure of LUST ID #31668. The objective of the remedial action was to excavate gasoline impacts associated with historical release(s) from the former USTs to achieve soil compliance with the RSRs. The extent of the impacts was described in the 2022 *Supplemental Subsurface Investigation Report* prepared by GES.

## 1.2 Regulatory Status

The Site is subject to Connecticut's UST regulations, Sections 22a-449(d)-1 through 22a-449(d)-113 of the Regulations of Connecticut State Agencies (RCSA), which require investigation and remediation of releases of regulated substances, including petroleum products, to soil and groundwater. The RSRs, Sections 22a-133k-1 through 22a-133k-3 of the RCSA, apply to any action taken to remediate polluted soil, surface water, or groundwater at or emanating from a release area where action is required by law or order of the Commissioner.

# 2 Environmental Setting

## 2.1 Site Description and Use

The Site is located to the north of New Road and approximately 0.25-miles northwest of Interstate 95 in an area of mixed industrial and residential use. The Site is situated on a parcel of land that totals 37.98 acres and is currently owned by CL&P. The Site is utilized as an area work center, which serves as a staging area for service trucks and supplies for electric distribution in the area.

Current improvements/operations include office space, a service garage for fleet trucks, a utility pole storage area, a transformer storage area (new and used transformers), a storage area for cable supplies for electric distribution, parking areas, and lawn. The office space is occupied by Eversource and by Colliers International, a real estate management services company.

Site operations historically included service truck refueling activities that ceased in 1993 with the removal of the USTs. Tank removal documentation is included in **Appendix A**. A remediation system, consisting of four recovery wells (RW-1 through RW-4), an air stripper, granular activated carbon, and an infiltration gallery for groundwater reinjection was installed in 1991 and operated through November of 2022.

A site map depicting the pertinent Site features is included as **Figure 2**.

## 2.2 Physical Setting

### 2.2.1 Topography

According to the USGS *7.5-Minute Series Topographic Quadrangle for Clinton, Connecticut* (USGS, 1984) included as **Figure 1**, the Site is located at approximately 55 feet above mean sea level. Based on Site reconnaissance observations, topography at the Site slopes gently to the southeast towards New Road.

### 2.2.2 Surface Water

Based on the South-Central Regional Council of Governments (SCRCOG) online regional Geographic Information System (GIS) resources (accessed March 9, 2021), there are no observed surface water bodies located on the Site. The closest surface water body is an unnamed wetland located approximately 260 feet south of the Site.

Within an approximate 0.5-mile (2,640 feet) radius of the Site, the following surface water bodies and wetlands were identified:

- Wetlands located approximately 260 feet south
- Hammonasset River located approximately 1,560 feet northeast
- Fence Creek located approximately 1,590 feet west
- Hummers Pond located approximately 2,380 feet southwest
- Horse Pond located approximately 2,640 feet northwest
- Various wetlands located to the northwest, northeast, east, southwest and west

According to the National Flood Insurance Program (NFIP) Flood Insurance Rate Map (FIRM) Panel 0512J for New Haven County, Connecticut, the Site is not located within a special flood hazard area (SFHA) subject to inundation by the 1% annual chance flood.

### 2.2.3 Groundwater Classification

According to the Water Quality Classifications Map Madison, CT (CTDEEP 2018), the Site is located in a "GA" area and partially located within a final aquifer protection area (Level A), where groundwater is classified as "GA" and where CTDEEP anticipates reclassifying the groundwater as "GAA" in the future. Designated uses for groundwater classified as GA include existing private and potential public or private supplies of water suitable for drinking without treatment, and baseflow for hydraulically connected surface water bodies. The GAA groundwater classification is designated for use as existing or potential public water supply suitable for drinking without treatment and baseflow for hydraulically connected surface water bodies. A final aquifer protection area contributes groundwater to active public water supply wells or well fields that serve more than 1,000 people and are set in sand and gravel aquifers.

### 2.2.4 Geology

According to the *Surficial Materials Map of Connecticut* (Stone et al., 1992), the Site is situated at the boundary of two surficial geologic units. This first unit is described as a sand unit composed of coarse to fine sands, commonly occurring in well-sorted layers. The coarse layers may contain granule to pebble size gravel; the fine layers may consist of the fine sands, silts, and clays associated with delta foreset beds, distal fluvial deposits, and/or windblown sediment. The second unit is described as a thin till, generally 10-15 feet thick, which can contain a looser, coarser-grained ablation till, a denser, finer-grained lodgement till, or both.

Surficial geology at the Site has been investigated and described by several consultants, including Geologic Company, Leggette, Brashears, & Graham, Inc. (LBG), and Weston & Sampson. The boring logs prepared by Geologic Company and LBG describe the presence of glacial till to a depth of approximately 15 feet below grade (fbg). Soil descriptions from the three companies are generally consistent with the ablation till unit described by Stone et al. (1992), with the exception that Geologic Company reported the presence of cobbles in many of the boring locations. LBG's 1990 recovery well and monitoring well logs indicated the till described in different locations as clay and fine sand or sand and gravel. These logs also describe small-scale layering in several of the borings. The blow counts recorded on the boring logs prepared by Geologic Company and LBG, and the layering described in LBG's logs, support the conclusion that the ablation till is the predominant surficial geologic unit at the Site.

According to the *Bedrock Geologic Map of Connecticut* (Rogers, 1985), the bedrock underlying the Site is the Waterford Group, a light to dark medium-grained gneiss.

Based on the findings of the 2019 and 2021 subsurface investigations performed by GES, and historical Site findings, overburden soils within the investigation areas are present at depths ranging from 8-18 fbg with bedrock encountered at approximately 14-15 fbg. During the 2021 supplemental subsurface investigation, weathered bedrock was observed at bedrock well locations BR-1 and BR-2 at approximately 18 to 33 fbg (BR-1) and 14 to 27 fbg (BR-2). Competent bedrock was observed at 33 fbg (BR-1) and 27 fbg (BR-2).

### 2.2.5 Hydrogeology

Overburden groundwater flow, based on measurements collected between December of 2022 and October 2024 after permanent shutdown of the groundwater recovery and treatment system, is interpreted to be primarily to the south. An average hydraulic gradient of 0.027 feet per foot (ft/ft) was calculated based on data collected between January and October of 2024. Groundwater Monitoring Maps illustrating groundwater flow direction and gradient during the January, April, July and October sample events are included as **Figure 3** through **Figure 6**. The average depth to groundwater was 11.13 feet based on measurements collected between January and October of 2024. A summary of the groundwater gauging and elevation data is provided on **Table 1.**

# 3 Site Background

## 3.1 Description of Release

Petroleum constituents were present in soil and groundwater at the Site due to a release(s) from historical USTs identified as C3, D4 and E5, that were formerly utilized for refueling fleet vehicles. The location of the historical USTs is depicted on **Figure 2**. A release from the UST system was first identified during a soil gas survey and monitoring well installation and sampling event completed in August 1989. Impacted soil was encountered during excavation along the vent line of the 10,000-gallon unleaded gasoline UST E5 on August 29, 1989. An excavation along the end of UST E5 revealed evidence of a release under the UST. The release was reported to CTDEEP and spill #1989-03058 and LUST ID #31668 were assigned to the Site. Removal of UST E5 and excavation of surrounding soil was conducted on August 31, 1989 in compliance with Section 22a-449(d)-1(j)(3) of the UST regulations requiring cleanup of releases of oil or petroleum liquids. A 1992 report prepared by Northeast Utilities Service Company (NUSCO, a predecessor Eversource company) detailing a soil venting system proposed for the Madison AWC documented the removal of approximately 10 cubic yards of gasoline-impacted soil generated during removal of 10,000-gallon gasoline tank C3. Laboratory results from soil samples collected from the bottom of the excavation indicated the presence of elevated levels of toluene, ethylbenzene, and xylene. No other information related to the volume of soil removed, remaining soil quality, or regulatory involvement was located.

## 3.2 Previous Remedial Activities

A groundwater recovery and treatment system was installed in 1991 to address the release discovered in 1989. Between 1992 and 1998, a soil venting and portable air sparging system was operated at select wells to reduce the adsorbed-phase and dissolved-phase impacts associated with monitoring wells outside of the recovery well network. According to the January 1999 *Status Report* prepared by NUSCO, the sparge/vent system removed 410 gallons of gasoline throughout its operation. The system was deactivated for the winter on October 20, 1998, and due to low vapor-phase recovery was ultimately removed from the Site. The groundwater recovery and treatment system malfunctioned in November 2022 and remained offline in anticipation of initiating the RAP activities.

### 3.3 Supplemental Investigation and Remedial Planning

In December 2020, GES completed a review of the initial system design and installation reports, discharge monitoring reports, site investigation report, data tables, and well construction logs provided by Eversource and concluded that impacted soil and groundwater remained in the central portion of the former UST area. GES conducted supplemental subsurface investigations in 2021 and 2022 to delineate impacts and evaluate potential remedial strategies to bring the Site into compliance with the RSRs. A remedial action plan was submitted in September 2022 recommending excavation as the most cost-effective remedial approach.

## 4 Remedial Goal

Sections 22a-449(d)-1(j)(3) and 22a-449(d)-105(b)(2) of the UST regulations require cleanup of releases of oil or petroleum liquids "… to the satisfaction of the commissioner," which CTDEEP has publicly stated means compliance with the RSRs. The remedial goal was to reduce contaminant concentrations in soil to levels below RSR or Additional Polluting Substance (APS) numeric criteria such that active groundwater remediation would not be required to achieve compliance. The criteria that pertain to the remediation of soil include the GA Pollutant Mobility Criteria (GA PMC) and Residential Direct Exposure Criteria (RDEC). The criteria that pertain to groundwater include the Groundwater Protection Criteria (GWPC), Surface Water Protection Criteria (SWPC), and the Residential Volatilization Criteria (Res Vol).

## 5 Remedial Action

Soil excavation was selected as the recommended remedial approach because the extent of soil impacts was well defined, readily accessible using standard construction equipment, and capable of meeting the previously stated remedial goals. Public notice was completed prior to remediation in accordance with RSR requirements. A detailed description of the remedial excavation was included in the *Remedial Action Report* (RAR) prepared by GES and submitted to the CTDEEP on December 7, 2023. The remedial actions are summarized below.

### 5.1 Excavation

True Blue Environmental Inc. of Wallingford, Connecticut (True Blue) conducted the remedial excavation between June 27 and September 22, 2023 under the direction of a GES supervisor. Soil was excavated to the bedrock surface from two target areas: Excavation Area A, which was completed in a series of cells, and Excavation Area B **(Figure 7).** The proposed extent of excavations was based on investigations completed by Weston & Sampson in 2019 and GES in 2022 as detailed in the RAP. The actual extent of excavation was based on field observations and the analytical data from confirmatory soil samples collected during the soil removal process. Soil between approximately 8 fbg to the top of bedrock (approximately 15 fbg) was excavated and transported to Ondrick Materials & Recycling, LLC of Chicopee, Massachusetts (Ondrick). Deep and shallow confirmatory endpoint soil samples were collected from the final excavation sidewalls

to evaluate post-excavation conditions. The extent of the Area A excavation expanded to the limits illustrated on **Figure 7**.

In Excavation Area B, two test pits, Test Pit D and Test Pit E, were advanced to the top of bedrock located between 9.5 feet and 12.5 feet below grade. Impacted soil, evaluated through field screening and laboratory analyses, was not encountered. The location of the test pits are illustrated on **Figure 7**.

A total of 4,679.02 tons of gasoline-impacted soil was transported to Ondrick for recycling. Copies of the soil manifests are included as Appendix E of the RAR. A photographic log illustrating RAR activities is included as Appendix D of the RAR.

### 5.2 Dewatering

Dewatering was only necessary during storm events, during which stormwater collected within the excavation. Dewatering sumps were installed and maintained as the excavation progressed. Stormwater was pumped into fractionation tanks for temporary storage. Approximately 143,000 gallons of stormwater was recovered and transported by True Blue to Tradebe Environmental Services, of Bridgeport, Connecticut and/or Recycling NE, LLC for treatment during remedial excavation activities. Copies of the water disposal documentation are included as Appendix F of the RAR.

### 5.3 Backfill & Compaction

Backfill consisted of either ¾ inch washed stone or 2-inch processed stone placed from the bedrock contact to approximately 9 feet below grade. Filter fabric was placed over the ¾ inch washed stone and backfilled with the stockpiled clean soil. Additional 2-inch processed stone was used to complete backfill to grade. Compaction was achieved using a vibratory roller compaction machine in no more than 2-foot lifts. Asphalt repaving was completed as final restoration, on November 30, 2023.

## 6 Confirmatory Soil Sampling Results

Confirmatory post-excavation endpoint soil samples were collected at approximate 20-foot intervals and submitted to Eurofins Environment Testing New England of North Kingston, Rhode Island (Eurofins) for analyses of VOCs using United States Environmental Protection Agency (EPA) Method 8260. A total of 51 samples from 26 locations were collected from the excavation sidewalls at deep and shallow locations to demonstrate compliance with applicable criteria. The deep sample collection points were near the bedrock and soil interface with shallow samples collected from several feet above the bedrock and soil interface.

Laboratory results of confirmatory samples demonstrate compliance with the RDEC and GA PMC at each of the 51 sampling locations. Forty samples did not contain VOCs above the respective laboratory reporting limits, with 11 samples containing one or more VOC detections. These

detections ranged from 0.00418 milligrams per kilogram (mg/kg) of Trichlorofluoromethane at CS-25S to 0.385 mg/kg of Acetone at CS-7D. Acetone is a recognized laboratory contaminant.

A summary of the soil compliance data is provided on **Table 2** and illustrated on **Figure 7**. A copy of the Eurofins laboratory reports was included as Appendix C of the RAR. In accordance with CTDEEP Reasonable Confidence Protocols (RCP), a Data Quality Assessment (DQA) and a Data Usability Evaluation (DUE) was completed for the soil analytical data associated with this remediation and included as Appendix G of the RAR.

# 7 Post Remedial Activities

## 7.1 Monitoring Well Replacement

Two replacement monitoring wells were installed by a Connecticut licensed driller. Each well was constructed as a 2-inch diameter monitoring well set with a pre-packed 10 slot screen from approximately 15 to 5 fbg, a bentonite seal, and sand to six-inches below grade. Each well was completed to grade with riser pipe, locking expansion cap, and road box embedded in a concrete pad. The replacement monitoring wells were designated with the following identifications, MW-1R and MW-13R, which reflect the proximity to former parent wells MW-1 and MW-13. The replacement wells were located within the backfilled excavation; therefore, soil samples were not collected. Each monitoring well was be developed until relatively free of sediment. A Site Map showing current site features is included as **Figure 2.**

## 7.2 Compliance Groundwater Monitoring

Post-remediation compliance groundwater monitoring was performed on a quarterly basis for a period of one year, which began in January 2024. The post-remedial compliance events included the collection of groundwater samples from up to fifteen monitoring wells: MW-1R, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-12, MW-13R, MW-15, MW-16, MW-17, MW-18, and MW-23, as shown on **Figure 2**. Samples were collected from the wells using low flow sampling methods and were analyzed for VOCs by EPA method 8260. Groundwater samples were not collected from MW-18 or MW-23 during the October event due to insufficient groundwater volume. Results from nearby monitoring wells MW-6, MW-16 and MW-17, and MW-3, MW-4 and MW-12 were used to demonstrate compliance in monitoring wells MW-18 and MW-23, respectively, in lieu of a fourth sample set from MW-18 and MW-23.

# 8 Groundwater Compliance Sampling Results

Analytical results from 58 groundwater samples collected from 15 monitoring wells were used to evaluate post-remedial groundwater quality. Laboratory results from the groundwater sample analysis demonstrate RSR compliance at each of the 15 sampling locations. Forty samples did not contain VOCs above the respective laboratory reporting limits, with 18 samples containing one or more VOC detections. These detections ranged from 1.04 microgram per liter (µg/L) of p-Isopropyltoluene at MW-3 to 77.4 µg/L of n-Propylbenzene at MW-3. Two samples contained

Chloroform at 7.67 µg/L at MW-2 and 9.37 µg/L at MW-13R above the GWPC; however, this compound is not associated with a gasoline release.

A summary of the groundwater compliance data is provided on **Table 3** and illustrated on **Figure 3** through **Figure 6**. The Eurofins laboratory reports are included as **Appendix B.**

## 9 Data Quality Assessment / Data Usability Evaluation

In accordance with RCP, a DQA and a DUE have been completed for the groundwater analytical data associated with the monitoring events. The data quality objectives were to produce representative data of sufficient quantity and quality to evaluate compliance with the RSRs. The samples collected during the compliance groundwater monitoring events were property preserved, submitted with an accurate and complete chain of custody, and analyzed within the recommended method holding times.

Eurofins followed the RCP guidelines for laboratory preparation and reporting standards that produced data that were in compliance with RCP criteria. No data was reported outside of the RCP criteria, and DQOs were met. Therefore, the data is usable for the intended purpose. The DQA and DUE reports are included as **Appendix C.**

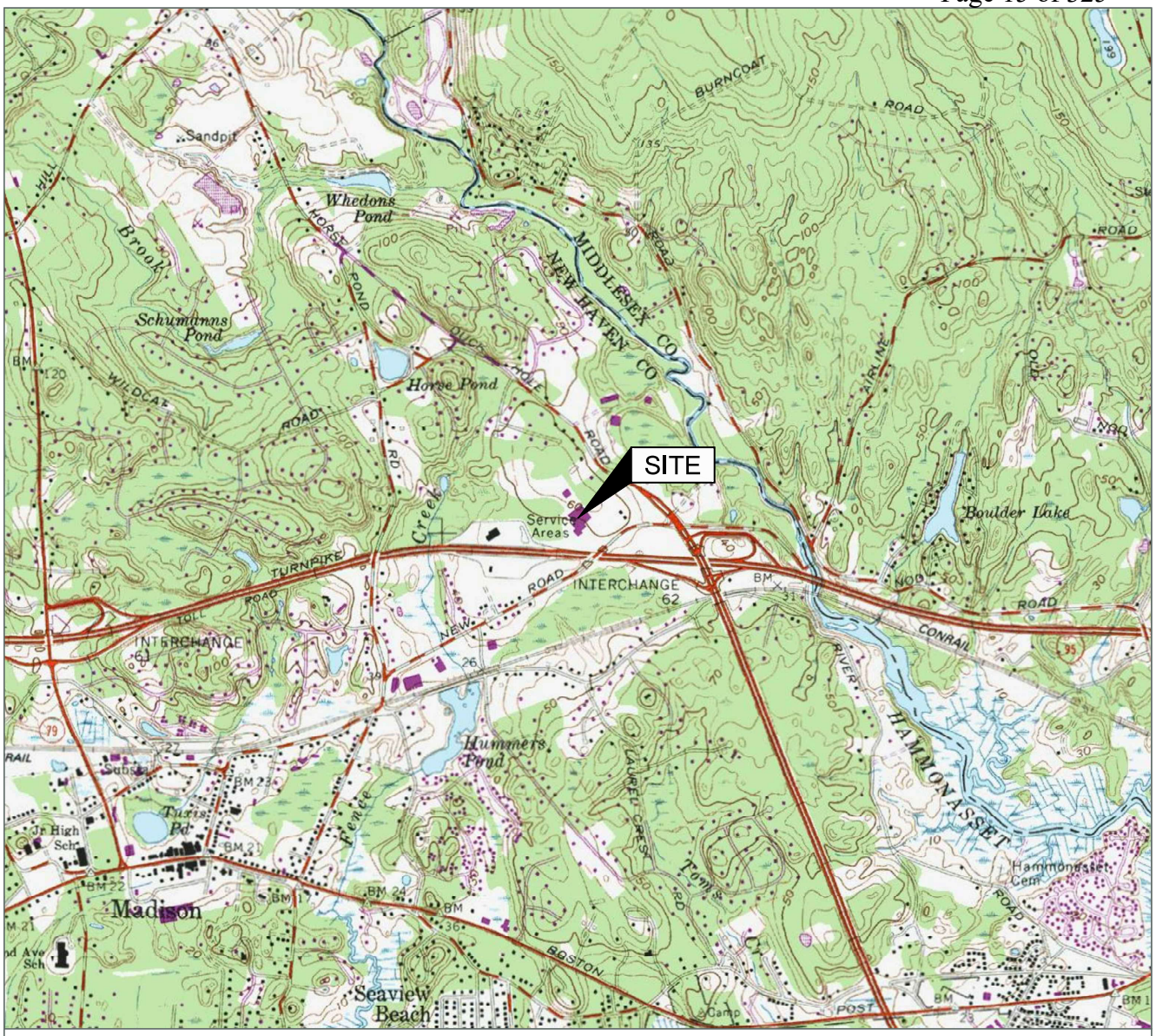
## 10 Summary & Conclusion

Excavation was selected as the remedial approach to address soil impacts associated with the former gasoline UST area because the extent of the release was well defined and the impacted soil was readily accessible through standard construction means and methods. Results from the post-excavation confirmation soil sampling demonstrate that most gasoline constituents were below the laboratory reporting limits; detected concentrations of gasoline constituents were below RDEC and GA PMC.

