



Prepared for:  
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# PERIODIC REVIEW REPORT

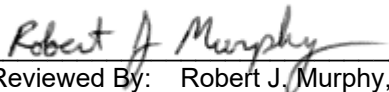
Wyoming County Fire Training Center  
3651 Wethersfield Road  
Wethersfield, New York  
Voluntary Cleanup (Site V-00604-9)

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## Executive Summary

This triennial (every three years) Periodic Review Report (PRR) is being provided to the New York State Department of Environmental Conservation (NYSDEC) as required by the June 2011 (as amended April 2022) Site Management Plan (SMP) for the Wyoming County Fire Training Center (WCFTC or Site). The report covers the period from September 5, 2021, through September 20, 2024.

The WCFTC is located at 3651 Wethersfield Road in the Town of Wethersfield, Wyoming County, New York (**Figure 1**). Flammable liquids consisting of solvents, petroleum products, paint thinners, degreasers, etc. were brought to the WCFTC and stored in an on-site aboveground storage tank (AST) and in drums. Liquids from the AST were conveyed to two sub-grade concrete-lined fire pits, then ignited, and subsequently extinguished during fire training exercises. The AST, fire pits, underground piping and drum storage area were all located on approximately one acre in the eastern portion of the WCFTC facility.

A series of Remedial Investigations (RI) were performed from 2001 to 2005 to characterize the nature and extent of contamination at the Site. Investigation data showed that soil in four areas; the former AST area, the former north and south fire pit areas, and the former drum storage area were impacted by volatile organic compounds (VOCs). Groundwater on Site and at two adjacent County-owned parcels located immediately east of the WCFTC had also been impacted by VOCs.

The County entered into a Voluntary Cleanup Agreement (VCA) #B9-0623-02-09, Site #V-00604-9, with the NYSDEC on October 24, 2002, to remediate the Site.

Remedial activities consisting of drum removal, AST removal, contaminated soil excavation, in-situ chemical oxidation in VOC source areas, and installation of two permeable reactive walls (PRWs; **Figure 2**) were conducted by AECOM (formerly URS) in accordance with NYSDEC-approved work plans. Initial remedial activities were completed in November 2006. A supplemental remedial action consisting of the emplacement of additional zero valent iron (ZVI)/sand in the north PRW was completed in May 2009, at the request of the NYSDEC.

Following submission of a SMP, a Final Engineering Report, and filing of a Declaration of Covenants and Restrictions, NYSDEC issued a release and covenant not to sue to the County for the Site on February 19, 2014.

A quarterly groundwater monitoring program was initiated following remedy implementation (i.e., January 2007) to monitor the progress and effectiveness of the remedial actions in achieving the Remedial Action Objectives (RAOs). Frequency of groundwater monitoring was changed to annually following acceptance of the SMP in 2011. Following submittal of the 2015 PRR, the NYSDEC agreed to the current biennial (i.e., every two years) groundwater sampling schedule. The currently approved biennial monitoring well sampling program includes wells MW-02, MW-07, MW-12, and MW-15. The SMP monitoring program also includes annual sampling of a nearby surface water/spring location and water sampling of two nearby potable residential wells (i.e., Becker and Schell residences). Following the submittal of the 2021 PRR, the NYSDEC agreed to current triennial periodic reviews.

Groundwater sampling for this reporting period was completed on May 25, 2023. Total VOC concentrations in MW-02 increased slightly during this reporting period when compared to results from

the previous August 18, 2021, event. However, the May 25, 2023, VOC concentrations were within the historical range of values. Total VOC concentrations in MW-07, MW-12, and MW-15 were within the historical ranges for these wells.

Residential well and surface water/spring sampling was performed on August 25, 2022, May 25 and 26, 2023, and July 5, 2024. The results for the August 2022 and May 2023 samples were within the historical range of results. Results of potable well sampling showed only the presence of acetone (i.e., 8.5 micrograms per liter (ug/L)) in the Schell residential well sample collected during the July 2024 sampling event; well below the NYSDEC SCG for acetone of 50 ug/L.

Site-wide inspections, including inspection of the engineering control systems (i.e., north and south PRWs) were performed on August 25, 2022, May 25, 2023, and September 20, 2024. All elements of the remedial program were found to be in good condition.

Ongoing facility expansion construction activities were underway at the time of the September 20, 2024, site-wide inspection. Facility expansion activities include demolition of a portion of the existing building and construction of a larger addition to the building; construction of a new vestibule; parking lot improvements; removal and replacement of the existing septic system. All planned activities are outside of historically impacted areas and are not expected to encounter impacted media. All activities are being performed in accordance with the Excavation Work Plan (EWP) portion of the SMP.

Based on results of monitoring and inspections conducted during this reporting period and consistent with the SMP, the remedial program at the Site continues to be protective of human health and the environment. All applicable components of the SMP have been complied with during this reporting period. No changes in the remedial program or monitoring plans are recommended at this time.

## 1.0 INTRODUCTION

AECOM Technical Services, Inc. (AECOM; formerly URS) was contracted by Wyoming County to perform routine monitoring and prepare a Periodic Review Report (PRR) for the Wyoming County Fire Training Facility (WCFTC) located at 3651 Wethersfield Road, Wethersfield, New York (hereinafter referred to as the "Site"). This PRR presents the results of routine monitoring and inspections for the period from September 5, 2021, through September 20, 2024.

### 1.1 Site Location, Description and History

The WCFTC is located at 3651 Wethersfield Road in the Town of Wethersfield, Wyoming County, New York (**Figure 1**). The facility is located on the north side of Wethersfield Road approximately one-half mile east of the intersection with Poplar Tree Road.

The WCFTC was operated by Wyoming County commencing in the 1970s. Flammable liquids, consisting of solvents, petroleum products, paint thinners, degreasers, etc., were brought to the WCFTC and stored in an on-site aboveground storage tank (AST) and in drums. Liquids from the AST were conveyed to two sub-grade concrete-lined fire pits (i.e., north and south pits) via an underground steel piping/valve system. The flammable liquids were ignited and subsequently extinguished during fire training exercises. The AST, fire pits, underground piping and drum storage area were located on about one acre in the eastern portion of the WCFTC.

A series of Remedial Investigations (RI) were performed from 2001 to 2005 to characterize the nature and extent of contamination at the Site. Investigation data showed that soil in four areas; the former AST area, the former north and south fire pit areas, and the former drum storage area was impacted by volatile organic compounds (VOCs). Groundwater on Site and at two adjacent County-owned parcels located immediately east of the WCFTC had also been impacted by VOCs.

The County subsequently entered into a Voluntary Cleanup Agreement (VCA) #B9-0623-02-09, Site #V-00604-9, with the NYSDEC on October 24, 2002, to remediate the Site. The Remedial Action Objectives (RAOs) identified in the Final Engineering Report (FER) (URS, February 2012) included the following:

- Groundwater RAOs
  - Restore groundwater aquifer, to the extent practicable, to pre-disposal/pre-release conditions.
  - Prevent the discharge of contaminants to surface water.
  - Remove the source of groundwater contamination.
- Soil RAOs
  - Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Surface Water RAOs
  - Prevent surface water contamination.

- Restore surface water to ambient water quality standards for each contaminant of concern.

RAOs were implemented to remove on-site contaminated soils and containers to reduce/eliminate the source of VOCs and to treat contaminated groundwater such that:

- contaminant levels in soils do not exceed the soil cleanup objectives (SCOs) for Commercial/Industrial use sites as outlined in 6 NYCRR Part 375, and
- contaminant levels in groundwater at the property boundaries do not exceed the Standards, Criteria and Guidance values (SCGs) outlined in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1: Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998.

Remedial activities consisting of drum removal, AST removal, contaminated soil excavation, in-situ chemical oxidation in VOC source areas, and installation of two permeable reactive walls (PRWs; **Figure 2**) were conducted by AECOM in accordance with NYSDEC-approved work plans. Initial remedial activities were completed in November 2006. A supplemental RA, consisting of the emplacement of additional zero valent iron (ZVI)/sand in the north PRW, was completed in May 2009 at the request of the NYSDEC.

More detailed descriptions of the Site history and previous investigation/remediation activities are presented in the *Final Site Management Plan for the Wyoming County Fire Training Area, Wethersfield, New York*, URS June 2011 (as amended April 2022) (SMP) and the *FER*.

## 1.2 2024 Facility Expansion

The County of Wyoming applied for and received a Congressionally Directed Funds Grant (USDA Rural Development Grant) to provide partial funding for a facility expansion project (the Project). The expansion is providing needed training conference areas and increased climate-controlled storage areas for emergency personal protective equipment (PPE) including masks, gloves, gowns, etc., as well as county hospital PPE, various Emergency Medical Services (EMS) equipment, firefighting equipment and supplies.

The primary elements of the facility expansion project include:

- Demolition of the northern portion of the existing building consisting of truck bays and storage areas. The area to be demolished measures approximately 32 by 40 feet.
- Construction of a new building addition to the northern portion of the existing building measuring approximately 50 by 70 feet.
- Construction of additional parking areas to provide for 20 additional parking spaces with enhanced ingress and egress to accommodate emergency and other vehicles.
- Enhancements and upgrading of the existing septic system to accommodate increased usage of the training center.

The excavation areas planned for this expansion project are all located in the western portion of the site away from historical impacts previously identified and addressed by remediation. Figures showing the planned excavation areas are shown in construction drawing excerpts included as **Appendix A**.



### **Geotechnical Investigation**

To support the design process, Whitestone Associates Engineering & Geology NY, PLLC (Whitestone) performed a geotechnical investigation of the planned building expansion area on September 11, 2023. Two borings (B-1 and B-2) were completed at the locations shown on Figure 1 of the Report of Geotechnical Investigation included in **Appendix A** to evaluate subsurface conditions for the development of a single-story addition with a footprint of approximately 2,200 square feet at the northeast corner of the existing building on-site. Borings B-1 and B-2 were completed to depths of 35.5 and 38.9 feet below ground surface (feet bgs), respectively, and were continuously sampled during drilling. Soil types encountered included fill (brown to black, loose to medium dense, sandy silt with gravel to silty sand with gravel) extending to two and four feet bgs, and an alluvial deposit (reddish-brown to brown, medium stiff (occasionally very stiff), silty clay with sand to brown, loose, sandy silt to brown medium dense, silty sand with gravel) extending to 13 feet bgs. Underlying the alluvial fan deposit, glacial till (brown to reddish-brown, medium dense (occasionally loose or dense), silty sand with gravel) was encountered to depths of 30 and 38 feet bgs followed by weathered shale bedrock encountered at 30 and 38 feet bgs. Groundwater was encountered in the borings at depths ranging from 13 to 16 feet bgs. No indications of impacted material (e.g., odors or staining) were observed during boring completion. Borings were backfilled with excavated materials generated from the investigation and the surface was restored with “cold patch” asphalt where appropriate. No off-site disposal of excavated material occurred during geotechnical investigation activities. Soil boring logs can be found in the Report of Geotechnical Investigation included in **Appendix A**.

### **Excavation Work Plan**

On May 2, 2024, as required for Sites within NYSDEC’s remedial programs, Wyoming County submitted a Final 60-Day Advance Notification of Site Change of Use (COU) to the NYSDEC to provide the details of the planned expansion activities. NYSDEC provided a letter acknowledging receipt of the COU form on May 3, 2024.

Throughout the design phase of the planned expansion project AECOM and Wyoming County worked closely with the County’s construction manager, Campus Construction Management, to ensure that requirements of the Excavation Work Plan (EWP) detailed in SMP Section 2.4 were included in the contract documents. The main requirements detailed in the EWP are:

- Submittal of EWP notification to NYSDEC at least 15 days prior to commencement of planned intrusive activities in accordance with SMP Section 2.4.1.
- Work must be conducted in compliance with all elements of the EWP including soil screening, stockpile management, materials excavation and loadout, materials transportation and off-site disposal, materials reuse, fluids management, and imported fill material.
- Work must be performed under a site-specific Health and Safety Plan (HASP) in accordance with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (DER-10) and 29 CFR 1910.120;
- Implementation of a Community Air Monitoring Plan (CAMP) during all intrusive activities in accordance with requirements of the New York State Department of Health (NYSDOH, 2000) Generic CAMP;

The bid/design documents included the requirement that all intrusive work be performed by an environmental contractor experienced in performing work at contaminated sites with appropriately

trained personnel (i.e., 29 CFR 1910.120). As a result of the bidding process, Rochester Earth, Inc. was selected as the Site Work Contractor. Rochester Earth subcontracted oversight and implementation of all intrusive activities and provision of a Qualified Environmental Professional (QEP) to Nature's Way Contracting of Alden, New York.

The EWP notification for the initial contract (i.e., building demolition, building addition, and parking improvements) was provided to NYSDEC by Nature's Way on July 31, 2024. NYSDEC provided approval of the EWP notification via email on August 7, 2024. A subsequent EWP notification that included details of the septic system upgrade activities was submitted by Nature's Way on August 9, 2024. NYSDEC provided approval of the second EWP notification via a letter on August 12, 2024. Intrusive construction activities commenced immediately upon approval of these EWPs. Copies of these notifications are included in **Appendix A**.

### **Facility Expansion Construction Activities**

Facility expansion construction activities commenced in August 2024. In accordance with the SMP, all work is being performed under NYSDEC-approved EWP. Figures showing the planned excavation areas are shown in construction drawing excerpts included as **Appendix A** of this PRR. Photos of the various construction areas taken on September 20, 2024, are included in the photo log attached as **Appendix B**. All new building areas will include 15-mil Class A vapor barrier beneath the concrete slab as a construction element to mitigate against possible vapor intrusion. Construction activities were ongoing as of the date of the September 20, 2024, inspection.

## 2.0 REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS

### 2.1 Soils

Following completion of the contaminated soils excavation conducted as part of the RA, confirmatory samples showed that VOC concentrations in the remaining on-site soils did not exceed the Part 375 SCOs for Commercial/Industrial use sites, thereby meeting the soil RAOs for the Site.

As of the date of site-wide inspection on September 20, 2024, intrusive activities related to the facility expansion were underway. All intrusive work is being performed under the EWP requirements of the SMP. As shown in **Appendix A**, the excavation areas planned for this expansion project are all located in the western portion of the site away from historical impacts previously addressed by remediation. To-date, no impacted soil has been encountered based on field screening methods including visual and olfactory observations and real-time instrument readings.

Nature's Way, as the QEP overseeing implementation of the EWP, will compile and submit records documenting compliance with the EWP once the intrusive components of the expansion project are completed. These records will include the following:

- Communications with NYSDEC including all submittals and approvals received from NYSDEC
- Records documenting sampling & analytical for soil & groundwater, as applicable
- Chain of custody & manifests
- Air monitoring logs
- Daily observation reports

### 2.2 Groundwater

#### VOCs

Following implementation of the RA, groundwater in some areas of the Site, and in a surface water/spring located on the south side of Wethersfield Road approximately 60 feet east of MW-13 (**Figures 1 and 2**), exhibited some VOC concentrations exceeding the SCGs. Consequently, post-RA groundwater monitoring of VOCs was implemented beginning in January 2007 to evaluate the long-term effectiveness of the RA. The results of historical VOC monitoring of the groundwater and surface water are summarized in **Table 1**. Historical groundwater elevations are summarized in **Table 2**.

Groundwater levels are within historic ranges and groundwater flow directions have remained unchanged, with flow being from west to east across the Site (**Figure 3**). An evaluation of the May 2023 groundwater analytical results indicates that VOC concentrations in all four wells, MW-02, -07,

-12, and -15, are within historical concentration ranges. Since August 2021, total VOC concentration trends in MW-07, -12, and -15 have decreased. Total VOC concentrations in MW-02 have increased slightly primarily due to increases in concentrations of 1,2-Dichloroethene (total) and trichloroethene which show increases over the previous sampling results of 51.9 µg/L and 49 µg/L, respectively. However, MW-02 VOCs concentrations are well within historical concentrations and fluctuations within that range may be tied to seasonal fluctuations in groundwater elevations.

Sampling analytical results indicate that surface water VOC concentrations have decreased over the past several years. Prior to and since the implementation of the RA, no Site-related VOCs have been detected in the potable water supplies from the Becker and Schell residences. However, on a few occasions non-site-related compounds (e.g., acetone), possibly associated with laboratory contamination, have been detected at concentrations well below the NYSDEC SCG.

### **PFAS**

In June 2017, as part of NYSDEC's emerging contaminants monitoring initiative, monitoring well MW-02 was sampled for the 1,4-dioxane and Per- and Polyfluoroalkyl Substances (PFAS). One compound, perfluorooctanoic acid (PFOA), was detected at 33 nanograms per liter (ng/L) - above NYSDEC guidance value of 6.7 ng/L. Based on the 2017 elevated PFOA concentration in MW-02, NYSDEC requested that PFAS analysis be added to the routine (biennial) sampling program for well MW-02 going forward. Results of the most recent May 2023 PFAS sampling show that detected PFAS concentrations decreased compared to the two previous events (**Table 3**). PFAS firefighting foams are not currently stored or used at the facility.

### **Facility Expansion**

The EWP included the requirement to manage any groundwater encountered in accordance with the EWP including containerizing any pumped groundwater from excavation dewatering if required. Due to the planned excavation depths of four feet or less, groundwater was not expected to be encountered in this area. At the time of the site-wide inspection, no groundwater had been encountered in excavations.

## **2.3 Conclusions**

Based on the groundwater monitoring results, the RA continues to be effective in maintaining VOC concentrations within historical limits and continues to be protective of human health and the environment.

## 3.0 IC/EC PLAN COMPLIANCE

### 3.1 Institutional Controls

In accordance with NYSDEC SMP guidance, a series of Institutional Controls (ICs) in the form of Site restrictions, excavation plans and monitoring plans are required by the SMP to ensure that:

- All Engineering Controls (ECs) are operated and maintained as specified by the SMP;
- All ECs on the Site are inspected and certified at a frequency and in a manner defined in the SMP;
- Groundwater, soil vapor, and other environmental or public health monitoring are performed as defined in the SMP;
- Data and information pertinent to Site Management for the Controlled Property (Property) are reported at the frequency and in a manner defined in the SMP;
- On-site environmental monitoring devices, including but not limited to, groundwater monitoring wells and soil vapor probes, are maintained as necessary to ensure continued functioning in the manner specified in the SMP.

In addition, the Declaration of Covenants and Restrictions places certain restrictions on the property:

- Vegetable gardens and farming on the Property are prohibited;
- Use of groundwater underlying the Property is prohibited without treatment rendering it safe for the intended use or as otherwise approved by the relevant agency;
- All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the EWP included in the SMP;
- The potential for vapor intrusion must be evaluated for any future buildings developed on the Site, and any potential impacts that are identified must be mitigated;
- The Property may be used for restricted commercial/industrial use, provided that the long-term ECs and ICs described in the SMP remain in use.

### 3.2 Engineering Controls

ECs at the Property consist of two PRWs installed at the locations shown on **Figure 2**. The PRWs were installed to treat groundwater leaving the Site. A description of these PRWs is provided below:

#### **North Permeable Reactive Wall**

In accordance with the Remedial Design/ Remedial Action (RD/RA) Work Plan, a 170-foot long PRW was installed in the southeast corner of the Site. The PRW extends from about 25 feet southwest of MW-15 east to MW-14, parallel to Wethersfield Road. The trench is approximately 2 feet wide and 10 feet deep and is backfilled from 10 feet to within about 2 feet of the ground

surface with a mixture of zero valent iron (ZVI) and coarse sand. Approximately 100 cubic yards of the ZVI/sand mixture was emplaced (i.e., 9,872 pounds of ZVI). The remainder of the trench was backfilled with the excavated soil.

### **South Permeable Reactive Wall**

In accordance with the RD/RA Work Plan, a 69-foot-long by 2 feet wide trench located approximately 50 feet east of MW-13 and oriented perpendicular to Wethersfield Road was excavated to a maximum depth of 10 feet bgs. Bedrock was encountered at a depth of about 4 feet at the northern end of the trench. The depth to bedrock gradually increased to the south, such that the full 10-foot depth could be excavated after approximately the first 40 feet. As agreed with the NYSDEC, a 3-foot-thick layer of the ZVI/sand mixture was emplaced above the bedrock in the northern half of the trench. In the remaining portion, the ZVI/sand mixture was emplaced in the 7- to 10-foot interval. A total of 16 cubic yards of the ZVI/sand mixture was emplaced (i.e., 1,688 pounds of ZVI). The excavated soil was placed in lifts about one-foot thick and compacted with the excavator. The backfill was mounded up above the trench, with the excess soil being spread and graded around the trench.

### **3.3 IC/EC Certification**

These IC/ECs are designed to:

- Prevent ingestion/direct contact with contaminated soil;
- Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil;
- Prevent ingestion of groundwater with contaminant levels that exceed drinking water standards;
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater;
- Restore groundwater to pre-disposal/pre-release conditions, to the extent practicable;
- Prevent the discharge of contaminants to surface water;
- Prevent contaminated groundwater from migrating off-site; and
- Prevent migration of contaminants that would result in off-site groundwater or surface water contamination.

A visual inspection of the two PRWs is required by the SMP to be conducted annually (see Section 4.1). The PRWs are monitored for signs of seepage, subsidence, surface erosion, and other signs of damage. A complete list of items to be checked is provided on the Engineering Control Systems Inspection Form. Damage observed to the PRWs is to be repaired immediately. The annual inspection, and any necessary repairs, of the PRWs provide the supporting documentation for the Certification of these ECs.

The PRWs were inspected on August 25, 2022, May 25, 2023, and September 20, 2024. The inspections consisted of walking the areas of the PRWs and looking for evidence of subsidence, depressions, cracks, soil erosion, and other damage indicators listed on the Inspection Form. The inspections did not reveal any signs of damage to the PRWs. Based on the inspections, the PRWs are believed to be sound and functioning as originally designed and constructed. Copies of the Engineering Control Systems Inspection Forms, Site-Wide Inspection Forms, and Site Photographs depicting conditions at the time of inspections are provided in **Appendix B**.

The ICs required by the Declaration of Covenants and Restrictions remain unchanged as approved by the NYSDEC. In addition, there have not been any changes to the nature of activities at or use of the Site, since the assignable release for the Site was issued by the NYSDEC. Changes to the physical condition of the site are occurring as part of the ongoing facility expansion activities described in Section 1.2 and **Appendix A**. However, these changes are outside of historically impacted and remediated areas and are not expected to affect existing ICs or ECs. A signed Institutional and Engineering Controls Certification (ICEC) Form is provided in **Appendix C**. As required in ICEC Box 1, the following attachments to the ICEC Form related to facility expansion activities are included in **Appendix C**:

- 60-Day Advance Notification of Site Change of Use (COU) submitted to NYSDEC on May 2, 2024.
- NYSDEC letter dated May 3, 2024, acknowledging the COU notification.
- Local building permits covering the facility expansion activities.

## 4.0 MONITORING PLAN COMPLIANCE

### 4.1 Monitoring Program

#### VOCs

A monitoring program is provided in the SMP to assess the performance of the remedy and overall reduction in contamination on-site and off-site and is specified to be conducted for two years following issuance of the 'release and covenant not to sue' by the NYSDEC for the Site. The monitoring program originally consisted of the following media sampling and frequency:

- Annual groundwater sampling from monitoring wells MW-02, MW-07, MW-12, MW-14 and MW-15. Sampling was to be conducted in the spring (i.e., April/May) one year and the summer (July/August) the following year.
- Semi-annual sampling of the potable water supply wells for the Becker and Schell residences and the surface water/spring location.
- Samples were to be analyzed for VOCs using Method SW8260B for groundwater samples and Method E502.2 for potable water samples.

In the 2015 PRR, the following changes to the monitoring program were recommended. In a letter dated January 21, 2016, the NYSDEC agreed with these recommendations.

- Groundwater monitoring would be conducted biennially in the four on-site monitoring wells that have continued to show detectable levels of VOCs (i.e., MW-02, -07, -12, and -15). Monitoring of MW-14, which has never shown any detectable levels of Site-related VOCs, would be discontinued. The sampling would alternate from the spring (i.e., April/May) to the summer (i.e., July/August) during consecutive events.
- Monitoring of the potable water supplies for both the Becker and Schell residences and the surface water/spring location would be conducted annually. The sampling would alternate from the spring (i.e., April/May) one year to the summer (i.e., July/August) the following year.

#### PFAS

In a letter dated September 18, 2020, NYSDEC requested that PFAS analysis for Site monitoring well MW-02 be added to the biennial monitoring program going forward due to elevated PFAS levels detected in a groundwater sample from that well collected on June 29, 2017.

#### Current Reporting Period Monitoring Activities

Four sampling events were completed during the current reporting period:

- Annual sampling of the Becker and Schell residential water supply wells and the surface water/spring for VOCs was performed three times on August 25, 2022; May 25 & 26, 2023; and July 5, 2024. In accordance with the current SMP, potable well samples are analyzed for VOCs by EPA Method 524.2. Results for these sampling events are



included on **Table 1** and were transmitted to the property owners via US Mail in letters dated October 14, 2022; August 9, 2023; and October 18, 2024, respectively.

- Biennial sampling for VOCs of monitoring wells MW-02, MW-07, MW-12, and MW-15 (**Figure 2**) was performed on May 25, 2023 (**Table 1**). The sample collected from well MW-02 was also analyzed for PFAS (**Table 3**). Prior to sampling, a round of water levels was obtained from all Site monitoring wells.

Copies of the Low Flow Groundwater Sampling Logs are provided in **Appendix D**. Copies of the Residential Tap Water Sampling Logs are provided in **Appendix E** and copies of the Surface Water Sampling Logs are provided in **Appendix F**. A summary of the historical groundwater level measurements through May 25, 2023, is presented in **Table 2**. Groundwater elevation contours using the May 25, 2023, data are plotted on **Figure 3**.

Analytical data for all sampling conducted during this monitoring period are tabulated in **Tables 1 and 3**. Post-remedial action total VOC concentrations from January 2007 through May 2023, are presented in **Figure 4**. Laboratory analytical reports for events conducted during the current reporting period are presented in **Appendix G**.

## 4.2 Sampling Results

The surface water/spring and groundwater (including residential well samples) analytical results were compared to the following SCGs for VOCs and PFAS in groundwater:

VOCs (ug/L)	SCG*
1,1-Dichloroethane (1,1-DCA)	5
1,1-Dichloroethene (1,1-DCE)	5
1,2-Dichloroethene (1,2-DCE)	5
1,1,1-Trichloroethane (1,1,1-TCA)	5
1,1,2-trichloro-1,2,2-trifluoroethane	5
Acetone	50
Tetrachloroethene (PCE)	5
Trichloroethene (TCE)	5
Vinyl Chloride (VC)	2
<b>PFAS (ng/L)</b>	
Perfluorooctanesulfonic acid (PFOS)	2.7
Perfluorooctanoic acid (PFOA)	6.7

Notes:

\* NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 2/2023 Addendum). Class GA.

VOCs = volatile organic compounds

PFAS = Per- and Polyfluoroalkyl Substances (PFAS)

µg/L = micrograms per liter

ng/L = nanograms per liter

Evaluation of monitoring results indicated the following:

- Groundwater flow directions have remained unchanged, with flow being from west to east across the Site (**Figure 3**).
- Post-remedial action total VOC concentrations versus time for monitoring wells MW-02, MW-07, MW-12, MW-14, and the surface water/spring location for the period between January 2007 and May 2023 are plotted in **Figure 4**.
- Potable groundwater quality for both the Becker and Schell residences has remained unchanged. With the exception of acetone, there were no detectable concentrations of site-related VOCs in the samples collected from either residence during this reporting period. Acetone was detected in the sample from the Schell well on July 5, 2024, at a concentration of 8.5 ug/L. This is well below the NYSDEC groundwater quality guidance value for acetone of 50 ug/L.
- Site-related VOCs were consistent with historical concentration ranges.
- Total VOC concentrations in MW-02 were within the historical range of values. The total VOC concentrations in the samples collected from the surface water/spring (**Table 1**) over the 10-year period from 2013 to 2023 remained consistent, and within a very narrow range of values (125.3 to 180.3 ug/L). Results for the most recent sample collected in July 2024 (12.4 ug/L) were at the lowest level since post-remedial action sampling commenced.
- PFAS results in the May 2023 groundwater sample collected from MW-02 (**Table 3**) were lower than the results from the previous sampling events conducted in June 2017 and August 2021. PFOA was detected at 30 ng/L, above the guidance value of 6.7 ng/L.

### 4.3 Monitoring Well Maintenance

The results of the site-wide inspections conducted on August 25, 2022, May 25, 2023, and September 20, 2024, noted the following:

- The PVC riser for monitoring well MW-11 is becoming overgrown with vegetation. The vegetation will be cut back to improve access to the monitoring well during the next site visit.

### 4.4 Conclusions

Based on the groundwater monitoring results, the RA continues to be effective in maintaining VOC concentrations within historical limits and continues to be protective of human health and the environment. Additionally, the PRWs are functioning as designed and off-site contamination has not increased.

## **5.0 O&M PLAN COMPLIANCE**

### **5.1 O&M Program**

The Site remedy does not rely on any mechanical systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not required. However, since the Site remedy does rely on the integrity of the PRWs to protect public health and the environment, maintenance of the PRWs is required.

### **5.2 O&M Performed**

Based on the annual inspections of the PRWs, no repairs have been necessary.

### **5.3 Conclusions and Recommendations**

The PRWs should be effective and continue to perform as designed/expected. No changes are recommended at this time.

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

### 6.1 Compliance with SMP

All the requirements of the SMP for the IC/ECs, the Monitoring Plan and the O&M Plan were met during this reporting period. In addition, ongoing facility expansion activities are being overseen by a QEP, Nature's Way, to ensure compliance with the EWP, and SMP as applicable to the expansion project.

### 6.2 Performance and Effectiveness

Based on the groundwater monitoring results, the remedial program at the Site has been effective in maintaining impacts to groundwater associated with the Site within historical limits. It is anticipated that VOC concentrations will continue to decline over time, and that the remedy should ultimately achieve the RAOs for the Site.

### 6.3 Recommendations

The Site groundwater monitoring well network originally consisted of 23 monitoring wells MW-01 through MW-23 (Figure 2). Two wells, MW-01 and MW-09 had previously been identified as being destroyed, however, a water level measurement was recorded for well MW-09 during the 2023 sampling event. This location will be inspected during the next site visit to confirm the status. Currently only four wells, MW-02, MW-07, MW-12, MW-15, are included in the SMP monitoring program. The remaining 18 monitoring wells have been utilized for collection of groundwater level measurements to establish groundwater flow direction. The groundwater flow direction has consistently been estimated and is clearly established to be from west to east across the site. Not all these wells are necessary to establish groundwater flow direction.

In addition to the monitoring well network, there are four additional unused wells that may be decommissioned – AGRO-1, Weber Well, Rock Well 1, and Rock Well 2 (Figure 2). The exact status and location of these wells will be determined during the next site visit, and a determination made on decommissioning these unused wells.

AECOM recommends decommissioning 10 existing monitoring wells and the four additional unused wells. The overall well network and the wells proposed for decommissioning are listed in Table 4 including rationale for keeping or decommissioning each well. Following approval from NYSDEC of the proposed well decommissioning, abandonment will be completed in accordance with the procedures outlined in the SMP and in NYSDEC Commissioner's Policy CP-43.

### 6.4 Future Submittals

- The next PRR will be submitted by October 5, 2027.
- Site monitoring will continue in accordance with the currently approved program and reports will be timely submitted.

## TABLES

**Table 1  
Historical Analytical Results - VOCs  
Groundwater  
Wyoming County Fire Training Center**

**Monitoring Well MW-02**

Volatile Compounds	Units	Criteria (1)	Jan-07	Apr-07	Jul-07	Oct-07	Jan-08	Apr-08	Jul-08	Oct-08	Feb-09	Apr-09	Jul-09	Oct-09	Jan-10	May-10	Jul-11	May-12	Jul-13	May-14	Jul-15	Jun-17	May-19	Aug-21	May-23
1,1,1-Trichloroethane	UG/L	5	U	NS	12	NS	U	NS	U	NS	U	NS	U	NS	11	5.7	8.9	4.2	U	U	U	U	U	4.9	3.6
1,1-Dichloroethane	UG/L	5	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	U	2.7	1.2	U	U	U	U	U	1.3 J	1.2 J
1,1-Dichloroethene	UG/L	5	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	400	NS	450 E	NS	67	NS	56	NS	55	NS	63	NS	42	57	243 D	192.5 D	260	660	290	290	410 F1	120	171.9 J
Methylene Chloride	UG/L	5	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	U	U	U	U	U	U	6.0 J	U	U	U
Tetrachloroethene	UG/L	5	U	NS	60	NS	16	NS	16	NS	11	NS	25	NS	51	26	50	22	18	34	17	79	230	38	43
Toluene	UG/L	5	U	NS	U	NS	U	NS	U	NS	U	NS	7	NS	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	UG/L	5	79	NS	150	NS	43	NS	49	NS	26	NS	39	NS	18	38	140 D	120	110	440	110	240	360	61	110
Vinyl Chloride	UG/L	2	U	NS	U	NS	U	NS	U	NS	U	NS	U	NS	U	U	9.8	1.6	U	U	U	U	U	5.1	2.5
Total VOCs	UG/L	-	479	NS	672	NS	126	NS	121	NS	92	NS	134	NS	122	126.7	454.4	341.5	388	1134	417	615	1,000	230.3	332.2

**Monitoring Well MW-07**

Volatile Compounds	Units	Criteria (1)	Jan-07	Apr-07	Jul-07	Jan-08	Apr-08	Jul-08	Oct-08	Feb-09	Apr-09	Jul-09	Oct-09	Jan-10	May-10	Jul-11	May-12	Jul-13	May-14	Jul-15	Jun-17	May-19	Aug-21	May-23
1,1,1-Trichloroethane	UG/L	5	380	NS	220	63	NS	210	NS	20	NS	120	NS	66	56	64	85	110	36	44 J	110	30	84	65
1,1,2-trichloro-1,2,2-trifluoroethane	UG/L	5	U	NS	U	U	NS	U	NS	U	NS	U	NS	U	U	1.9	1.6	U	U	1.0 J	1.8	1.2	1.8	U
1,1-Dichloroethane	UG/L	5	U	NS	U	U	NS	U	NS	U	NS	26	NS	U	14	17	14	15	4.6	5.5	13	3.6	11	12
1,1-Dichloroethene	UG/L	5	U	NS	U	U	NS	U	NS	U	NS	U	NS	U	U	2.6	1.9	17	U	1.4 J	3.8	0.50 J	2.6	U
1,2-Dichloroethene (total)	UG/L	5	350	NS	250	99	NS	U	NS	21	NS	130	NS	60	57	67	110 D	120	37	30	210 D	17	150	180 F1
Benzene	UG/L	1	U	NS	U	U	NS	U	NS	U	NS	U	NS	U	U	0.99 J	0.80 J	U	U	U	U	U	U	U
Chloroethane	UG/L	5	U	NS	U	U	NS	U	NS	U	NS	U	NS	U	U	0.80 J	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	NS	U	110	NS	U	NS	26	NS	U	NS	U	U	U	U	U	U	U	1.5 J	U	U	U
Tetrachloroethene	UG/L	5	1,500	NS	1,500	350	NS	1,200	NS	180	NS	830	NS	570	440	450 D	290	270	85	140 J	140	65	130	80
Toluene	UG/L	5	U	NS	U	U	NS	U	NS	U	NS	U	NS	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	UG/L	5	U	NS	U	U	NS	62	NS	U	NS	48	NS	U	16	20	78	93	30	28	23	5	14	6.5
Vinyl chloride	UG/L	2	U	NS	U	U	NS	U	NS	U	NS	U	NS	U	U	5.9	2.6	U	U	U	2.0	U	1.6	U
Total VOCs	UG/L	-	2,230	NS	1,970	622	NS	1,472	NS	247	NS	1,154	NS	696	583	630.19	583.9	625	192.6	249.9	505.1	122.3	395	343.5

Notes:

Criteria = NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998

(Includes addendums through 2/2023)

(1) - Class GA, Protection for a Source of Drinking Water (Groundwater)

**Bold** - Analyte concentration exceeds Criteria (1)

VOC analysis by EPA Method 8260

UG/L = Micrograms per liter

- = No standard

U = Not detected above the quantitation limit

D = Result from a sample dilution

NS = Not sampled

J = Analyte detected above method detection limit but below quantitation limits

E = Value above quantitation range

F1 = MS and/or MSD Recovery is outside acceptance limits

Results shown are the higher of the primary and duplicate samples, as applicable

**Table 1  
Historical Analytical Results - VOCs  
Groundwater  
Wyoming County Fire Training Center**

**Monitoring Well MW-12**

Volatile Compounds	Units	Criteria (1)	Jan-07	Apr-07	Jul-07	Jan-08	Apr-08	Jul-08	Oct-08	Feb-09	Apr-09	Jul-09	Oct-09	Jan-10	May-10	Jul-11	May-12	Jul-13	May-14	Jul-15	Jun-17	May-19	Aug-21	May-23
1,1,1-Trichloroethane	UG/L	5	24	NS	38	10	NS	19	NS	10	NS	26	NS	7.5	30	41	17	22	1.1	1.9	36	U	36	17
1,1-Dichloroethane	UG/L	5	U	NS	5.3	U	NS	U	NS	U	NS	U	NS	U	U	4.6	2.2	2.3	U	U	3.7	U	3.9	2.2
1,1-Dichloroethene	UG/L	5	U	NS	U	U	NS	U	NS	U	NS	U	NS	U	U	1.7	1.8	3.7	U	U	4.4	U	U	U
1,2-Dichloroethene (total)	UG/L	5	15	NS	33	12	NS	19	NS	7.5	NS	20	NS	6	25	38	20	23	0.96	1.9	39	U	50	28
Chloroethane	UG/L	5	U	NS	U	U	NS	U	NS	U	NS	U	NS	U	U	0.46 J	U	U	U	U	U	U	U	U
Tetrachloroethene	UG/L	5	U	NS	12	U	NS	8.7	NS	U	NS	16	NS	U	12	17	11	11	1.2	1.6	17	U	19	9.8
Toluene	UG/L	5	U	NS	U	U	NS	U	NS	U	NS	U	NS	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	UG/L	5	U	NS	U	U	NS	U	NS	U	NS	U	NS	U	U	2.8	1.8	2.3	U	U	4.6	U	4.7	2.5
Vinyl Chloride	UG/L	2	U	NS	U	U	NS	U	NS	U	NS	U	NS	U	U	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	-	39	NS	88.3	22	NS	46.7	NS	17.5	NS	62	NS	13.5	67	105.56	53.8	64.3	3.26	5.4	104.7	0.0	113.6	59.5

**Monitoring Well MW-15**

Volatile Compounds	Units	Criteria (1)	Jan-07	Apr-07	Jul-07	Jan-08	Apr-08	Jul-08	Oct-08	Feb-09	Apr-09	Jul-09	Oct-09	Jan-10	May-10	Jul-11	May-12	Jul-13	May-14	Jul-15	Jun-17	May-19	Aug-21	May-23
1,1,1-Trichloroethane	UG/L	5	420 E	NS	280	300	NS	270	NS	7.2	NS	240	NS	210	180	190	100 D	120	70	86	79	43	62	40
1,1-Dichloroethane	UG/L	5	42	NS	36	33	NS	30	NS	U	NS	29	NS	19	18	15	14	14	7.6	9.8	10	4.5	6.8	5.5
1,1-Dichloroethene	UG/L	5	11	NS	U	U	NS	U	NS	U	NS	U	NS	U	U	5	2	19	47	U	0.87 J	U	U	U
1,2-Dichloroethene (total)	UG/L	5	410 E	NS	310	280	NS	240	NS	U	NS	U	NS	140	130	110 D	82	85	U	63	60	29	44	32
Chloroethane	UG/L	5	U	NS	U	U	NS	U	NS	U	NS	U	NS	U	U	0.93 J	U	U	U	U	U	U	U	U
Methylene Chloride	UG/L	5	U	NS	U	40	NS	U	NS	5.2	NS	U	NS	U	U	U	U	U	1.0 J	0.99 J	1.3 J	U	U	U
Tetrachloroethene	UG/L	5	170	NS	180	200	NS	220	NS	12	NS	240	NS	260	250	280 D	260 D	230	130	190	170	97	160	130
Toluene	UG/L	5	U	NS	U	U	NS	U	NS	U	NS	U	NS	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	UG/L	5	13	NS	U	U	NS	11	NS	U	NS	12	NS	11	11	12	10	10	6.2	9.9	10	5.3	7.4	5.5
Total VOCs	UG/L	-	1,066	NS	806	853	NS	771	NS	24.4	NS	521	NS	640	589	612.93	468	478	261.8	359.7	331.2	178.8	280.2	213

**Notes:**  
Criteria = NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998  
(Includes addendums through 2/2023)

(1) - Class GA, Protection for a Source of Drinking Water (Groundwater)

**Bold** - Analyte concentration exceeds Criteria (1)

VOC analysis by EPA Method 8260

UG/L = micrograms per liter

- = No standard

U = not detected above the quantitation limit

D = Result from a sample dilution

NS = Not sampled

J = Analyte detected above method detection limit but below quantitation limits

E = Value above quantitation range

F1 = MS and/or MSD Recovery is outside acceptance limits

Results shown are the higher of the primary and duplicate samples, as applicable

**Table 1  
Historical Analytical Results  
Surface Water  
Wyoming County Fire Training Center**

**Spring**

Volatile Compounds	Units	Criteria (1)	Jan-07	Apr-07	Jul-07	Oct-07	Jan-08	Apr-08	Jul-08	Oct-08	Feb-09 <sup>(2)</sup>	Apr-09	Jul-09	Oct-09	Jan-10	May-10	Jul-11
1,1,1-Trichloroethane	UG/L	5	U	NS	<b>21</b>	<b>34</b>	<b>54</b>	<b>64</b>	<b>70</b>	<b>54</b>	U	<b>65</b>	<b>88</b>	<b>87</b>	<b>50</b>	<b>68</b>	<b>69</b>
Chloroethane	UG/L	5	U	NS	U	U	U	U	U	U	U	U	U	U	U	U	0.61 J
Methyl-tert-Butyl Ether	UG/L	10	U	NS	U	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	UG/L	5	U	NS	U	<b>5.6</b>	<b>13</b>	<b>14</b>	<b>20</b>	<b>16</b>	U	<b>19</b>	<b>31</b>	<b>31</b>	<b>16</b>	<b>24</b>	<b>30</b>
Trichloroethene	UG/L	5	U	NS	U	U	U	U	U	U	U	U	U	U	U	U	3.7
1,1-Dichloroethane	UG/L	5	U	NS	U	U	<b>7.8</b>	<b>8.2</b>	<b>9.8</b>	<b>6.3</b>	U	<b>11</b>	<b>13</b>	<b>11</b>	<b>6.2</b>	<b>9.3</b>	<b>8.8</b>
1,1-Dichloroethene	UG/L	5	U	NS	U	U	U	U	U	U	U	U	U	U	U	U	4.6
1,2-Dichloroethene (total)	UG/L	5	U	NS	<b>17</b>	<b>25</b>	<b>17</b>	<b>51</b>	<b>59</b>	<b>36</b>	U	<b>54</b>	<b>73</b>	<b>67</b>	<b>37</b>	<b>58</b>	<b>57</b>
Methylene Chloride	UG/L	5	U	NS	U	U	<b>21</b>	U	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	-	U	NS	<b>38</b>	<b>64.6</b>	<b>112.8</b>	<b>137.2</b>	<b>158.8</b>	<b>112.3</b>	U	<b>149</b>	<b>205</b>	<b>196</b>	<b>109.2</b>	<b>159.3</b>	<b>173.71</b>

Volatile Compounds	Units	Criteria (1)	Jan-12	May-12	Nov-12	May-13	Dec-13 <sup>(3)</sup>	May-14	Dec-14 <sup>(4)</sup>	Aug-15	Jul-16	Jun-17	Jul-18 <sup>(5)</sup>	May-19	Aug-20	May-21	Aug-22	May-23	Jul-24
1,1,1-Trichloroethane	UG/L	5	<b>55</b>	<b>60</b>	<b>44</b>	<b>62</b>	NS	<b>62</b>	NS	<b>57</b>	<b>59</b>	<b>52</b>	NS	<b>47</b>	<b>44</b>	<b>39</b>	<b>38</b>	<b>38</b>	<b>2.8</b>
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	U	U	U	U	NS	U	NS	U	U	U	NS	U	U	U	0.20 J	U	U
2-Butanone (MEK)	UG/L	50	U	U	U	U	NS	U	NS	U	U	U	NS	U	U	U	U	3.7	U
Chloroethane	UG/L	5	U	U	U	U	NS	U	NS	U	U	U	NS	U	U	U	U	U	U
Methyl-tert-Butyl Ether	UG/L	10	U	U	U	U	NS	U	NS	U	U	U	NS	U	U	U	U	U	U
Tetrachloroethene	UG/L	5	<b>29</b>	<b>35</b>	<b>26</b>	<b>35</b>	NS	<b>34</b>	NS	<b>45</b>	<b>51</b>	<b>41</b>	NS	<b>35</b>	<b>45</b>	<b>40</b>	<b>49</b>	<b>33</b>	<b>3.3</b>
Trichloroethene	UG/L	5	3.3	3.9	3.2	4.6	NS	4.7	NS	<b>5.3</b>	<b>5.9</b>	<b>6.0</b>	NS	4.7	<b>7.5</b>	<b>5.6</b>	<b>6.5</b>	<b>5.1</b>	1.6
1,1-Dichloroethane	UG/L	5	<b>6.9</b>	<b>7.4</b>	<b>6.4</b>	<b>7.7</b>	NS	<b>6.9</b>	NS	<b>6.4</b>	<b>7.4</b>	<b>6.1</b>	NS	4.6	<b>6.4</b>	4.6	<b>5.5</b>	4.5	1.5
1,1-Dichloroethene	UG/L	5	2.3	1.6	1	1.2	NS	1.3	NS	2.4	0.97J	1.7	NS	1.4	1.0	0.72	0.87	0.63	U
1,2-Dichloroethene (total)	UG/L	5	<b>50</b>	<b>51</b>	<b>45</b>	<b>53</b>	NS	<b>52</b>	NS	<b>54</b>	<b>56</b>	<b>51</b>	NS	<b>42</b>	<b>52.6</b>	<b>42.4 J</b>	<b>45.6</b>	<b>40.4 J</b>	3.2
Methylene Chloride	UG/L	5	U	U	U	U	NS	U	NS	U	U	U	NS	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	NS	U	NS	U	U	U	NS	U	0.26 J	U	U	U	U
Total VOCs	UG/L	-	<b>146.5</b>	<b>158.9</b>	<b>125.6</b>	<b>163.5</b>	NS	<b>160.9</b>	NS	<b>170.1</b>	<b>180.27</b>	<b>157.8</b>	NS	<b>134.7</b>	<b>156.8</b>	<b>132.3</b>	<b>145.7</b>	<b>125.3</b>	<b>12.4</b>

**Notes:**

Criteria = NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998

(Includes addendums through 2/2023)

(1) - Class GA, Protection for a Source of Drinking Water (Groundwater)

**Bold** - Analyte concentration exceeds Criteria (1)

Spring VOC analysis by EPA Method 8260 or New York State Department of Health Method 524.2

UG/L = micrograms per liter

- = No standard

U = not detected above the quantitation limit

J = analyte detected above method detection limit below quantitation limits

NS = not sampled

(2) Sample was collected 150' downstream of normal sampling location (snow drifts blocked access)

(3) Spring not sampled in December 2013 due to being buried under deep snow

(4) Spring not sampled in December 2014 due to discharge pipe being submerged in water

(5) Spring not sampled in July 2018. Discharge pipe could not be found, likely submerged in water



**Table 1  
Historical Analytical Results  
Potable Well Water  
Wyoming County Fire Training Center**

**Becker Tap Water**

Volatile Compounds	Units	Criteria (1)	Jan-07	Apr-07	Jul-07	Oct-07	Jan-08	Apr-08	Jul-08	Oct-08	Feb-09	Apr-09	Jul-09	Oct-09	Jan-10	May-10	Jul-11	Jan-12
Acetone	UG/L	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	-	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Criteria (1)	May-12	Nov-12	May-13	Dec-13	May-14	Dec-14	Jul-15	Jul-16	Jun-17	Jul-18	May-19	Aug-20 <sup>(2)</sup>	May-21	Aug-22	May-23	Jul-24
Acetone	UG/L	50	U	U	0.54 J	0.75 J	U	U	0.91 J	U	U	2.4 J	1.1 J	U	U	U	U	U
t-Butanol	UG/L	-	U	U	U	U	U	U	U	U	U	U	U	1.4 J	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	-	U	U	0.54	0.75	U	U	0.91	U	U	2.4	1.1	U	U	U	U	U

**Notes:**

Criteria = NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998

(Includes addendums through 2/2023)

(1) - Class GA, Protection for a Source of Drinking Water (Groundwater)

**Bold** - Analyte concentration exceeds Criteria (1)

Becker Tap Water VOC analysis by New York State Department of Health Method 502.2 (through May 2010) and Method 524.2 (beginning July 2011)

UG/L = micrograms per liter

- = No standard

U = not detected above the quantitation limit

J = analyte detected above method detection limit below quantitation limits

(2) t-Butanol not detected in primary water sample but detected at an estimated 1.4 ug/L in the field duplicate sample

**Table 1  
Historical Analytical Results  
Potable Well Water  
Wyoming County Fire Training Center**

**Schell Tap Water**

Volatile Compounds	Units	Criteria (1)	Jan-07	Apr-07	Jul-07	Oct-07	Jan-08	Apr-08	Jul-08	Oct-08	Feb-09	Apr-09	Jul-09	Oct-09	Jan-10	May-10	Jul-11
Acetone	UG/L	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1,1-Trichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	-	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U

Volatile Compounds	Units	Criteria (1)	Jan-12	May-12	Nov-12	May-13	Dec-13	May-14	Dec-14	Jul-15	Jul-16	Jun-17	Jul-18	May-19	Aug-20	May-21	Aug-22	May-23	Jul-24	
Acetone	UG/L	50	U	U	U	U	0.78 J	U	U	U	U	U	1.4 J	1.7 J	U	U	U	U	U	8.5
1,1,1-Trichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Tetrachloroethene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	UG/L	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Vinyl Chloride	UG/L	2	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Total VOCs	UG/L	-	U	U	U	U	0.78	U	U	U	U	U	U	1.4	1.7	U	U	U	U	8.5

**Notes:**

Criteria = NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998  
(Includes addendums through 2/2023)

(1) - Class GA, Protection for a Source of Drinking Water (Groundwater)

**Bold** - Analyte concentration exceeds Criteria (1)

Schell Tap Water VOC analysis by New York State Department of Health Method 502.2 (through May 2010) and Method 524.2 (beginning July 2011)

UG/L = micrograms per liter

- = No standard

U = not detected above the quantitation limit

J = analyte detected above method detection limit but below quantitation limits

**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-02	978931.2427	592314.1629	2023.95	NA	2025.64	A		0					
MNW							6/4/2004 1621		1.06	2022.89	0.00	2,022.89	
MNW							6/7/2004 1150		2.27	2021.68	0.00	2,021.68	
MNW							6/14/2004 0830		2.74	2021.21	0.00	2,021.21	
MNW							6/14/2004 1558		2.82	2021.13	0.00	2,021.13	
MNW							6/25/2004 0839		2.97	2020.98	0.00	2,020.98	
MNW							8/8/2004 0853		2.59	2021.36	0.00	2,021.36	
MNW							2/9/2005 0000		0.97	2022.98	0.00	2,022.98	
MNW							1/11/2007 0000		1.62	2022.33	0.00	2,022.33	
MNW							4/5/2007 0000		1.63	2022.32	0.00	2,022.32	
MNW							7/11/2007 0000		3.27	2020.68	0.00	2,020.68	
MNW							10/11/2007 0000		4.13	2019.82	0.00	2,019.82	
MNW							1/8/2008 0000		1.43	2022.52	0.00	2,022.52	
MNW							4/16/2008 0000		1.75	2022.20	0.00	2,022.20	
MNW							7/10/2008 0000		2.66	2021.29	0.00	2,021.29	
MNW							10/16/2008 0000		2.94	2021.01	0.00	2,021.01	
MNW							2/12/2009 0000		1.15	2022.80	0.00	2,022.80	
MNW							4/9/2009 0000		1.15	2022.80	0.00	2,022.80	
MNW							7/9/2009 0000		2.29	2021.66	0.00	2,021.66	
MNW							10/29/2009 0000		2.15	2021.80	0.00	2,021.80	
MNW							1/21/2010 0000		NM	-	NM	-	
MNW							5/27/2010 0000		2.29	2021.66	0.00	2,021.66	
MNW							7/25/2011 0000		3.19	2020.76	0.00	2,020.76	
MNW							5/31/2012 0000		2.42	2021.53	0.00	2,021.53	
MNW							7/3/2013 0000		2.65	2021.30	0.00	2,021.30	
MNW							5/18/2014 0000		1.42	2022.53	0.00	2,022.53	
MNW							7/15/2015 0000		0.97	2022.98	0.00	2,022.98	
MNW							6/28/2017 0000		2.81	2021.14	0.00	2,021.14	