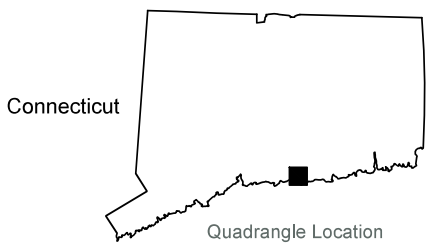
Post-remedial groundwater monitoring was conducted over four consecutive seasonal quarters during 2024, following the installation of two replacement wells (MW-1R and MW-13R). Compliance groundwater sampling results demonstrate that substances associated with the historical gasoline release have been reduced to concentrations below the GWPC, Res Vol, and SWPC.

On the basis of the data and information presented herein, it is GES' opinion that the former USTs were closed properly, and that soil and groundwater associated with the historical gasoline release have been investigated and remediated incompliance with the UST regulations and the RSRs. We therefore respectfully request closure of LUST ID #31668.

# Figures




Source:
USGS 7.5 Minute Series
Topographic Quadrangle, 1984
Clinton, Connecticut
Contour Interval = 10'




Site Location Map

Eversource Energy
Madison Connecticut Area Work Center
135 New Road
Madison, Connecticut

Drawn W.G.S.
Designed
Approved
Date 2/22/21
Figure 1

Scale In Feet
0 2000

Groundwater & Environmental Services, Inc.

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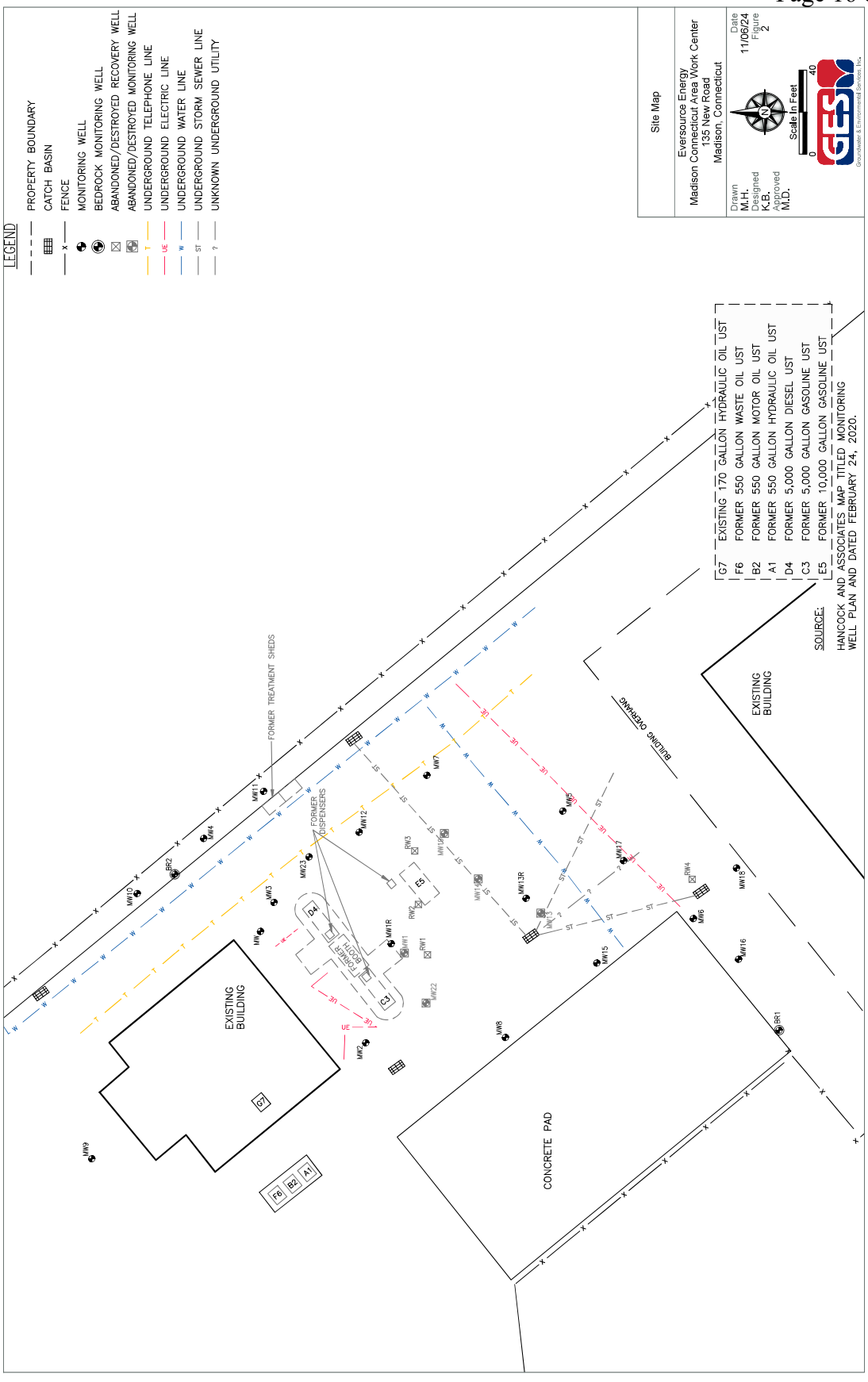
LEGEND
PROPERTY BOUNDARY
CATCH BASIN
FENCE
MONITORING WELL
BEDROCK MONITORING WELL
ABANDONED/DESTROYED RECOVERY WELL
ABANDONED/DESTROYED MONITORING WELL
UNDERGROUND TELEPHONE LINE
UNDERGROUND ELECTRIC LINE
UNDERGROUND WATER LINE
UNDERGROUND STORM SEWER LINE
UNKNOWN UNDERGROUND UTILITY
G7 EXISTING 170 GALLON HYDRAULIC OIL UST
F6 FORMER 550 GALLON WASTE OIL UST
B2 FORMER 550 GALLON MOTOR OIL UST
A1 FORMER 550 GALLON HYDRAULIC OIL UST
D4 FORMER 5,000 GALLON DIESEL UST
C3 FORMER 5,000 GALLON GASOLINE UST
E5 FORMER 10,000 GALLON GASOLINE UST
SOURCE: HANCOCK AND ASSOCIATES MAP TITLED MONITORING WELL PLAN AND DATED FEBRUARY 24, 2020.
EXISTING BUILDING
BUILDING OVERHANG
CONCRETE PAD
FORMER TREATMENT SHEDS
FORMER DISPENSERS
TOWER BOOTH
Site Map
Eversource Energy
Madison Connecticut Area Work Center
135 New Road
Madison, Connecticut
Drawn M.H.
Designed K.B.
Approved M.D.
Scale In Feet 0 40
Date 11/06/24
Figure 2
GES
Groundwater & Environmental Services, Inc.
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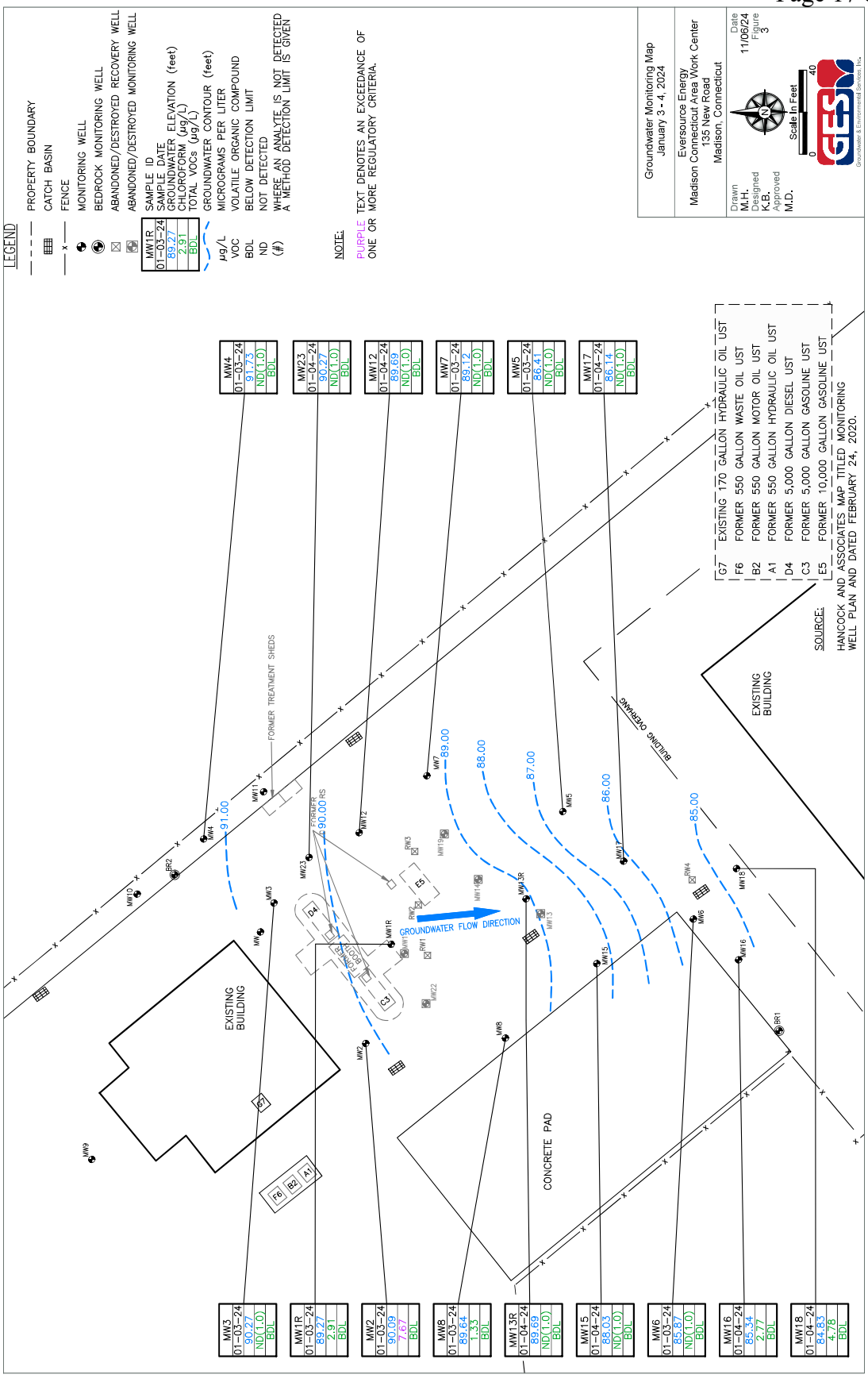
LEGEND
PROPERTY BOUNDARY
CATCH BASIN
FENCE
MONITORING WELL
BEDROCK MONITORING WELL
ABANDONED/DESTROYED RECOVERY WELL
ABANDONED/DESTROYED MONITORING WELL
MW1R
01-03-24
89.27
2.91
BDL
SAMPLE ID
SAMPLE DATE
GROUNDWATER ELEVATION (feet)
CHLOROFORM (µg/L)
TOTAL VOCs (µg/L)
GROUNDWATER CONTOUR (feet)
µg/L MICROGRAMS PER LITER
VOC VOLATILE ORGANIC COMPOUND
BDL BELOW DETECTION LIMIT
ND NOT DETECTED
(#) WHERE AN ANALYTE IS NOT DETECTED A METHOD DETECTION LIMIT IS GIVEN
NOTE:
PURPLE TEXT DENOTES AN EXCEEDANCE OF ONE OR MORE REGULATORY CRITERIA.
Groundwater Monitoring Map
January 3 - 4, 2024
Eversource Energy
Madison Connecticut Area Work Center
135 New Road
Madison, Connecticut
Drawn M.H.
Designed K.B.
Approved M.D.
Date 11/06/24
Figure 3
Scale In Feet
0
40
G7 EXISTING 170 GALLON HYDRAULIC OIL UST
F6 FORMER 550 GALLON WASTE OIL UST
B2 FORMER 550 GALLON MOTOR OIL UST
A1 FORMER 550 GALLON HYDRAULIC OIL UST
D4 FORMER 5,000 GALLON DIESEL UST
C3 FORMER 5,000 GALLON GASOLINE UST
E5 FORMER 10,000 GALLON GASOLINE UST
SOURCE:
HANCOCK AND ASSOCIATES MAP TITLED MONITORING WELL PLAN AND DATED FEBRUARY 24, 2020.
MW4 01-03-24 91.73 ND(1.0) BDL
MW23 01-04-24 90.27 ND(1.0) BDL
MW12 01-04-24 89.69 ND(1.0) BDL
MW7 01-03-24 89.12 ND(1.0) BDL
MW5 01-03-24 86.41 ND(1.0) BDL
MW17 01-04-24 86.14 ND(1.0) BDL
MW3 01-03-24 90.27 ND(1.0) BDL
MW1R 01-03-24 89.27 2.91 BDL
MW2 01-03-24 90.09 7.67 BDL
MW8 01-03-24 89.64 1.33 BDL
MW13R 01-04-24 89.69 ND(1.0) BDL
MW15 01-04-24 88.03 ND(1.0) BDL
MW6 01-03-24 85.87 ND(1.0) BDL
MW16 01-04-24 85.34 2.77 BDL
MW18 01-04-24 84.83 4.78 BDL
91.00
90.00
89.00
88.00
87.00
86.00
85.00
GROUNDWATER FLOW DIRECTION
EXISTING BUILDING
EXISTING BUILDING
CONCRETE PAD
FORMER TREATMENT SHEDS
BUILDING OVERHANG
FORMER FOOTPRINT
MW1 MW1R MW2 MW3 MW3R MW4 MW5 MW6 MW7 MW8 MW9 MW10 MW11 MW12 MW13 MW15 MW16 MW17 MW18 MW19 MW22 MW23
RW1 RW2 RW3 RW4
BR1 BR2
A1 B2 C3 D4 E5 F6 G7
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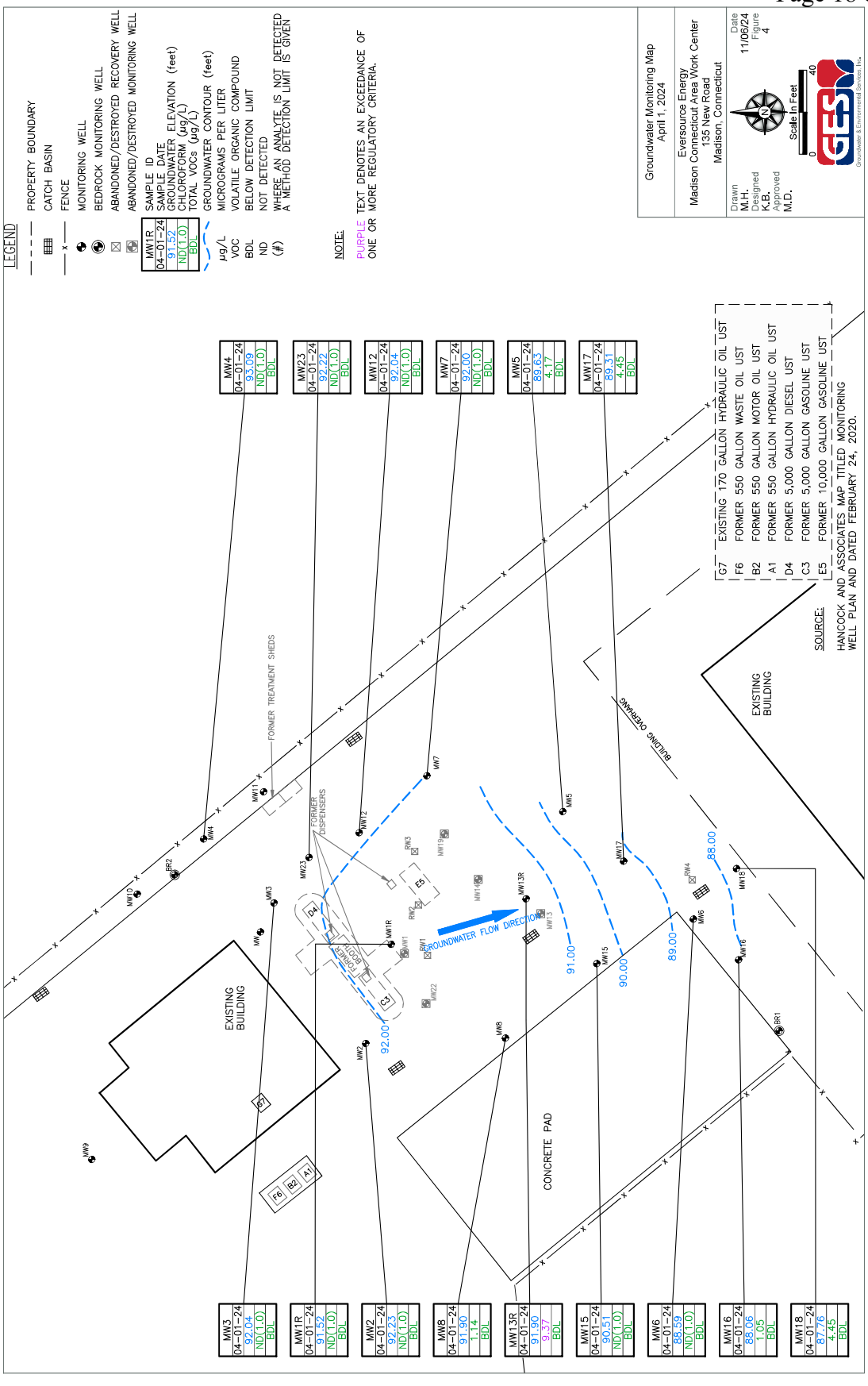