NM - No Measurement

Type:  
MNW Monitoring Well

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							5/1/2019 0000		0.86	2023.09	0.00	2,023.09	
MNW							8/18/2021 0937		2.71	2021.24	0.00	2,021.24	
MNW							5/25/2023 1120		2.53	2021.42	0.00	2,021.42	
<b>MW-03</b>	978828.2168	592202.3606	2032.93	NA	2035.79	A		0					
MNW							11/6/2001 0000		11.98	2020.95	0.00	2,020.95	
MNW							6/4/2004 1618		9.1	2023.83	0.00	2,023.83	
MNW							6/7/2004 1145		9.77	2023.16	0.00	2,023.16	
MNW							6/11/2004 1500		9.92	2023.01	0.00	2,023.01	
MNW							6/14/2004 1556		10.17	2022.76	0.00	2,022.76	
MNW							6/25/2004 0837		10.52	2022.41	0.00	2,022.41	
MNW							8/8/2004 0855		10.11	2022.82	0.00	2,022.82	
MNW							2/9/2005 0000		NM	-	NM	-	Obstruction at 2.85'
MNW							1/11/2007 0000		NM	-	NM	-	Destroyed
MNW							4/5/2007 0000		NM	-	NM	-	DESTROYED
MNW							10/11/2007 0000		NM	-	NM	-	
MNW							1/8/2008 0000		9.39	2023.54	0.00	2,023.54	
MNW							4/16/2008 0000		9.28	2023.65	0.00	2,023.65	
MNW							7/10/2008 0000		10.58	2022.35	0.00	2,022.35	
MNW							10/16/2008 0000		11.17	2021.76	0.00	2,021.76	
MNW							2/12/2009 0000		8.63	2024.30	0.00	2,024.30	
MNW							4/9/2009 0000		8.58	2024.35	0.00	2,024.35	
MNW							7/9/2009 0000		10.01	2022.92	0.00	2,022.92	
MNW							10/29/2009 0000		9.93	2023.00	0.00	2,023.00	
MNW							1/21/2010 0000		9.79	2023.14	0.00	2,023.14	
MNW							5/27/2010 0000		9.61	2023.32	0.00	2,023.32	
MNW							7/25/2011 0000		10.87	2022.06	0.00	2,022.06	
MNW							5/31/2012 0000		9.75	2023.18	0.00	2,023.18	

NM - No Measurement

Type:  
MNW Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							7/3/2013 0000		10.07	2022.86	0.00	2,022.86	
MNW							5/18/2014 0000		8.53	2024.40	0.00	2,024.40	
MNW							7/15/2015 0000		8.84	2024.09	0.00	2,024.09	
MNW							6/28/2017 0000		10.46	2022.47	0.00	2,022.47	
MNW							8/18/2021 0939		10.21	2022.72	0.00	2,022.72	
MNW							5/25/2023 0848		9.85	2023.08	0.00	2,023.08	
<b>MW-04</b>	978686.2916	592234.1593	2034.25	NA	2036.40	A		0					
MNW							11/6/2001 0000		7.78	2026.47	0.00	2,026.47	
MNW							6/4/2004 1615		2.08	2032.17	0.00	2,032.17	
MNW							6/7/2004 1144		3.07	2031.18	0.00	2,031.18	
MNW							6/14/2004 0800		3.83	2030.42	0.00	2,030.42	
MNW							6/14/2004 1554		3.82	2030.43	0.00	2,030.43	
MNW							6/25/2004 0835		4.63	2029.62	0.00	2,029.62	
MNW							8/8/2004 0851		3.93	2030.32	0.00	2,030.32	
MNW							2/9/2005 0000		1.96	2032.29	0.00	2,032.29	
MNW							1/11/2007 0000		1.34	2032.91	0.00	2,032.91	
MNW							4/5/2007 0000		2.03	2032.22	0.00	2,032.22	
MNW							7/11/2007 0000		5.83	2028.42	0.00	2,028.42	
MNW							10/11/2007 0000		8.17	2026.08	0.00	2,026.08	
MNW							1/8/2008 0000		2.01	2032.24	0.00	2,032.24	
MNW							4/16/2008 0000		1.6	2032.65	0.00	2,032.65	
MNW							6/10/2008 0000		4.67	2029.58	0.00	2,029.58	
MNW							7/10/2008 0000		3.66	2030.59	0.00	2,030.59	
MNW							10/16/2008 0000		5.4	2028.85	0.00	2,028.85	
MNW							2/12/2009 0000		1.34	2032.91	0.00	2,032.91	
MNW							4/9/2009 0000		1.16	2033.09	0.00	2,033.09	
MNW							7/9/2009 0000		3.2	2031.05	0.00	2,031.05	

NM - No Measurement

Type:  
MNW Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							10/29/2009 0000		4.33	2029.92	0.00	2,029.92	
MNW							1/21/2010 0000		1.59	2032.66	0.00	2,032.66	
MNW							5/27/2010 0000		1.55	2032.70	0.00	2,032.70	
MNW							7/25/2011 0000		4.26	2029.99	0.00	2,029.99	
MNW							5/31/2012 0000		1.4	2032.85	0.00	2,032.85	
MNW							7/3/2013 0000		2.04	2032.21	0.00	2,032.21	
MNW							5/18/2014 0000		-0.37	2034.62	0.00	2,034.62	
MNW							7/15/2015 0000		0.37	2033.88	0.00	2,033.88	
MNW							6/28/2017 0000		2.54	2031.71	0.00	2,031.71	
MNW							8/18/2021 0943		2.33	2031.92	0.00	2,031.92	
MNW							5/25/2023 0843		2.25	2032.00	0.00	2,032.00	
<b>MW-05</b>	979063.4391	592223.0659	2023.11	NA	2026.00	A		0					
MNW							11/6/2001 0000		2.64	2020.47	0.00	2,020.47	
MNW							6/4/2004 1626		1.98	2021.13	0.00	2,021.13	
MNW							6/7/2004 1148		2.27	2020.84	0.00	2,020.84	
MNW							6/11/2004 1430		2.42	2020.69	0.00	2,020.69	
MNW							6/14/2004 1600		2.38	2020.73	0.00	2,020.73	
MNW							6/25/2004 0841		2.53	2020.58	0.00	2,020.58	
MNW							8/8/2004 0853		2.26	2020.85	0.00	2,020.85	
MNW							2/9/2005 0000		1.64	2021.47	0.00	2,021.47	
MNW							1/11/2007 0000		1.82	2021.29	0.00	2,021.29	
MNW							4/5/2007 0000		2.07	2021.04	0.00	2,021.04	
MNW							7/11/2007 0000		2.85	2020.26	0.00	2,020.26	
MNW							10/11/2007 0000		3.4	2019.71	0.00	2,019.71	
MNW							1/8/2008 0000		2.19	2020.92	0.00	2,020.92	
MNW							4/16/2008 0000		1.74	2021.37	0.00	2,021.37	
MNW							7/10/2008 0000		2.24	2020.87	0.00	2,020.87	

NM - No Measurement

Type:  
MNW                      Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							10/16/2008 0000		2.2	2020.91	0.00	2,020.91	
MNW							2/12/2009 0000		1.25	2021.86	0.00	2,021.86	
MNW							4/9/2009 0000		1.27	2021.84	0.00	2,021.84	
MNW							7/9/2009 0000		1.89	2021.22	0.00	2,021.22	
MNW							10/29/2009 0000		1.84	2021.27	0.00	2,021.27	
MNW							1/21/2010 0000		1.99	2021.12	0.00	2,021.12	
MNW							5/27/2010 0000		2	2021.11	0.00	2,021.11	
MNW							7/25/2011 0000		2.7	2020.41	0.00	2,020.41	
MNW							5/31/2012 0000		2.16	2020.95	0.00	2,020.95	
MNW							7/3/2013 0000		2.42	2020.69	0.00	2,020.69	
MNW							5/18/2014 0000		1.79	2021.32	0.00	2,021.32	
MNW							7/15/2015 0000		1.55	2021.56	0.00	2,021.56	
MNW							6/28/2017 0000		2.57	2020.54	0.00	2,020.54	
MNW							8/18/2021 0934		2.36	2020.75	0.00	2,020.75	
MNW							5/25/2023 0853		2.08	2021.03	0.00	2,021.03	
<b>MW-06</b>	978973.2045	592468.4489	2018.62	NA	2020.28	A		0					
MNW							11/7/2001 0000		3.48	2015.14	0.00	2,015.14	
MNW							6/4/2004 1453		2.69	2015.93	0.00	2,015.93	
MNW							6/7/2004 1102		3.42	2015.20	0.00	2,015.20	
MNW							6/14/2004 0930		4.37	2014.25	0.00	2,014.25	
MNW							6/14/2004 1511		4.45	2014.17	0.00	2,014.17	
MNW							6/25/2004 0729		4.88	2013.74	0.00	2,013.74	
MNW							8/8/2004 0818		4	2014.62	0.00	2,014.62	
MNW							2/9/2005 0000		0.69	2017.93	0.00	2,017.93	
MNW							1/11/2007 0000		1.79	2016.83	0.00	2,016.83	
MNW							4/5/2007 0000		2.34	2016.28	0.00	2,016.28	
MNW							7/11/2007 0000		5.12	2013.50	0.00	2,013.50	

NM - No Measurement

Type:  
MNW                      Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							10/11/2007 0000		6.07	2012.55	0.00	2,012.55	
MNW							1/8/2008 0000		0.48	2018.14	0.00	2,018.14	
MNW							4/16/2008 0000		0.05	2018.57	0.00	2,018.57	
MNW							7/10/2008 0000		3.49	2015.13	0.00	2,015.13	
MNW							10/16/2008 0000		0.62	2018.00	0.00	2,018.00	
MNW							2/12/2009 0000		0.21	2018.41	0.00	2,018.41	
MNW							4/9/2009 0000		0.13	2018.49	0.00	2,018.49	
MNW							7/9/2009 0000		2.4	2016.22	0.00	2,016.22	
MNW							10/29/2009 0000		1.19	2017.43	0.00	2,017.43	
MNW							1/21/2010 0000		2.64	2015.98	0.00	2,015.98	
MNW							5/27/2010 0000		2.16	2016.46	0.00	2,016.46	
MNW							7/25/2011 0000		5.47	2013.15	0.00	2,013.15	
MNW							5/31/2012 0000		3.33	2015.29	0.00	2,015.29	
MNW							7/3/2013 0000		3.92	2014.70	0.00	2,014.70	
MNW							5/18/2014 0000		1.79	2016.83	0.00	2,016.83	
MNW							7/15/2015 0000		1.86	2016.76	0.00	2,016.76	
MNW							6/28/2017 0000		5.1	2013.52	0.00	2,013.52	
MNW							8/18/2021 1032		5.1	2013.52	0.00	2,013.52	
MNW							5/25/2023 1049		3.29	2015.33	0.00	2,015.33	
<b>MW-07</b>	978803.3993	592454.4238	2024.24	NA	2026.14	A		0					
MNW							11/7/2001 0000		3.68	2020.56	0.00	2,020.56	
MNW							6/4/2004 1459		2.37	2021.87	0.00	2,021.87	
MNW							6/7/2004 1104		2.78	2021.46	0.00	2,021.46	
MNW							6/14/2004 1100		3.08	2021.16	0.00	2,021.16	
MNW							6/14/2004 1512		3.08	2021.16	0.00	2,021.16	
MNW							6/25/2004 0732		3.32	2020.92	0.00	2,020.92	
MNW							8/8/2004 0820		3.02	2021.22	0.00	2,021.22	

NM - No Measurement

Type:  
MNW Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							2/9/2005 0000		2.17	2022.07	0.00	2,022.07	
MNW							1/11/2007 0000		1.79	2022.45	0.00	2,022.45	
MNW							4/5/2007 0000		2.23	2022.01	0.00	2,022.01	
MNW							7/11/2007 0000		3.59	2020.65	0.00	2,020.65	
MNW							10/11/2007 0000		4.24	2020.00	0.00	2,020.00	
MNW							1/8/2008 0000		1.08	2023.16	0.00	2,023.16	
MNW							4/16/2008 0000		1.5	2022.74	0.00	2,022.74	
MNW							7/10/2008 0000		2.24	2022.00	0.00	2,022.00	
MNW							10/16/2008 0000		2.69	2021.55	0.00	2,021.55	
MNW							2/12/2009 0000		0.21	2024.03	0.00	2,024.03	
MNW							4/9/2009 0000		0.91	2023.33	0.00	2,023.33	
MNW							7/9/2009 0000		1.92	2022.32	0.00	2,022.32	
MNW							10/29/2009 0000		1.69	2022.55	0.00	2,022.55	
MNW							1/21/2010 0000		4.77	2019.47	0.00	2,019.47	
MNW							5/27/2010 0000		4.4	2019.84	0.00	2,019.84	
MNW							7/25/2011 0000		5.45	2018.79	0.00	2,018.79	
MNW							5/31/2012 0000		5.77	2018.47	0.00	2,018.47	
MNW							7/3/2013 0000		5.15	2019.09	0.00	2,019.09	
MNW							5/18/2014 0000		3.6	2020.64	0.00	2,020.64	
MNW							7/15/2015 0000		3.74	2020.50	0.00	2,020.50	
MNW							6/28/2017 0000		5.27	2018.97	0.00	2,018.97	
MNW							5/1/2019 0000		3.71	2020.53	0.00	2,020.53	
MNW							8/18/2021 1048		4.94	2019.30	0.00	2,019.30	
MNW							5/25/2023 1051		4.65	2019.59	0.00	2,019.59	
<b>MW-08</b>	978912.8311	592533.1998	2017.14	NA	2018.28	A		0					
MNW							11/7/2001 0000		4.56	2012.58	0.00	2,012.58	
MNW							6/4/2004 1455		3.23	2013.91	0.00	2,013.91	

NM - No Measurement

Type:  
MNW Monitoring Well

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**TABLE 2**  
**GROUNDWATER LEVEL MEASUREMENTS**  
**WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							6/7/2004 1105		3.84	2013.30	0.00	2,013.30	
MNW							6/14/2004 1015		4.51	2012.63	0.00	2,012.63	
MNW							6/14/2004 1509		4.52	2012.62	0.00	2,012.62	
MNW							6/25/2004 0731		5.76	2011.38	0.00	2,011.38	
MNW							8/8/2004 0816		4.33	2012.81	0.00	2,012.81	
MNW							2/9/2005 0000		2.48	2014.66	0.00	2,014.66	
MNW							1/11/2007 0000		NM	-	NM	-	
MNW							4/5/2007 0000		2.87	2014.27	0.00	2,014.27	
MNW							7/11/2007 0000		5.62	2011.52	0.00	2,011.52	
MNW							10/11/2007 0000		7.45	2009.69	0.00	2,009.69	
MNW							1/8/2008 0000		1.04	2016.10	0.00	2,016.10	
MNW							4/16/2008 0000		2.55	2014.59	0.00	2,014.59	
MNW							7/10/2008 0000		4.2	2012.94	0.00	2,012.94	
MNW							10/16/2008 0000		4.39	2012.75	0.00	2,012.75	
MNW							2/12/2009 0000		NM	-	NM	-	Snow Covered
MNW							4/9/2009 0000		2.4	2014.74	0.00	2,014.74	
MNW							7/9/2009 0000		3.69	2013.45	0.00	2,013.45	
MNW							10/29/2009 0000		3.03	2014.11	0.00	2,014.11	
MNW							1/21/2010 0000		3.87	2013.27	0.00	2,013.27	
MNW							5/27/2010 0000		3.81	2013.33	0.00	2,013.33	
MNW							7/25/2011 0000		6.16	2010.98	0.00	2,010.98	
MNW							5/31/2012 0000		3.69	2013.45	0.00	2,013.45	
MNW							7/3/2013 0000		4.07	2013.07	0.00	2,013.07	
MNW							5/18/2014 0000		2.71	2014.43	0.00	2,014.43	
MNW							7/15/2015 0000		2.86	2014.28	0.00	2,014.28	
MNW							6/28/2017 0000		4.84	2012.30	0.00	2,012.30	
MNW							8/18/2021 1005		5.04	2012.10	0.00	2,012.10	
MNW							5/25/2023 1047		4.76	2012.38	0.00	2,012.38	

NM - No Measurement

Type:

MNW

Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
<b>MW-10</b>	978535.9216	592744.4241	2006.26	NA	2007.95	A		0					
MNW							6/4/2004 1547		1.13	2005.13	0.00	2,005.13	
MNW							6/7/2004 1154		2.11	2004.15	0.00	2,004.15	
MNW							6/14/2004 1145		3.5	2002.76	0.00	2,002.76	
MNW							6/14/2004 1521		4.96	2001.30	0.00	2,001.30	
MNW							6/25/2004 0807		4.55	2001.71	0.00	2,001.71	
MNW							8/8/2004 0832		2.82	2003.44	0.00	2,003.44	
MNW							2/9/2005 0000		0.03	2006.23	0.00	2,006.23	
MNW							1/11/2007 0000		-0.02	2006.28	0.00	2,006.28	
MNW							4/5/2007 0000		0.53	2005.73	0.00	2,005.73	
MNW							7/11/2007 0000		6.4	1999.86	0.00	1,999.86	
MNW							10/11/2007 0000		9.25	1997.01	0.00	1,997.01	
MNW							1/8/2008 0000		0.92	2005.34	0.00	2,005.34	
MNW							4/16/2008 0000		0.7	2005.56	0.00	2,005.56	
MNW							6/10/2008 0000		5.42	2000.84	0.00	2,000.84	
MNW							7/10/2008 0000		3.82	2002.44	0.00	2,002.44	
MNW							9/11/2008 0000		5.74	2000.52	0.00	2,000.52	
MNW							10/16/2008 0000		5.69	2000.57	0.00	2,000.57	
MNW							11/25/2008 0000		1.14	2005.12	0.00	2,005.12	
MNW							2/12/2009 0000		0.19	2006.07	0.00	2,006.07	
MNW							4/9/2009 0000		0.18	2006.08	0.00	2,006.08	
MNW							7/9/2009 0000		3.09	2003.17	0.00	2,003.17	
MNW							10/29/2009 0000		1.4	2004.86	0.00	2,004.86	
MNW							1/21/2010 0000		0.76	2005.50	0.00	2,005.50	
MNW							5/27/2010 0000		3.17	2003.09	0.00	2,003.09	
MNW							7/25/2011 0000		6.33	1999.93	0.00	1,999.93	
MNW							5/31/2012 0000		1.88	2004.38	0.00	2,004.38	
MNW							7/3/2013 0000		4.3	2001.96	0.00	2,001.96	

NM - No Measurement

Type:  
MNW Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							5/18/2014 0000		0.79	2005.47	0.00	2,005.47	
MNW							7/15/2015 0000		1.83	2004.43	0.00	2,004.43	
MNW							6/28/2017 0000		5.6	2000.66	0.00	2,000.66	
MNW							8/18/2021 1112		5.8	2000.46	0.00	2,000.46	
MNW							5/25/2023 0934		3.21	2003.05	0.00	2,003.05	
<b>MW-11</b>	978340.5964	592466.9970	2024.01	2027.08	2026.92	A		0					
MNW							6/4/2004 1559		0.6	2023.41	0.00	2,023.41	
MNW							6/7/2004 1132		1.18	2022.83	0.00	2,022.83	
MNW							6/10/2004 1000		1.74	2022.27	0.00	2,022.27	
MNW							6/14/2004 1529		2.21	2021.80	0.00	2,021.80	
MNW							6/25/2004 0820		2.77	2021.24	0.00	2,021.24	
MNW							8/8/2004 0840		1.73	2022.28	0.00	2,022.28	
MNW							2/9/2005 0000		0.16	2023.85	0.00	2,023.85	
MNW							1/11/2007 0000		0.26	2023.75	0.00	2,023.75	
MNW							4/5/2007 0000		0.41	2023.60	0.00	2,023.60	
MNW							7/11/2007 0000		3.35	2020.66	0.00	2,020.66	
MNW							10/11/2007 0000		6.38	2017.63	0.00	2,017.63	
MNW							1/8/2008 0000		0.71	2023.30	0.00	2,023.30	
MNW							4/16/2008 0000		0.92	2023.09	0.00	2,023.09	
MNW							6/10/2008 0000		3.04	2020.97	0.00	2,020.97	
MNW							7/10/2008 0000		1.78	2022.23	0.00	2,022.23	
MNW							9/11/2008 0000		3.38	2020.63	0.00	2,020.63	
MNW							10/16/2008 0000		1.39	2022.62	0.00	2,022.62	
MNW							11/25/2008 0000		0.76	2023.25	0.00	2,023.25	
MNW							2/12/2009 0000		0.02	2023.99	0.00	2,023.99	
MNW							4/9/2009 0000		0.38	2023.63	0.00	2,023.63	
MNW							7/9/2009 0000		1.47	2022.54	0.00	2,022.54	

NM - No Measurement

Type:  
MNW Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							10/29/2009 0000		0.51	2023.50	0.00	2,023.50	
MNW							1/21/2010 0000		0.89	2023.12	0.00	2,023.12	
MNW							5/27/2010 0000		1.75	2022.26	0.00	2,022.26	
MNW							7/25/2011 0000		3.84	2020.17	0.00	2,020.17	
MNW							5/31/2012 0000		0.87	2023.14	0.00	2,023.14	
MNW							7/3/2013 0000		0.99	2023.02	0.00	2,023.02	
MNW							5/18/2014 0000		5.09	2018.92	0.00	2,018.92	
MNW							7/15/2015 0000		0.02	2023.99	0.00	2,023.99	
MNW							6/28/2017 0000		2.67	2021.34	0.00	2,021.34	
MNW							8/18/2021 1123		2.58	2021.43	0.00	2,021.43	
MNW							5/25/2023 0914		2.43	2021.58	0.00	2,021.58	
<b>MW-12</b>	978338.5912	592597.3441	2015.67	2018.84	2018.68	A		0					
MNW							6/4/2004 1602		3.85	2011.82	0.00	2,011.82	
MNW							6/7/2004 1134		5	2010.67	0.00	2,010.67	
MNW							6/10/2004 0900		5.26	2010.41	0.00	2,010.41	
MNW							6/14/2004 1543		5.83	2009.84	0.00	2,009.84	
MNW							6/25/2004 0816		6.3	2009.37	0.00	2,009.37	
MNW							8/8/2004 0842		5.96	2009.71	0.00	2,009.71	
MNW							2/9/2005 0000		3.74	2011.93	0.00	2,011.93	
MNW							1/11/2007 0000		4.5	2011.17	0.00	2,011.17	
MNW							4/5/2007 0000		4.08	2011.59	0.00	2,011.59	
MNW							7/11/2007 0000		6.93	2008.74	0.00	2,008.74	
MNW							10/11/2007 0000		8.57	2007.10	0.00	2,007.10	
MNW							1/8/2008 0000		3.89	2011.78	0.00	2,011.78	
MNW							4/16/2008 0000		4.27	2011.40	0.00	2,011.40	
MNW							6/10/2008 0000		6.56	2009.11	0.00	2,009.11	
MNW							7/10/2008 0000		6.24	2009.43	0.00	2,009.43	

NM - No Measurement

Type:  
MNW                      Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							9/11/2008 0000		6.95	2008.72	0.00	2,008.72	
MNW							10/16/2008 0000		6.53	2009.14	0.00	2,009.14	
MNW							11/25/2008 0000		5.44	2010.23	0.00	2,010.23	
MNW							2/12/2009 0000		3.27	2012.40	0.00	2,012.40	
MNW							4/9/2009 0000		3.79	2011.88	0.00	2,011.88	
MNW							7/9/2009 0000		5.95	2009.72	0.00	2,009.72	
MNW							10/29/2009 0000		5.57	2010.10	0.00	2,010.10	
MNW							1/21/2010 0000		5.51	2010.16	0.00	2,010.16	
MNW							5/27/2010 0000		5.6	2010.07	0.00	2,010.07	
MNW							7/25/2011 0000		7.23	2008.44	0.00	2,008.44	
MNW							5/31/2012 0000		5.78	2009.89	0.00	2,009.89	
MNW							7/3/2013 0000		6.01	2009.66	0.00	2,009.66	
MNW							5/18/2014 0000		4.71	2010.96	0.00	2,010.96	
MNW							7/15/2015 0000		4.91	2010.76	0.00	2,010.76	
MNW							6/28/2017 0000		6.81	2008.86	0.00	2,008.86	
MNW							5/1/2019 0000		4.73	2010.94	0.00	2,010.94	
MNW							8/18/2021 1125		6.67	2009.00	0.00	2,009.00	
MNW							5/25/2023 0916		5.76	2009.91	0.00	2,009.91	
<b>MW-13</b>	978334.5807	592741.7286	2007.13	2010.23	2010.06	A		0					
MNW							6/4/2004 1604		3.64	2003.49	0.00	2,003.49	
MNW							6/7/2004 1136		3.83	2003.30	0.00	2,003.30	
MNW							6/9/2004 0800		3.82	2003.31	0.00	2,003.31	
MNW							6/14/2004 1545		4.17	2002.96	0.00	2,002.96	
MNW							6/25/2004 0812		4.39	2002.74	0.00	2,002.74	
MNW							8/8/2004 0846		4.05	2003.08	0.00	2,003.08	
MNW							2/9/2005 0000		1.99	2005.14	0.00	2,005.14	
MNW							1/11/2007 0000		1.45	2005.68	0.00	2,005.68	

NM - No Measurement

Type:  
MNW Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							4/5/2007 0000		2.41	2004.72	0.00	2,004.72	
MNW							7/11/2007 0000		4.75	2002.38	0.00	2,002.38	
MNW							10/11/2007 0000		5.68	2001.45	0.00	2,001.45	
MNW							1/8/2008 0000		0.46	2006.67	0.00	2,006.67	
MNW							4/16/2008 0000		3.32	2003.81	0.00	2,003.81	
MNW							6/10/2008 0000		5.06	2002.07	0.00	2,002.07	
MNW							7/10/2008 0000		4.68	2002.45	0.00	2,002.45	
MNW							9/11/2008 0000		4.88	2002.25	0.00	2,002.25	
MNW							10/16/2008 0000		1.1	2006.03	0.00	2,006.03	
MNW							11/25/2008 0000		3.62	2003.51	0.00	2,003.51	
MNW							2/12/2009 0000		0.39	2006.74	0.00	2,006.74	
MNW							4/9/2009 0000		0.7	2006.43	0.00	2,006.43	
MNW							7/9/2009 0000		4.32	2002.81	0.00	2,002.81	
MNW							10/29/2009 0000		6.05	2001.08	0.00	2,001.08	
MNW							1/21/2010 0000		3.29	2003.84	0.00	2,003.84	
MNW							5/27/2010 0000		4.7	2002.43	0.00	2,002.43	
MNW							7/25/2011 0000		5.53	2001.60	0.00	2,001.60	
MNW							5/31/2012 0000		2.85	2004.28	0.00	2,004.28	
MNW							7/3/2013 0000		4.82	2002.31	0.00	2,002.31	
MNW							5/18/2014 0000		2.18	2004.95	0.00	2,004.95	
MNW							7/15/2015 0000		1.58	2005.55	0.00	2,005.55	
MNW							6/28/2017 0000		5.1	2002.03	0.00	2,002.03	
MNW							8/18/2021 1127		5.02	2002.11	0.00	2,002.11	
MNW							5/25/2023 0918		5.05	2002.08	0.00	2,002.08	
<b>MW-14</b>	978464.9225	592765.7927	2005.22	2008.34	2008.16	A		0					
MNW							6/4/2004 1550		1.87	2003.35	0.00	2,003.35	
MNW							6/7/2004 1117		2.5	2002.72	0.00	2,002.72	

NM - No Measurement

Type:  
MNW Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							6/10/2004 0950		2.91	2002.31	0.00	2,002.31	
MNW							6/14/2004 1523		3.86	2001.36	0.00	2,001.36	
MNW							6/25/2004 0804		5.29	1999.93	0.00	1,999.93	
MNW							8/8/2004 0834		3.28	2001.94	0.00	2,001.94	
MNW							2/9/2005 0000		0.41	2004.81	0.00	2,004.81	
MNW							1/11/2007 0000		0.5	2004.72	0.00	2,004.72	
MNW							4/5/2007 0000		1.17	2004.05	0.00	2,004.05	
MNW							7/11/2007 0000		4.02	2001.20	0.00	2,001.20	
MNW							10/11/2007 0000		6.89	1998.33	0.00	1,998.33	
MNW							1/8/2008 0000		0.87	2004.35	0.00	2,004.35	
MNW							4/16/2008 0000		1.78	2003.44	0.00	2,003.44	
MNW							6/10/2008 0000		3.77	2001.45	0.00	2,001.45	
MNW							7/10/2008 0000		3.36	2001.86	0.00	2,001.86	
MNW							9/11/2008 0000		3.78	2001.44	0.00	2,001.44	
MNW							10/16/2008 0000		4.22	2001.00	0.00	2,001.00	
MNW							11/25/2008 0000		2.3	2002.92	0.00	2,002.92	
MNW							2/12/2009 0000		0.27	2004.95	0.00	2,004.95	
MNW							4/9/2009 0000		0.65	2004.57	0.00	2,004.57	
MNW							7/9/2009 0000		2.74	2002.48	0.00	2,002.48	
MNW							10/29/2009 0000		1.33	2003.89	0.00	2,003.89	
MNW							1/21/2010 0000		1.18	2004.04	0.00	2,004.04	
MNW							5/27/2010 0000		2.42	2002.80	0.00	2,002.80	
MNW							7/25/2011 0000		4.46	2000.76	0.00	2,000.76	
MNW							5/31/2012 0000		2.7	2002.52	0.00	2,002.52	
MNW							7/3/2013 0000		3.47	2001.75	0.00	2,001.75	
MNW							5/18/2014 0000		1.08	2004.14	0.00	2,004.14	
MNW							7/15/2015 0000		1.46	2003.76	0.00	2,003.76	
MNW							6/28/2017 0000		4.29	2000.93	0.00	2,000.93	

NM - No Measurement

Type:  
MNW Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							8/18/2021 1114		5.06	2000.16	0.00	2,000.16	
MNW							5/25/2023 0925		3.77	2001.45	0.00	2,001.45	
<b>MW-15</b>	978457.9041	592600.3521	2016.62	2019.75	2019.59	A		0					
MNW							6/4/2004 1553		4.88	2011.74	0.00	2,011.74	
MNW							6/7/2004 1119		5.35	2011.27	0.00	2,011.27	
MNW							6/10/2004 1215		5.57	2011.05	0.00	2,011.05	
MNW							6/14/2004 1525		6.12	2010.50	0.00	2,010.50	
MNW							6/25/2004 0800		6.6	2010.02	0.00	2,010.02	
MNW							8/8/2004 0836		6.3	2010.32	0.00	2,010.32	
MNW							2/9/2005 0000		3.89	2012.73	0.00	2,012.73	
MNW							1/11/2007 0000		4.67	2011.95	0.00	2,011.95	
MNW							4/5/2007 0000		4.34	2012.28	0.00	2,012.28	
MNW							7/11/2007 0000		7.33	2009.29	0.00	2,009.29	
MNW							10/11/2007 0000		9.02	2007.60	0.00	2,007.60	
MNW							1/8/2008 0000		4.21	2012.41	0.00	2,012.41	
MNW							4/16/2008 0000		4.55	2012.07	0.00	2,012.07	
MNW							6/10/2008 0000		6.86	2009.76	0.00	2,009.76	
MNW							7/10/2008 0000		6.58	2010.04	0.00	2,010.04	
MNW							9/11/2008 0000		7.33	2009.29	0.00	2,009.29	
MNW							10/16/2008 0000		7.04	2009.58	0.00	2,009.58	
MNW							11/25/2008 0000		5.84	2010.78	0.00	2,010.78	
MNW							2/12/2009 0000		3.45	2013.17	0.00	2,013.17	
MNW							4/9/2009 0000		4.2	2012.42	0.00	2,012.42	
MNW							7/9/2009 0000		6.34	2010.28	0.00	2,010.28	
MNW							10/29/2009 0000		2.2	2014.42	0.00	2,014.42	
MNW							1/21/2010 0000		5.94	2010.68	0.00	2,010.68	
MNW							5/27/2010 0000		5.94	2010.68	0.00	2,010.68	

NM - No Measurement

Type:  
MNW                      Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							7/25/2011 0000		7.61	2009.01	0.00	2,009.01	
MNW							5/31/2012 0000		6.13	2010.49	0.00	2,010.49	
MNW							7/3/2013 0000		6.35	2010.27	0.00	2,010.27	
MNW							5/18/2014 0000		5.21	2011.41	0.00	2,011.41	
MNW							7/15/2015 0000		2.37	2014.25	0.00	2,014.25	
MNW							6/28/2017 0000		7.32	2009.30	0.00	2,009.30	
MNW							5/1/2019 0000		2.37	2014.25	0.00	2,014.25	
MNW							8/18/2021 1117		6.91	2009.71	0.00	2,009.71	
MNW							5/25/2023 0927		5.97	2010.65	0.00	2,010.65	
<b>MW-16</b>	978467.9303	592445.9410	2026.75	2029.83	2029.66	A		0					
MNW							6/4/2004 1556		5.2	2021.55	0.00	2,021.55	
MNW							6/7/2004 1121		5.82	2020.93	0.00	2,020.93	
MNW							6/10/2004 1420		6.17	2020.58	0.00	2,020.58	
MNW							6/14/2004 1522		7.26	2019.49	0.00	2,019.49	
MNW							6/25/2004 0755		7.95	2018.80	0.00	2,018.80	
MNW							8/8/2004 0838		7.88	2018.87	0.00	2,018.87	
MNW							2/9/2005 0000		4.5	2022.25	0.00	2,022.25	
MNW							1/11/2007 0000		5.05	2021.70	0.00	2,021.70	
MNW							4/5/2007 0000		5	2021.75	0.00	2,021.75	
MNW							7/11/2007 0000		9.24	2017.51	0.00	2,017.51	
MNW							10/11/2007 0000		14.2	2012.55	0.00	2,012.55	
MNW							1/8/2008 0000		3.81	2022.94	0.00	2,022.94	
MNW							4/16/2008 0000		5.38	2021.37	0.00	2,021.37	
MNW							6/10/2008 0000		8.08	2018.67	0.00	2,018.67	
MNW							7/10/2008 0000		7.86	2018.89	0.00	2,018.89	
MNW							9/11/2008 0000		8.72	2018.03	0.00	2,018.03	
MNW							10/16/2008 0000		9.21	2017.54	0.00	2,017.54	

NM - No Measurement

Type:  
MNW Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							11/25/2008 0000		7	2019.75	0.00	2,019.75	
MNW							2/12/2009 0000		3.9	2022.85	0.00	2,022.85	
MNW							4/9/2009 0000		4.82	2021.93	0.00	2,021.93	
MNW							7/9/2009 0000		7.17	2019.58	0.00	2,019.58	
MNW							10/29/2009 0000		7.53	2019.22	0.00	2,019.22	
MNW							1/21/2010 0000		6.14	2020.61	0.00	2,020.61	
MNW							5/27/2010 0000		6.58	2020.17	0.00	2,020.17	
MNW							7/25/2011 0000		9.74	2017.01	0.00	2,017.01	
MNW							5/31/2012 0000		6.51	2020.24	0.00	2,020.24	
MNW							7/3/2013 0000		6.92	2019.83	0.00	2,019.83	
MNW							5/18/2014 0000		4.74	2022.01	0.00	2,022.01	
MNW							7/15/2015 0000		5.42	2021.33	0.00	2,021.33	
MNW							6/28/2017 0000		7.83	2018.92	0.00	2,018.92	
MNW							8/18/2021 1121		7.6	2019.15	0.00	2,019.15	
MNW							5/25/2023 1102		6.45	2020.30	0.00	2,020.30	
<b>MW-17</b>	978446.8751	592377.7594	2029.76	2032.83	2032.67	A		0					
MNW							6/4/2004 1610		5.39	2024.37	0.00	2,024.37	
MNW							6/7/2004 1140		6.22	2023.54	0.00	2,023.54	
MNW							6/11/2004 1240		7.01	2022.75	0.00	2,022.75	
MNW							6/14/2004 1552		6.6	2023.16	0.00	2,023.16	
MNW							6/25/2004 0827		7.7	2022.06	0.00	2,022.06	
MNW							8/8/2004 0842		6.77	2022.99	0.00	2,022.99	
MNW							2/9/2005 0000		1.39	2028.37	0.00	2,028.37	
MNW							1/11/2007 0000		3	2026.76	0.00	2,026.76	
MNW							4/5/2007 0000		4.93	2024.83	0.00	2,024.83	
MNW							7/11/2007 0000		8.85	2020.91	0.00	2,020.91	
MNW							10/11/2007 0000		10.5	2019.26	0.00	2,019.26	

NM - No Measurement

Type:  
MNW                      Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							1/8/2008 0000		2.16	2027.60	0.00	2,027.60	
MNW							4/16/2008 0000		3.51	2026.25	0.00	2,026.25	
MNW							6/10/2008 0000		8.1	2021.66	0.00	2,021.66	
MNW							7/10/2008 0000		7.25	2022.51	0.00	2,022.51	
MNW							9/11/2008 0000		8.11	2021.65	0.00	2,021.65	
MNW							10/16/2008 0000		8.12	2021.64	0.00	2,021.64	
MNW							11/25/2008 0000		3.18	2026.58	0.00	2,026.58	
MNW							2/12/2009 0000		1.48	2028.28	0.00	2,028.28	
MNW							4/9/2009 0000		2.49	2027.27	0.00	2,027.27	
MNW							7/9/2009 0000		6.54	2023.22	0.00	2,023.22	
MNW							10/29/2009 0000		2.46	2027.30	0.00	2,027.30	
MNW							1/21/2010 0000		4.65	2025.11	0.00	2,025.11	
MNW							5/27/2010 0000		5.98	2023.78	0.00	2,023.78	
MNW							7/25/2011 0000		8.81	2020.95	0.00	2,020.95	
MNW							5/31/2012 0000		5.69	2024.07	0.00	2,024.07	
MNW							7/3/2013 0000		6.69	2023.07	0.00	2,023.07	
MNW							5/18/2014 0000		2.31	2027.45	0.00	2,027.45	
MNW							7/15/2015 0000		3.16	2026.60	0.00	2,026.60	
MNW							6/28/2017 0000		7.23	2022.53	0.00	2,022.53	
MNW							8/18/2021 0952		7.34	2022.42	0.00	2,022.42	
MNW							5/25/2023 0902		6.46	2023.30	0.00	2,023.30	
<b>MW-18</b>	978548.1407	592379.7648	2031.86	2034.93	2034.81	A		0					
MNW							6/4/2004 1612		4.96	2026.90	0.00	2,026.90	
MNW							6/7/2004 1142		6.25	2025.61	0.00	2,025.61	
MNW							6/11/2004 1325		7.07	2024.79	0.00	2,024.79	
MNW							6/14/2004 1550		7.81	2024.05	0.00	2,024.05	
MNW							6/25/2004 0833		9.14	2022.72	0.00	2,022.72	

NM - No Measurement

Type:  
MNW                      Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							8/8/2004 0850		7.12	2024.74	0.00	2,024.74	
MNW							2/9/2005 0000		2.55	2029.31	0.00	2,029.31	
MNW							1/11/2007 0000		2.44	2029.42	0.00	2,029.42	
MNW							4/5/2007 0000		3.5	2028.36	0.00	2,028.36	
MNW							7/11/2007 0000		9.66	2022.20	0.00	2,022.20	
MNW							10/11/2007 0000		11.19	2020.67	0.00	2,020.67	
MNW							1/8/2008 0000		3.69	2028.17	0.00	2,028.17	
MNW							4/16/2008 0000		3	2028.86	0.00	2,028.86	
MNW							6/10/2008 0000		9.19	2022.67	0.00	2,022.67	
MNW							7/10/2008 0000		7.33	2024.53	0.00	2,024.53	
MNW							9/11/2008 0000		9.14	2022.72	0.00	2,022.72	
MNW							10/16/2008 0000		9.17	2022.69	0.00	2,022.69	
MNW							11/25/2008 0000		2.91	2028.95	0.00	2,028.95	
MNW							2/12/2009 0000		2.01	2029.85	0.00	2,029.85	
MNW							4/9/2009 0000		2.36	2029.50	0.00	2,029.50	
MNW							7/9/2009 0000		3.72	2028.14	0.00	2,028.14	
MNW							10/29/2009 0000		2.33	2029.53	0.00	2,029.53	
MNW							1/21/2010 0000		2.95	2028.91	0.00	2,028.91	
MNW							5/27/2010 0000		4.04	2027.82	0.00	2,027.82	
MNW							7/25/2011 0000		8.56	2023.30	0.00	2,023.30	
MNW							5/31/2012 0000		2.56	2029.30	0.00	2,029.30	
MNW							7/3/2013 0000		4.89	2026.97	0.00	2,026.97	
MNW							5/18/2014 0000		1.43	2030.43	0.00	2,030.43	
MNW							7/15/2015 0000		2.02	2029.84	0.00	2,029.84	
MNW							6/28/2017 0000		7.83	2024.03	0.00	2,024.03	
MNW							8/18/2021 0950		8.37	2023.49	0.00	2,023.49	
MNW							5/25/2023 0857		5.65	2026.21	0.00	2,026.21	

NM - No Measurement

Type:  
MNW                      Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MW-19	978683.0834	592632.8136	2018.78	2021.78	2021.63	A		0					
MNW							6/4/2004 0000		NM	-	0.00	-	
MNW							6/7/2004 1114		7.46	2011.32	0.00	2,011.32	
MNW							6/8/2004 1330		7.49	2011.29	0.00	2,011.29	
MNW							6/14/2004 1539		8.64	2010.14	0.00	2,010.14	
MNW							6/25/2004 0750		9.99	2008.79	0.00	2,008.79	
MNW							8/8/2004 0823		9.78	2009.00	0.00	2,009.00	
MNW							2/9/2005 0000		8.42	2010.36	0.00	2,010.36	
MNW							1/11/2007 0000		6.19	2012.59	0.00	2,012.59	
MNW							4/5/2007 0000		6.33	2012.45	0.00	2,012.45	
MNW							7/11/2007 0000		11.28	2007.50	0.00	2,007.50	
MNW							10/11/2007 0000		12.91	2005.87	0.00	2,005.87	
MNW							1/8/2008 0000		4.96	2013.82	0.00	2,013.82	
MNW							4/16/2008 0000		6.13	2012.65	0.00	2,012.65	
MNW							6/10/2008 0000		10.43	2008.35	0.00	2,008.35	
MNW							7/10/2008 0000		10.53	2008.25	0.00	2,008.25	
MNW							10/16/2008 0000		11.54	2007.24	0.00	2,007.24	
MNW							2/12/2009 0000		5.07	2013.71	0.00	2,013.71	
MNW							4/9/2009 0000		5.92	2012.86	0.00	2,012.86	
MNW							7/9/2009 0000		10.12	2008.66	0.00	2,008.66	
MNW							10/29/2009 0000		10.43	2008.35	0.00	2,008.35	
MNW							1/21/2010 0000		8.37	2010.41	0.00	2,010.41	
MNW							5/27/2010 0000		7.74	2011.04	0.00	2,011.04	
MNW							7/25/2011 0000		11.43	2007.35	0.00	2,007.35	
MNW							5/31/2012 0000		8.98	2009.80	0.00	2,009.80	
MNW							7/3/2013 0000		8.65	2010.13	0.00	2,010.13	
MNW							5/18/2014 0000		6.47	2012.31	0.00	2,012.31	
MNW							7/15/2015 0000		7.37	2011.41	0.00	2,011.41	

NM - No Measurement

Type:  
MNW Monitoring Well

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**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							6/28/2017 0000		10.01	2008.77	0.00	2,008.77	
MNW							8/18/2021 1100		10.32	2008.46	0.00	2,008.46	
MNW							5/25/2023 0942		9.04	2009.74	0.00	2,009.74	
<b>MW-20</b>	978782.8374	592761.2151	1999.67	2002.65	2002.47	A		0					
MNW							6/4/2004 1507		0.28	1999.39	0.00	1,999.39	
MNW							6/7/2004 1111		0.34	1999.33	0.00	1,999.33	
MNW							6/11/2004 1155		0.32	1999.35	0.00	1,999.35	
MNW							6/14/2004 1516		0.5	1999.17	0.00	1,999.17	
MNW							6/25/2004 0742		0.83	1998.84	0.00	1,998.84	
MNW							8/8/2004 0826		1.06	1998.61	0.00	1,998.61	
MNW							2/9/2005 0000		0.35	1999.32	0.00	1,999.32	
MNW							1/11/2007 0000		NM	-	NM	-	
MNW							4/5/2007 0000		0.16	1999.51	0.00	1,999.51	
MNW							7/11/2007 0000		0.49	1999.18	0.00	1,999.18	
MNW							10/11/2007 0000		6.3	1993.37	0.00	1,993.37	
MNW							1/8/2008 0000		0.41	1999.26	0.00	1,999.26	
MNW							4/16/2008 0000		0.16	1999.51	0.00	1,999.51	
MNW							7/10/2008 0000		0.65	1999.02	0.00	1,999.02	
MNW							10/16/2008 0000		0.13	1999.54	0.00	1,999.54	
MNW							2/12/2009 0000		0.04	1999.63	0.00	1,999.63	
MNW							4/9/2009 0000		0.07	1999.60	0.00	1,999.60	
MNW							7/9/2009 0000		0.89	1998.78	0.00	1,998.78	
MNW							10/29/2009 0000		0.19	1999.48	0.00	1,999.48	
MNW							1/21/2010 0000		0.26	1999.41	0.00	1,999.41	
MNW							5/27/2010 0000		0.76	1998.91	0.00	1,998.91	
MNW							7/25/2011 0000		3.01	1996.66	0.00	1,996.66	
MNW							5/31/2012 0000		0.23	1999.44	0.00	1,999.44	

NM - No Measurement

Type:  
MNW                      Monitoring Well

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							7/3/2013 0000		0.23	1999.44	0.00	1,999.44	
MNW							5/18/2014 0000		0.13	1999.54	0.00	1,999.54	
MNW							7/15/2015 0000		0.03	1999.64	0.00	1,999.64	
MNW							6/28/2017 0000		0.5	1999.17	0.00	1,999.17	
MNW							8/18/2021 1057		0.54	1999.13	0.00	1,999.13	
MNW							5/25/2023 0945		1.17	1998.50	0.00	1,998.50	
<b>MW-21</b>	978790.7387	592569.6006	2022.22	2025.21	2025.10	A		0					
MNW							6/4/2004 1502		10.32	2011.90	0.00	2,011.90	
MNW							6/7/2004 1108		10.65	2011.57	0.00	2,011.57	
MNW							6/8/2004 1450		10.77	2011.45	0.00	2,011.45	
MNW							6/14/2004 1517		10.99	2011.23	0.00	2,011.23	
MNW							6/25/2004 0737		11.17	2011.05	0.00	2,011.05	
MNW							8/8/2004 0824		10.61	2011.61	0.00	2,011.61	
MNW							2/9/2005 0000		10.99	2011.23	0.00	2,011.23	
MNW							1/11/2007 0000		9.81	2012.41	0.00	2,012.41	
MNW							4/5/2007 0000		9.74	2012.48	0.00	2,012.48	
MNW							7/11/2007 0000		11.82	2010.40	0.00	2,010.40	
MNW							10/11/2007 0000		13.16	2009.06	0.00	2,009.06	
MNW							1/8/2008 0000		9.21	2013.01	0.00	2,013.01	
MNW							4/16/2008 0000		9.76	2012.46	0.00	2,012.46	
MNW							7/10/2008 0000		10.75	2011.47	0.00	2,011.47	
MNW							10/16/2008 0000		11.69	2010.53	0.00	2,010.53	
MNW							2/12/2009 0000		8.77	2013.45	0.00	2,013.45	
MNW							4/9/2009 0000		9.6	2012.62	0.00	2,012.62	
MNW							7/9/2009 0000		10.48	2011.74	0.00	2,011.74	
MNW							10/29/2009 0000		11.39	2010.83	0.00	2,010.83	
MNW							1/21/2010 0000		11.02	2011.20	0.00	2,011.20	

NM - No Measurement

Type:  
MNW Monitoring Well

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.



**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							5/27/2010 0000		10.72	2011.50	0.00	2,011.50	
MNW							7/25/2011 0000		11.44	2010.78	0.00	2,010.78	
MNW							5/31/2012 0000		10.68	2011.54	0.00	2,011.54	
MNW							7/3/2013 0000		11.15	2011.07	0.00	2,011.07	
MNW							5/18/2014 0000		9.99	2012.23	0.00	2,012.23	
MNW							7/15/2015 0000		10.52	2011.70	0.00	2,011.70	
MNW							6/28/2017 0000		11.1	2011.12	0.00	2,011.12	
MNW							8/18/2021 1052		11.09	2011.13	0.00	2,011.13	
MNW							5/25/2023 1056		11.04	2011.18	0.00	2,011.18	
<b>MW-22</b>	978974.0795	592610.2009	2009.99	2013.08	2012.96	A		0					
MNW							6/4/2004 1450		13.94	1996.05	0.00	1,996.05	
MNW							6/7/2004 1101		14	1995.99	0.00	1,995.99	
MNW							6/11/2004 1055		14.06	1995.93	0.00	1,995.93	
MNW							6/14/2004 1508		14.14	1995.85	0.00	1,995.85	
MNW							6/25/2004 0726		14.18	1995.81	0.00	1,995.81	
MNW							8/8/2004 0830		14.15	1995.84	0.00	1,995.84	
MNW							2/9/2005 0000		13.68	1996.31	0.00	1,996.31	
MNW							1/11/2007 0000		13.25	1996.74	0.00	1,996.74	
MNW							4/5/2007 0000		12.52	1997.47	0.00	1,997.47	
MNW							7/11/2007 0000		14.21	1995.78	0.00	1,995.78	
MNW							10/11/2007 0000		14.37	1995.62	0.00	1,995.62	
MNW							1/8/2008 0000		13.25	1996.74	0.00	1,996.74	
MNW							4/16/2008 0000		11.12	1998.87	0.00	1,998.87	
MNW							7/10/2008 0000		14.12	1995.87	0.00	1,995.87	
MNW							10/16/2008 0000		13.94	1996.05	0.00	1,996.05	
MNW							2/12/2009 0000		13.47	1996.52	0.00	1,996.52	
MNW							4/9/2009 0000		11.04	1998.95	0.00	1,998.95	

NM - No Measurement

Type:  
MNW Monitoring Well

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							7/9/2009 0000		13.55	1996.44	0.00	1,996.44	
MNW							10/29/2009 0000		13.42	1996.57	0.00	1,996.57	
MNW							1/21/2010 0000		13.24	1996.75	0.00	1,996.75	
MNW							5/27/2010 0000		9.19	2000.80	0.00	2,000.80	
MNW							7/25/2011 0000		9.38	2000.61	0.00	2,000.61	
MNW							5/31/2012 0000		3.73	2006.26	0.00	2,006.26	
MNW							7/3/2013 0000		3.88	2006.11	0.00	2,006.11	
MNW							5/18/2014 0000		2.22	2007.77	0.00	2,007.77	
MNW							7/15/2015 0000		4.24	2005.75	0.00	2,005.75	
MNW							6/28/2017 0000		9.95	2000.04	0.00	2,000.04	
MNW							8/18/2021 1043		5.13	2004.86	0.00	2,004.86	
MNW							5/25/2023 1045		2.89	2007.10	0.00	2,007.10	
<b>MW-23</b>	979083.4516	592505.1994	2014.78	2017.75	2017.57	A		0					
MNW							6/4/2004 1445		2.61	2012.17	0.00	2,012.17	
MNW							6/7/2004 1439		3.1	2011.68	0.00	2,011.68	
MNW							6/14/2004 1505		4.82	2009.96	0.00	2,009.96	
MNW							6/25/2004 0718		8.07	2006.71	0.00	2,006.71	
MNW							8/8/2004 0811		4.85	2009.93	0.00	2,009.93	
MNW							2/9/2005 0000		1.03	2013.75	0.00	2,013.75	
MNW							1/11/2007 0000		1.89	2012.89	0.00	2,012.89	
MNW							4/5/2007 0000		2.46	2012.32	0.00	2,012.32	
MNW							7/11/2007 0000		7.55	2007.23	0.00	2,007.23	
MNW							10/11/2007 0000		12.39	2002.39	0.00	2,002.39	
MNW							1/8/2008 0000		3.72	2011.06	0.00	2,011.06	
MNW							4/16/2008 0000		3.82	2010.96	0.00	2,010.96	
MNW							7/10/2008 0000		7.23	2007.55	0.00	2,007.55	
MNW							10/16/2008 0000		9.15	2005.63	0.00	2,005.63	

NM - No Measurement

Type:  
MNW Monitoring Well

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

**TABLE 2  
GROUNDWATER LEVEL MEASUREMENTS  
WYOMING COUNTY FIRE TRAINING CENTER**

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Specific Gravity	Depth to Water (ft) From Gnd.	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
MNW							2/12/2009 0000		0.87	2013.91	0.00	2,013.91	
MNW							4/9/2009 0000		1.24	2013.54	0.00	2,013.54	
MNW							7/9/2009 0000		3.07	2011.71	0.00	2,011.71	
MNW							10/29/2009 0000		2.97	2011.81	0.00	2,011.81	
MNW							1/21/2010 0000		2.2	2012.58	0.00	2,012.58	
MNW							5/27/2010 0000		2.54	2012.24	0.00	2,012.24	
MNW							7/25/2011 0000		9.82	2004.96	0.00	2,004.96	
MNW							5/31/2012 0000		2.95	2011.83	0.00	2,011.83	
MNW							7/3/2013 0000		4	2010.78	0.00	2,010.78	
MNW							5/18/2014 0000		1.34	2013.44	0.00	2,013.44	
MNW							7/15/2015 0000		2.56	2012.22	0.00	2,012.22	
MNW							6/28/2017 0000		7.77	2007.01	0.00	2,007.01	
MNW							8/18/2021 0959		4.59	2010.19	0.00	2,010.19	
MNW							5/25/2023 1041		4.16	2010.62	0.00	2,010.62	

NM - No Measurement

Type:  
MNW                      Monitoring Well

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

**Table 3**  
**MW-02 Groundwater PFAS Analytical Results**  
**Wyoming County Fire Training Center**  
**Site V-00604-9**