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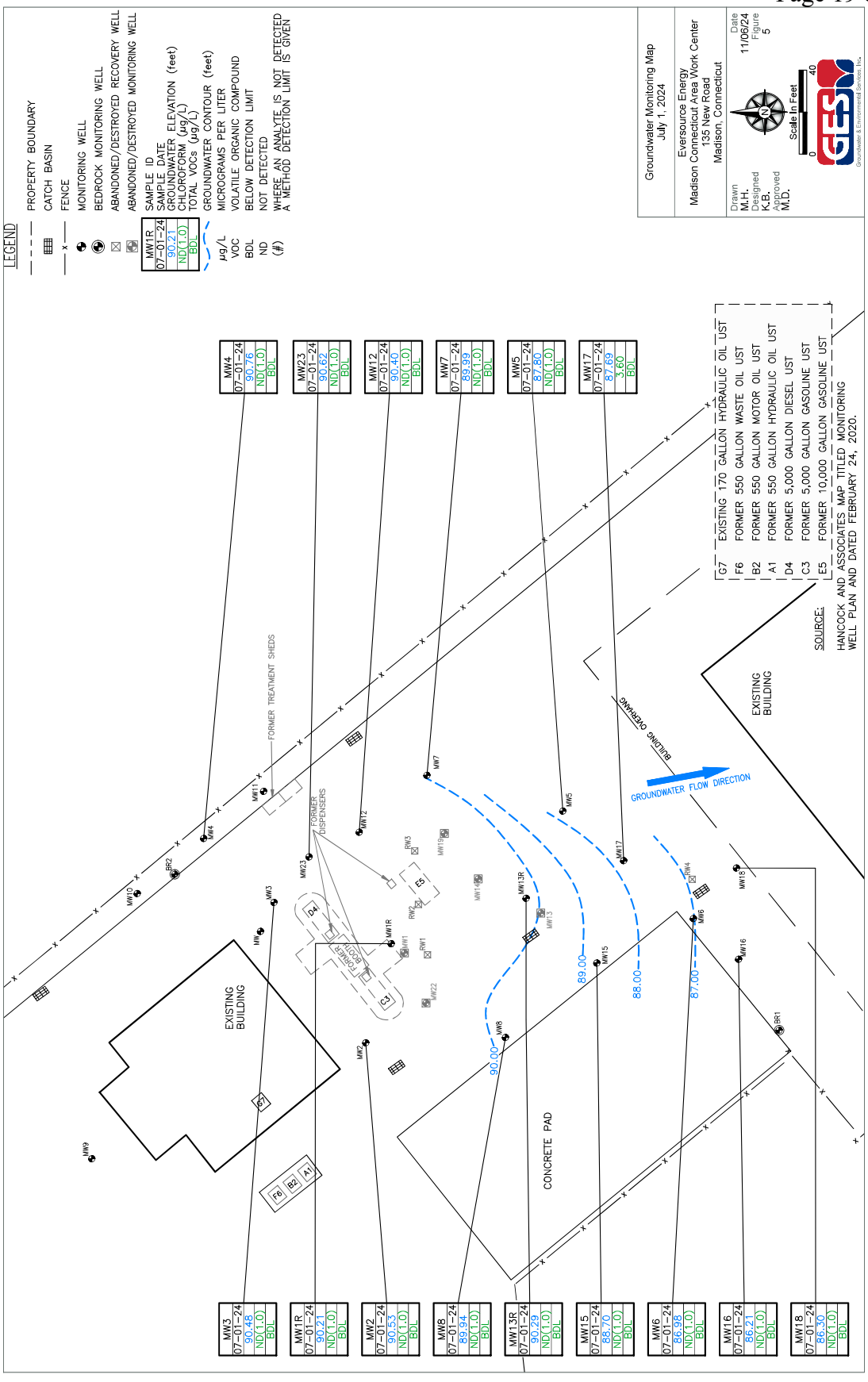
LEGEND
PROPERTY BOUNDARY
CATCH BASIN
FENCE
MONITORING WELL
BEDROCK MONITORING WELL
ABANDONED/DESTROYED RECOVERY WELL
ABANDONED/DESTROYED MONITORING WELL
MW1R
07-01-24
90.21
ND(1.0)
BDL
SAMPLE ID
SAMPLE DATE
GROUNDWATER ELEVATION (feet)
CHLOROFORM (µg/L)
TOTAL VOCs (µg/L)
GROUNDWATER CONTOUR (feet)
µg/L MICROGRAMS PER LITER
VOC VOLATILE ORGANIC COMPOUND
BDL BELOW DETECTION LIMIT
ND NOT DETECTED
(#) WHERE AN ANALYTE IS NOT DETECTED A METHOD DETECTION LIMIT IS GIVEN
Groundwater Monitoring Map
July 1, 2024
Eversource Energy
Madison Connecticut Area Work Center
135 New Road
Madison, Connecticut
Drawn M.H.
Designed K.B.
Approved M.D.
Date 11/06/24
Figure 5
Scale In Feet
0
40
G7 EXISTING 170 GALLON HYDRAULIC OIL UST
F6 FORMER 550 GALLON WASTE OIL UST
B2 FORMER 550 GALLON MOTOR OIL UST
A1 FORMER 550 GALLON HYDRAULIC OIL UST
D4 FORMER 5,000 GALLON DIESEL UST
C3 FORMER 5,000 GALLON GASOLINE UST
E5 FORMER 10,000 GALLON GASOLINE UST
SOURCE: HANCOCK AND ASSOCIATES MAP TITLED MONITORING WELL PLAN AND DATED FEBRUARY 24, 2020.
MW4 07-01-24 90.76 ND(1.0) BDL
MW23 07-01-24 90.62 ND(1.0) BDL
MW12 07-01-24 90.40 ND(1.0) BDL
MW7 07-01-24 89.39 ND(1.0) BDL
MW5 07-01-24 87.80 ND(1.0) BDL
MW17 07-01-24 87.69 3.60 BDL
MW3 07-01-24 90.48 ND(1.0) BDL
MW1R 07-01-24 90.21 ND(1.0) BDL
MW2 07-01-24 90.53 ND(1.0) BDL
MW8 07-01-24 89.94 ND(1.0) BDL
MW13R 07-01-24 90.29 ND(1.0) BDL
MW15 07-01-24 88.70 ND(1.0) BDL
MW6 07-01-24 86.98 ND(1.0) BDL
MW16 07-01-24 86.21 ND(1.0) BDL
MW18 07-01-24 86.30 ND(1.0) BDL
EXISTING BUILDING
CONCRETE PAD
FORMER TREATMENT SHEDS
FORMER DISPENSERS
BUILDING OVERHANG
GROUNDWATER FLOW DIRECTION
89.00
88.00
87.00
90.00
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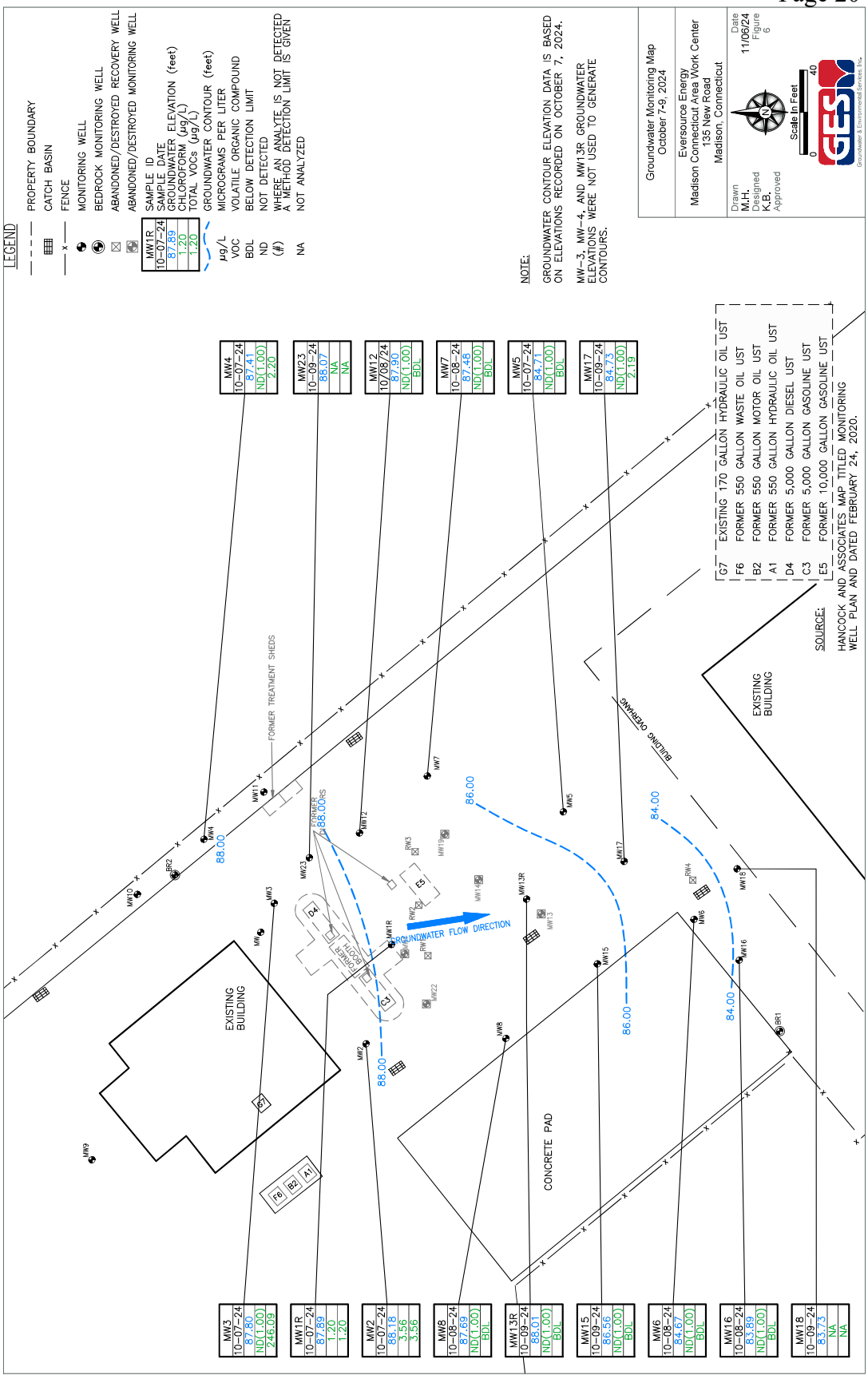


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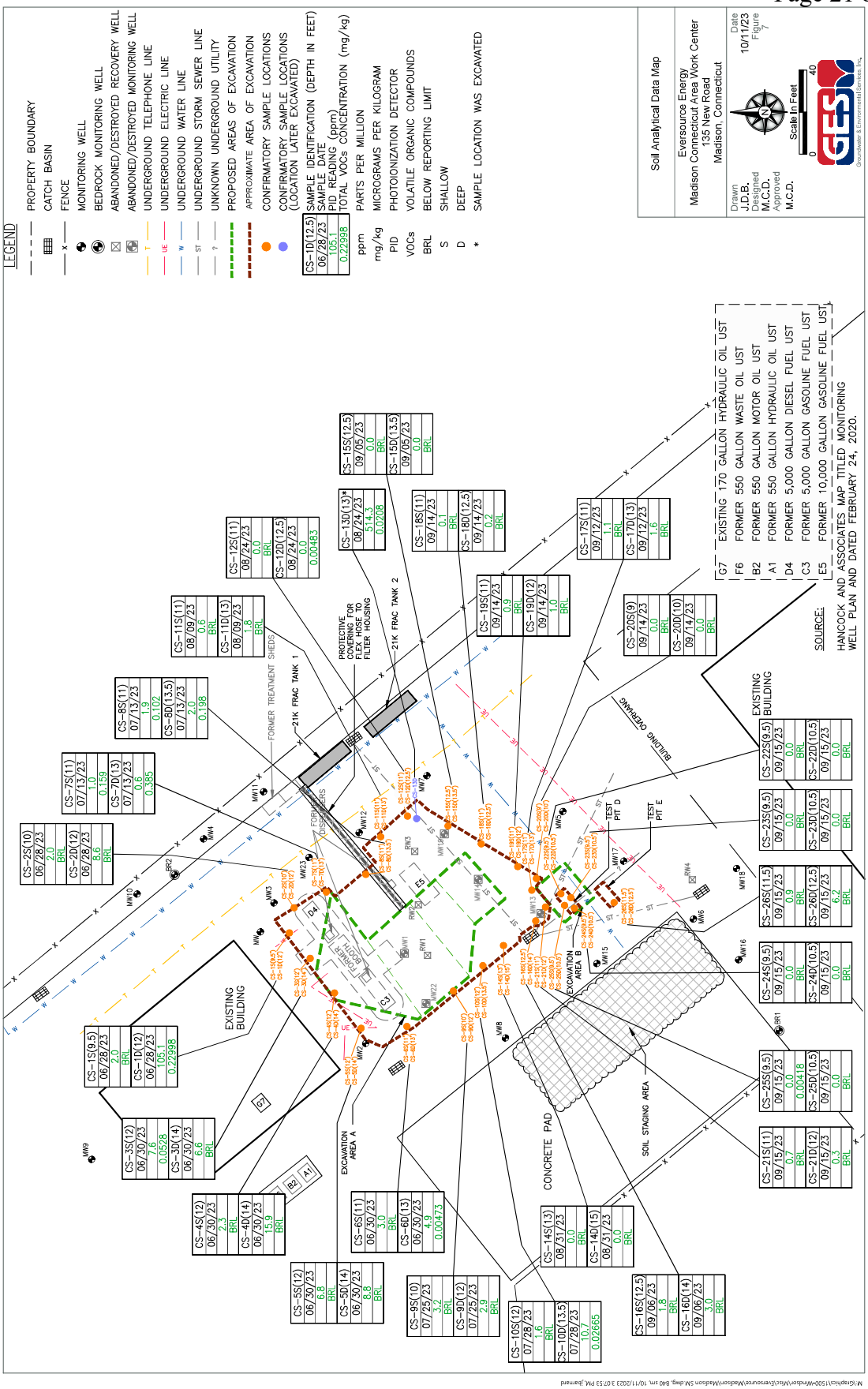
LEGEND
PROPERTY BOUNDARY
CATCH BASIN
FENCE
MONITORING WELL
BEDROCK MONITORING WELL
ABANDONED/DESTROYED RECOVERY WELL
ABANDONED/DESTROYED MONITORING WELL
UNDERGROUND TELEPHONE LINE
UNDERGROUND ELECTRIC LINE
UNDERGROUND WATER LINE
UNDERGROUND STORM SEWER LINE
UNKNOWN UNDERGROUND UTILITY
PROPOSED AREAS OF EXCAVATION
APPROXIMATE AREA OF EXCAVATION
CONFIRMATORY SAMPLE LOCATIONS
CONFIRMATORY SAMPLE LOCATIONS (LOCATION LATER EXCAVATED)
SAMPLE IDENTIFICATION (DEPTH IN FEET)
SAMPLE DATE
PID READING (ppm)
TOTAL VOCs CONCENTRATION (mg/kg)
PARTS PER MILLION
MICROGRAMS PER KILOGRAM
PHOTOIONIZATION DETECTOR
VOLATILE ORGANIC COMPOUNDS
BELOW REPORTING LIMIT
SHALLOW
DEEP
SAMPLE LOCATION WAS EXCAVATED
G7 EXISTING 170 GALLON HYDRAULIC OIL UST
F6 FORMER 550 GALLON WASTE OIL UST
B2 FORMER 550 GALLON MOTOR OIL UST
A1 FORMER 550 GALLON HYDRAULIC OIL UST
D4 FORMER 5,000 GALLON DIESEL FUEL UST
C3 FORMER 5,000 GALLON GASOLINE FUEL UST
E5 FORMER 10,000 GALLON GASOLINE FUEL UST
SOURCE: HANCOCK AND ASSOCIATES MAP TITLED MONITORING WELL PLAN AND DATED FEBRUARY 24, 2020.
Soil Analytical Data Map
Eversource Energy
Madison Connecticut Area Work Center
135 New Road
Madison, Connecticut
Drawn J.D.B.
Designed M.C.D.
Approved M.C.D.
Date 10/11/23
Figure 7
Scale In Feet 0 40
21K FRAC TANK 1
21K FRAC TANK 2
PROTECTIVE COVERING FOR FLEX HOSE TO FILTER HOUSING
FORMER TREATMENT SHEDS
FORMER DISPENSERS
FORMER BOOTH
EXISTING BUILDING
BUILDING OVERHANG
EXCAVATION AREA A
EXCAVATION AREA B
CONCRETE PAD
SOIL STAGING AREA
TEST PIT D
TEST PIT E

# Tables

*Leaking Underground Storage Tank Closure Report*
*Madison Area Work Center*
*135 New Road, Madison, CT*

**Table 1**

**Groundwater Gauging and Elevation Data**

| Well ID | Date | Top of Casing Elevation feet | Depth to Water feet | Water Table Elevation feet |
|---|---|---|---|---|
| MW-1R | 1/3/2024 | 99.01 | 9.74 | 89.27 |
| | 4/1/2024 | | 7.49 | 91.52 |
| | 7/1/2024 | | 8.80 | 90.21 |
| | 10/7/2024 | | 11.12 | 87.89 |
| MW-2 | 1/3/2024 | 99.01 | 8.92 | 90.09 |
| | 4/1/2024 | | 6.78 | 92.23 |
| | 7/1/2024 | | 8.48 | 90.53 |
| | 10/7/2024 | | 10.83 | 88.18 |
| MW-3 | 1/3/2024 | 99.60 | 9.33 | 90.27 |
| | 4/1/2024 | | 7.56 | 92.04 |
| | 7/1/2024 | | 9.12 | 90.48 |
| | 10/7/2024 | | 11.80 | 87.80 |
| MW-4* | 1/3/2024 | 102.51 | 10.78 | 91.73 |
| | 4/1/2024 | | 9.42 | 93.09 |
| | 7/1/2024 | | 11.75 | 90.76 |
| | 10/7/2024 | | 15.10 | 87.41 |
| MW-5 | 1/3/2024 | 99.61 | 13.20 | 86.41 |
| | 4/1/2024 | | 9.98 | 89.63 |
| | 7/1/2024 | | 11.81 | 87.80 |
| | 10/7/2024 | | 14.90 | 84.71 |
| MW-6 | 1/3/2024 | 99.69 | 13.82 | 85.87 |
| | 4/1/2024 | | 11.10 | 88.59 |
| | 7/1/2024 | | 12.71 | 86.98 |
| | 10/7/2024 | | 15.02 | 84.67 |
| MW-7 | 1/3/2024 | 100.26 | 11.14 | 89.12 |
| | 4/1/2024 | | 8.26 | 92.00 |
| | 7/1/2024 | | 10.27 | 89.99 |
| | 10/7/2024 | | 12.78 | 87.48 |
| MW-8 | 1/3/2024 | 99.86 | 10.22 | 89.64 |
| | 4/1/2024 | | 7.96 | 91.90 |
| | 7/1/2024 | | 9.92 | 89.94 |
| | 10/7/2024 | | 12.17 | 87.69 |
| MW-12 | 1/4/2024 | 99.88 | 10.19 | 89.69 |
| | 4/1/2024 | | 7.84 | 92.04 |
| | 7/1/2024 | | 9.48 | 90.40 |
| | 10/7/2024 | | 11.98 | 87.90 |
| MW-13R | 1/4/2024 | 99.02 | 9.33 | 89.69 |
| | 4/1/2024 | | 7.12 | 91.90 |
| | 7/1/2024 | | 8.73 | 90.29 |
| | 10/7/2024 | | 11.01 | 88.01 |
| MW-15 | 1/4/2024 | 99.83 | 11.80 | 88.03 |
| | 4/1/2024 | | 9.32 | 90.51 |
| | 7/1/2024 | | 11.13 | 88.70 |
| | 10/7/2024 | | 13.27 | 86.56 |
| MW-16 | 1/4/2024 | 100.03 | 14.69 | 85.34 |
| | 4/2/2024 | | 11.97 | 88.06 |
| | 7/1/2024 | | 13.82 | 86.21 |
| | 10/7/2024 | | 16.14 | 83.89 |
| MW-17 | 1/4/2024 | 99.59 | 13.45 | 86.14 |
| | 4/1/2024 | | 10.28 | 89.31 |
| | 7/1/2024 | | 11.90 | 87.69 |
| | 10/7/2024 | | 14.86 | 84.73 |
| MW-18 | 1/4/2024 | 100.52 | 15.69 | 84.83 |
| | 4/1/2024 | | 12.76 | 87.76 |
| | 7/1/2024 | | 14.22 | 86.30 |
| | 10/7/2024 | | 16.79 | 83.73 |
| MW-23 | 1/4/2024 | 99.72 | 9.45 | 90.27 |
| | 4/1/2024 | | 7.50 | 92.22 |
| | 7/1/2024 | | 9.10 | 90.62 |
| | 10/7/2024 | | 11.65 | 88.07 |

Notes:
* - Casing extends above grade
NG - Not gauged
NA - Information not available
NM - Not measured

## Table 2

### Soil Compliance Analytical Results

| Analysis | RSR Criteria | | Sample ID: (Depth in feet): | CS-1D (12') | CS-1S (9.5') | CS-2D (12') | CS-2S (10') | CS-3D (14') | CS-3S (12') | CS-4D (14') | CS-4S (12') | CS-5D (14') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RDEC | GA PMC | PID Result: | 105.1 | 2.0 | 8.6 | 2.0 | 6.6 | 7.6 | 15.9 | 2.3 | 8.8 |
| | | | Sample Date: | 06/28/23 | 06/28/23 | 06/28/23 | 06/28/23 | 06/30/23 | 06/30/23 | 06/30/23 | 06/30/23 | 06/30/23 |
| **Volatile Organic Compounds (VOCs) by USEPA Method 8260** | | | | | | | | | | | | |
| Acetone | 500 | 14 | mg/kg | ND (<0.0424) | ND (<0.0358) | ND (<0.0381) | ND (<0.0290) | ND (<0.0578) | 0.0528 | ND (<0.0430) | ND (<0.0467) | ND (<0.0367) |
| 2-Butanone (MEK) | 500 | 8 | mg/kg | ND (<0.00847) | ND (<0.00716) | ND (<0.00762) | ND (<0.00579) | ND (<0.0116) | ND (<0.00792) | ND (<0.00861) | ND (<0.00934) | ND (<0.00734) |
| n-Butylbenzene | [500] | [7.0] | mg/kg | 0.0312 | ND (<0.00716) | ND (<0.00762) | ND (<0.00579) | ND (<0.0116) | ND (<0.00792) | ND (<0.00861) | ND (<0.00934) | ND (<0.00734) |
| sec-Butylbenzene | [500] | [7.0] | mg/kg | 0.0190 | ND (<0.00358) | ND (<0.0381) | ND (<0.00290) | ND (<0.00578) | ND (<0.00396) | ND (<0.00430) | ND (<0.00467) | ND (<0.00367) |
| Ethylbenzene | 500 | 10.1 | mg/kg | 0.00439 | ND (<0.00358) | ND (<0.0381) | ND (<0.00290) | ND (<0.00578) | ND (<0.00396) | ND (<0.00430) | ND (<0.00467) | ND (<0.00367) |
| Isopropylbenzene | [500] | [0.50] | mg/kg | 0.00689 | ND (<0.00358) | ND (<0.0381) | ND (<0.00290) | ND (<0.00578) | ND (<0.00396) | ND (<0.00430) | ND (<0.00467) | ND (<0.00367) |
| p-Isopropyltoluene | [500] | [0.50] | mg/kg | 0.00835 | ND (<0.00358) | ND (<0.0381) | ND (<0.00290) | ND (<0.00578) | ND (<0.00396) | ND (<0.00430) | ND (<0.00467) | ND (<0.00367) |
| Naphthalene | 1,000 | 5.6 | mg/kg | 0.0141 | ND (<0.00358) | ND (<0.0381) | ND (<0.00290) | ND (<0.00578) | ND (<0.00396) | ND (<0.00430) | ND (<0.00467) | ND (<0.00367) |
| n-Propylbenzene | [500] | [1.0] | mg/kg | 0.0251 | ND (<0.00358) | ND (<0.0381) | ND (<0.00290) | ND (<0.00578) | ND (<0.00396) | ND (<0.00430) | ND (<0.00467) | ND (<0.00367) |
| Toluene | 500 | 20 | mg/kg | ND (<0.00424) | ND (<0.00358) | ND (<0.0381) | ND (<0.00290) | ND (<0.00578) | ND (<0.00396) | ND (<0.00430) | ND (<0.00467) | ND (<0.00367) |
| Trichloroethene | 56 | 0.1 | mg/kg | ND (<0.00424) | ND (<0.00358) | ND (<0.0381) | ND (<0.00290) | ND (<0.00578) | ND (<0.00396) | ND (<0.00430) | ND (<0.00467) | ND (<0.00367) |
| Trichlorofluoromethane (Freon 11) | [500] | [20] | mg/kg | ND (<0.00424) | ND (<0.00358) | ND (<0.0381) | ND (<0.00290) | ND (<0.00578) | ND (<0.00396) | ND (<0.00430) | ND (<0.00467) | ND (<0.00367) |
| 1,2,3-Trichloropropane | NE | NE | mg/kg | ND (<0.00424) | ND (<0.00358) | ND (<0.0381) | ND (<0.00290) | ND (<0.00578) | ND (<0.00396) | ND (<0.00430) | ND (<0.00467) | ND (<0.00367) |
| 1,2,4-Trimethylbenzene | [500] | [2.8] | mg/kg | 0.0903 | ND (<0.00358) | ND (<0.0381) | ND (<0.00290) | ND (<0.00578) | ND (<0.00396) | ND (<0.00430) | ND (<0.00467) | ND (<0.00367) |
| 1,3,5-Trimethylbenzene | [500] | [2.8] | mg/kg | 0.0252 | ND (<0.00358) | ND (<0.0381) | ND (<0.00290) | ND (<0.00578) | ND (<0.00396) | ND (<0.00430) | ND (<0.00467) | ND (<0.00367) |
| m,p-Xylene | NE | NE | mg/kg | 0.00545 | ND (<0.00358) | ND (<0.0381) | ND (<0.00290) | ND (<0.00578) | ND (<0.00396) | ND (<0.00430) | ND (<0.00467) | ND (<0.00367) |
| o-Xylene | NE | NE | mg/kg | ND (<0.00424) | ND (<0.00358) | ND (<0.0381) | ND (<0.00290) | ND (<0.00578) | ND (<0.00396) | ND (<0.00430) | ND (<0.00467) | ND (<0.00367) |
| Ethanol | [1,000] | [20] | mg/kg | ND (<0.847) | ND (<0.716) | ND (<0.762) | ND (<0.579) | ND (<1.16) | ND (<0.792) | ND (<0.861) | ND (<0.934) | ND (<0.734) |
| Total Xylenes | 500 | 19.5 | mg/kg | ND (<0.0127) | ND (<0.0107) | ND (<0.0114) | ND (<0.00869) | ND (<0.0173) | ND (<0.0119) | ND (<0.0129) | ND (<0.0140) | ND (<0.0110) |
| **Total VOCs** | | | | 0.22998 | BRL | BRL | BRL | BRL | 0.0528 | BRL | BRL | BRL |

**Notes:**
mg/kg = milligrams per kilogram
N/A = not applicable or not analyzed
BRL = below laboratory reporting limit
ND (#) = not detected (reporting limit)
RSR = Remediation Standard Regulations
NE = no established criteria
[#] = recommended additional polluting substances (CTDEEP in 9/2018)
RDEC = Residential Direct Exposure Criteria
GA PMC = GA Pollutant Mobility Criteria
USEPA = United States Environmental Protection Agency
MEK = methyl ethyl ketone
* = Sample location was excavated



The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 119
Page 24 of 325

## Table 2

### Soil Compliance Analytical Results

| Analysis | RSR Criteria | | Sample ID: (Depth in feet): | CS-5S (12') | CS-6D (13') | CS-6S (11') | CS-7D (13') | CS-7S (11') | CS-8D (13.5') | CS-8S (11') | CS-9D (12') | CS-9S (10') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RDEC | GA PMC | PID Result: | 6.8 | 4.9 | 3.0 | 0.6 | 1.0 | 2.0 | 1.9 | 2.9 | 3.2 |
| | | | Sample Date: | 06/30/23 | 06/30/23 | 06/30/23 | 07/13/23 | 07/13/23 | 07/13/23 | 07/13/23 | 07/25/23 | 07/25/23 |
| **Volatile Organic Compounds (VOCs) by USEPA Method 8260** | | | | | | | | | | | | |
| Acetone | 500 | 14 | mg/kg | ND (<0.0370) | ND (<0.0470) | ND (<0.0444) | 0.385 E | 0.159 | 0.198 E | 0.102 | ND (<0.0412) | ND (<0.0426) |
| 2-Butanone (MEK) | 500 | 8 | mg/kg | ND (<0.00739) | ND (<0.00940) | ND (<0.00888) | ND (<0.0107) | ND (<0.00837) | ND (<0.00920) | ND (<0.00843) | ND (<0.00823) | ND (<0.00853) |
| n-Butylbenzene | [500] | [7.0] | mg/kg | ND (<0.00739) | ND (<0.00940) | ND (<0.00888) | ND (<0.0107) | ND (<0.00837) | ND (<0.00920) | ND (<0.00843) | ND (<0.00823) | ND (<0.00853) |
| sec-Butylbenzene | [500] | [7.0] | mg/kg | ND (<0.00370) | ND (<0.00470) | ND (<0.00444) | ND (<0.00533) | ND (<0.00419) | ND (<0.00460) | ND (<0.00422) | ND (<0.00412) | ND (<0.00426) |
| Ethylbenzene | 500 | 10.1 | mg/kg | ND (<0.00370) | ND (<0.00470) | ND (<0.00444) | ND (<0.00533) | ND (<0.00419) | ND (<0.00460) | ND (<0.00422) | ND (<0.00412) | ND (<0.00426) |
| Isopropylbenzene | [500] | [0.50] | mg/kg | ND (<0.00370) | ND (<0.00470) | ND (<0.00444) | ND (<0.00533) | ND (<0.00419) | ND (<0.00460) | ND (<0.00422) | ND (<0.00412) | ND (<0.00426) |
| p-Isopropyltoluene | [500] | [0.50] | mg/kg | ND (<0.00370) | ND (<0.00470) | ND (<0.00444) | ND (<0.00533) | ND (<0.00419) | ND (<0.00460) | ND (<0.00422) | ND (<0.00412) | ND (<0.00426) |
| Naphthalene | 1,000 | 5.6 | mg/kg | ND (<0.00370) | ND (<0.00470) | ND (<0.00444) | ND (<0.00533) | ND (<0.00419) | ND (<0.00460) | ND (<0.00422) | ND (<0.00412) | ND (<0.00426) |
| n-Propylbenzene | [500] | [1.0] | mg/kg | ND (<0.00370) | ND (<0.00470) | ND (<0.00444) | ND (<0.00533) | ND (<0.00419) | ND (<0.00460) | ND (<0.00422) | ND (<0.00412) | ND (<0.00426) |
| Toluene | 500 | 20 | mg/kg | ND (<0.00370) | ND (<0.00470) | ND (<0.00444) | ND (<0.00533) | ND (<0.00419) | ND (<0.00460) | ND (<0.00422) | ND (<0.00412) | ND (<0.00426) |
| Trichloroethene | 56 | 0.1 | mg/kg | ND (<0.00370) | ND (<0.00470) | ND (<0.00444) | ND (<0.00533) | ND (<0.00419) | ND (<0.00460) | ND (<0.00422) | ND (<0.00412) | ND (<0.00426) |
| Trichlorofluoromethane (Freon 11) | [500] | [20] | mg/kg | ND (<0.00370) | ND (<0.00470) | ND (<0.00444) | ND (<0.00533) | ND (<0.00419) | ND (<0.00460) | ND (<0.00422) | ND (<0.00412) | ND (<0.00426) |
| 1,2,3-Trichloropropane | NE | NE | mg/kg | ND (<0.00370) | ND (<0.00470) | ND (<0.00444) | ND (<0.00533) | ND (<0.00419) | ND (<0.00460) | ND (<0.00422) | ND (<0.00412) | ND (<0.00426) |
| 1,2,4-Trimethylbenzene | [500] | [2.8] | mg/kg | ND (<0.00370) | 0.00473 | ND (<0.00444) | ND (<0.00533) | ND (<0.00419) | ND (<0.00460) | ND (<0.00422) | ND (<0.00412) | ND (<0.00426) |
| 1,3,5-Trimethylbenzene | [500] | [2.8] | mg/kg | ND (<0.00370) | ND (<0.00470) | ND (<0.00444) | ND (<0.00533) | ND (<0.00419) | ND (<0.00460) | ND (<0.00422) | ND (<0.00412) | ND (<0.00426) |
| m,p-Xylene | NE | NE | mg/kg | ND (<0.00370) | ND (<0.00470) | ND (<0.00444) | ND (<0.00533) | ND (<0.00419) | ND (<0.00460) | ND (<0.00422) | ND (<0.00412) | ND (<0.00426) |
| o-Xylene | NE | NE | mg/kg | ND (<0.00370) | ND (<0.00470) | ND (<0.00444) | ND (<0.00533) | ND (<0.00419) | ND (<0.00460) | ND (<0.00422) | ND (<0.00412) | ND (<0.00426) |
| Ethanol | [1,000] | [20] | mg/kg | ND (<0.739) | ND (<0.940) | ND (<0.888) | ND (<1.07) | ND (<0.837) | ND (<0.920) | ND (<0.843) | ND (<0.823) | ND (<0.853) |
| Total Xylenes | 500 | 19.5 | mg/kg | ND (<0.0111) | ND (<0.0141) | ND (<0.0133) | ND (<0.0160) | ND (<0.0126) | ND (<0.0138) | ND (<0.0126) | ND (<0.0123) | ND (<0.0128) |
| **Total VOCs** | | | | BRL | 0.00473 | BRL | 0.385 | 0.159 | 0.198 | 0.102 | BRL | BRL |

**Notes:**
mg/kg = milligrams per kilogram
N/A = not applicable or not analyzed
BRL = below laboratory reporting limit
ND (#) = not detected (reporting limit)
RSR = Remediation Standard Regulations
NE = no established criteria
[#] = recommended additional polluting substances (CTDEEP in 9/2018)
RDEC = Residential Direct Exposure Criteria
GA PMC = GA Pollutant Mobility Criteria
USEPA = United States Environmental Protection Agency
MEK = methyl ethyl ketone
* = Sample location was excavated



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## Table 2

### Soil Compliance Analytical Results

| Analysis | RSR Criteria | | Sample ID: (Depth in feet): | CS-10D (13.5') | CS-10S (12') | CS-11D (13') | CS-11S (11') | CS-12D (12.5') | CS-12S (11') | CS-13D (13')* | CS-14D (15') | CS-14S (13') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RDEC | GA PMC | PID Result: | 10.7 | 1.6 | 1.8 | 0.6 | 0.0 | 0.0 | 514.3 | 0.0 | 0.0 |
| | | | Sample Date: | 07/28/23 | 07/28/23 | 08/09/23 | 08/09/23 | 08/24/23 | 08/24/23 | 08/24/23 | 08/31/23 | 08/31/23 |
| **Volatile Organic Compounds (VOCs) by USEPA Method 8260** | | | | | | | | | | | | |
| Acetone | 500 | 14 | mg/kg | ND (<0.0472) | ND (<0.0456) | ND (<0.0416) | ND (<0.0486) | ND (<0.0461) | ND (<0.0436) | ND (<0.0436) | ND (<0.0451) | ND (<0.0365) |
| 2-Butanone (MEK) | 500 | 8 | mg/kg | ND (<0.00943) | ND (<0.00911) | ND (<0.00832) | ND (<0.00972) | ND (<0.00921) | ND (<0.00873) | ND (<0.00872) | ND (<0.00903) | ND (<0.00730) |
| n-Butylbenzene | [500] | [7.0] | mg/kg | ND (<0.00943) | ND (<0.00911) | ND (<0.00832) | ND (<0.00972) | ND (<0.00921) | ND (<0.00873) | 0.0162 | ND (<0.00903) | ND (<0.00730) |
| sec-Butylbenzene | [500] | [7.0] | mg/kg | ND (<0.00472) | ND (<0.00456) | ND (<0.00416) | ND (<0.00486) | ND (<0.00461) | ND (<0.00436) | 0.00460 | ND (<0.00451) | ND (<0.00365) |
| Ethylbenzene | 500 | 10.1 | mg/kg | ND (<0.00472) | ND (<0.00456) | ND (<0.00416) | ND (<0.00486) | ND (<0.00461) | ND (<0.00436) | ND (<0.00436) | ND (<0.00451) | ND (<0.00365) |
| Isopropylbenzene | [500] | [0.50] | mg/kg | ND (<0.00472) | ND (<0.00456) | ND (<0.00416) | ND (<0.00486) | ND (<0.00461) | ND (<0.00436) | ND (<0.00436) | ND (<0.00451) | ND (<0.00365) |
| p-Isopropyltoluene | [500] | [0.50] | mg/kg | ND (<0.00472) | ND (<0.00456) | ND (<0.00416) | ND (<0.00486) | ND (<0.00461) | ND (<0.00436) | ND (<0.00436) | ND (<0.00451) | ND (<0.00365) |
| Naphthalene | 1,000 | 5.6 | mg/kg | 0.00509 | ND (<0.00456) | ND (<0.00416) | ND (<0.00486) | 0.00483 | ND (<0.00436) | ND (<0.00436) | ND (<0.00451) | ND (<0.00365) |
| n-Propylbenzene | [500] | [1.0] | mg/kg | ND (<0.00472) | ND (<0.00456) | ND (<0.00416) | ND (<0.00486) | ND (<0.00461) | ND (<0.00436) | ND (<0.00436) | ND (<0.00451) | ND (<0.00365) |
| Toluene | 500 | 20 | mg/kg | ND (<0.00472) | ND (<0.00456) | ND (<0.00416) | ND (<0.00486) | ND (<0.00461) | ND (<0.00436) | ND (<0.00436) | ND (<0.00451) | ND (<0.00365) |
| Trichloroethene | 56 | 0.1 | mg/kg | ND (<0.00472) | ND (<0.00456) | ND (<0.00416) | ND (<0.00486) | ND (<0.00461) | ND (<0.00436) | ND (<0.00436) | ND (<0.00451) | ND (<0.00365) |
| Trichlorofluoromethane (Freon 11) | [500] | [20] | mg/kg | ND (<0.00472) | ND (<0.00456) | ND (<0.00416) | ND (<0.00486) | ND (<0.00461) | ND (<0.00436) | ND (<0.00436) | ND (<0.00451) | ND (<0.00365) |
| 1,2,3-Trichloropropane | NE | NE | mg/kg | ND (<0.00472) | ND (<0.00456) | ND (<0.00416) | ND (<0.00486) | ND (<0.00461) | ND (<0.00436) | ND (<0.00436) | ND (<0.00451) | ND (<0.00365) |
| 1,2,4-Trimethylbenzene | [500] | [2.8] | mg/kg | 0.0156 | ND (<0.00456) | ND (<0.00416) | ND (<0.00486) | ND (<0.00461) | ND (<0.00436) | ND (<0.00436) | ND (<0.00451) | ND (<0.00365) |
| 1,3,5-Trimethylbenzene | [500] | [2.8] | mg/kg | 0.00596 | ND (<0.00456) | ND (<0.00416) | ND (<0.00486) | ND (<0.00461) | ND (<0.00436) | ND (<0.00436) | ND (<0.00451) | ND (<0.00365) |
| m,p-Xylene | NE | NE | mg/kg | ND (<0.00472) | ND (<0.00456) | ND (<0.00416) | ND (<0.00486) | ND (<0.00461) | ND (<0.00436) | ND (<0.00436) | ND (<0.00451) | ND (<0.00365) |
| o-Xylene | NE | NE | mg/kg | ND (<0.00472) | ND (<0.00456) | ND (<0.00416) | ND (<0.00486) | ND (<0.00461) | ND (<0.00436) | ND (<0.00436) | ND (<0.00451) | ND (<0.00365) |
| Ethanol | [1,000] | [20] | mg/kg | ND (<0.943) | ND (<0.911) | ND (<0.832) | ND (<0.972) | ND (<0.921) | ND (<0.873) | ND (<0.872) | ND (<0.903) | ND (<0.730) |
| Total Xylenes | 500 | 19.5 | mg/kg | ND (<0.0142) | ND (<0.0137) | ND (<0.0125) | ND (<0.0146) | ND (<0.0138) | ND (<0.0131) | ND (<0.0131) | ND (<0.0135) | ND (<0.0110) |
| **Total VOCs** | | | | 0.02665 | BRL | BRL | BRL | 0.00483 | BRL | 0.0208 | BRL | BRL |