EPA 537 Modified, Per-and Polyfluoroalkyl Substances (PFAS)	Units	Criteria (1)	6/29/2017	8/18/2021	5/25/2023 <sup>(2)</sup>
Perfluorobutanesulfonic acid (PFBS)	ng/L	-	2.0 U	0.88 J	0.80 J
Perfluorohexanesulfonic acid (PFHxS)	ng/L	-	1.6 J	1.1 J	0.84 J
Perfluoroheptanesulfonic Acid (PFHpS)	ng/L	-	2.0 U	1.8 U	1.8 U
Perfluorooctanesulfonic acid (PFOS)	ng/L	2.7	1.7 J	1.8 U	1.8 U
Perfluorodecanesulfonic acid (PFDS)	ng/L	-	2.0 U	1.8 U	1.8 U
Perfluorobutanoic acid (PFBA)	ng/L	-	35	33	22
Perfluoropentanoic acid (PFPeA)	ng/L	-	150	97	65
Perfluorohexanoic acid (PFHxA)	ng/L	-	84	47	32
Perfluoroheptanoic acid (PFHpA)	ng/L	-	46	28	21
Perfluorooctanoic acid (PFOA)	ng/L	6.7	<b>33</b>	<b>36</b>	<b>30</b>
Perfluorononanoic acid (PFNA)	ng/L	-	2	2	1.5 J
Perfluorodecanoic acid (PFDA)	ng/L	-	2.0 U	1.8 U	1.8 U
Perfluoroundecanoic acid (PFUnA)	ng/L	-	2.0 U	1.8 U	1.8 U
Perfluorododecanoic acid(PFDoA)	ng/L	-	2.0 U	1.8 U	1.8 U
Perfluorotridecanoic acid (PFTrA)	ng/L	-	2.0 U	1.8 U	1.8 U
Perfluorotetradecanoic acid (PFTeA)	ng/L	-	0.36 J	1.8 U	1.8 U
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ng/L	-	NR	4.5 U	4.5 U
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ng/L	-	NR	1.8 U	1.8 U
Perfluorooctanesulfonamide (PFOSA)	ng/L	-	0.65 J	1.8 U	1.8 U
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ng/L	-	NR	4.5 U	4.5 U
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ng/L	-	NR	4.5 U	4.5 U

**Notes:**

Criteria = NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998  
(Includes addendums through 2/2023)

(1) - Class GA, Protection for a Source of Drinking Water (Groundwater)

**Bold** - Analyte concentration exceeds Criteria (1)

- = No standard

U = Not detected above the quantitation limit

J = Analyte detected above method detection limit but below quantitation limits

NR = Not Reported

(2)- Results shown are the higher of the primary and duplicate samples

**Table 4**  
**Wells Proposed for Decommissioning**  
**Wyoming County Fire Training Center**  
**Site V-00604-9**

Monitoring Well ID	Most Recent Sampling Event	Proposed Action	Rationale
MW-01	2001, Destroyed	NA	NA
MW-02	2023	Keep	Included in SMP Monitoring Program
MW-03	2004	Decommission	Not included in SMP Monitoring Program
MW-04	2007	Keep	Water level gauging.
MW-05	2007	Keep	Water level gauging.
MW-06	2007	Decommission	Not included in SMP Monitoring Program
MW-07	2023	Keep	Included in SMP Monitoring Program
MW-08	2007	Keep	Water level gauging.
MW-09	2001, Destroyed <sup>(1)</sup>	Decommission	Decommission if found to exist.
MW-10	2007	Keep	Water level gauging.
MW-11	2007	Decommission	Not included in SMP Monitoring Program
MW-12	2023	Keep	Included in SMP Monitoring Program
MW-13	2007	Keep	Water level gauging.
MW-14	2015	Decommission	Not included in SMP Monitoring Program
MW-15	2023	Keep	Included in SMP Monitoring Program
MW-16	2007	Decommission	Not included in SMP Monitoring Program
MW-17	2007	Decommission	Not included in SMP Monitoring Program
MW-18	2007	Decommission	Not included in SMP Monitoring Program
MW-19	2007	Keep	Water level gauging.
MW-20	2007	Keep	Water level gauging.
MW-21	2007	Decommission	Not included in SMP Monitoring Program
MW-22	2007	Keep	Water level gauging.
MW-23	2007	Decommission	Not included in SMP Monitoring Program
AGRO-1	Unknown <sup>(2)</sup>	Decommission	Not included in SMP Monitoring Program
Weber Well	Unknown <sup>(2)</sup>	Decommission	Not included in SMP Monitoring Program
Rock Well 1	Unknown <sup>(2)</sup>	Decommission	Not included in SMP Monitoring Program
Rock Well 2	Unknown <sup>(2)</sup>	Decommission	Not included in SMP Monitoring Program

**Notes:**

NA - Not applicable

PRB - Permeable Reactive Barrier

SMP - Site Management Plan

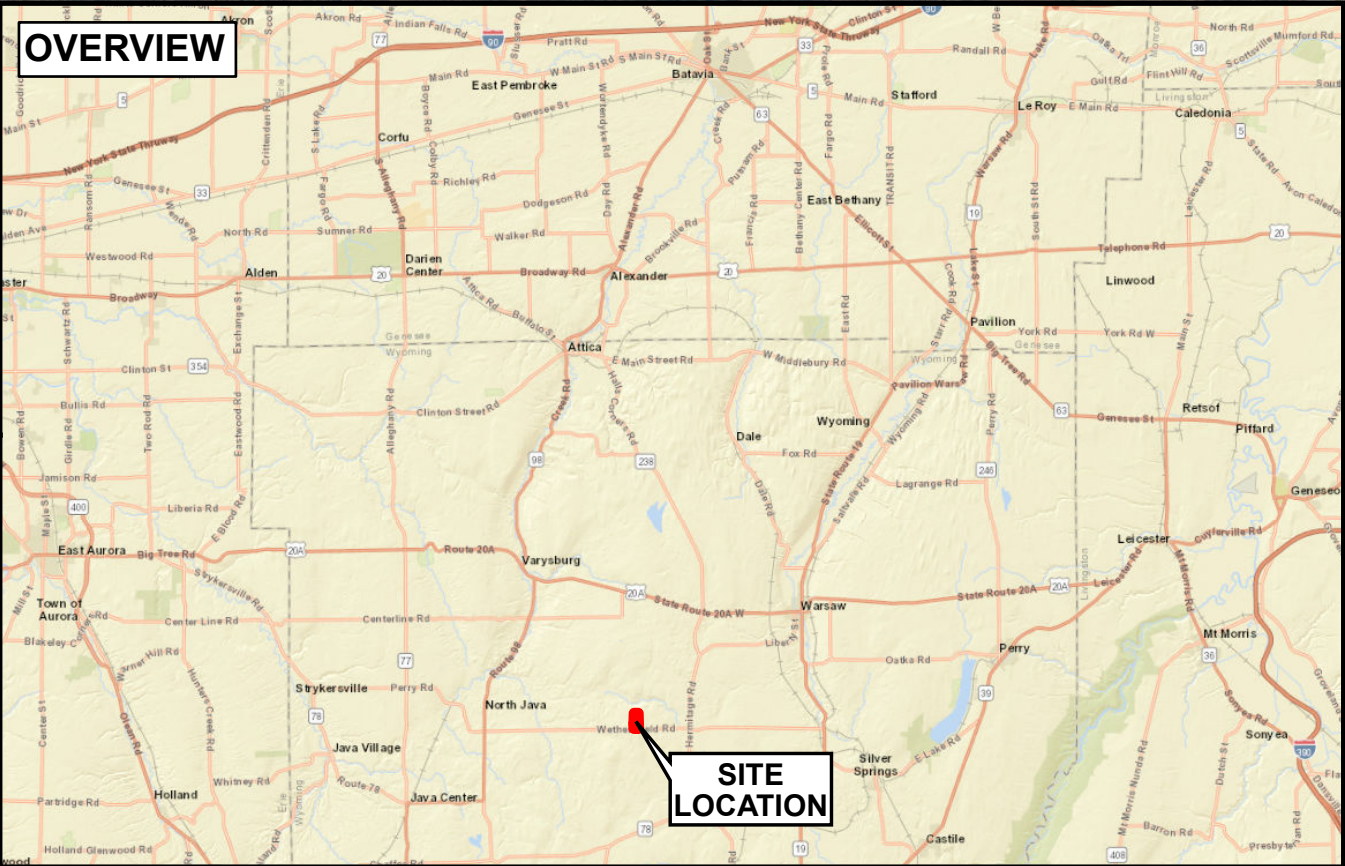
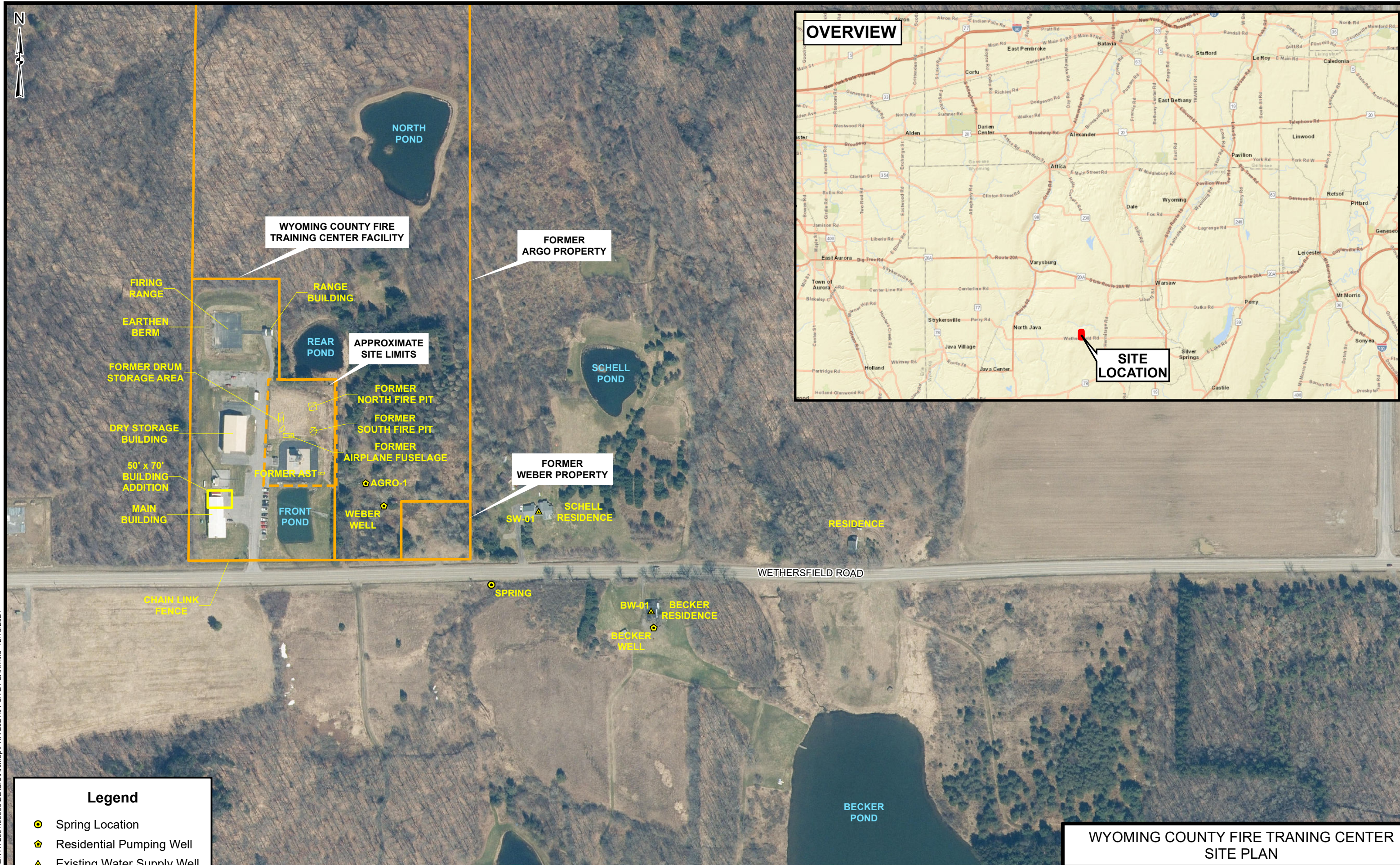
(1) - Well MW-09 status to be confirmed.

(2)- Well status is unknown and will be investigated to confirm status. Will be decommissioned if located and status determined.

## FIGURES



L:\DCS\Projects\1172991\_00000\B\GIS\ArcMap\PRR 2024\01 SITE PLAN.mxd 12/16/2024



WYOMING COUNTY FIRE TRAINING CENTER FACILITY

FORMER ARGO PROPERTY

FORMER WEBER PROPERTY

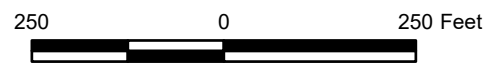
APPROXIMATE SITE LIMITS

SITE LOCATION

**Legend**

- Spring Location
- Residential Pumping Well
- Existing Water Supply Well
- Property Line

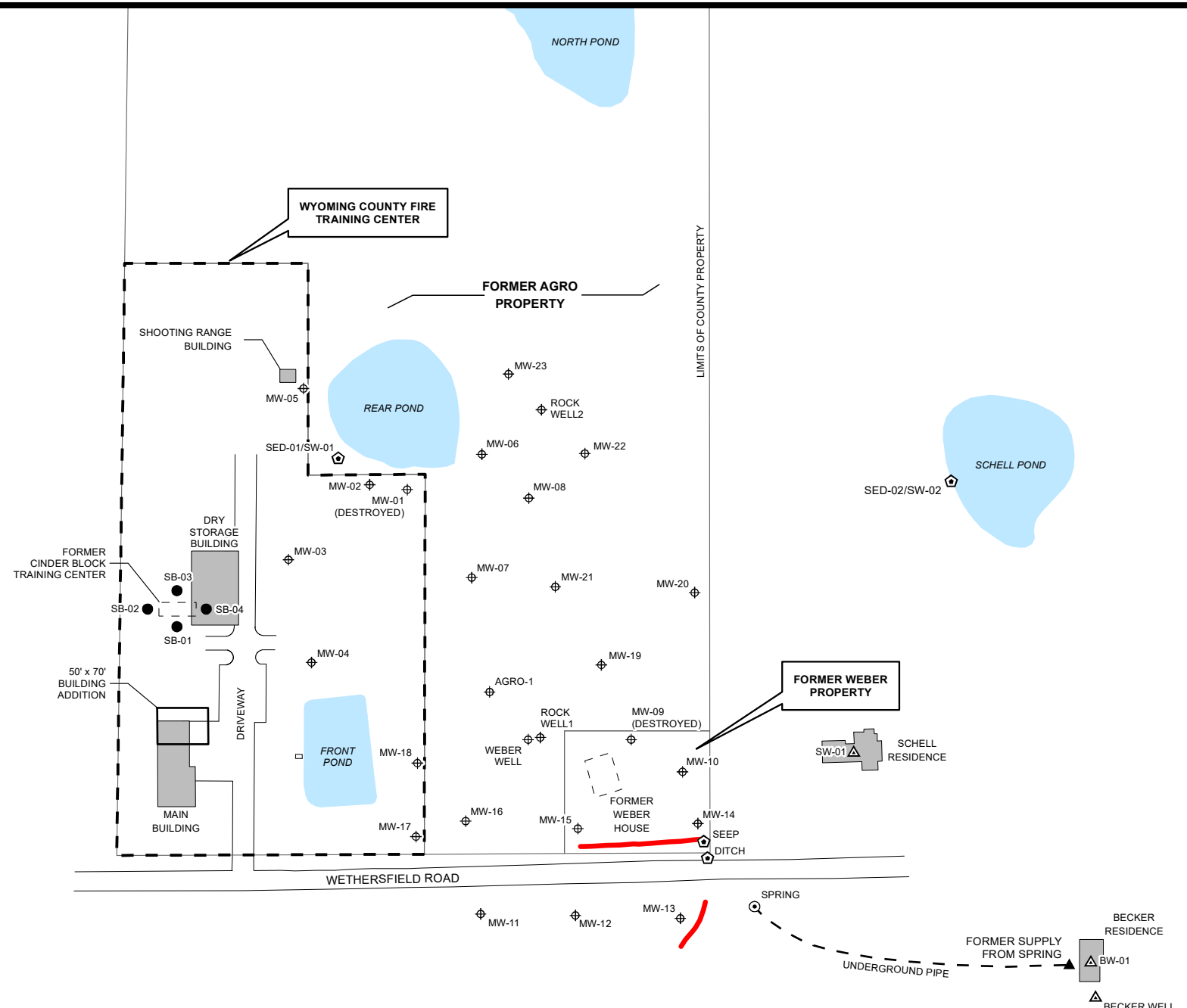
Note: SW-01 and BW-01 sampling locations vary slightly by event. The samples have been taken from a spigot outside, from the kitchen faucet, or from the basement spigot.  
Source: NYS ITS GIS Program Office, 2023



WYOMING COUNTY FIRE TRAINING CENTER  
SITE PLAN



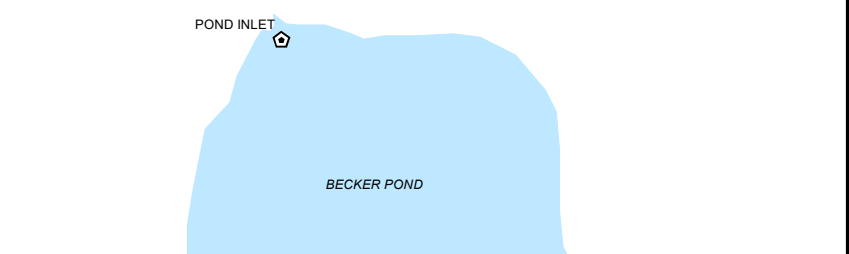
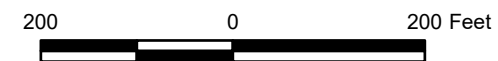
FIGURE 1



**Legend**

- ⊕ Existing Monitoring Well
- ⊕ Surface Water / Sediment Sample Location
- ⊙ Spring Location
- ▲ Existing Water Supply Well
- ▲ Former Supply From Spring (Abandoned)
- Soil Boring Location
- Permeable Reactive Wall Location

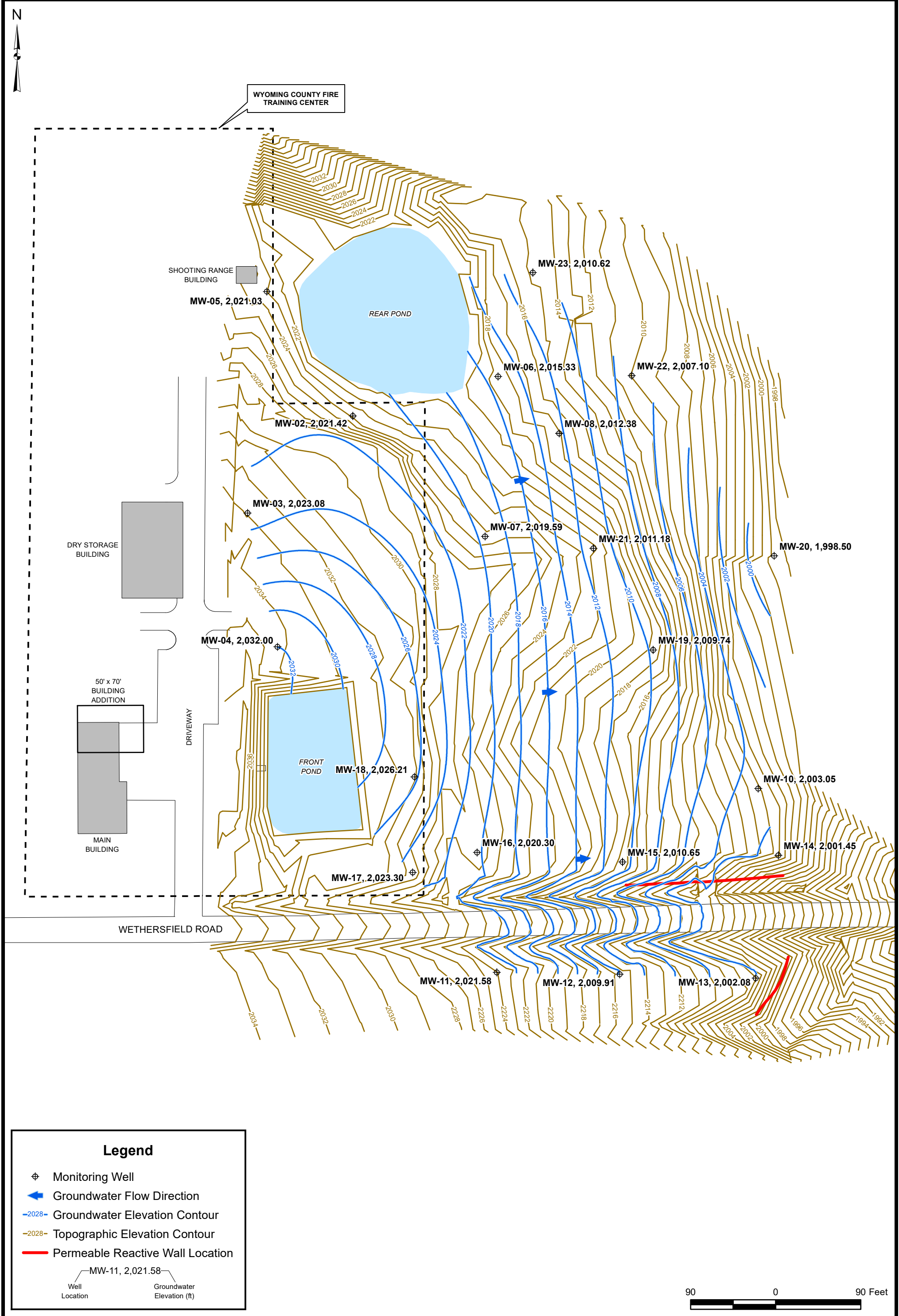
Note: SW-01 and BW-01 sampling locations vary slightly by event. The samples have been taken from a spigot outside, from the kitchen faucet, or from the basement spigot.



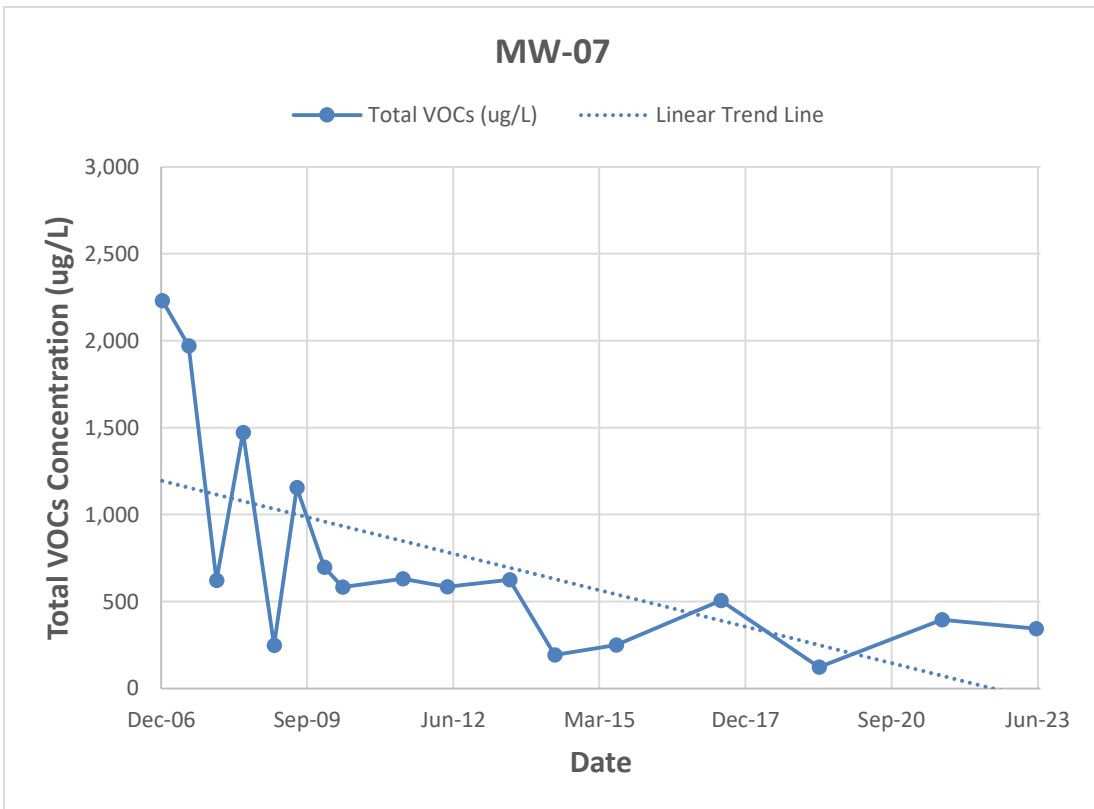
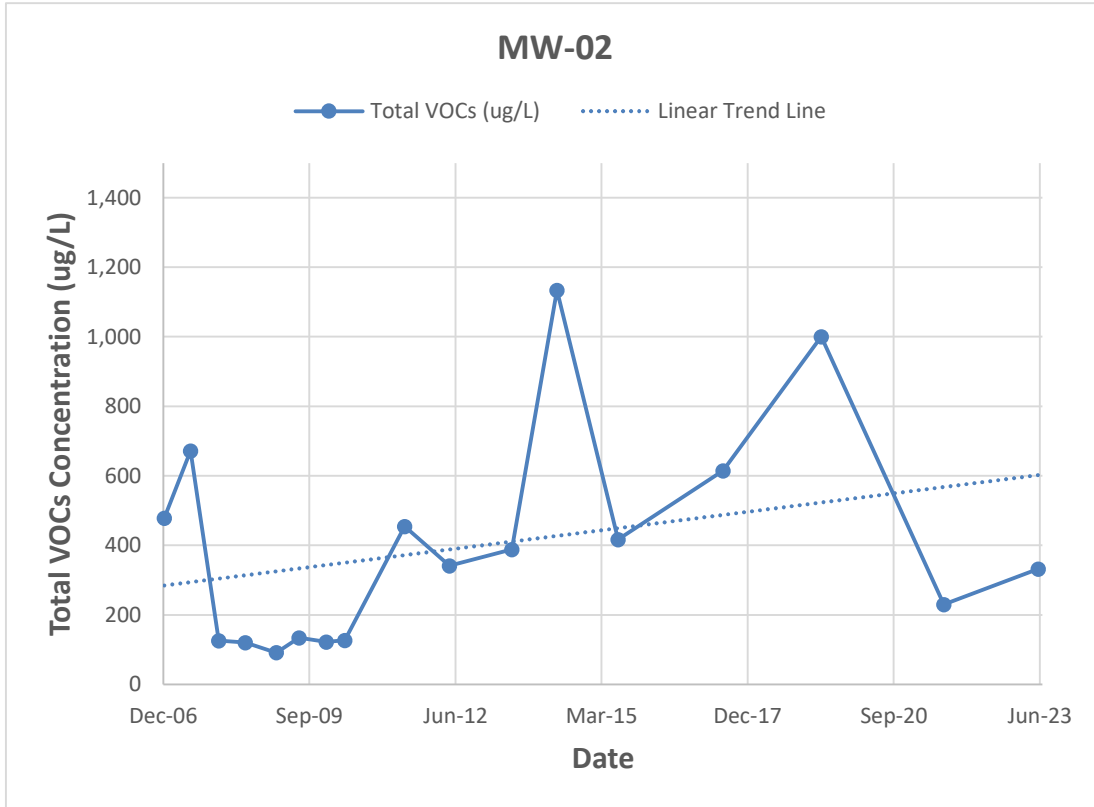
WYOMING COUNTY FIRE TRAINING CENTER  
MONITORING WELL, SURFACE WATER, SEDIMENT  
AND GROUNDWATER SUPPLY LOCATION PLAN



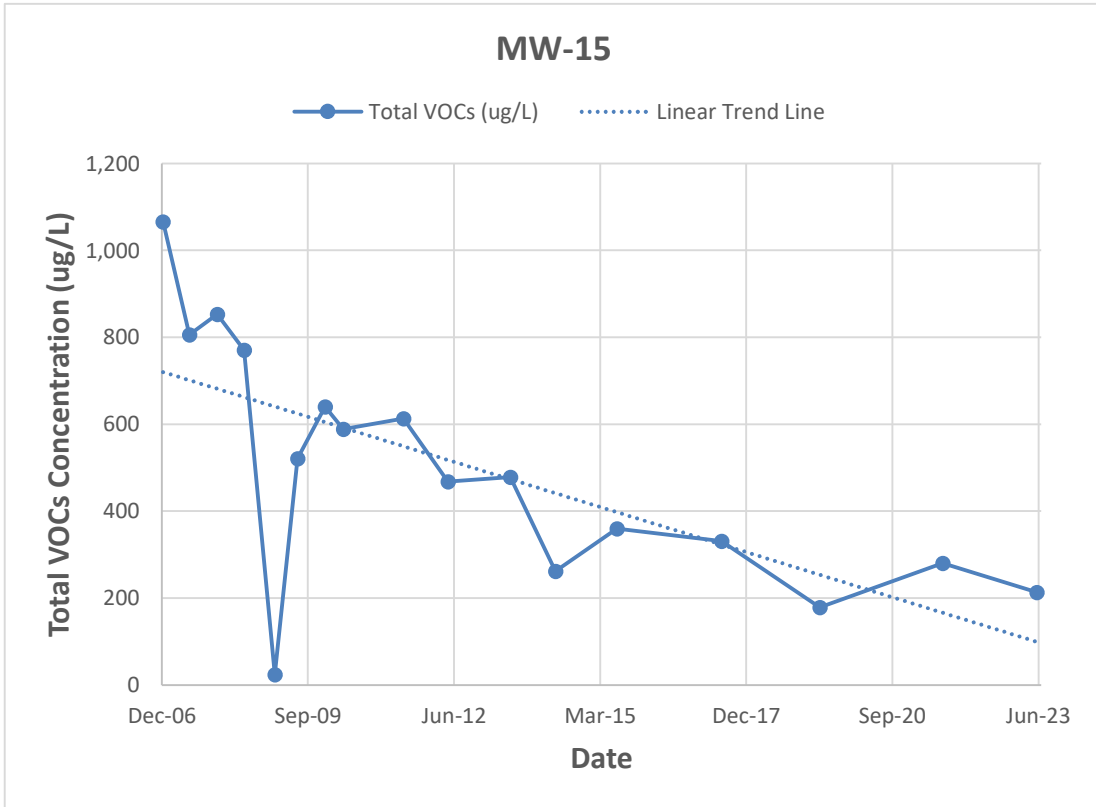
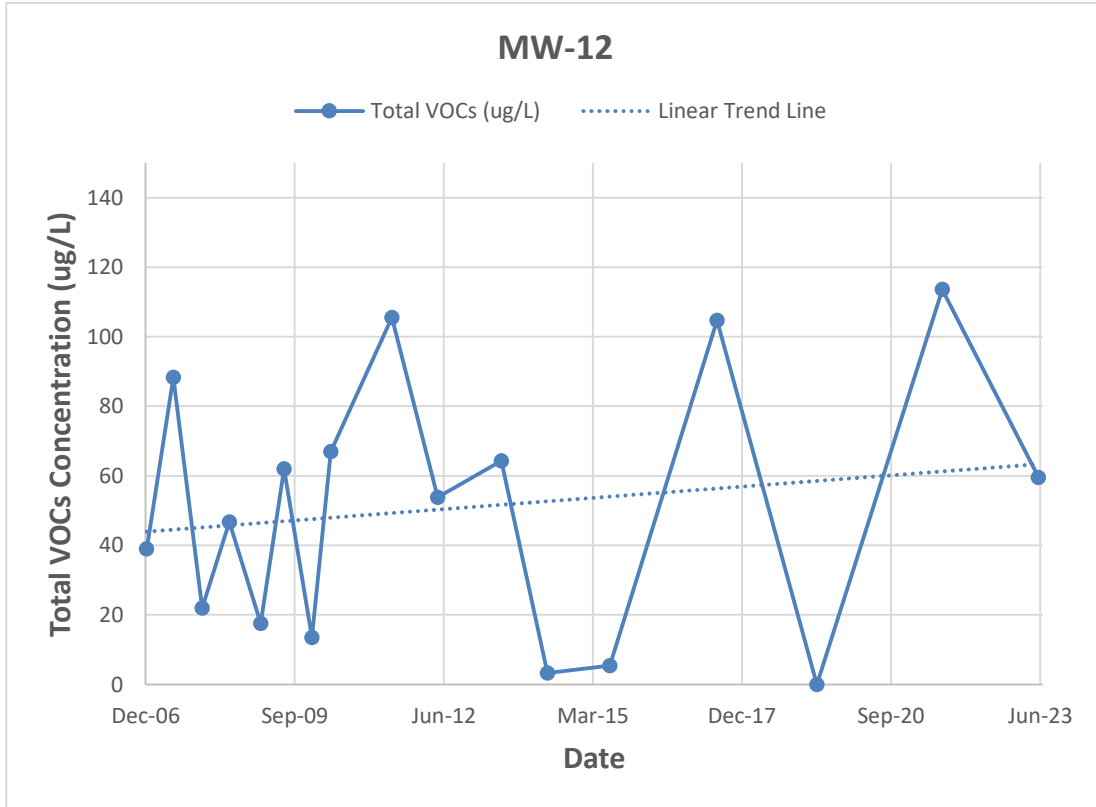




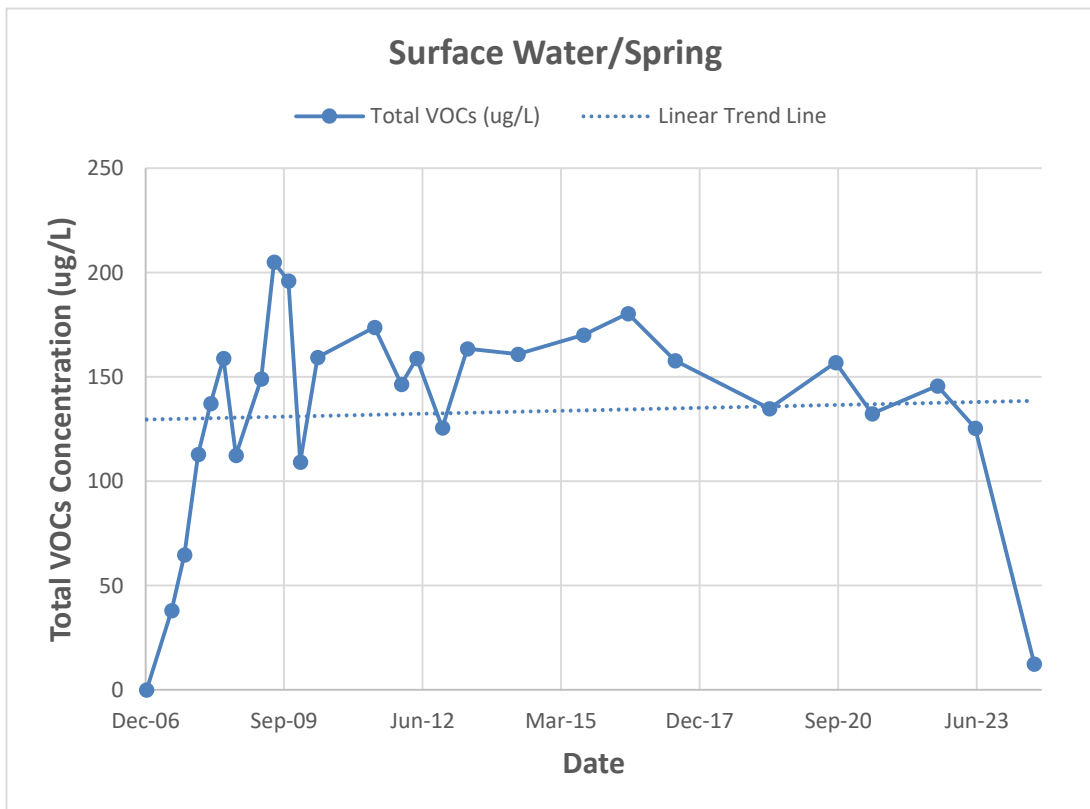
**Figure 4**  
**Total VOCs in Groundwater vs. Time**  
**Wyoming County Fire Training Center**  
**January 2007 - July 2024**



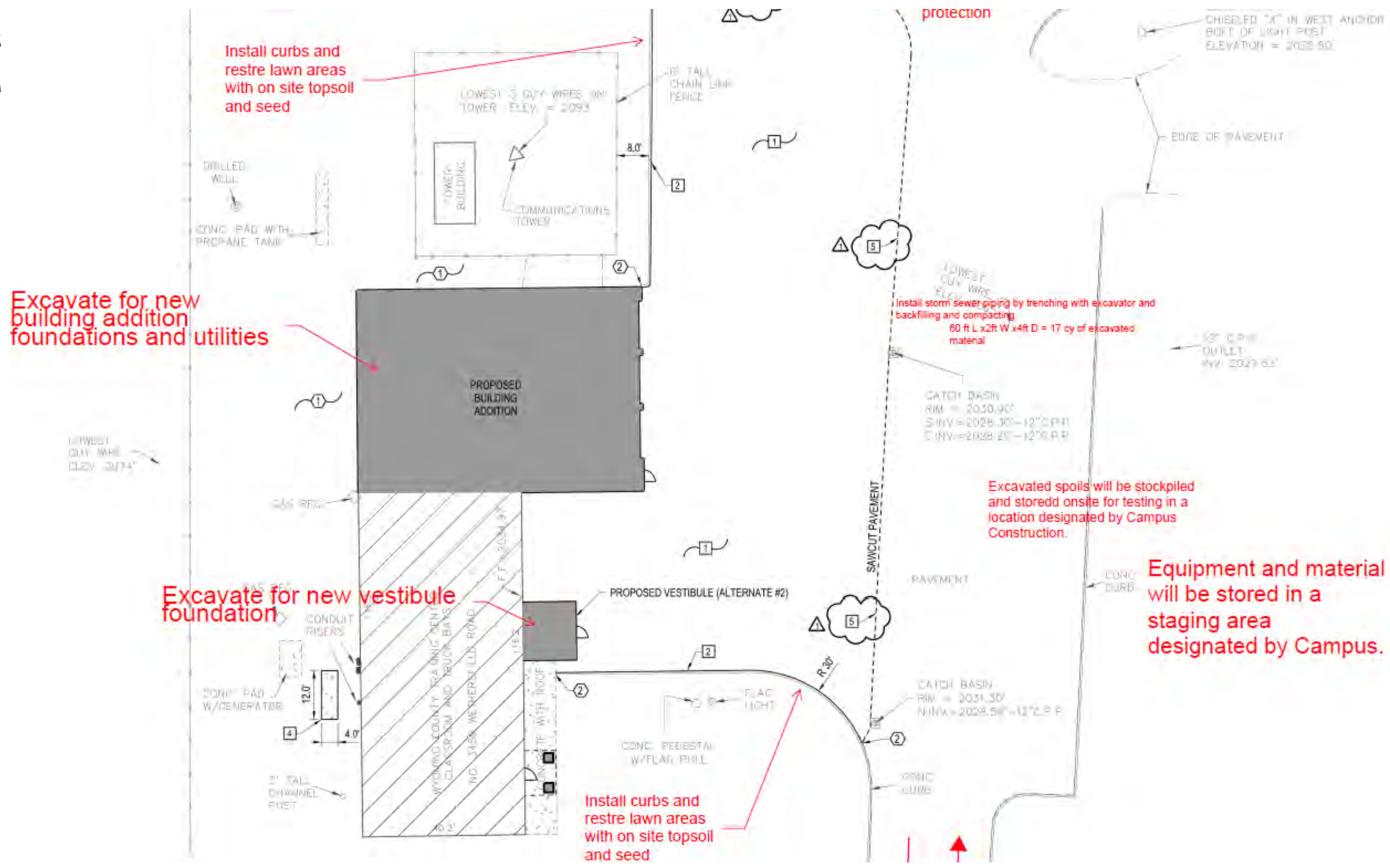
**Figure 4**  
**Total VOCs in Groundwater vs. Time**  
**Wyoming County Fire Training Center**  
**January 2007 - July 2024**



**Figure 4**  
**Total VOCs in Groundwater vs. Time**  
**Wyoming County Fire Training Center**  
**January 2007 - July 2024**



**APPENDIX A**  
**EWP Supporting Documentation**



Install curbs and restre lawn areas with on site topsoil and seed

Excavate for new building addition foundations and utilities

Excavate for new vestibule foundation

Install curbs and restre lawn areas with on site topsoil and seed

Install storm sewer piping by trenching with excavator and backfilling and compacting 60 ft L x 2ft W x 4ft D = 17 cy of excavated material

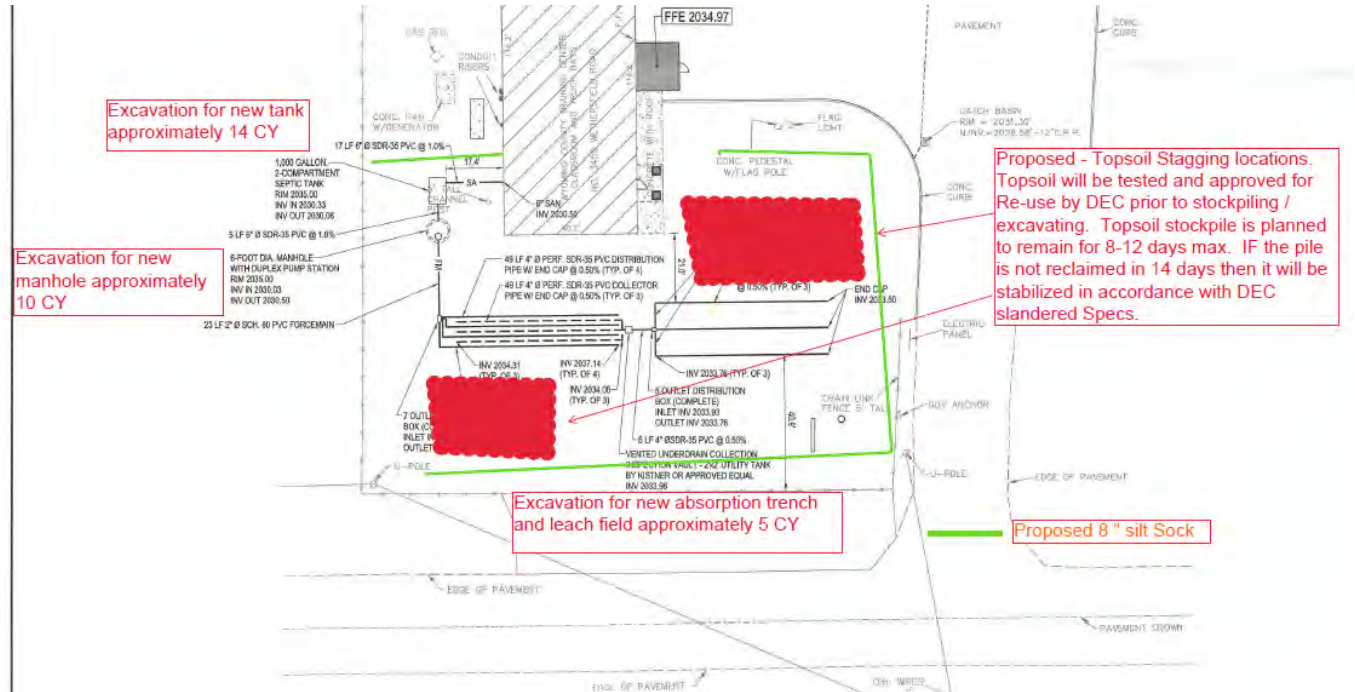
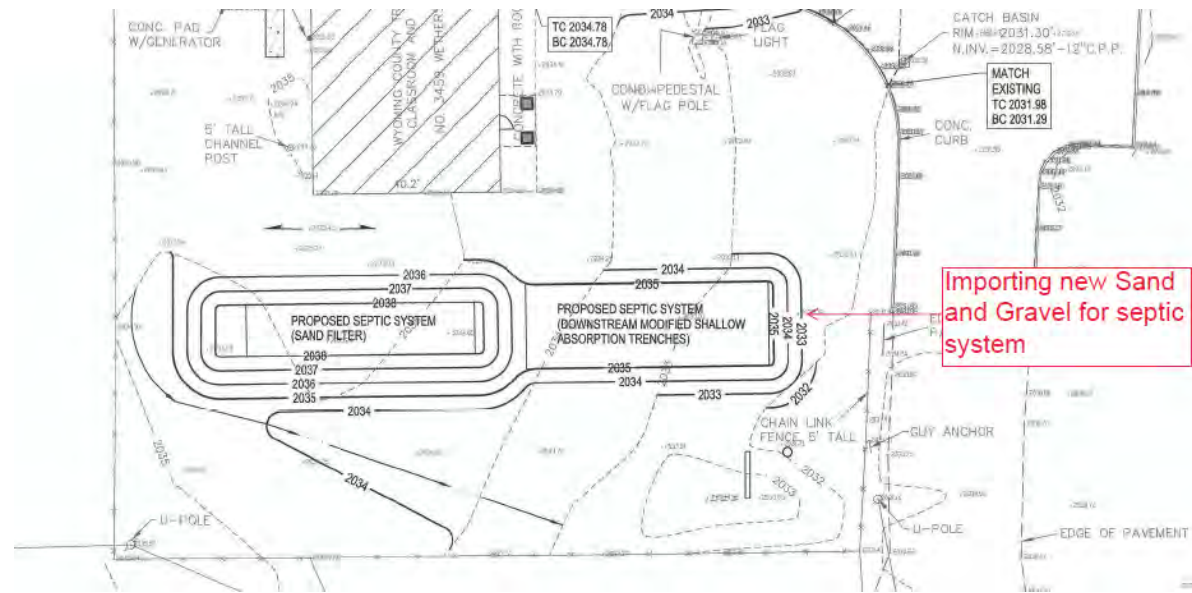
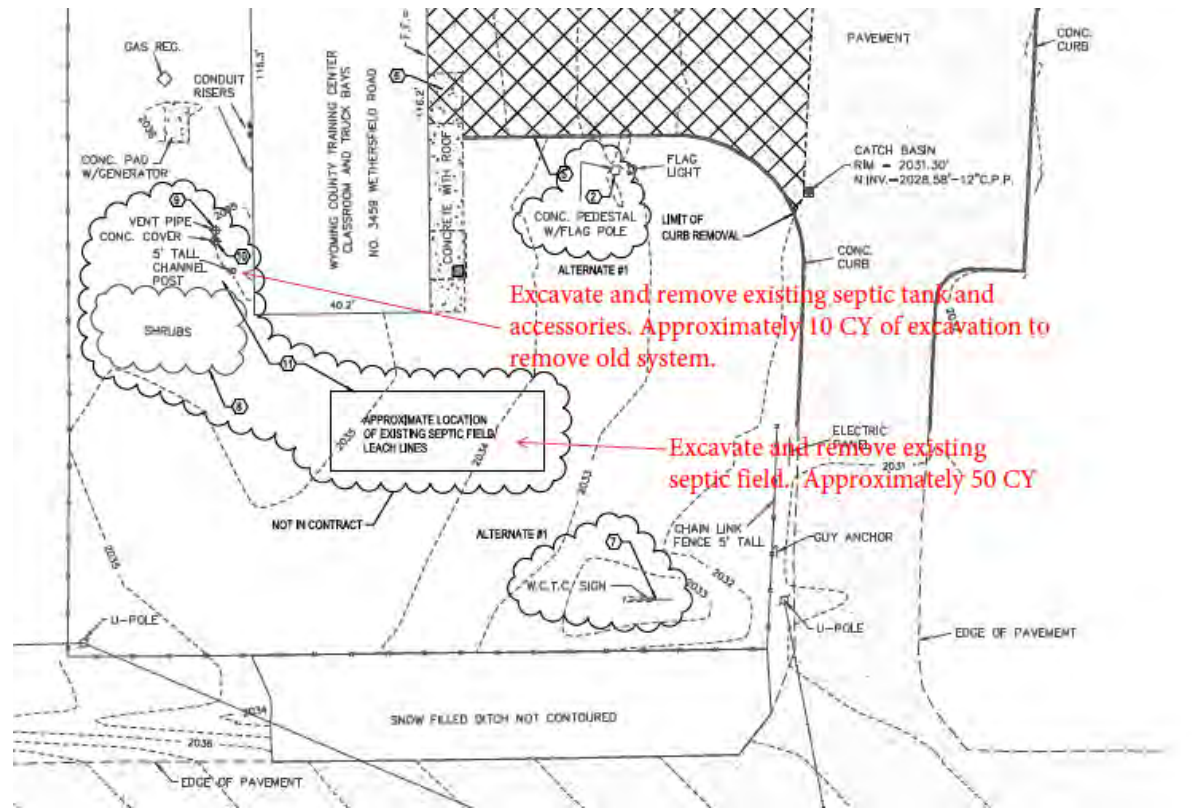
Excavated spoils will be stockpiled and stored onsite for testing in a location designated by Campus Construction.

Equipment and material will be stored in a staging area designated by Campus.

WYOMING COUNTY FIRE TRAINING CENTER  
Excavation Work Plan Figure



FIGURE 1



# Table of Contents:

## Excavation Work Plan

- 1.1 Notification
- 1.2 Summary of Work
- 1.3 Summary of Environmental Conditions
- 1.4 Schedule
- 1.5 Major Components
  - Backfill Materials
  - Soil Screening Methods
  - Stockpile Methods
  - Materials Excavation and Load Out
  - Materials Transport Off-Site
  - Materials Disposal Off-Site
  - Dewatering Management
  - Monitoring & Reporting
  - Statement of Compliance

### Figures:

- 1 Historical Water Levels
- 2 Summary of Work
- 3 Project Schedule
- 4 Heavy Equipment Checklist

### LIST OF APPENDICES

- A. NW Contracting Health & Safety Plan/Site Specific Safety Plan
- B. Qualified Environmental Professional Resumes



## 1.1 Notification

At least 15 days prior to the start of any activity that is reasonably anticipated to encounter remaining contamination, the site owner or NW Contracting will notify the Department. Currently, this notification will be made to

NYSDEC

Region 9

700 Delaware Avenue

Buffalo, New York 14209

Megan.Kuczka@dec.ny.gov

and

Colin Wasteneys, PG

Colin.wasteneys@aecom.com

Building foundation demo is currently scheduled to start on 8/12/24. See attached schedule for more information.

## **1.2 Summary of Work**

Wyoming County is looking to expand their existing fire training center. The project involves demolition of the existing fireman training center truck bays to make room for the new building addition. Attached is an areal map that details the work to be performed. After demolition of the existing building, excavation for the new building will commence. This intrusive work will require excavation with special controls (see Attachment 1). The County of Wyoming Fire Training Center Restoration Project is taking place within the boundaries of a NYS Inactive Hazardous Waste Site (Site Code #V-006049; "Site"). The Site is classified as "C" ("Closed"); fully remediated under the NYS Voluntary Cleanup Program. As such, none of the planned work will impact engineering controls. See Figure 2

## **1.3 Summary of Environmental Conditions**

Currently, based on historical analytical data and site history, the area within the site boundary for the restoration and expansion of the Fire Training Center is not in an area of known contamination. However, the site remains subject to a Site Management Plan ("SMP") dated June 2011, and amended April 2022.

All work performed will follow this site-specific Excavation Work Plan (EWP). Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Site Specific Safety Plan (SSSP) and Community Air Monitoring Plan (CAMP) prepared for the site. A SSSP is attached as Appendix A to this EWP that is in current compliance with DER-10, and 29 CFR

1910, 29 CFR 1926, and all other applicable Federal, State and local regulations. Any intrusive construction work will be performed in compliance with the EWP, SSSP and CAMP.

As soon as any contamination is indicated by visual, olfactory, or instrument-based soil screening, all work will immediately stop and the appropriate parties (i.e., the owner/Construction Manager, AECOM, NYSDEC) will be notified. Although, there is no known contamination in the proposed work area based on historical data, the potential contaminants based on site history include:

1,1,1-Trichloroethane	Benzene
1,1-Dichloroethane	Toluene
1,2-Dichloroethene (cis)	Ethylbenzene
Tetrachloroethene	Xylene
Trichloroethene	PFAS compounds including PFOA and PFOS
Vinyl chloride	

Once excavations are complete to the extents required by the contract, NW Contracting's QEP will determine the excavations are free of contaminants. Only when the QEP makes that determination will other trades (i.e., general trades, mechanical, electrical, plumbing) be allowed to perform work in the excavated areas.

#### **1.4 Schedule**

A detailed schedule of the work milestones and phases can be obtained from Campus Construction. A preliminary schedule is attached. In general, work will begin for this project on August 12, 2024. See Figure 3

#### **1.5 Major Components**

As described in the environmental conditions, based on historical analytical data and site history, the area within the site boundary for the restoration and expansion of the Fire Training Center is **not** in an area of known contamination. Contamination is not anticipated in the proposed work areas. If concentration levels of contaminants of concern, potential presence of grossly contaminated media, or odors are discovered when excavating, the DEC and supporting parties will be notified immediately.

#### **Disposal**

The ultimate disposal location will be determined following evaluation of analytical results. Asphalt millings will be live loaded and transported off site for re-use. A local farmer and homeowner have both expressed interest in the material to construct light-duty pavement roadways, locations will be documented. Excess / contaminated soil will go to a DEC approved part 364 solid waste landfill, some are Waste Management Chaffee, Mill Seat, and or High Acres.

### Backfill Materials

Existing native topsoil will be stripped and stockpiled appropriately per EWP. Stockpiled topsoil will be tested per DER-10 and PFAS guidance. DEC will review topsoil results and approve / disapprove. If native topsoil cannot be re-used an alternative source will be submitted to DEC for approval. All other backfill materials will be stone, supplied by The Dolomite Group. A submittal and Virgin material certificate has been provided to Campus Construction for approval. Attached is the DEC import use form for these materials.

No material will be imported unless proper testing has been completed, and approved by DEC.

### Soil Screening Methods

Visual, olfactory and instrument-based soil screening will be performed at ALL times by NWC during excavating. NW Contracting's QEP will use a Mini Rae 3000 PID and a RAE 11.7 eV PID Lamp, to screen soils during excavation. Soil screening will be performed at all times during excavation to check for contamination, such as excavations for foundations and utility work. If the PID detects any contamination above 1 PPM, that soil will be segregated and covered. The materials that require off-site disposal, material that require testing, and material that can be re-used will be stockpiled and segregated accordingly. NWC will work with the facility and construction manager to find the appropriate stockpile locations on-site.