**Notes:**
mg/kg = milligrams per kilogram
N/A = not applicable or not analyzed
BRL = below laboratory reporting limit
ND (#) = not detected (reporting limit)
RSR = Remediation Standard Regulations
NE = no established criteria
[#] = recommended additional polluting substances (CTDEEP in 9/2018)
RDEC = Residential Direct Exposure Criteria
GA PMC = GA Pollutant Mobility Criteria
USEPA = United States Environmental Protection Agency
MEK = methyl ethyl ketone
* = Sample location was excavated



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## Table 2

### Soil Compliance Analytical Results

| Analysis | RSR Criteria | | Sample ID: (Depth in feet): | CS-15D (13.5') | CS-15S (12.5') | CS-16D (14') | CS-16S (12.5') | CS-17D (13') | CS-17S (11') | CS-18D (12.5') | CS-18S (11') | CS-19D (12') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RDEC | GA PMC | PID Result: | 0.0 | 0.0 | 3.0 | 1.8 | 1.6 | 1.1 | 0.2 | 0.1 | 1.0 |
| | | | Sample Date: | 09/05/23 | 09/05/23 | 09/06/23 | 09/06/23 | 09/12/23 | 09/12/23 | 09/14/23 | 09/14/23 | 09/14/23 |
| **Volatile Organic Compounds (VOCs) by USEPA Method 8260** | | | | | | | | | | | | |
| Acetone | 500 | 14 | mg/kg | ND (<0.0451) | ND (<0.0439) | ND (<0.0425) | ND (<0.0416) | ND (<0.0430) | ND (<0.0514) | ND (<0.0441) | ND (<0.0395) | ND (<0.0435) |
| 2-Butanone (MEK) | 500 | 8 | mg/kg | ND (<0.00902) | ND (<0.00879) | ND (<0.00849) | ND (<0.00832) | ND (<0.00861) | ND (<0.0103) | ND (<0.00883) | ND (<0.00790) | ND (<0.00870) |
| n-Butylbenzene | [500] | [7.0] | mg/kg | ND (<0.00902) | ND (<0.00879) | ND (<0.00849) | ND (<0.00832) | ND (<0.00861) | ND (<0.0103) | ND (<0.00883) | ND (<0.00790) | ND (<0.00870) |
| sec-Butylbenzene | [500] | [7.0] | mg/kg | ND (<0.00451) | ND (<0.00439) | ND (<0.00425) | ND (<0.00416) | ND (<0.00430) | ND (<0.00514) | ND (<0.00441) | ND (<0.00395) | ND (<0.00435) |
| Ethylbenzene | 500 | 10.1 | mg/kg | ND (<0.00451) | ND (<0.00439) | ND (<0.00425) | ND (<0.00416) | ND (<0.00430) | ND (<0.00514) | ND (<0.00441) | ND (<0.00395) | ND (<0.00435) |
| Isopropylbenzene | [500] | [0.50] | mg/kg | ND (<0.00451) | ND (<0.00439) | ND (<0.00425) | ND (<0.00416) | ND (<0.00430) | ND (<0.00514) | ND (<0.00441) | ND (<0.00395) | ND (<0.00435) |
| p-Isopropyltoluene | [500] | [0.50] | mg/kg | ND (<0.00451) | ND (<0.00439) | ND (<0.00425) | ND (<0.00416) | ND (<0.00430) | ND (<0.00514) | ND (<0.00441) | ND (<0.00395) | ND (<0.00435) |
| Naphthalene | 1,000 | 5.6 | mg/kg | ND (<0.00451) | ND (<0.00439) | ND (<0.00425) | ND (<0.00416) | ND (<0.00430) | ND (<0.00514) | ND (<0.00441) | ND (<0.00395) | ND (<0.00435) |
| n-Propylbenzene | [500] | [1.0] | mg/kg | ND (<0.00451) | ND (<0.00439) | ND (<0.00425) | ND (<0.00416) | ND (<0.00430) | ND (<0.00514) | ND (<0.00441) | ND (<0.00395) | ND (<0.00435) |
| Toluene | 500 | 20 | mg/kg | ND (<0.00451) | ND (<0.00439) | ND (<0.00425) | ND (<0.00416) | ND (<0.00430) | ND (<0.00514) | ND (<0.00441) | ND (<0.00395) | ND (<0.00435) |
| Trichloroethene | 56 | 0.1 | mg/kg | ND (<0.00451) | ND (<0.00439) | ND (<0.00425) | ND (<0.00416) | ND (<0.00430) | ND (<0.00514) | ND (<0.00441) | ND (<0.00395) | ND (<0.00435) |
| Trichlorofluoromethane (Freon 11) | [500] | [20] | mg/kg | ND (<0.00451) | ND (<0.00439) | ND (<0.00425) | ND (<0.00416) | ND (<0.00430) | ND (<0.00514) | ND (<0.00441) | ND (<0.00395) | ND (<0.00435) |
| 1,2,3-Trichloropropane | NE | NE | mg/kg | ND (<0.00451) | ND (<0.00439) | ND (<0.00425) | ND (<0.00416) | ND (<0.00430) | ND (<0.00514) | ND (<0.00441) | ND (<0.00395) | ND (<0.00435) |
| 1,2,4-Trimethylbenzene | [500] | [2.8] | mg/kg | ND (<0.00451) | ND (<0.00439) | ND (<0.00425) | ND (<0.00416) | ND (<0.00430) | ND (<0.00514) | ND (<0.00441) | ND (<0.00395) | ND (<0.00435) |
| 1,3,5-Trimethylbenzene | [500] | [2.8] | mg/kg | ND (<0.00451) | ND (<0.00439) | ND (<0.00425) | ND (<0.00416) | ND (<0.00430) | ND (<0.00514) | ND (<0.00441) | ND (<0.00395) | ND (<0.00435) |
| m,p-Xylene | NE | NE | mg/kg | ND (<0.00451) | ND (<0.00439) | ND (<0.00425) | ND (<0.00416) | ND (<0.00430) | ND (<0.00514) | ND (<0.00441) | ND (<0.00395) | ND (<0.00435) |
| o-Xylene | NE | NE | mg/kg | ND (<0.00451) | ND (<0.00439) | ND (<0.00425) | ND (<0.00416) | ND (<0.00430) | ND (<0.00514) | ND (<0.00441) | ND (<0.00395) | ND (<0.00435) |
| Ethanol | [1,000] | [20] | mg/kg | ND (<0.902) | ND (<0.879) | ND (<0.849) | ND (<0.832) | ND (<0.861) | ND (<1.03) | ND (<0.883) | ND (<0.790) | ND (<0.870) |
| Total Xylenes | 500 | 19.5 | mg/kg | ND (<0.0135) | ND (<0.0132) | ND (<0.0127) | ND (<0.0125) | ND (<0.0129) | ND (<0.0154) | ND (<0.0132) | ND (<0.0119) | ND (<0.0131) |
| **Total VOCs** | | | | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |

**Notes:**
mg/kg = milligrams per kilogram
N/A = not applicable or not analyzed
BRL = below laboratory reporting limit
ND (#) = not detected (reporting limit)
RSR = Remediation Standard Regulations
NE = no established criteria
[#] = recommended additional polluting substances (CTDEEP in 9/2018)
RDEC = Residential Direct Exposure Criteria
GA PMC = GA Pollutant Mobility Criteria
USEPA = United States Environmental Protection Agency
MEK = methyl ethyl ketone
* = Sample location was excavated



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## Table 2

### Soil Compliance Analytical Results

| Analysis | RSR Criteria | | Sample ID: (Depth in feet): | CS-19S (11') | CS-20D (10') | CS-20S (9') | CS-21D (12') | CS-21S (11') | CS-22D (10.5') | CS-22S (9.5') | CS-23D (10.5') | CS-23S (9.5') |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RDEC | GA PMC | PID Result: | 0.9 | 0.0 | 0.0 | 0.3 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | Sample Date: | 09/14/23 | 09/14/23 | 09/14/23 | 09/15/23 | 09/15/23 | 09/15/23 | 09/15/23 | 09/15/23 | 09/15/23 |
| **Volatile Organic Compounds (VOCs) by USEPA Method 8260** | | | | | | | | | | | | |
| Acetone | 500 | 14 | mg/kg | ND (<0.0435) | ND (<0.0505) | ND (<0.0444) | ND (<0.0504) | ND (<0.0456) | ND (<0.0440) | ND (<0.0451) | ND (<0.0384) | ND (<0.0425) |
| 2-Butanone (MEK) | 500 | 8 | mg/kg | ND (<0.00870) | ND (<0.0101) | ND (<0.00889) | ND (<0.0101) | ND (<0.00912) | ND (<0.00880) | ND (<0.00903) | ND (<0.00768) | ND (<0.00851) |
| n-Butylbenzene | [500] | [7.0] | mg/kg | ND (<0.00870) | ND (<0.0101) | ND (<0.00889) | ND (<0.0101) | ND (<0.00912) | ND (<0.00880) | ND (<0.00903) | ND (<0.00768) | ND (<0.00851) |
| sec-Butylbenzene | [500] | [7.0] | mg/kg | ND (<0.00435) | ND (<0.00505) | ND (<0.00444) | ND (<0.00504) | ND (<0.00456) | ND (<0.00440) | ND (<0.00451) | ND (<0.00384) | ND (<0.00425) |
| Ethylbenzene | 500 | 10.1 | mg/kg | ND (<0.00435) | ND (<0.00505) | ND (<0.00444) | ND (<0.00504) | ND (<0.00456) | ND (<0.00440) | ND (<0.00451) | ND (<0.00384) | ND (<0.00425) |
| Isopropylbenzene | [500] | [0.50] | mg/kg | ND (<0.00435) | ND (<0.00505) | ND (<0.00444) | ND (<0.00504) | ND (<0.00456) | ND (<0.00440) | ND (<0.00451) | ND (<0.00384) | ND (<0.00425) |
| p-Isopropyltoluene | [500] | [0.50] | mg/kg | ND (<0.00435) | ND (<0.00505) | ND (<0.00444) | ND (<0.00504) | ND (<0.00456) | ND (<0.00440) | ND (<0.00451) | ND (<0.00384) | ND (<0.00425) |
| Naphthalene | 1,000 | 5.6 | mg/kg | ND (<0.00435) | ND (<0.00505) | ND (<0.00444) | ND (<0.00504) | ND (<0.00456) | ND (<0.00440) | ND (<0.00451) | ND (<0.00384) | ND (<0.00425) |
| n-Propylbenzene | [500] | [1.0] | mg/kg | ND (<0.00435) | ND (<0.00505) | ND (<0.00444) | ND (<0.00504) | ND (<0.00456) | ND (<0.00440) | ND (<0.00451) | ND (<0.00384) | ND (<0.00425) |
| Toluene | 500 | 20 | mg/kg | ND (<0.00435) | ND (<0.00505) | ND (<0.00444) | ND (<0.00504) | ND (<0.00456) | ND (<0.00440) | ND (<0.00451) | ND (<0.00384) | ND (<0.00425) |
| Trichloroethene | 56 | 0.1 | mg/kg | ND (<0.00435) | ND (<0.00505) | ND (<0.00444) | ND (<0.00504) | ND (<0.00456) | ND (<0.00440) | ND (<0.00451) | ND (<0.00384) | ND (<0.00425) |
| Trichlorofluoromethane (Freon 11) | [500] | [20] | mg/kg | ND (<0.00435) | ND (<0.00505) | ND (<0.00444) | ND (<0.00504) | ND (<0.00456) | ND (<0.00440) | ND (<0.00451) | ND (<0.00384) | ND (<0.00425) |
| 1,2,3-Trichloropropane | NE | NE | mg/kg | ND (<0.00435) | ND (<0.00505) | ND (<0.00444) | ND (<0.00504) | ND (<0.00456) | ND (<0.00440) | ND (<0.00451) | ND (<0.00384) | ND (<0.00425) |
| 1,2,4-Trimethylbenzene | [500] | [2.8] | mg/kg | ND (<0.00435) | ND (<0.00505) | ND (<0.00444) | ND (<0.00504) | ND (<0.00456) | ND (<0.00440) | ND (<0.00451) | ND (<0.00384) | ND (<0.00425) |
| 1,3,5-Trimethylbenzene | [500] | [2.8] | mg/kg | ND (<0.00435) | ND (<0.00505) | ND (<0.00444) | ND (<0.00504) | ND (<0.00456) | ND (<0.00440) | ND (<0.00451) | ND (<0.00384) | ND (<0.00425) |
| m,p-Xylene | NE | NE | mg/kg | ND (<0.00435) | ND (<0.00505) | ND (<0.00444) | ND (<0.00504) | ND (<0.00456) | ND (<0.00440) | ND (<0.00451) | ND (<0.00384) | ND (<0.00425) |
| o-Xylene | NE | NE | mg/kg | ND (<0.00435) | ND (<0.00505) | ND (<0.00444) | ND (<0.00504) | ND (<0.00456) | ND (<0.00440) | ND (<0.00451) | ND (<0.00384) | ND (<0.00425) |
| Ethanol | [1,000] | [20] | mg/kg | ND (<0.870) | ND (<1.01) | ND (<0.889) | ND (<1.01) | ND (<0.912) | ND (<0.880) | ND (<0.903) | ND (<0.768) | ND (<0.851) |
| Total Xylenes | 500 | 19.5 | mg/kg | ND (<0.0130) | ND (<0.0152) | ND (<0.0133) | ND (<0.0151) | ND (<0.0137) | ND (<0.0132) | ND (<0.0135) | ND (<0.0115) | ND (<0.0128) |
| **Total VOCs** | | | | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |

**Notes:**
mg/kg = milligrams per kilogram
N/A = not applicable or not analyzed
BRL = below laboratory reporting limit
ND (#) = not detected (reporting limit)
RSR = Remediation Standard Regulations
NE = no established criteria
[#] = recommended additional polluting substances (CTDEEP in 9/2018)
RDEC = Residential Direct Exposure Criteria
GA PMC = GA Pollutant Mobility Criteria
USEPA = United States Environmental Protection Agency
MEK = methyl ethyl ketone
* = Sample location was excavated



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**Table 2**

**Soil Compliance Analytical Results**

| Analysis | RSR Criteria | | Sample ID: (Depth in feet): | CS-24D (10.5') | CS-24S (9.5') | CS-25D (10.5') | CS-25S (9.5') | CS-26D (12.5') | CS-26S (11.5') |
|---|---|---|---|---|---|---|---|---|---|
| | RDEC | GA PMC | PID Result: | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 0.9 |
| | | | Sample Date: | 09/15/23 | 09/15/23 | 09/15/23 | 09/15/23 | 09/15/23 | 09/15/23 |
| **Volatile Organic Compounds (VOCs) by USEPA Method 8260** | | | | | | | | | |
| Acetone | 500 | 14 | mg/kg | ND (<0.0417) | ND (<0.0450) | ND (<0.0461) | ND (<0.0409) | ND (<0.0467) | ND (<0.0426) |
| 2-Butanone (MEK) | 500 | 8 | mg/kg | ND (<0.00833) | ND (<0.00901) | ND (<0.00921) | ND (<0.00817) | ND (<0.00935) | ND (<0.00852) |
| n-Butylbenzene | [500] | [7.0] | mg/kg | ND (<0.00833) | ND (<0.00901) | ND (<0.00921) | ND (<0.00817) | ND (<0.00935) | ND (<0.00852) |
| sec-Butylbenzene | [500] | [7.0] | mg/kg | ND (<0.00417) | ND (<0.00450) | ND (<0.00461) | ND (<0.00409) | ND (<0.00467) | ND (<0.00426) |
| Ethylbenzene | 500 | 10.1 | mg/kg | ND (<0.00417) | ND (<0.00450) | ND (<0.00461) | ND (<0.00409) | ND (<0.00467) | ND (<0.00426) |
| Isopropylbenzene | [500] | [0.50] | mg/kg | ND (<0.00417) | ND (<0.00450) | ND (<0.00461) | ND (<0.00409) | ND (<0.00467) | ND (<0.00426) |
| p-Isopropyltoluene | [500] | [0.50] | mg/kg | ND (<0.00417) | ND (<0.00450) | ND (<0.00461) | ND (<0.00409) | ND (<0.00467) | ND (<0.00426) |
| Naphthalene | 1,000 | 5.6 | mg/kg | ND (<0.00417) | ND (<0.00450) | ND (<0.00461) | ND (<0.00409) | ND (<0.00467) | ND (<0.00426) |
| n-Propylbenzene | [500] | [1.0] | mg/kg | ND (<0.00417) | ND (<0.00450) | ND (<0.00461) | ND (<0.00409) | ND (<0.00467) | ND (<0.00426) |
| Toluene | 500 | 20 | mg/kg | ND (<0.00417) | ND (<0.00450) | ND (<0.00461) | ND (<0.00409) | ND (<0.00467) | ND (<0.00426) |
| Trichloroethene | 56 | 0.1 | mg/kg | ND (<0.00417) | ND (<0.00450) | ND (<0.00461) | ND (<0.00409) | ND (<0.00467) | ND (<0.00426) |
| Trichlorofluoromethane (Freon 11) | [500] | [20] | mg/kg | ND (<0.00417) | ND (<0.00450) | ND (<0.00461) | 0.00418 | ND (<0.00467) | ND (<0.00426) |
| 1,2,3-Trichloropropane | NE | NE | mg/kg | ND (<0.00417) | ND (<0.00450) | ND (<0.00461) | ND (<0.00409) | ND (<0.00467) | ND (<0.00426) |
| 1,2,4-Trimethylbenzene | [500] | [2.8] | mg/kg | ND (<0.00417) | ND (<0.00450) | ND (<0.00461) | ND (<0.00409) | ND (<0.00467) | ND (<0.00426) |
| 1,3,5-Trimethylbenzene | [500] | [2.8] | mg/kg | ND (<0.00417) | ND (<0.00450) | ND (<0.00461) | ND (<0.00409) | ND (<0.00467) | ND (<0.00426) |
| m,p-Xylene | NE | NE | mg/kg | ND (<0.00417) | ND (<0.00450) | ND (<0.00461) | ND (<0.00409) | ND (<0.00467) | ND (<0.00426) |
| o-Xylene | NE | NE | mg/kg | ND (<0.00417) | ND (<0.00450) | ND (<0.00461) | ND (<0.00409) | ND (<0.00467) | ND (<0.00426) |
| Ethanol | [1,000] | [20] | mg/kg | ND (<0.833) | ND (<0.901) | ND (<0.921) | ND (<0.817) | ND (<0.935) | ND (<0.852) |
| Total Xylenes | 500 | 19.5 | mg/kg | ND (<0.0125) | ND (<0.0135) | ND (<0.0138) | ND (<0.0123) | ND (<0.0140) | ND (<0.0128) |
| **Total VOCs** | | | | BRL | BRL | BRL | 0.00418 | BRL | BRL |

**Notes:**
mg/kg = milligrams per kilogram
N/A = not applicable or not analyzed
BRL = below laboratory reporting limit
ND (#) = not detected (reporting limit)
RSR = Remediation Standard Regulations
NE = no established criteria
[#] = recommended additional polluting substances (CTDEEP in 9/2018)
RDEC = Residential Direct Exposure Criteria
GA PMC = GA Pollutant Mobility Criteria
USEPA = United States Environmental Protection Agency
MEK = methyl ethyl ketone
* = Sample location was excavated

**Table 3**

**Groundwater Compliance Analytical Results**

| Analysis | RSR Criteria | | | | Monitoring Well ID: | MW-1R | MW-1R | MW-1R | MW-1R | MW-2 | MW-2 | MW-2 | MW-2 | MW-3 | MW-3 | MW-3 | MW-3 | MW-4 | MW-4 | MW-4 | MW-4 | MW-5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GWPC | SWPC | RES VOL | I/C VOL | Sample Date | 01/03/24 | 04/01/24 | 07/01/24 | 10/07/24 | 01/03/24 | 04/01/24 | 07/01/24 | 10/07/24 | 01/03/24 | 04/01/24 | 07/01/24 | 10/07/24 | 01/03/24 | 04/01/24 | 07/01/24 | 10/07/24 | 01/03/24 |
| **Volatile Organic Compounds (VOCs) by EPA Method 8260** | | | | | | | | | | | | | | | | | | | | | | |
| **Acetone** | 700 | [10,000] | 50,000 | 50,000 | ug/L | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) |
| **Benzene** | 1 | 710 | 215 | 530 | ug/L | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Bromodichloromethane** | [1] | [510] | [1.1] | [35] | ug/L | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) |
| **2-Butanone (MEK)** | 400 | [10,000] | 50,000 | 50,000 | ug/L | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | 2.20 | ND (2.00) |
| **n-Butylbenzene** | [350] | [10,000] | [1,600] | [21,800] | ug/L | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | 6.85 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **sec-Butylbenzene** | [350] | [10,000] | [1,500] | [20,100] | ug/L | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | 7.09 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **tert-Butylbenzene** | [350] | [10,000] | [1,900] | [25,300] | ug/L | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Chloroform** | 6 | 14,100 | 26 | 62 | ug/L | 2.91 | ND (1.00) | ND (1.00) | 1.20 | 7.67 | ND (1.00) | ND (1.00) | 3.56 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **1,2-Dichloroethane** | 1 | 2,970 | 6.5 | 68 | ug/L | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Ethylbenzene** | 700 | 580,000 | 50,000 | 50,000 | ug/L | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | 1.06 | 61.3 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Isopropylbenzene** | [25] | [210] | [900] | [2,200] | ug/L | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | 21.9 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **4-Isopropyltoluene** | [25] | [200] | [870] | [2,100] | ug/L | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | 1.04 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Methyl tert-Butyl Ether (MTBE)** | 100 | [10,000] | 50,000 | 50,000 | ug/L | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Naphthalene** | 280 | [210] | NE | NE | ug/L | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | 30.9 | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) |
| **N-Propylbenzene** | [50] | [10,000] | [1,200] | [2,900] | ug/L | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | 1.13 | 77.4 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Toluene** | 1,000 | 4,000,000 | 23,500 | 50,000 | ug/L | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **1,2,4-Trimethylbenzene** | [140] | [150] | [940] | [12,800] | ug/L | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | 9.81 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **1,3,5-Trimethylbenzene** | [140] | [260] | [730] | [10,000] | ug/L | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | 11.0 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Total Xylenes** | 530 | [270] | 21,300 | 50,000 | ug/L | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | 18.8 | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) |
| **Other VOCs** | NA | NA | NA | NA | ug/L | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |

**Notes:**
µg/L = micrograms per liter
N/A = not applicable or not analyzed
NA = not analyzed for specific analyte
BRL = below laboratory reporting limit
ND (#) = non detect (method detection limit)
RSR = Remediation Standard Regulations
GWPC = Groundwater Protection Criteria
SWPC = Surface Water Protection Criteria
RES VOL = Residential Volatilization Criteria
I/C VOL = Industrial/Commercial Volatilization Criteria
USEPA = United States Environmental Protection Agency
CTDEEP = Connecticut Dept. of Energy and Environmental Protection
Shading = shading indicates an exceedance of RSR Criteria
Brackets = denotes Additional Polluting Substance criteria



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**Table 3**

**Groundwater Compliance Analytical Results**

| Analysis | RSR Criteria | | | | MW-5 | MW-5 | MW-5 | MW-6 | MW-6 | MW-6 | MW-6 | MW-7 | MW-7 | MW-7 | MW-7 | MW-8 | MW-8 | MW-8 | MW-8 | MW-12 | MW-12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GWPC | SWPC | RES VOL | I/C VOL | 04/01/24 | 07/01/24 | 10/07/24 | 01/03/24 | 04/01/24 | 07/01/24 | 10/08/24 | 01/03/24 | 04/01/24 | 07/01/24 | 10/08/24 | 01/03/24 | 04/01/24 | 07/01/24 | 10/08/24 | 01/04/24 | 04/02/24 |
| **Volatile Organic Compounds (VOCs) by EPA Method 8260** | | | | | | | | | | | | | | | | | | | | | |
| **Acetone** | 700 | [10,000] | 50,000 | 50,000 | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) |
| **Benzene** | 1 | 710 | 215 | 530 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Bromodichloromethane** | [1] | [510] | [1.1] | [35] | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) |
| **2-Butanone (MEK)** | 400 | [10,000] | 50,000 | 50,000 | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) |
| **n-Butylbenzene** | [350] | [10,000] | [1,600] | [21,800] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **sec-Butylbenzene** | [350] | [10,000] | [1,500] | [20,100] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **tert-Butylbenzene** | [350] | [10,000] | [1,900] | [25,300] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Chloroform** | 6 | 14,100 | 26 | 62 | 4.17 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | 1.33 | 1.14 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **1,2-Dichloroethane** | 1 | 2,970 | 6.5 | 68 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Ethylbenzene** | 700 | 580,000 | 50,000 | 50,000 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Isopropylbenzene** | [25] | [210] | [900] | [2,200] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **4-Isopropyltoluene** | [25] | [200] | [870] | [2,100] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Methyl tert-Butyl Ether (MTBE)** | 100 | [10,000] | 50,000 | 50,000 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Naphthalene** | 280 | [210] | NE | NE | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) |
| **N-Propylbenzene** | [50] | [10,000] | [1,200] | [2,900] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Toluene** | 1,000 | 4,000,000 | 23,500 | 50,000 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **1,2,4-Trimethylbenzene** | [140] | [150] | [940] | [12,800] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **1,3,5-Trimethylbenzene** | [140] | [260] | [730] | [10,000] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Total Xylenes** | 530 | [270] | 21,300 | 50,000 | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) |
| **Other VOCs** | NA | NA | NA | NA | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |

**Notes:**
ug/L = micrograms per liter
N/A = not applicable or not analyzed
NA = not analyzed for specific analyte
BRL = below laboratory reporting limit
ND (#) = non detect (method detection limit)
RSR = Remediation Standard Regulations
GWPC = Groundwater Protection Criteria
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RES VOL = Residential Volatilization Criteria
I/C VOL = Industrial/Commercial Volatilization Criteria
USEPA = United States Environmental Protection Agency
CTDEEP = Connecticut Dept. of Energy and Environmental Protection
Shading = shading indicates an exceedance of RSR Criteria
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**Table 3**

**Groundwater Compliance Analytical Results**

| Analysis | RSR Criteria | | | | MW-12 | MW-12 | MW-13R | MW-13R | MW-13R | MW-13R | MW-15 | MW-15 | MW-15 | MW-15 | MW-16 | MW-16 | MW-16 | MW-16 | MW-17 | MW-17 | MW-17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GWPC | SWPC | RES VOL | I/C VOL | 07/01/24 | 10/08/24 | 01/04/24 | 04/02/24 | 07/01/24 | 10/09/24 | 01/04/24 | 04/02/24 | 07/01/24 | 10/09/24 | 01/04/24 | 04/02/24 | 07/01/24 | 10/08/24 | 01/04/24 | 04/02/24 | 07/01/24 |
| **Volatile Organic Compounds (VOCs) by EPA Method 8260** | | | | | | | | | | | | | | | | | | | | | |
| **Acetone** | 700 | [10,000] | 50,000 | 50,000 | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) |
| **Benzene** | 1 | 710 | 215 | 530 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Bromodichloromethane** | [1] | [510] | [1.1] | [35] | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) |
| **2-Butanone (MEK)** | 400 | [10,000] | 50,000 | 50,000 | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) |
| **n-Butylbenzene** | [350] | [10,000] | [1,600] | [21,800] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **sec-Butylbenzene** | [350] | [10,000] | [1,500] | [20,100] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **tert-Butylbenzene** | [350] | [10,000] | [1,900] | [25,300] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Chloroform** | 6 | 14,100 | 26 | 62 | ND (1.00) | ND (1.00) | ND (1.00) | 9.37 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | 2.77 | 1.05 | ND (1.00) | ND (1.00) | ND (1.00) | 4.45 | 3.60 |
| **1,2-Dichloroethane** | 1 | 2,970 | 6.5 | 68 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Ethylbenzene** | 700 | 580,000 | 50,000 | 50,000 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Isopropylbenzene** | [25] | [210] | [900] | [2,200] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **4-Isopropyltoluene** | [25] | [200] | [870] | [2,100] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Methyl tert-Butyl Ether (MTBE)** | 100 | [10,000] | 50,000 | 50,000 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Naphthalene** | 280 | [210] | NE | NE | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) |
| **N-Propylbenzene** | [50] | [10,000] | [1,200] | [2,900] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Toluene** | 1,000 | 4,000,000 | 23,500 | 50,000 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **1,2,4-Trimethylbenzene** | [140] | [150] | [940] | [12,800] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **1,3,5-Trimethylbenzene** | [140] | [260] | [730] | [10,000] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) |
| **Total Xylenes** | 530 | [270] | 21,300 | 50,000 | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) |
| **Other VOCs** | NA | NA | NA | NA | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL |

**Notes:**
ug/L = micrograms per liter
N/A = not applicable or not analyzed
NA = not analyzed for specific analyte
BRL = below laboratory reporting limit
ND (#) = non detect (method detection limit)
RSR = Remediation Standard Regulations
GWPC = Groundwater Protection Criteria
SWPC = Surface Water Protection Criteria
RES VOL = Residential Volatilization Criteria
I/C VOL = Industrial/Commercial Volatilization Criteria
USEPA = United States Environmental Protection Agency
CTDEEP = Connecticut Dept. of Energy and Environmental Protection
Shading = shading indicates an exceedance of RSR Criteria
Brackets = denotes Additional Polluting Substance criteria



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**Table 3**

**Groundwater Compliance Analytical Results**

| Analysis | RSR Criteria | | | | MW-17 | MW-18 | MW-18 | MW-18 | MW-18 | DUP (MW-6) | MW-23 | MW-23 | MW-23 | MW-23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GWPC | SWPC | RES VOL | I/C VOL | 10/09/24 | 01/04/24 | 04/02/24 | 07/01/24 | 10/09/24 | 10/08/24 | 01/04/24 | 04/01/24 | 07/01/24 | 10/09/24 |
| **Volatile Organic Compounds (VOCs) by EPA Method 8260** | | | | | | | | | | | | | | |
| **Acetone** | 700 | [10,000] | 50,000 | 50,000 | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | NA | ND (10.0) | ND (10.0) | ND (10.0) | ND (10.0) | NA |
| **Benzene** | 1 | 710 | 215 | 530 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA |
| **Bromodichloromethane** | [1] | [510] | [1.1] | [35] | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | NA | ND (0.500) | ND (0.500) | ND (0.500) | ND (0.500) | NA |
| **2-Butanone (MEK)** | 400 | [10,000] | 50,000 | 50,000 | 2.19 | ND (2.00) | ND (2.00) | ND (2.00) | NA | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | NA |
| **n-Butylbenzene** | [350] | [10,000] | [1,600] | [21,800] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA |
| **sec-Butylbenzene** | [350] | [10,000] | [1,500] | [20,100] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA |
| **tert-Butylbenzene** | [350] | [10,000] | [1,900] | [25,300] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA |
| **Chloroform** | 6 | 14,100 | 26 | 62 | ND (1.00) | 4.78 | 4.45 | ND (1.00) | NA | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA |
| **1,2-Dichloroethane** | 1 | 2,970 | 6.5 | 68 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA |
| **Ethylbenzene** | 700 | 580,000 | 50,000 | 50,000 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA |
| **Isopropylbenzene** | [25] | [210] | [900] | [2,200] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA |
| **4-Isopropyltoluene** | [25] | [200] | [870] | [2,100] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA |
| **Methyl tert-Butyl Ether (MTBE)** | 100 | [10,000] | 50,000 | 50,000 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA |
| **Naphthalene** | 280 | [210] | NE | NE | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | NA | ND (2.00) | ND (2.00) | ND (2.00) | ND (2.00) | NA |
| **N-Propylbenzene** | [50] | [10,000] | [1,200] | [2,900] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA |
| **Toluene** | 1,000 | 4,000,000 | 23,500 | 50,000 | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA |
| **1,2,4-Trimethylbenzene** | [140] | [150] | [940] | [12,800] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA |
| **1,3,5-Trimethylbenzene** | [140] | [260] | [730] | [10,000] | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA | ND (1.00) | ND (1.00) | ND (1.00) | ND (1.00) | NA |
| **Total Xylenes** | 530 | [270] | 21,300 | 50,000 | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | NA | ND (3.00) | ND (3.00) | ND (3.00) | ND (3.00) | NA |
| **Other VOCs** | NA | NA | NA | NA | BRL | BRL | BRL | BRL | NA | BRL | BRL | BRL | BRL | NA |

**Notes:**
ug/L = micrograms per liter
N/A = not applicable or not analyzed
NA = not analyzed for specific analyte
BRL = below laboratory reporting limit
ND (#) = non detect (method detection limit)
RSR = Remediation Standard Regulations
GWPC = Groundwater Protection Criteria
SWPC = Surface Water Protection Criteria
RES VOL = Residential Volatilization Criteria
I/C VOL = Industrial/Commercial Volatilization Criteria
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CTDEEP = Connecticut Dept. of Energy and Environmental Protection
Shading = shading indicates an exceedance of RSR Criteria
Brackets = denotes Additional Polluting Substance criteria



The Connecticut Light and Power Company
d/b/a Eversource Energy
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# Appendix A – Tank Removal Documentation

STATE OF CONNECTICUT
Department of Environmental Protection
UNDERGROUND STORAGE FACILITIES PROGRAM
HAZARDOUS MATERIALS MANAGEMENT UNIT
165 Capitol Avenue, Hartford, CT 06106
TEL. 566-4630

EPHM- 6 NEW 10/85

PLEASE TYPE. ALL THREE COPIES MUST BE LEGIBLE!
Refer to INSTRUCTIONS FOR FILING NOTIFICATION before completing form.