### Stockpile Methods

Excavated soils will be segregated based on previous environmental data and PID screening results. All excavated soil will be segregated and stockpiled on site until testing results show the soil is clean. Soil stockpiles will be continuously encircled with silt fence. Inlet protection devices will be used as needed near catch basins, surface waters and other discharge points. Stockpiles will always be covered with 6 mil Poly unless testing results show the pile is clean. Stockpiles will be routinely inspected and damaged plastic will be promptly replaced. Stockpiles will be inspected at a minimum once each week and after every storm event. Rochester Earth or the QEP will make sure these stockpiles always comply with the site SWPPP requirements. All stockpiled soils will be tested in accordance with NYS DEC DER-10 / PFAS testing requirements.

### Materials Excavation and Load Out

NWC's QEP will be on site and oversee all intrusive excavation work and the excavation and load-out of all contaminated excavated materials. The owner of the property and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan. The presence of utilities and easements on the site will be marked by a third-party private locator hired by Rochester Earth. Rochester Earth will also call 811 DIG Safe and clear the excavation work area. Brice Reed Or Dale Gramza, (from NW Contracting) will be the QEP / competent person(s) on site. They will oversee the excavation and classify soil types. No excavation will be greater than 4' deep. A truck wash will need to be operated on-site if truck wheels are in contact with contaminated materials. If applicable, the QEP will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving

the site until the activities performed under this section are complete. Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking. The owner of the property and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan. The QEP or Rochester Earth's site foreman will be responsible for ensuring an implementing dust suppression of the site. Water trucks or water hoses will be used to mitigate the dust as needed.

#### Materials Transport Off-Site

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded. Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used. Trucks will be prohibited from stopping and idling in the neighborhood outside the project site. Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development. Queuing of trucks will be performed on-site to minimize off-site disturbance. Off-site queuing will be prohibited.

#### Materials Disposal Off-Site

The ultimate disposal location will be determined following evaluation of analytical results. Asphalt millings will be live loaded and transported off site for re-use. A local farmer and homeowner have both expressed interest in the material to construct light-duty pavement roadways, locations and addresses will be documented. Excess / contaminated soil will go to a DEC approved part 364 solid waste landfill, some are Waste Management Chaffee, Mill Seat, and or High Acres. Any existing subbase material that gets excavated will not be re-used as fill. Once excavated, the subbase will be stockpiled with the rest of the excavated soils for disposal off site.

Once the excavated / stockpiled surplus material testing results come back, off-site disposal locations for excavated soils will be identified. The off-site disposal locations for the class of materials will be emailed to NYS DEC and Campus Construction for approval. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities, trucking logs, receipts, and associated documentations will be provided to the NYSDEC and Campus Construction for contract close-out. Documentation will include waste profiles, test results, facility acceptance letters, manifests, bills of lading and disposal facility receipts.

### Dewatering Management

At this time (summer 2024), it is not anticipated that we will encounter ground water at the site while excavating. The maximum excavation depth for the new building foundation is 4' deep. Site history from the SMP indicates that we are working above the water tables as shown below. History also indicates the work area *should* be clean / uncontaminated soil. Should groundwater, rainwater or runoff water accumulate in the excavation, it will be pumped out using a 2" electric pump and stored in a frac tank on-site. The water will be tested per DER-10 guidance. If the water meets DEC guidance it will be discharged on-site...pending DEC approval. If the water is contaminated, will use a vacuum tanker and transport the water to an approved treatment facility in accordance with applicable local, State, and Federal regulations.

In accordance with the SMP, use of well water for drinking water purposes is prohibited at the WCFTC

See figure 1.

### Monitoring & Reporting

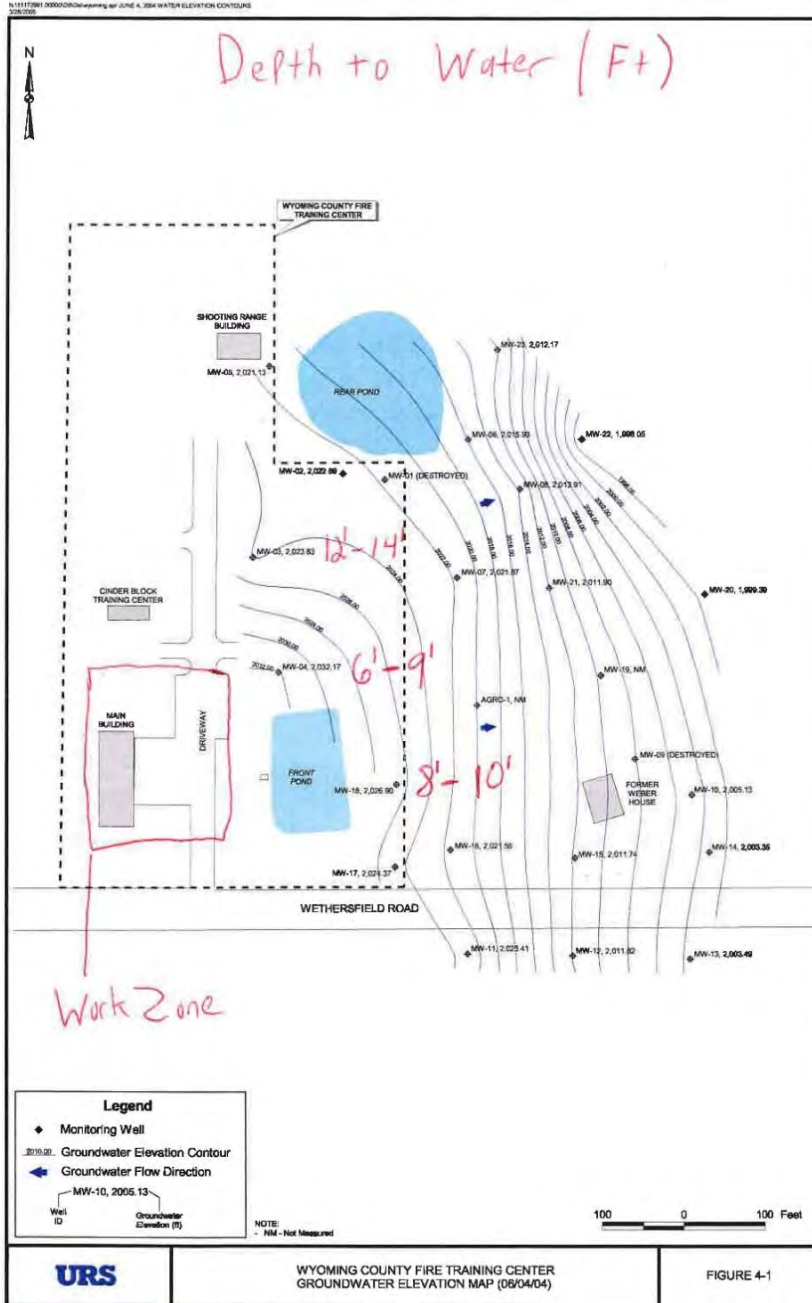
Forms and any other information generated during construction will be turned over to Campus Construction for their records. All forms and other relevant reporting formats used during the monitoring/inspection events will include:

- Sampling & analytical for groundwater & soil
- Air monitoring logs
- Chain of custody & manifests
- Heavy equipment checklists
- Daily observation reports

### Statement of Compliance

NW Contracting will perform all activities in compliance with this EWP and 29 CFR 1910.120, as applicable.

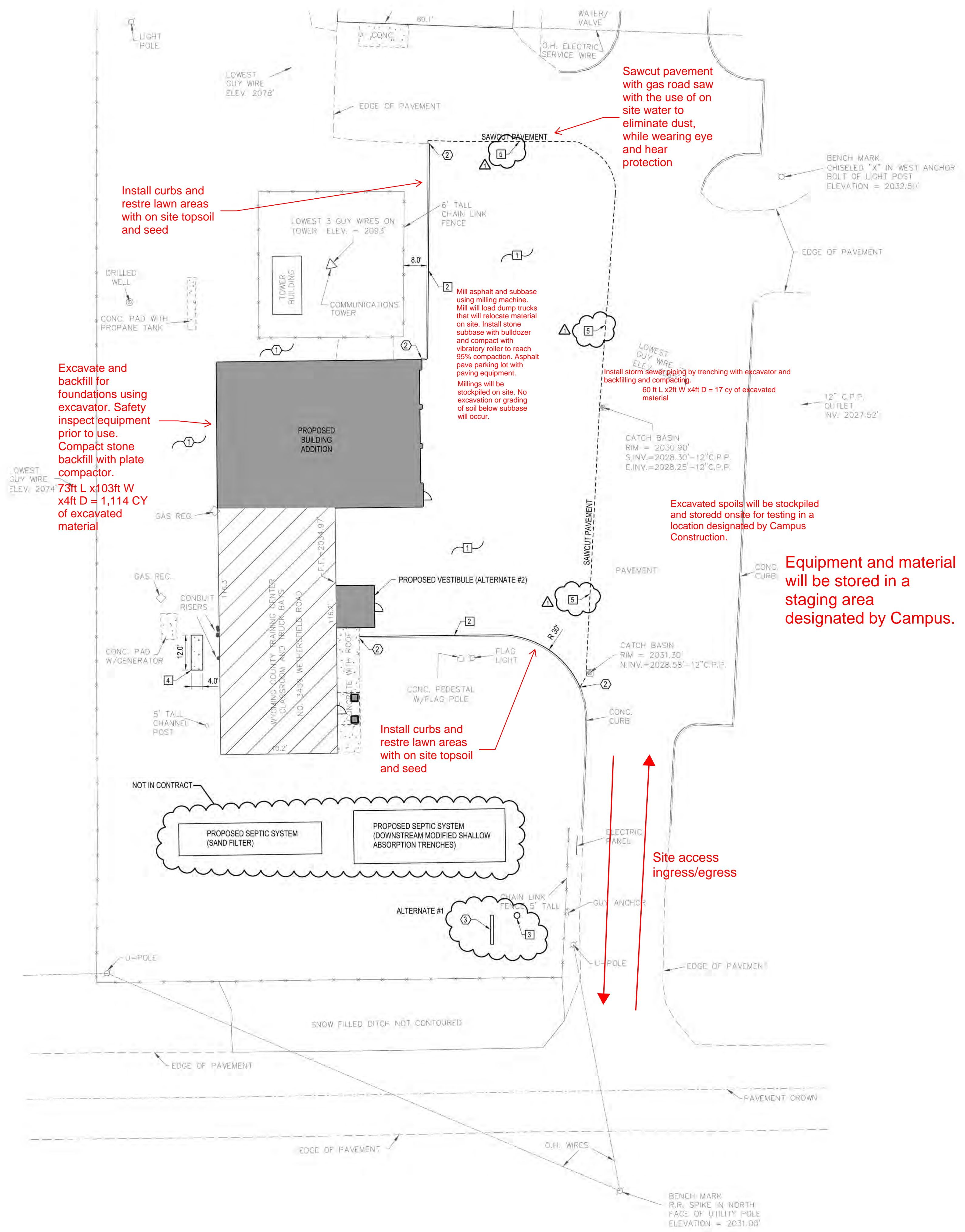
Figure 1





**WYOMING COUNTY  
 FIRE TRAINING  
 CENTER**  
 3459 Wethersfield Road,  
 Gainesville, New York

**CONSTRUCTION DOCUMENTS**  
**SITE PLAN**



**SITE PLAN NOTES**

1. SURVEY INFORMATION WAS PROVIDED BY JOHN F. GILLEN, LAND SURVEYOR DATED 3/24/2023. C&S ENGINEERS, INC. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.
2. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS AND UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION. CONTACT THE ENGINEER WITH ANY DISCREPANCIES FOUND IN THE FIELD.
3. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND LAYOUT.

**SITE PLAN DETAIL LEGEND**

- 1 ASPHALT PAVEMENT SECTION - SEE DETAIL SHEET C501
- 2 CONCRETE CURB - SEE DETAIL SHEET C501
- 3 FLAGPOLE (ALTERNATE #1) - SEE DETAIL SHEET C501
- 4 EXTENSION CONCRETE CURB ON GRADE - SEE DETAIL SHEET C501
- 5 ASPHALT PAVEMENT SPLICE

**SITE PLAN SHEET KEYNOTES**

- 1 4" TOPSOIL & SEED
- 2 MATCH EXISTING CURB OR RUN OUT IN 2'-0"
- 3 PROPOSED SIGN (ALTERNATE #1) - REFER TO ARCHITECTURAL DRAWINGS.

**SITE PLAN PROPOSED LEGEND**

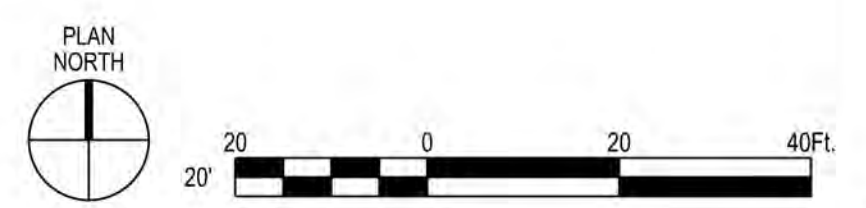
- PROPOSED CURB
- ⌋ DOOR LOCATION
- E.P. EDGE OF PAVEMENT
- LIGHTING FIXTURES
- - - SAW CUT LINE

**WARNING:**  
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No.	DATE	DESCRIPTION
1	3-27-2024	REVISION 1

REVISIONS:

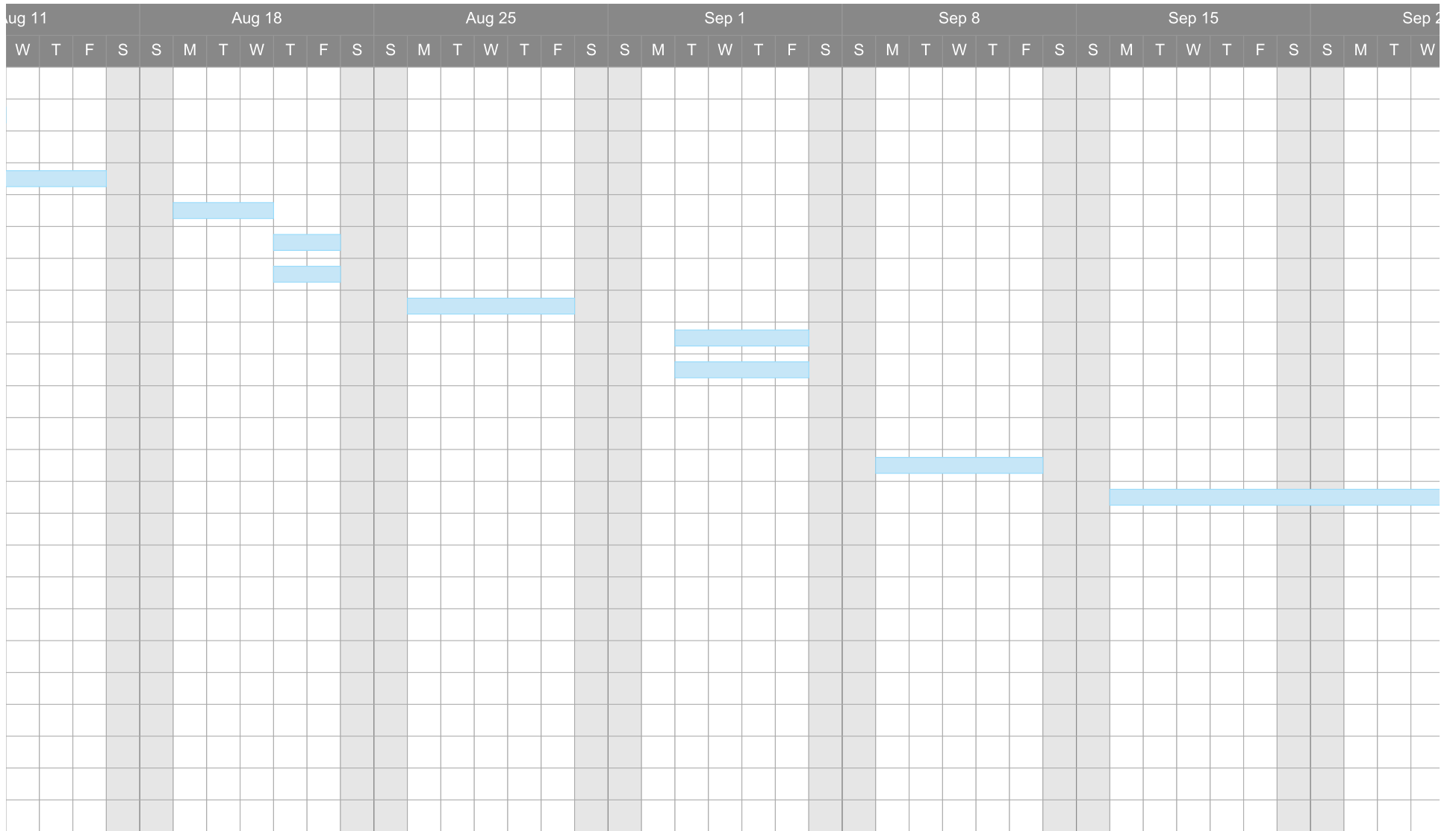
CHECKED BY: JPU	DRAWN BY: JPU
2023056.00 KA PROJECT NO.	12/18/2023 DATE





# WCFTF Roc Earth Schedule

Task Name	Jul 28							Aug 4							A			
	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	
1 Call in 811 Dig Safe		█																
2 Mobilization + Survey																	█	
3 Excavation for Mechanical and Electrical																		
4 Excavation and Backfill for Foundation																	█	
5 Demo Old Footers + Pads																		
6 Storm Pipe, Down Spout Tie-in																		
7 Prep Building Pad																		
8 Demo, Raise Grade, and Prep Parking Lot																		
9 Install Concrete Sidewalk + Curb																		
10 Pave Asphalt																		
11 Alternate #1 Flagpole																		
12 Alternate #2 Main Entrance Vestibule																		
13 Site Clean, Demobilize & Punch List																		
14 Project Closeout																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		





# VEHICLE/HEAVY EQUIPMENT PRE-USE INSPECTION CHECKLIST

GENERAL EQUIPMENT INFORMATION	
1. INCIDENT NAME/NO.	2. RESOURCE ORDER NO.
3. CONTRACTOR NAME	
4. AGREEMENT NO.	5. EXPIRATION DATE
6. MAKE/MODEL	7. EQUIPMENT TYPE
8. VIN/SERIAL NO.	9. LICENSE NO./STATE

Section I—HEAVY EQUIPMENT	Acceptable	
	YES	NO
1. ROPS, roll-over protection system: Manufacturer-approved system secured to mainframe of tractor. Must include approved seat belts. *		
2. Gauges and lights: mounted and function properly. *		
3. Battery: check for corrosion, loose terminals, and hold downs.		
4. Engine running: check oil pressure, knocks and leaks.		
5. Sweeps, deflectors, safety screens <del>to be checked</del> *		
6. Steering components: tight, free of play. *		
7. Brakes: damaged, worn or out of adjustment. *		
8. Exhaust system: equipped with a USFS-qualified spark arrester unless turbocharged. *		
9. Fuel system: free of leaks and damage. *		
10. Cooling system: full, free of leaks and damage. *		
11. Fan and fan belts: check for proper tension. No fraying/cracks.		
12. Engine support, equalizer bar, springs, main springs: check shackle bolts, shifted spring leaf. *		
13. Belly plate, radiator guards: securely mounted and free from debris. *		
14. Final drive, transmission and differential: check for dripping.		
15. Sprocket and idlers: crack in spokes, sharp sprocket teeth, no welds.		
16. Tracks and rollers: no broken pads, loose rollers, broken flanges. <del>to be checked</del> *		
17. Dozer and assembly: trunnion bolts missing, cracks. *		
18. Rear hitch (drawbar): serviceable, safe.		
19. Body and cab condition: describe dents and damage.		
20. Equipment cleanliness: all areas free of flammable materials, noxious weeds, and invasive species.		
21. All hydraulic attachments: operate smoothly and all cylinders hold at extension; hose, lines, and pumps have no excessive wear and/or leaks.		
22. Backup or travel alarm (minimum 87 db). *		
23. Oil level and condition: full and clean.		

Section II—ATTACHMENTS/PUMP/CHAINSAW/OR OTHER (Specify)	Acceptable	
	YES	NO
1. No missing/broken components, no loose hardware.		
2. Sufficient fluid levels (oil, coolant, etc.)		
3. Cutting bar: straight, chain in good condition.		
4. Cutting teeth: sharp, good repair.		
5. Pump: builds pressure, no water or oil leaks.		
6. Engine starts, idles, and shuts off with switch.		

Section V—REMARKS
(Describe all unsatisfactory items and identify by line number)

10. PRE-USE INSPECTION		
<input type="checkbox"/> Accepted <input type="checkbox"/> Rejected		
MILES/HRS _____	DATE _____	TIME _____
Inspector's printed name _____		Title _____
Inspector's signature _____		

Section III—LIABILITY
The purpose of this checklist is to document pre-existing vehicle/equipment condition and to determine suitability for incident use. I hereby acknowledge full responsibility and liability for the operation and mechanical condition of the vehicle/equipment described herein.
Operator's printed name _____ Title _____
Operator's signature _____ Date _____

Section IV—TRANSPORT OR SUPPORT VEHICLES	Acceptable	
	YES	NO
1. "DOT" or CVSA inspection in the last 12 months (if required). *		
2. Gauges and lights: mounted and function properly. *		
3. Seat belts: operate properly for each seating position. *		
4. Glass and mirrors, no cracks in vision. *		
5. Wipers, washers, and horn operate properly. *		
6. Clutch pedal: proper adjustment (if applicable).		
7. Cooling system: full, free of leaks and damage.		
8. Fluid levels (e.g. oil) and condition: full and clean.		
9. Battery: check for corrosion, loose terminals and hold downs.		
10. Fuel system: free of leaks and damage. *		
11. Electrical system: alternator and starter work.		
12. Engine running: check oil pressure, knocks, and leaks.		
13. Transmission: check for leaks.		
14. Steering components: tight, free of play. *		
15. Brakes: damaged, worn or out of adjustment. *		
16. 4-Wheel drive: check transfer case, leaks (if applicable).		
17. Drive line U-joints: check for looseness.		
18. Suspension systems: springs, shocks, other. *		
19. Differential(s): check for leaks.		
20. Exhaust system: no leaks under cab or before turbo. *		
21. Frame condition, body/bed properly attached. *		
22. Tires/wheels (including spare and all changing equipment) sufficient load rating, tread depth, no major damage. *		
23. Body and interior condition: describe and locate damage on back of page 3, Section IV, item 23.		
24. Emergency equipment required. *		
Fire extinguisher _____ Spare fuses _____ Reflectors _____		
25. Operator(s) properly licensed. † Expiration Date _____		
State _____ License No _____ Class _____		
Endorsement _____ Med. Cert. Expiration Date _____		

11. RELEASE	<input type="checkbox"/> No Damage/No Claim	
MILES/HRS _____	DATE _____	TIME _____
Operator's printed name _____		Title _____
Operator's signature _____		Date _____
Inspector's printed name _____		Title _____

Contractor \_\_\_\_\_ Resource Order No. \_\_\_\_\_

## Section IV - Transport and Support Vehicles

Motor vehicle parts and accessories must be in Safe Operating Condition At All Times, FEDERAL MOTOR CARRIER SAFETY ADMINISTRATION (FMCSA) as prescribed by U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION PARTS 393 & 396, and NORTH AMERICAN UNIFORM OUT-OF-SERVICE CRITERIA, COMMERCIAL VEHICLE SAFETY ALLIANCE (CVSA).

**REJECT IF: Parts and accessories covered in FMCSR part 393, 396 and/or CVSA North American Uniform Out-of-service Criteria are not in safe and proper operating conditions at all times. These include, but are not limited to the parts and accessories listed below.**

### 2. Gauges and Lights (393.82, 393.11)

- ◆ Speedometer inoperative.
- ◆ All required lighting devices, reflectors and electrical equipment must be properly positioned, colored and working.

### 3. Seat Belts (393.93)

- ◆ Any driver or right outboard seat belt missing or inoperative.

### 4. Glass and Mirrors (393.60, 393.80)

- ◆ Any discoloration not applied by the manufacturer for reduction of glare.
- ◆ Any windshield crack over 1/4" wide.
- ◆ Any crack less than 1/4" wide that intersects with any other crack.
- ◆ Any damage 3/4" or greater in diameter.
- ◆ Any 2 damaged areas closer than 3" to each other.
- ◆ Any required mirror missing. One on each side, firmly attached to the outside of the vehicle, and so located as to reflect to the driver a view of the highway to the rear along both sides of the vehicle.
- ◆ Any required mirror broken.

### 5. Wipers and Horn (393.78, 393.81)

- ◆ Wiper blade(s) fail to clean windshield within 1" of windshield sides.
- ◆ Horn missing, inoperative or fails to give adequate/reliable warning signal.

### 10. Fuel System (393.65, 393.67)

- ◆ Fuel tank not securely attached to vehicle by reason of loose, broken or missing mounting bolts or brackets.
- ◆ Visible leak at any point.
- ◆ Fuel tank cap missing.

### 14. Steering (393.209)

- ◆ Steering wheel does not turn freely, has any spokes cracked through or is missing any parts.
- ◆ Steering lash not within parameters, see chart in FMCSA 393.209.
- ◆ Steering column is not secure.
- ◆ Steering system; any U-joint worn, faulty or repaired by welding.
- ◆ Steering gear box is loose, cracked or missing mounting bolts.
- ◆ Pitman arm is loose, or has any welded repairs.
- ◆ Power Steering; any component is inoperative. Any loose, broken or missing parts. Belts frayed, cracked or slipping.
- ◆ Any fluid leaks, fluid reservoir not full.

### 15. Brakes (393.40-393.55)

- ◆ Brake system has any deficiencies as described in FMCSA.
- ◆ Brake system has any missing, loose, broken, out of adjustment or worn out components.
- ◆ Brake system failure warning device missing, inoperative, or fails to give adequate warning.
- ◆ Brake system has any air or fluid leaks.

### 18. Suspension Systems (393.207)

- ◆ Any axle positioning part is cracked, broken, loose or missing. All axles must be in proper alignment.
- ◆ Any leaf spring cracked, broken, missing or shifted out of position.
- ◆ Adjustable axle assemblies with locking pins missing or not engaged.

### 20. Exhaust (393.83)

- ◆ Any part of the exhaust system so located as would be likely to result in charring, burning, or damaging the wiring, fuel supply or any combustible part of the vehicle.
- ◆ Bus exhaust leaks or discharge forward of the rearmost part of the bus in excess of 6" for Gasoline powered or 15" for other than Gasoline powered, or forward of any door or window designed to be opened on other than a Gasoline powered bus. (Exception: emergency exit).
- ◆ Any leak at any point forward of or directly below the driver and/or sleeper compartment.

### 21. Frame (393.201)

- ◆ Any cracked, broken, loose or sagging frame member.
- ◆ Any loose or missing fasteners including those attaching engine, transmission, steering gear, suspension, body, and fifth wheel.
- ◆ Any condition that causes the body or frame to contact the tire or wheel assemblies.