SECTION A — LOCATION

1a. ☐ FIRST NOTIFICATION OR b. ☒ SUBSEQUENT NOTIFICATION (If checked, enter No.)
SITE I.D.
2. PG. 1 OF 2
3. FOR STATE AGENCY USE ONLY — A. SITE I.D. / B. DATE RCVD BY D.E.P. / C. DATE ENTERED
D. GRID COORDINATES X Y
E. DOES FACILITY MEET NEW REQUIREMENTS? ☐ YES ☐ NO
4. LOCATION OF FACILITY — SITE NAME: NATIONAL Association Service Center — NO. AND STREET: 1 [illegible] RD — CITY OR TOWN: [illegible] — STATE: CT — ZIP CODE: [illegible] — NEAREST INTERSECTING STREET: [illegible] — LATITUDE: ° ' " — LONGITUDE: ° ' "
5. BUSINESS NAME AND 6. MAILING ADDRESS — NAME: [illegible] — NO. AND STREET: [illegible] — CITY OR TOWN: [illegible] — STATE: [illegible] — ZIP CODE: [illegible] — TELEPHONE: ( )
7. FACILITY OWNER — NAME: [illegible] — NO. AND STREET: [illegible] — CITY OR TOWN: [illegible] — STATE: CT — ZIP CODE: [illegible] — TELEPHONE: [illegible]

SECTION B

8. TYPE OF OWNER: ☐ PRIVATE ☐ STATE ☐ MUNICIPAL ☐ FEDERAL (G.S.A. No. _____)
9. OPERATOR/CONTACT PERSON — NAME: [illegible] — NO. AND STREET: [illegible] — CITY OR TOWN: [illegible] — STATE: CT — ZIP CODE: [illegible] — TELEPHONE: [illegible]

SECTION C

| 10. TANK ID | 11a. DATE OF INSTALLATION (Mo./Yr.) | 11b. LIFE EXPECTANCY (# of years) | 12a. TOTAL CAPACITY (Gals.) | 12 b. STATUS: IN USE | ABANDONED IN PLACE | EST. QUANTITY LEFT STORED (if any). (Gals.) | REMOVED | DATE TANK LAST USED (Mo./Yr.) | 13. TYPE OF CONTENTS: OIL/PETRO-LEUM PRODUCT | CHEMICAL LIQUID | 14. CONTENTS-CHEMICAL NAME OF PRINCIPAL SUBSTANCE (not trade name.) (Enter C.A.S. No., if known) | 15. CONSTRUCTION MATERIALS: STEEL | FIBERGLASS REINFORCED PLASTIC | OTHER (Specify from list A) | 16.PROTECTION a.INTERNAL: LINED | UNLINED | CATHODIC PROTECTION | b. EXTERNAL: COATED/WRAPPED | CATHODIC PROTECTION | OTHER (Specify from list B) | 17. INTEGRAL PIPING SYSTEM: a. CONSTRUCTION AND PROTECTION (See list A&B) | b. DATE OF INSTALLATION OR REPLACEMENT (Mo./Yr.) | 18. MONITORING SYSTEM (Specify type from list B) | 19. FAILURE DETERMINATION CONDUCTED? (If "YES", enter DATE and attach results). If "NO", enter "NO" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Example | 5/75 | 30 | 5000 | X | | | | | | | Heating fuel #2 | | X | | | X | | | | | U | NO |
| Example | 7/60 | - | 8000 | | | | X | 8/78 | | X | 1,1,1 - Trichloroethane CAS #79016 | X | | | | X | | | | E 7 | U | - |
| A1 | /19 | 30 | 550 | X | | | | | X | | [illegible] | X | | | X | | | X | | B | /73 | IO | NO |
| B2 | /19 | 30 | 550 | X | | | | | X | | [illegible] | X | | | X | | | X | | B | /73 | IO | NO |
| C3 | /19 | 30 | 5000 | X | | | | | X | | UNLEADED GASOLINE | X | | | X | | | X | | B | 10/89 | IO | 8-15-90 |
| D4 | /19 | 30 | 5000 | X | | | | | X | | UNLEADED GASOLINE | X | | | X | | | X | | B | 10/89 | IO | 7-9-90 |
| E5 | /19 | - | 10000 | | | | X | 1989 | X | | [illegible] | | | | | | | X | | B | | | |
| F6 | /19 | 30 | 550 | X | | | | | X | | [illegible] | | | | X | | | | | E 7 | I | NO |
| G7 | /19 | 30 | 110 | X | | | | | X | | [illegible] | X | | | X | | | X | | B | /73 | R | NO |
| H8 | /19 | - | 1000 | | | | X | 1989 | X | | Diesel | | | | | | | | | | | | |

20. HAVE YOU ATTACHED SKETCH OF TANKS AND LOCATION? ☒ YES

SECTION D

21. COMMENTS: All Tanks - Abandoned in Place
Current System
All Tanks to be Removed

22. CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. Penalties: any owner who knowingly fails to notify shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

22a. SIGNATURE: X
22b. DATE SIGNED: Oct 11 1990
22c. NAME (Type or Print): [illegible]
22d. OFFICIAL TITLE (of owner or authorized representative): Vice President

COPY 3: RETAIN FOR YOUR RECORDS

NORTHEAST UTILITIES
THE CONNECTICUT LIGHT AND POWER COMPANY
WESTERN MASSACHUSETTS ELECTRIC COMPANY
HOLYOKE WATER POWER COMPANY
NORTHEAST UTILITIES SERVICE COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY

General Offices • Selden Street, Berlin, Connecticut

P.O. BOX 270
HARTFORD, CONNECTICUT 06141-0270
(203) 665-5000

December 10, 1991

D05094

UST Coordinator
Department of Environmental Protection
165 Capitol Avenue
Hartford, CT 06106

Reference: Letter and Notification (D03879), C. F. Sears to F. Wacht, dated October 16, 1990.

Dear Sir or Madam:

Madison Service Center
Amended UST Notification

Northeast Utilities Service Company (NUSCO), as agent for The Connecticut Light and Power Company (CL&P), submits an amended Underground Storage Facility Notification for CL&P's Madison Service Center. This notification supersedes the notification submitted on October 16, 1990 (referenced).

The following changes have been made:

- Removal of Tank A1, 550-gallon hydraulic fluid UST
- Removal of Tank B2, 550-gallon motor oil UST
- Removal of Tank F6, 550-gallon waste oil UST

If you have any questions, please call Ms. Cynthia Karlic-Smith, NUSCO Generation and Environmental Licensing, at 665-3740.

Very truly yours,

NORTHEAST UTILITIES SERVICE COMPANY
As Agent for The Connecticut Light
and Power Company

FOR: C. F. Sears
Vice President

BY: W. D. Romberg
Vice President

cc w/Copy No. 2: Mr. Arthur W. Cunningham
Town Hall
8 Meeting House Lane
Madison, CT 06443

# FACILITY NOTIFICATION

**UNDERGROUND STORAGE FACILITIES PROGRAM**
HAZARDOUS MATERIALS MANAGEMENT UNIT
165 Capitol Avenue, Hartford, CT 06106
TEL. 566-4630

**PLEASE TYPE. ALL THREE COPIES MUST BE LEGIBLE!**
Refer to **INSTRUCTIONS FOR FILING NOTIFICATION** before completing form.

**SECTION A**

1a. ☐ FIRST NOTIFICATION
OR
b. ☒ SUBSEQUENT NOTIFICATION (If checked, enter No.)

SITE I.D.

3. FOR STATE AGENCY USE ONLY — A. SITE I.D. — B. DATE RCVD BY D.E.P. — C. DATE ENTERED

D. GRID COORDINATES X ____ Y ____ — E. DOES FACILITY MEET NEW REQUIREMENTS? ☐ YES ☐ NO

**SECTION B**

| | NAME | NO. AND STREET | NEAREST INTERSECTING STREET | CITY OR TOWN | STATE | 5. LATITUDE / LONGITUDE | TELEPHONE |
|---|---|---|---|---|---|---|---|
| 4. LOCATION OF FACILITY | MADISON REGIONAL SERVICE CTR | 135 NEW RD | DUCK HOLE RD | MADISON | CT | | |
| 6. BUSINESS NAME AND MAILING ADDRESS | NAME | NO. AND STREET | | CITY OR TOWN | STATE | ZIP CODE | TELEPHONE |
| 7. FACILITY OWNER | THE CONNECTICUT LIGHT + POWER CO. | P.O. Box 270 | | HARTFORD | CT | 06141-0270 | (203 665-5000 |
| 8. TYPE OF OWNER | ☐ PRIVATE ☐ STATE ☐ MUNICIPAL ☐ FEDERAL (G.S.A. No. ____) | | | | | | |
| OPERATOR/CONTACT 9. PERSON | NAME | NO. AND STREET | | CITY OR TOWN | STATE | ZIP CODE | TELEPHONE |

**SECTION C**

| 10. TANK ID. | 11a. DATE OF INSTALLATION (Mo./Yr.) | 11b. LIFE EXPECTANCY (# of years) | 12a. TOTAL CAPACITY (Gals.) | 12b. STATUS: IN USE | ABANDONED IN PLACE | EST. QUANTITY LEFT STORED (if any). (Gals.) | REMOVED | DATE TANK LAST USED (Mo./Yr.) | 13. TYPE OF CONTENTS: OIL/PETROLEUM PRODUCT | CHEMICAL LIQUID | 14. CONTENTS- CHEMICAL NAME OF PRINCIPAL SUBSTANCE (not trade name.) (Enter C.A.S. No., If known) | 15. CONSTRUCTION MATERIALS: STEEL | FIBERGLASS REINFORCED PLASTIC | OTHER (Specify from list A) | 16. PROTECTION a. INTERNAL: LINED | UNLINED | CATHODIC PROTECTION | b. EXTERNAL: COATED/WRAPPED | CATHODIC PROTECTION | OTHER (Specify from list B) | 17. INTEGRAL PIPING SYSTEM a. CONSTRUCTION MATERIAL (See list A) | PROTECTION (See list B) | b. DATE OF INSTALLATION OR REPLACEMENT (Mo./Yr.) | 18. MONITORING SYSTEM (Specify type from list B) | 19. FAILURE DETERMINATION CONDUCTED? (If "YES", enter DATE and attach results). (If "NO", enter "NO") |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Example | 5/75 | 30 | 5000 | X | | | | | X | | Heating fuel #2 | | X | | | X | | | | H | 3 | H | 5/75 | U | NO |
| Example | 7/60 | - | 8000 | | | | X | 8/78 | | X | 1, 1, 1, - Trichloroethane CAS #79016 | X | | | | X | | | | E | 7 | W | 7/60 | U | - |
| A1 | /73 | - | 550 | | | | X | 11/91 | X | | HYDRAULIC FLUID | | | | | | | | | | | | | | |
| B2 | /73 | - | 550 | | | | X | 11/91 | X | | MOTOR OIL | | | | | | | | | | | | | | |
| C3 | /73 | 30 | 5000 | X | | | | | X | | UNLEADED GASOLINE | X | | | | X | | | X | E A | 8 | W C | 10/89 | I,O | 8-15-90 |
| D4 | /73 | 30 | 5000 | X | | | | | X | | UNLEADED GASOLINE | X | | | | X | | | X | E A | 8 | W C | 10/89 | I,O | 7-24-90 |
| E5 | /73 | - | 10000 | | | | X | 8/89 | X | | UNLEADED GASOLINE | | | | | | | | | | | | | | |
| F6 | /73 | - | 550 | | | | X | 11/91 | X | | WASTE OIL | | | | | | | | | | | | | | |
| G7 | /73 | 30 | 170 | X | | | | | X | | HYDRAULIC FLUID | X | | | | X | | | X | E F | 8 | W C | /73 | R | NO |
| H8 | /73 | - | 1500 | | | | X | /89 | X | | DIESEL | | | | | | | | | | | | | | |

**SECTION D**

20. HAVE YOU ATTACHED SKETCH OF TANKS AND LOCATION? ☐ YES

21. **COMMENTS:** All tanks - 16b + 17a - Impressed current system
G7 - 16b - Tank is vaulted

22. CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. **Penalties:** any owner who knowingly fails to notify shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

22a. SIGNATURE: X W D Romberg — 22b. DATE SIGNED: 12-10-91

22c. NAME (Type or Print): W.D. Romberg — 22d. OFFICIAL TITLE (of owner or authorized representative): Vice President

**COPY 1:** SEND TO DEP: 165 CAPITOL AVE. HARTFORD, CT 06106

NORTHEAST UTILITIES
THE CONNECTICUT LIGHT AND POWER COMPANY
WESTERN MASSACHUSETTS ELECTRIC COMPANY
HOLYOKE WATER POWER COMPANY
NORTHEAST UTILITIES SERVICE COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY

General Offices • Selden Street, Berlin, Connecticut

P.O. BOX 270
HARTFORD, CONNECTICUT 06141-0270
(203) 665-5000

December 10, 1991

D05094

UST Coordinator
Department of Environmental Protection
165 Capitol Avenue
Hartford, CT 06106

Reference: Letter and Notification (D03879), C. F. Sears to F. Wacht, dated October 16, 1990.

Dear Sir or Madam:

Madison Service Center
Amended UST Notification

Northeast Utilities Service Company (NUSCO), as agent for The Connecticut Light and Power Company (CL&P), submits an amended Underground Storage Facility Notification for CL&P's Madison Service Center. This notification supersedes the notification submitted on October 16, 1990 (referenced).

The following changes have been made:

- Removal of Tank A1, 550-gallon hydraulic fluid UST
- Removal of Tank B2, 550-gallon motor oil UST
- Removal of Tank F6, 550-gallon waste oil UST

If you have any questions, please call Ms. Cynthia Karlic-Smith, NUSCO Generation and Environmental Licensing, at 665-3740.

Very truly yours,

NORTHEAST UTILITIES SERVICE COMPANY
As Agent for The Connecticut Light
and Power Company

FOR: C. F. Sears
Vice President

BY: _____
W. D. Romberg
Vice President

cc w/Copy No. 2: Mr. Arthur W. Cunningham
Town Hall
8 Meeting House Lane
Madison, CT 06443

# FACILITY NOTIFICATION

**UNDERGROUND STORAGE FACILITIES PROGRAM**
HAZARDOUS MATERIALS MANAGEMENT UNIT
165 Capitol Avenue, Hartford, CT 06106
TEL. 566-4630

**PLEASE TYPE. ALL THREE COPIES MUST BE LEGIBLE!**
Refer to **INSTRUCTIONS FOR FILING NOTIFICATION** before completing form.

3. FOR STATE AGENCY USE ONLY — A. SITE I.D. — B. DATE RCVD BY D.E.P. — C. DATE ENTERED

D. GRID COORDINATES X ____ Y ____ — E. DOES FACILITY MEET NEW REQUIREMENTS? ☐ YES ☐ NO

**SECTION A**

1a. ☐ FIRST NOTIFICATION OR
b. ☒ SUBSEQUENT NOTIFICATION (If checked, enter No.) — SITE I.D.

**SECTION B**

| | | | | | | |
|---|---|---|---|---|---|---|
| 4. LOCATION OF FACILITY | SITE NAME: MADISON REGIONAL SERVICE CTR | NO. AND STREET: 135 NEW RD | NEAREST INTERSECTING STREET: DUCK HOLE RD | CITY OR TOWN: MADISON | STATE: CT | 5. LATITUDE ° ' " / LONGITUDE ° ' " |
| 6. BUSINESS NAME AND MAILING ADDRESS | NAME | NO. AND STREET | | CITY OR TOWN | STATE | ZIP CODE / TELEPHONE ( ) |
| 7. FACILITY OWNER | NAME: THE CONNECTICUT LIGHT + POWER CO. | NO. AND STREET: P.O. Box 270 | | CITY OR TOWN: HARTFORD | STATE: CT | ZIP CODE: 06141-0270 / TELEPHONE: (203) 665-5000 |
| 8. TYPE OF OWNER | ☐ PRIVATE ☐ STATE ☐ MUNICIPAL ☐ FEDERAL (G.S.A. No. ____) | | | | | |
| 9. OPERATOR/CONTACT PERSON | NAME | NO. AND STREET | | CITY OR TOWN | STATE | ZIP CODE / TELEPHONE ( ) |

**SECTION C**

| 10. TANK ID. | 11a. DATE OF INSTALLATION (Mo./Yr.) | 11b. LIFE EXPECTANCY (If unknown) | 12a. TOTAL CAPACITY (Gals.) | 12 b. STATUS: IN USE | ABANDONED IN PLACE | EST. QUANTITY LEFT STORED (if any). (Gals.) | REMOVED | DATE TANK LAST USED (Mo./Yr.) | 13. TYPE OF CONTENTS: OIL/PETROLEUM PRODUCT | CHEMICAL LIQUID | 14. CONTENTS- CHEMICAL NAME OF PRINCIPAL SUBSTANCE (not trade name.) (Enter C.A.S. No., if known) | 15. CONSTRUCTION MATERIALS: STEEL | FIBERGLASS REINFORCED PLASTIC | OTHER (Specify from list A) | 16.PROTECTION a.INTERNAL: LINED | UNLINED | CATHODIC PROTECTION | b. EXTERNAL: COATED/WRAPPED | CATHODIC PROTECTION | OTHER (Specify from list B) | 17. INTEGRAL PIPING SYSTEM a. CONSTRUCTION MATERIAL (See list A) | PROTECTION (See list B) | b. DATE OF INSTALLATION OR REPLACEMENT (Mo./Yr.) | 18. MONITORING SYSTEM (Specify type from list B) | 19. FAILURE DETERMINATION CONDUCTED? (If "YES", enter DATE and attach results). (If "NO", enter "NO") |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Example | 5/75 | 30 | 5000 | X | | | | | X | | Heating fuel #2 | | X | | | X | | | | H | 3 | H | 5/75 | U | NO |
| Example | 7/60 | - | 8000 | | | | X | 8/78 | | X | 1, 1, 1, - Trichloroethane CAS #79016 | X | | | | X | | | | E | 7 | W | 7/60 | U | — |
| A1 | /73 | - | 550 | | | | X | 11/91 | X | | HYDRAULIC FLUID | | | | | | | | | | | | | | |
| B2 | /73 | - | 550 | | | | X | 11/91 | X | | MOTOR OIL | | | | | | | | | | | | | | |
| C3 | /73 | 30 | 5000 | X | | | | | X | | UNLEADED GASOLINE | X | | | | X | | | X | E A | 8 | W C | 10/89 | I,O | 8-15-90 |
| D4 | /73 | 30 | 5000 | X | | | | | X | | UNLEADED GASOLINE | X | | | | X | | | X | E A | 8 | W C | 10/89 | I,O | 7-24-90 |
| E5 | /73 | - | 10000 | | | | X | 8/89 | X | | UNLEADED GASOLINE | | | | | | | | | | | | | | |
| F6 | /73 | - | 550 | | | | X | 11/91 | X | | WASTE OIL | | | | | | | | | | | | | | |
| G7 | /73 | 30 | 170 | X | | | | | X | | HYDRAULIC FLUID | X | | | | X | | | X | E F | 8 | W C | /73 | R | NO |
| H8 | /73 | - | 1500 | | | | X | /89 | X | | DIESEL | | | | | | | | | | | | | | |

**SECTION D**

20. HAVE YOU ATTACHED SKETCH OF TANKS AND LOCATION? ☐ YES

21. **COMMENTS:** All tanks - 16b + 17a - Impressed current system
G7 - 16b - Tank is vaulted

22. CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. Penalties: any owner who knowingly fails to notify shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

22a. SIGNATURE: X W D Romberg — 22b. DATE SIGNED: 12-10-91

22c. NAME (Type or Print): W.D. Romberg — 22d. OFFICIAL TITLE (of owner or authorized representative): Vice President

**COPY 1:** SEND TO DEP: 165 CAPITOL AVE. HARTFORD, CT 06106

NORTHEAST UTILITIES
THE CONNECTICUT LIGHT AND POWER COMPANY
WESTERN MASSACHUSETTS ELECTRIC COMPANY
HOLYOKE WATER POWER COMPANY
NORTHEAST UTILITIES SERVICE COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY

General Offices • Selden Street, Berlin, Connecticut

P.O. BOX 270
HARTFORD, CONNECTICUT 06141-0270
(203) 665-5000

February 3, 1992

D05244

UST Coordinator
Department of Environmental Protection
165 Capitol Avenue
Hartford, CT 06106

Reference: Letter and Notification (D05094), C. F. Sears to UST Coordinator, dated December 10, 1991.

Dear Sir or Madam:

Madison Service Center
Amended UST Notification

Northeast Utilities Service Company (NUSCO), as agent for The Connecticut Light and Power Company (CL&P), submits an amended Underground Storage Facility Notification for CL&P's Madison Service Center. This notification supersedes the notification submitted on December 10, 1991 (referenced).

The following changes have been made:

- Removal of Tank C3, 10,000-gallon unleaded gasoline UST
- Removal of Tank D4, 10,000-gallon unleaded gasoline UST

If you have any questions, please call Ms. Cynthia Karlic-Smith, NUSCO Generation and Environmental Licensing, at 665-3740.

Very truly yours,

NORTHEAST UTILITIES SERVICE COMPANY
As Agent for The Connecticut Light
and Power Company

C. F. Sears
Vice President

cc w/Copy No. 2: Mr. Arthur W. Cunningham
Town Hall
8 Meeting House Lane
Madison, CT 06443

PLEASE TYPE: COMPLETE ALL SECTIONS OF FORM

SECTION A

1a. ☐ FIRST NOTIFICATION OR b. ☒ SUBSEQUENT NOTIFICATION (If checked, enter No.) ____

SITE I.D. ____

UNDERGROUND STORAGE TANKS PROGRAM
HAZARDOUS MATERIALS MANAGEMENT UNIT
165 Capitol Avenue, Hartford, CT 06106
TEL. 566-4630

PLEASE TYPE. ALL THREE COPIES MUST BE LEGIBLE!
Refer to INSTRUCTIONS FOR FILING NOTIFICATION before completing form.

3. FOR STATE AGENCY USE ONLY — B. DATE RCVD BY D.E.P. — C. DATE ENTERED

D. GRID COORDINATES X ____ Y ____ — E. DOES FACILITY MEET NEW REQUIREMENTS? ☐ YES ☐ NO

SECTION B

4. LOCATION OF FACILITY — SITE NAME: Madison Service Center — NO. AND STREET: 135 New Road — NEAREST INTERSECTING STREET: Duck Hole Road — CITY OR TOWN: Madison — STATE: CT — 5. LATITUDE ° ' " — LONGITUDE ° ' "

6. BUSINESS NAME AND MAILING ADDRESS — NAME — NO. AND STREET — CITY OR TOWN — STATE — ZIP CODE — TELEPHONE

7. FACILITY OWNER — NAME: The Connecticut Light & Power Company — NO. AND STREET: P.O. Box 270 — CITY OR TOWN: Hartford — STATE: CT — ZIP CODE: 06141-0270 — TELEPHONE: (203) 665-5000

8. TYPE OF OWNER — ☐ PRIVATE ☐ STATE ☐ MUNICIPAL ☐ FEDERAL (G.S.A. No. ____) — NAME — NO. AND STREET — CITY OR TOWN — STATE — ZIP CODE — TELEPHONE

OPERATOR/CONTACT PERSON — NAME — NO. AND STREET — CITY OR TOWN — STATE — ZIP CODE — TELEPHONE

SECTION C

| 10 TANK ID | 11a. DATE OF INSTALLATION (Mo./Yr.) | 11b. USE EXPECTANCY (8 or more) | 12a. TOTAL CAPACITY (Gals.) | 12 b. STATUS: IN USE | ABANDONED IN PLACE | REMOVED | EST. QUANTITY LEFT STORED (if any). (Gals.) | DATE TANK LAST USED (Mo./Yr.) | 13. TYPE OF CONTENTS: OIL/PETRO-LEM PRODUCT | CHEMICAL | LIQUID | 14. CONTENTS-CHEMICAL NAME OF PRINCIPAL SUBSTANCE (not trade name.) (Enter C.A.S. No., if known) | 15. CONSTRUCTION MATERIALS: STEEL | FIBERGLASS REINFORCED PLASTIC | OTHER (Specify from list A) | 16. PROTECTION a. INTERNAL: UNLINED | a. INTERNAL: LINED | b. EXTERNAL: CATHODIC PROTECTION | b. EXTERNAL: COATED/WRAPPED | b. EXTERNAL: CATHODIC PROTECTION | b. EXTERNAL: OTHER (Specify from list B) | 17. INTEGRAL PIPING SYSTEM a. CONSTRUCTION MATERIAL | b. DATE OF INSTALLATION OR REPLACEMENT (Mo./Yr.) | 18. MONITORING SYSTEM (Specify type from list B) | 19. FAILURE DETERMINATION CONDUCTED? (If "YES", enter DATE and attach results). (If "NO", enter "NO") |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Example | 5/75 | 30 | 5000 | X | | | | | X | | | Heating fuel #2 | | X | | | X | | | | H | 3 | H | 5/75 | U | NO |
| Example | 7/60 | - | 8000 | | | X | 8/78 | | | X | | 1,1,1 - Trichloroethane CAS #79016 | X | | | | X | | | | E | 7 | W | 7/60 | U | — |
| A1 | /73 | - | 550 | | | X | 11/91 | X | | | | Hydraulic Fluid | | | | | | | | | | | | | | |
| B2 | /73 | - | 550 | | | X | 11/91 | X | | | | Motor Oil | | | | | | | | | | | | | | |
| C3 | /73 | - | 5000 | | | X | 1/92 | X | | | | Unleaded Gasoline | | | | | | | | | | | | | | |
| D4 | /73 | - | 5000 | | | X | 1/92 | X | | | | Unleaded Gasoline | | | | | | | | | | | | | | |
| E5 | /73 | - | 10000 | | | X | 8/89 | X | | | | Unleaded Gasoline | | | | | | | | | | | | | | |
| F6 | /73 | - | 550 | | | X | 11/91 | X | | | | Waste Oil | | | | | | | | | | | | | | |
| G7 | /73 | 30 | 170 | X | | | | | | X | | Hydraulic Fluid | X | | | | X | | | X | BP | 8 | WC | /73 | R | NO |
| H8 | /73 | - | 1500 | | | X | /89 | X | | | | Diesel | | | | | | | | | | | | | | |

SECTION D

20. HAVE YOU ATTACHED SKETCH OF TANKS AND LOCATION? ☐ YES

21. COMMENTS: G7-16b-Tank is vaulted.

22. CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted on this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I further certify that I am the owner who knowingly fails to notify shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted

22a. SIGNATURE: X C.F. Sears — 22b. DATE SIGNED: February 3,1992

22c. NAME (Type or Print): C.F. Sears — 22d. OFFICIAL TITLE (of owner or authorized representative): Vice President

COPY 1: SEND TO DEP: 165 CAPITOL AVE. HARTFORD, CT 06106

**Northeast Utilities System**

107 Selden Street, Berlin, CT 06037

Northeast Utilities Service Company
P.O. Box 270
Hartford, CT 06141-0270
(860) 665-3055
Fax (860) 665-5838

Dennis E. Welch
Vice President - Environmental, Safety and Ethics

December 21, 1998

D13590

UST Coordinator
Department of Environmental Protection
79 Elm Street
P.O. Box 5066
Hartford, CT 06106-5127

Dear Sir or Madam:

Madison Regional Service Center
Amended UST Notification

The Connecticut Light and Power Company herein submits an amended underground storage facility notification form for the removal of three underground storage tanks at the Madison Regional Service Center.

If you have any questions or require additional information, call Mr. Rexford T. Myers, Northeast Utilities Service Company Environmental Services, at (860) 665-3831.

Very truly yours,

THE CONNECTICUT LIGHT AND POWER COMPANY

D. E. Welch

cc:

Copy #2:

Mr. Sheldon Inkster, Fire Marshall
Madison Town Hall
8 Campus Drive
Madison, CT 06443

# UNDERGROUND STORAGE FACILITY NOTIFICATION

2. PG 1 of 1

STATE OF CONNECTICUT
*Department of Environmental Protection*
UNDERGROUND STORAGE FACILITIES PROGRAM
Bureau of Waste Management
79 ELM STREET, Hartford, CT 06106-5127
TEL. (860) 424-3374

PLEASE TYPE OR PRINT. ALL THREE COPIES MUST BE LEGIBLE
Refer to INSTRUCTIONS FOR FILING NOTIFICATION before completing form

EPHM 6 Rev 5/94

3. FOR STATE AGENCY USE ONLY | A DATE ENTERED | B FEE BILLED | C FEE RECEIVED

D GRID COORDINATES: X Y | E DOES FACILITY MEET NEW REQUIREMENTS? ☐ YES ☐ NO

SECTION A

1a ☐ FIRST NOTIFICATION
OR
b ☒ SUBSEQUENT NOTIFICATION (if checked, enter no.) SITE ID 8475

SECTION B

| | | | | | | |
|---|---|---|---|---|---|---|
| 4. LOCATION OF FACILITY | SITE NAME: Madison Regional Service Center | NO. AND STREET: 135 New Road | NEAREST INTERSECTING STREET | CITY OR TOWN: Madison | STATE: CT | 5 LATITUDE ° ' " / LONGITUDE ° ' " |
| 6. BUSINESS NAME AND MAILING ADDRESS | NAME | NO. AND STREET | | CITY OR TOWN | STATE | ZIP CODE / TELEPHONE ( ) |
| 7. FACILITY OWNER | NAME: The Connecticut Light & Power Company | NO. AND STREET: P. O. Box 270 | | CITY OR TOWN: Hartford | STATE: CT | ZIP CODE: 06141 / TELEPHONE ( ) |
| 8. TYPE OF OWNER | ☒ PRIVATE ☐ STATE ☐ MUNICIPAL ☐ FEDERAL (G.S.A. NO. ) | | | | | |
| 9. OPERATOR/CONTACT PERSON | NAME: Barry Locke | NO. AND STREET: 48 Tolland Stage Road | | CITY OR TOWN: Tolland | STATE: CT | ZIP CODE: 06084 / TELEPHONE: (860) 871-3433 |

SECTION C

| 10 TANK ID | 11a DATE OF INSTALLATION (Mo./Yr.) | 11b TO BE EXPECTED TO BE USED | 12a TOTAL CAPACITY (Gals.) | 12b STATUS: IN USE | ABANDONED IN PLACE | EST. QUANTITY LEFT STORED (If any) (Gals.) | REMOVED | DATE TANK LAST USED (Mo./Yr.) | 13 TYPE OF CONTENTS: PETROLEUM | CHEMICAL/LIQUID | 14 CONTENTS: CHEMICAL NAME OF PRINCIPAL SUBSTANCE (not trade name) (Enter C.A.S. No., if known) | 15 CONSTRUCTION MATERIALS: STEEL | FIBERGLASS REINFORCED PLASTIC | OTHER (Specify) | 16 PROTECTION a INTERNAL: LINED | UNLINED | CATHODIC PROTECTION | b EXTERNAL: COATED & WRAPPED | CATHODIC PROTECTION | OTHER (Specify from List B) | 17 INTEGRAL PIPING SYSTEM a CONSTRUCTION MATERIAL (See List A) | b PROTECTION (See List B) | DATE OF INSTALLATION OR REPLACEMENT (Mo./Yr.) | 18 MONITORING SYSTEM (Specify type from list B) | 19 FAILURE DETERMINATION CONDUCTED? (If "YES", enter "DATE" and attach results) (If "NO", enter "NO") |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Example | 5/75 | 30 | 5000 | X | | | | | X | | Heating fuel #2 | | X | | | X | | | | H | 3 | H | 5/75 | U | NO |
| Example | 7/60 | – | 8000 | | | | X | 8/78 | | X | 1,1,1 - Tricloroethane CAS #79016 | X | | | | X | | | | E | 7 | W | 7/60 | U | – |
| 1 | 1/73 | | 550 | | | | X | 11/93 | | | | | | | | | | | | | | | | | |
| 2 | 1/73 | | 550 | | | | X | 11/93 | | | | | | | | | | | | | | | | | |
| 6 | 1/73 | | 550 | | | | X | 11/93 | | | | | | | | | | | | | | | | | |

SECTION D

20. HAVE YOU ATTACHED SKETCH OF TANKS AND LOCATION? ☐ YES

21. COMMENTS:

22. CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete.
**Penalties:** any owner who knowingly fails to notify shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

22a SIGNATURE: X

22b DATE SIGNED:

22c NAME (Type or Print): D. E. Welch

22d. OFFICIAL TITLE (of owner or authorized representative): Vice President

**COPY 1:** SEND TO DEP: 79 ELM ST. HARTFORD, CT 06106

The Connecticut Light and Power Company
d/b/a Eversource Energy
Docket No. 26-05-10
Date Issued September 29, 2026
RSR-032 Attachment 119
Page 43 of 325

# Proposed Soil Venting System at CL&P's Madison Area Work Center

Madison, Connecticut

Prepared by

Northeast Utilities Service Company
P.O. Box 270
Hartford, Connecticut 06141-0270

March 1992

LS2127L7.07D

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## LIST OF ATTACHMENTS
(at end of report)

1. Results of Soil Gas Survey on August 10, 1989
2. Results of Tank Testing on January 7, 1992
3. Results of Laboratory Analysis

## LIST OF FIGURES
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1. Site Map Showing Soil Venting Well Locations
2. Cross-Section of Soil Venting Wells
3. Cross-Section of Soil Venting System
4. Plan View of Soil Venting System

BACKGROUND

Over the past 1½ years, Northeast Utilities Service Company (NUSCO) has been involved in a groundwater cleanup operation for gasoline at the CL&P Madison Area Work Center. The original source of this gasoline contamination was a 10,000-gallon unleaded UST. On August 10, 1989, NUSCO personnel conducted a soil gas survey in the vicinity of the UST, due to discrepancies with the weekly gasoline inventory records. The result of the survey indicated there was evidence of gasoline from the tank at several vapor points (VP) (VP-4, VP-5, VP-6, VP-7, VP-8) and piping (VP-1, VP-2, VP-3) (Attachment 1). The highest volatile organic hydrocarbon vapor readings were noted from 3 to 5 feet below grade (refusal). On August 18, 1989, a precision tank test was performed on the UST, and passed with a leak rate of 0.016 gal/hr. Further investigation led to the uncovering of the vent and suction lines, and a crack was found in the fiberglass vent line. The 10,000-gallon UST was then removed on August 30, 1989.

The Madison Area Work Center continued to operate two 5,000-gallon unleaded gasoline USTs at the site. On November 21, 1991, during a routine maintenance inspection of the groundwater recovery/treatment system, free gasoline was detected in four monitor wells downgradient of the USTs. It appeared that surface spillage was the probable cause; however, the exact source of the contamination could not be identified. The USTs were pumped out on November 27, 1991. On January 7, 1992, tank precision tests were performed by TEL Enterprises, Inc. on both tanks. The results (Attachment 2) showed failing leak rates for both tanks. NUSCO then decided to remove these tanks based on the age of the tanks (19 years), construction (single-walled steel), and past groundwater problems at the site.

UST REMOVAL

On January 14, 1992, the two USTs were removed by BGL Corporation, Inc. During the tank removals, the Madison Fire Marshal was present. At the time of

the removals, strong gasoline odors were detected emanating from the excavation pits. However, only pit #2 contained visibly contaminated soil (see Figure 1). All visibly contaminated soil (approximately 10 yards) was placed on a plastic liner and covered until disposal could be arranged. The bottom of each excavation pit intersected the water table, and no free product was observed. Soil samples were collected from the sidewalls, and bottom of both excavation pits. A total of four sidewall samples and two floor bottom samples were collected from each excavation pit. The soil samples were sent to Laboratory Resources (Brooklyn, Connecticut) for analysis of volatile organic hydrocarbon compounds (EPA Method 8010/8020), methyl-tert-butyl-ether (MTBE), and EP-Toxicity metals. Once the soil samples were collected, NUSCO contacted Mr. Matt DeCaprio, State of Connecticut, Oil and Chemical Spills Group, and requested and received permission to place all remaining soil which was not visibly contaminated back into the excavation pits, with the understanding that NUSCO would treat the soil in place through the use of a soil venting system. The following provides the soil sample results and description of the soil venting system as requested.

SOIL SAMPLE RESULTS

The results of the pit #1 bottom sample showed no metals concentrations exceeding their EP toxicity limit (Attachment 3). However, volatile hydrocarbon analysis revealed high levels of toluene (2,800 ppb), ethylbenzene (6,000 ppb), and xylenes (25,000 ppb) compounds in the soil. Inadvertently, sidewall samples from pit #1 were not analyzed, which was first determined after the shelf life had been exceeded, and therefore cannot be reported.

The results of the sidewall soil samples for pit #2 showed the north, south, east, and west walls to contain nondetectable levels of volatile organic hydrocarbons (8010/8020). However, the volatile hydrocarbon analysis of the pit #2 bottom sample contained high levels of toluene (12,000 ppb), ethylbenzene (38,000 ppb),

and xylenes (270,000 ppb). No metals concentrations exceeded their EP toxicity limit.

The results of the soil pile (obtained from pit #2) volatile organic hydrocarbon analysis (8010/8020) showed high levels of toluene (15,000 ppb), ethylbenzene (12,000 ppb), and xylenes (280,000 ppb), and a Total Petroleum Hydrocarbon (TPH) reading of 1,300 ppm. No EP toxicity parameter exceeded its specified limit, and no PCBs were detected.

INSTALLATION OF SOIL VENTING SYSTEM

In order to implement the soil venting system, 4" diameter Schedule 40 (.020") slot PVC well screens were placed in the pits during backfilling, at approximately 5-foot intervals, to best allow for the remediation of each excavation pit (see Figure 1). The bottom of each vent well intersected the water table approximately 6". A layer of 6 mil plastic sheeting was placed in the excavation pit approximately 1 foot below grade. This impermeable layer was added to allow the vent wells to fully remediate the surrounding soils (Figure 2). The three vent wells were manifolded together and the discharge line was run underground to the garage building.

The treatment equipment will be piped together using a teflon-based compound (Rectorseal #5) in order to prevent interference with chemical analysis over the course of the remediation. The treatment system will consist of a 2.5 HP 230/460V ring compressor with a 2" in-line filter, a 55-gallon condensate tank, and two 55-gallon granular activated charcoal canisters (Figures 3 and 4). Sampling ports will be located in the 2" PVC piping to measure influent concentrations from the two pits, as well as for measuring concentrations between the charcoal canisters and the discharge to the atmosphere. The concentrations will be measured using a Photovac TIP II photoionization detector (PID). This device is capable of providing a semiquantitative measurement of volatile organic compounds (VOCS) typically present in petroleum derivatives. In addition to (PID) readings, a tedlar bag

sample will be collected at start-up from each pit, and analyzed by EPA Method 601/602 (GC/FID). This analysis is more compatible with the readings that will be obtained via the (PID), which responds to volatiles in the air within a 10.6eV range on a UV detector. A maximum effluent concentration of 1 ppm (as measured by the PID) will be established for changeout of the carbon canisters.

FREE PRODUCT REMOVAL

Since November 26, 1991, NUSCO has incorporated the use of hand bailing and small skimmer pumps in several of the downgradient monitor and recovery wells in an effort to recover the free gasoline that was released. To date, approximately 2½ gallons of gasoline have been recovered. This effort will continue until all traces of free gasoline are removed. As of February 20, 1992, there is approximately ½" of gasoline in MW-1, and ⅛" in both RW-3 and MW-14 left to be recovered.

CONCLUSIONS AND RECOMMENDATIONS

The Madison Area Work Center is involved in a groundwater cleanup operation. On November 21, 1991, free gasoline was detected in several downgradient monitor wells. Both of the sites' 5,000-gallon unleaded USTs failed tank precision tests, and, as a result, NUSCO made the decision to remove both tanks and is exploring the possibility of replacing these USTs with aboveground tanks.

During the excavation of the USTs, visually contaminated soil was detected which was stockpiled on site and covered with plastic until disposal could be arranged. The remaining soil was placed back in the pits after NUSCO requested and received permission from the CT DEP Oil and Chemical Spills Group to treat this soil in place via a soil venting system, which has been successful at other NUSCO facilities. NUSCO is confident that the soil venting system will remediate any residual contamination left in the soil, and will result in the expedited cleanup of the

groundwater at the site. Quarterly progress reports will be submitted to the DEP to document the progress of the cleanup operation.