### 22. Tires and Wheels (393.75, 393.205)

- ◆ Any body ply or belt material exposed through tread or sidewall.
- ◆ Any tread or sidewall separation.
- ◆ Any cut exposing ply or belt material.
- ◆ Tread depths less than 4/32" on steering axle.
- ◆ Less than 2/32" on any other axle.
- ◆ Any bus with regrooved, recapped, or retreaded tires on the front wheels.
- ◆ Any tire not properly inflated or any overloaded tire.
- ◆ Any tire that comes in contact with any part of the vehicle.
- ◆ Any tire marked "Not for Highway Use".
- ◆ Wheels or rims shall not be cracked or broken.
- ◆ Stud or bolt holes on the wheels shall not be elongated.
- ◆ Nuts or bolts shall not be missing or loose.

### 24. Emergency Equipment (393.95)

- ◆ Every power unit must be equipped with a fire extinguisher that is properly filled and readily accessible for use.
- ◆ Spare fuses or other overload protective device.
- ◆ Warning devices for stopped vehicles.

### 25. License (383.23, 391.41)

- ◆ No person shall operate a commercial motor vehicle unless such person has passed written and driving tests which meet the Federal Standards for the commercial motor vehicle that person operates.
- ◆ Persons shall not drive a commercial motor vehicle unless he/she is physically qualified to do so and has on his/her person the original, or a photographic copy, of a medical examiner's certificate that he/she is physically qualified.

### IN ADDITION TO THE ABOVE:

Agency personnel reserve the right to reject any equipment due to any additional condition or combination of conditions that make the vehicle unsafe, unreliable, or may pose unreasonable damage to the environment, or will be unable to fully perform the duties for which the equipment has been hired.

**The inspector shall inspect for compliance with the FMCSA, State and Local laws and regulations. Therefore, the Inspector must ACCEPT or REJECT all equipment he/she inspects.**

# NW Contracting

## SITE SPECIFIC SAFETY PLAN

LOCATION:

Wyoming County Fire Training Center

WYOMING COUNTY, NEW YORK

PROJECT:

NYSDEC Site Number: V-00604-9

DATE:

June 2024

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APPENDIX E	INCIDENT REPORT FORM
APPENDIX F	TAILGATE/SAFETY MEETING FORM
A	JSA's
A APPENDIX	

### EMERGENCY CONTACTS

Site Supervisor Cell Phone: Brice Reed, Project Manager, (716)864-7474

Site Address: 3459 Wethersfield Road, Gainesville NY

Closest Intersection: SEE SITE AREA MAP (NEXT PAGE)

Site Phone Numbers:

- Ambulance/EMS's #: 911  
Fire #: 911  
Police #: 911  
HAZMAT: 911
- Hospital: Wyoming County Community Health System  
400 N. Main St Warsaw NY 14569
- Urgent Care: Wyoming Warsaw Urgent Care  
76 N. Main St Warsaw NY 14569
- CHEMTREC: 1-800-424-9300**
- Poison Control: 1-800-336-6997**

### COMMUNICATION CHAIN: REQUIRED PERSONNEL AND LINES OF AUTHORITY

In case of emergency or change in work scope, contact the following and document instruction received.

Project Manager: (QEP) Brice Reed, Project Manager, (716)864-7474

Client Representative: (Rochester Earth- Andrew Vieira (585)303-0119

Site Safety Officer: (Rochester Earth- Andrew Vieira (585)303-0119

NYSDEC Region 9: Megan Kuczka (716) 851-7220




### Contact for job scheduling/equipment/coordination problems:

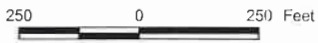
Project Manager: Brice Reed, Project Manager, (716)864-7474





**Legend**

-  Residential Pumping Well
-  Spring Location
-  Property Line



WYOMING COUNTY FIRE TRAINING CENTER SITE PLAN	
	FIGURE 1



Map data ©2024 Google 2 mi

**Wyoming County Fire Training Center**  
3459 Wethersfield Rd, Gainesville, NY 14066

↑ 1. Head east on Wethersfield Rd toward Hatfield Rd  
2 min (1.8 mi)

↶ 2. Turn left onto Hermitage Rd  
3 min (2.4 mi)

**Follow Liberty St to S Main St in Warsaw**  
6 min (3.9 mi)

↷ 3. Turn right onto Liberty St  
3.7 mi

↷ 4. Turn right onto Jefferson St  
0.2 mi

**Follow S Main St**  
3 min (1.4 mi)

↶ 5. Turn left onto S Main St  
0.6 mi

6. At the traffic circle, continue straight onto N Main St

0.7 mi

**Drive to your destination**

42 sec (0.1 mi)

7. Turn right

223 ft

8. Turn left

118 ft

9. Keep left

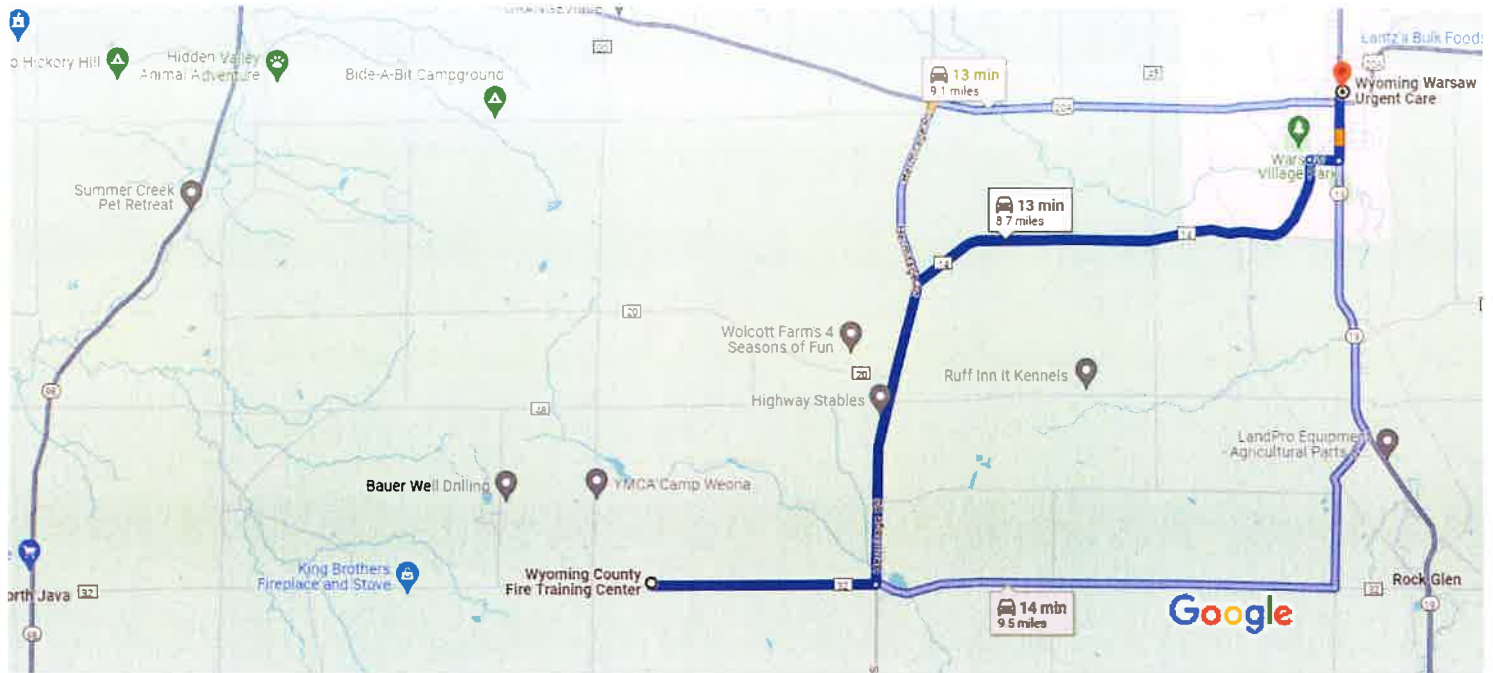
161 ft

10. Turn right

49 ft

**Wyoming Cnty Community Health System**

400 N Main St Warsaw, NY 14569



Map data ©2024 1 mi

**Wyoming County Fire Training Center**

3459 Wethersfield Rd, Gainesville, NY 14066

- ↑ 1. Head east on Wethersfield Rd toward Hatfield Rd 1.8 mi
- ↶ 2. Turn left onto Hermitage Rd 2.4 mi
- ↷ 3. Turn right onto Liberty St 3.7 mi
- ↷ 4. Turn right onto Jefferson St 0.2 mi
- ↶ 5. Turn left onto S Main St 0.5 mi

**i** Destination will be on the right

**Wyoming Warsaw Urgent Care**

76 N Main St, Warsaw, NY 14569

## HEALTH AND SAFETY SUMMARY

Prior to work being performed, the Project Manager/Site Supervisor must review each project to identify any potential hazards. Personnel present on-site shall be advised of safety hazards and potential health hazards before work begins and when hazards are discovered. The evaluations are based on what is known about the site and the anticipated risks posed by various operations. According to OSHA, NW Contracting and its workers must be informed of any known physical and chemical hazards associated with the work/site. Based on Site hazard information, NW Contracting will determine and implement all necessary actions to protect workers, the surrounding community, and the environment.

## SITE SPECIFIC CHARACTERISTICS

The Wyoming County Fire Training Center (WCFTC) is an approximately 1.390-acre site located at 3651 Wethersfield Road in the Town of Wethersfield, Wyoming County. It is approximately one-half mile east of the intersection of Wethersfield and Poplar Hill Roads. Site Features: The main site features include a recently constructed Fire Training Facility building and a fire training pond. Current Zoning and Land Use: The site is currently used for fire training. The surrounding parcels are residential, with the nearest residence approximately 600 ft from the WCFTC. Wyoming County also operates a shooting range adjacent to the site. Historical use of the site for fire training appears to have led to site contamination

**Chemicals of Concern/Hazards:** (Typical COC's Listed- Insert Additional As Applicable)

Although, there is no known contamination in the proposed work area based on historical data, the potential contaminants based on site history include: 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,2-Dichloroethene (cis), Tetrachloroethene, Trichloroethene, vinyl chloride, benzene, toluene, ethylbenzene, xylene, PFAS compounds including PFOA and PFOS

### **Area Affected:**

The site is completely fenced, which restricts public access.

### **Surrounding Population:**

Rural.

### **Chemicals expected to be brought on-site:**

None

**Job Objectives:**

Excavation with a Community Air Monitoring Plan (CAMP), working in compliance to DER-10, and 29 CFR 1910, 29 CFR 1926, and all other applicable Federal, State and local regulations. Providing PID screening and Air monitoring equipment with a laborer and operator.

**INITIAL LEVEL OF PERSONAL PROTECTIVE EQUIPMENT:**

<b>INTRUSIVE ACTIVITIES WITH AIR MONITORING:</b>	<b>LEVEL D</b>
<b>KNOWN CONTAMINANT (i.e. petroleum):</b>	<b>LEVEL C</b>
<b>UNKNOWN CONTAMINANT-NOT IDLH:</b>	<b>LEVEL B</b>
<b>UNKNOWN CONTAMINANT- IDLH:</b>	<b>LEVEL A</b>

**Exclusion Zone/Work Area:            APPROPRIATE PPE AS PER ABOVE  
(See Appendix A for description)**

**Action level for upgrading personal protection:**

Upgrade from Level C to Level B at 750 ppm measured within the breathing zone for 5 minutes. This will be determined by a photo-ionization detector (PID) with a 10.6 EV lamp or a flame ionization detector (FID). See Appendix A for description of Level B personal protection.

Upgrade from Level B to Level A IF: measured air concentrations (by PID) in the work zone of a **Known** contaminant exceed 2000 ppm above background; or measured air concentrations (by PID) in the work zone of an **Unknown** contaminant exceeds 750 ppm above background.

**Personal Protection shall be upgraded to Level A, only with prior notification of Project manager** (i.e. no Level A work/entry shall be performed prior to notification of Project Manager)

**Personal Protection may be downgraded to Level D for some work activities, IF:**

Air monitoring registers less than 5 ppm by PID in work area & known contaminant w/TWA PEL <5.0 ppm. Under all other conditions, Level C shall be maintained in the work/exclusion zone area.

**COMMUNICATIONS**

In an emergency, crucial messages must be conveyed quickly and accurately. Information to be communicated should include: the nature and location of the emergency and/or injured personnel, any orders to evacuate the site, and notice of blocked evacuation routes, as applicable. Outside support sources must be accessible by some form of communication so that help can be obtained, and measures for public notification ensured, if necessary. To accomplish this, a set of internal emergency signals

should be developed and rehearsed daily. External communication systems and procedures should be clear and accessible to all workers.

### **Internal communications**

Internal emergency communication systems are used to alert workers to danger, convey safety information, and maintain site control. Any effective system or combination may be employed. At this Site, radios, whistles, hand, and body motions will be used for communication with/between on-site personnel. Alarms will also be conveyed by audible signals, e.g. equipment horns, whistles, or visual signals such as hand or whole-body movements. (See Table 1 for examples)

### **External Communications**

Off-site sources must be able to be contacted to get assistance or to inform officials about hazardous conditions that may affect public or environmental safety. At this Site, radios or field (cellular) telephones will be used for communication with offsite locations/sources of assistance. The Site building telephone is a secondary available mode of off-site communication.

All Site personnel shall be provided with the protocol (phone number or emergency code, contact person) for contacting public emergency aid teams such as fire departments, ambulance units, and hospitals (contained in the first page of this document).

**TABLE 1 - INTERNAL EMERGENCY COMMUNICATION SIGNALS**

<u>DEVICES</u>	<u>EXAMPLE SIGNALS</u>
<b>Radio, citizen's band or FM</b>	Established code words
<b>Audible signal, e.g.;</b>	
Bull Horn	-One long blast: evacuate area by nearest emergency exit
Siren	-Two short blasts: localized problem (not dangerous to workers)
Whistle	-Two long blasts: all clear

## Visual signal e.g.;

Hand signals

-Hand gripping throat: out of air/can't breathe

Whole body movements

-Hands on top of head: need assistance

-Thumbs up: OK/I'm alright/I understand

-Thumbs down: no/negative

-Grip partner's wrist or both hands

around partner's waist: leave area immediately

## SITE EMERGENCY EQUIPMENT ON-SITE

The following equipment will be available:

Site Specific Health & Safety Plan

First Aid Kit

Fire Extinguisher

Personal Protection Equipment

Spill Containment/Cleanup Materials

## SITE SECURITY

Visitors **will not** be permitted to enter Work and/or hot zones until the excavation area has been determined by the QEP to be free of contamination. Visitors will be required to have certification, 40 hours 1010.120 training, respiratory protection, medical clearance, a fit test (if Level C is being used) and review of the site safety plan. If a visitor does not adhere to the provisions of the site safety plan and common safety practices, they will be requested to leave or retreat to the clean zone. Non-conformance incidents will be recorded in the site log.

## SITE PERSONNEL TRAINING / PROGRESS MEETINGS

1910.120 Training

NW Contracting **does not allow** employees or contractors to work on-site until 40 hour training and/or 8 hour refresher course is complete and documented. On-site training is conducted while under the supervision of a trained, experienced supervisor.

A Pre-Entry Briefing and (Tailgate) On-Site Safety Meetings will be conducted, and are required, on a Daily basis for this Site, or upon any significant change in hazards/conditions.



On-site workers, regardless of the company with which they are employed, are required to read (and/or request explanation of) this Site-Specific Health and Safety Plan.

If necessary, additional on-site update meetings will be held to provide two-way feedback about how well the plan is being followed or if the plan needs changes. These tailgate safety meetings should be held with a work-task discussion. If a new hazard is discovered, it will be discussed with employees. Discussion should include work activities; respiratory protection; potential hazards associated with container contents (if any); emergency work exits; contaminant exposure signs and symptoms and long-term effects; physical characteristics of the contaminants; heat stress!

## **AIR MONITORING**

Site Air Monitoring Requirements:

Equipment Necessary:

PID or FID;

O<sub>2</sub>/LEL Meter;

4 GAS METER

EXPLOSION METER

Documentation on all calibrations and monitoring results is REQUIRED.

Air Monitoring is required at the following times and frequencies:

Use O<sub>2</sub>/LEL before entering any vaults, tanks, trenches, or tank pits more than 4.0 feet deep.

Perform work/exclusion zone Air monitoring by PID for volatile and semi-volatile organic compounds at the frequency stated in the Air Monitoring By PID Table, below. Record all direct reading monitoring results (See Appendix 1)

### **AIR MONITORING BY PID**

<u>FREQUENCY</u>	<u>ACTIVITY</u>	<u>LOCATION</u>
CONTINUOUS	Initial or New	Work Area
Every 30 Minutes	Spill Cleanup	Work Area
Every 30 Minutes	Soil Excavation	Work Area
Every 30 Minutes	Soil Sampling	Work Area
Every 30 Minutes	Soil Stockpiling	Work Area

### AIR MONITORING BY 4 GAS METER

<u>FREQUENCY</u>	<u>ACTIVITY</u>	<u>LOCATION</u>
CONTINUOUS	Initial or New	Work Area
CONTINUOUS	Tank Cleaning	Inside Tank

### SITE CONTROL AND EXCLUSION/WORK ZONE

The site will be controlled to reduce or eliminate the possibility of exposure or transfer of hazardous substances and to protect NW Contracting and other contractors working at the site from physical injury by taking the following actions:

1. Setting up physical barriers/tape to exclude unauthorized personnel, to delineate hazardous zones and to minimize exposures of unprotected persons.
  - a. Man doors and garage doors that access the work zone will be taped-off with caution tape during demolition and excavation activities.
2. Establishing communications for emergency alerting.
3. Using the buddy system.
4. Following safe work practices/Standard Operating Procedures.
5. Identifying medical assistance (See Page 1).
6. Implementing appropriate decontamination procedures to prevent cross-contamination.

### Exclusion/Work Zone

The Exclusion/Work Zone, (or Hot Zone), is where "contamination" exists or is likely to be present or is where activities may be hazardous. Persons entering the Hot Zone/NW Contracting work area must wear prescribed Levels of Protection. The Exclusion zone will initially be established by visually surveying the immediate environment and determining if a hazardous condition exists; It will include the immediate area of the barreled wastes, and anywhere hazardous substances are located or being worked with; It will also include any drainage, leakage, or spilled material areas, and anywhere pathways of dispersion are visible. Its size/location will be adjusted, if necessary, based on air monitoring readings.

### **Decontamination Zone**

The Decon zone serves as a transition between contaminated and clean areas.

Decontamination is performed in this area.

A designated Decon pad/area will be established at this Site, immediately adjacent to the exclusion zone for decontamination of tools, equipment, and personnel. The Decon area will consist of a poly lined containment area, with provisions for emergency shower, pressure washing of tools/equipment, and washing and/or disposal of soiled PPE and equipment. The Decon cleaning agent will bealconox detergent mixed with water, followed by clean water rinse. All Decon wash and rinse water generated will be collected, contained, and properly disposed.

### **Emergency Assembly Area**

#### **INSERT SITE INFORMATION HERE**

Crew will evacuate to the main entrance of the facility. This will allow crew to direct emergency vehicles to the site and remain out of harms way.

### **EMERGENCY PROCEDURES AND FIRST AID**

1. Survey the situation. Do not endanger your own life. DO NOT ENTER A CONFINED SPACE OR EXCLUSION ZONE TO RESCUE SOMEONE WHO HAS BEEN OVERCOME unless an SCBA or airline is worn, the Fire Department or HazMat team has been advised, and there is a standby for you.
2. **Call 911(if available) or the fire department IMMEDIATELY. Explain the physical Injury, chemical exposure, fire, or release.**
3. If the victim's condition appears to be non-critical, but seems to be more severe than minor cuts, he should be transported to the hospital or clinic listed; let the doctor assume the responsibility of determining severity. If condition is obviously serious, transportation must be performed by EMS.
4. Notify Project Manager, the Safety Officer, and client representative as soon as practicable. Complete Accident/Incident/Near Miss Form found in Appendix E within 24 hours.
5. **Personal Injury in the Exclusion Zone:** Upon notification of an injury in the Exclusion Zone, the designated alarm or signal will be given. All site personnel shall assemble at the decontamination line. The rescue team will enter the Exclusion Zone to remove the injured worker to the hotline. The Site Safety Officer and Project Manager will evaluate the nature

of the injury, and the affected person should be decontaminated to the best extent possible prior to movement to the Support Zone. The on-site first aid person should administer the proper treatment and contact should be made for removal by ambulance to the designated medical facility (if required). No person shall reenter the Exclusion Zone until the cause of the injury or the symptoms are determined.

6. **Personal Injury Outside the Exclusion Zone:** Upon notification of an injury in the Support Zone, the Site Safety Officer and Project Manager will assess the nature and extend of the injury. If the cause of the injury or loss of the injured person does not affect the performance of site tasks, then operations may continue. On-site first aid should be administered and the necessary follow-up procedures followed as stated above. If the nature of the injury is such that it endangers or increases risks to others, the emergency signal should be given and the site should be shut down. Activities on-site should not be resumed until the added risk is corrected or removed.

7. **Fire/Explosion:** Upon notice of a potential or existing fire or explosion, the site emergency signal should be given and all personnel should assemble at the decontamination line. The fire department should be notified and all personnel moved to a safe distance from the involved area.

#### **EMERGENCY PROCEDURES AND FIRST AID**

8. **Personnel Protective Equipment Failure:** If any site worker experiences a failure or alteration of protective equipment that affects the protection factor, that person and his/her buddy, shall immediately leave the Exclusion Zone. Reentry shall not be permitted until the equipment has been repaired or replaced.

9. **Other Equipment Failure:** If any other equipment fails to operate on-site, the Project Manager and Safety Officer shall be notified to determine the effect of this failure on continuing operations on-site. If the failure affects the safety of personnel or prevents completion of the Work Plan tasks, all personnel shall leave the Exclusion Zone until the situation is evaluated and appropriate actions taken.

In all situations, when an on-site emergency results in evacuation of personnel from the Exclusion Zone, personnel **shall not reenter** until:

1. The conditions resulting in the emergency have been corrected.
2. The hazards have been reassessed.
3. The Site Safety Plan has been reviewed.
4. Site personnel have been briefed in any changes in the Site Safety Plan.

10. Decontaminate victim without causing delay of live-saving procedures.

Employees receive training concerning contingency plans for site emergencies, with emphasis on recognition, control or retreat. This occurs during the 40 hour course required by OSHA 29 CFR 1910.120.

### **Additional emergency phone numbers**

National Response Center (800) 424-8802

Chemtrec (800) 424-9300

SARA Hotline (800) 535-0202

EPA Hotline (800) 424-9346

OSHA Hotline (800) 523-8151

### **Incident documentation and Follow-up**

The Project Manager is responsible for documenting the incident. At a minimum, include actions and decisions made, and the circumstances at the time of the actions and decisions (See Appendix D).

## **EMERGENCY PROCEDURES AND FIRST AID**

### **Notifications**

In the event of a spill or release, notify the Client Representative. The generator (client) is under obligation to report to the proper government agencies. If the spill extends into waterways, the Coast Guard and the National Response Center (1-800-424-8802) should be notified immediately, by the client or with his permission. The generator is under obligation to report to the proper government agencies. If a chemical is accidentally released, the National Response Center, and the local fire department usually have to be notified immediately by the generator. All reporting must be done with Site Manager and client approval.

If contaminants are found to have migrated off-site into populated areas, a large spill of flammable products is involved, or the material is considered acutely toxic or exceeding published IDLH values, notify the fire department first and tell them that an evacuation may be necessary. Use of berms/dikes, sorbent materials, foams, knock-down water sprays can be used under restricted conditions for spills and/or air releases (vapor clouds). In life threatening situations, **do not** wait for approval to call Fire Department.

### **Site Security and Control During Emergencies**

\* If public evacuation is necessary, responsibility for implementation lies with government authorities.

\* When the fire the command, automatically department or state regulatory agent arrives, control, and responsibility for the site is and instantly transferred to that entity.

\* No one is permitted on-site during the emergency, unless exception is individually granted by the incident commander.

\* Physical barriers should be immediately erected to indicate the perimeter of the incident area; non-essential personnel and the public must be kept on the safe side of this border.

\* Evacuations of the public is not a NW Contracting responsibility. Inform local police and they can contact Civil Defense or other agencies.

## **RISK MATRIX: PRECAUTIONS AND SITE TASK AND PROTECTION**

### **ALL ACTIVITIES**

<b>POTENTIAL HAZARDS</b>	<b>PRECAUTIONS</b>
Heat Stress	<ol style="list-style-type: none"><li>1) Increase liquid consumption</li><li>2) Increase number of rest breaks</li><li>3) Watch for signs</li><li>4) Eliminate alcohol consumption</li><li>5) Do not use salt tablets</li><li>6) Rest in cool/dry areas, such as the air conditioned truck</li><li>7) Call EMTs for case of unconscious-ness or other signs of stress</li></ol>
Traffic	<ol style="list-style-type: none"><li>1) Wear fluorescent safety vest during all on-site visits</li><li>2) Use cone/barricades to indicate work area to drivers and pedestrians</li></ol>
Exposure to toxic petroleum products (during sampling, equipment set-up, cleaning and cutting tanks, etc.)	<ol style="list-style-type: none"><li>1) Stand up-wind whenever possible</li><li>2) Wear nitrile or Silver Shield gloves. Splash goggles advised. Vinyl or PVC sample gloves are not as protective as nitrile sample gloves.</li><li>3) Minimize contact and contact time</li><li>4) Do not walk through discolored areas, puddles, etc.</li><li>5) Follow decontamination procedure (see Appendix E)</li><li>6) If &gt; 5 ppm organic vapors in breathing zone, use full face respirator with organic vapor cartridges</li><li>7) No eating, smoking, drinking, in work area/hot zone and decon zone to reduce exposure by ingestion</li></ol>

8) Continuously monitor (without threatening your health) when unexpected contamination has been discovered. If unknowns discovered, call H&S Managers

## **RISK MATRIX: PRECAUTIONS AND SITE TASK AND PROTECTION**

### **ALL ACTIVITIES**

POTENTIAL HAZARDS	PRECAUTIONS
Inclement weather	1) Cease outdoor work during lightning storms 2) Take cover indoors or in vehicle 3) Listen to local forecasts for specific hazards (tornados, flash floods)
High crime areas	1) Be aware of surroundings. Keep lookout 2) Request police protection, if appropriate

### **VAULT ENTRY AND INDOOR WORK AND CONFINED SPACES**

POTENTIAL HAZARDS	PRECAUTIONS
Flammability	LEL 0%-20% - use non-sparking tools, prevent electrical engagement; Investigate source.  LEL 20% or more - leave area, seek advice on changing the atmosphere; do not engage any spark source. Wear Nomex suit for situations in which a flash fire is possible
Oxygen deficiency Oxygen enrichment	02 < 19.5% - use SAR or SCBA; call District and H&S Managers. 02 > 23% leave area and call the industrial hygienist for advice on next step. The excess oxygen drastically increases the flammability range of normally flammable vapors which then makes them extremely flammable. Permit must be obtained for confined space entry.

## RISK MATRIX: PRECAUTIONS AND SITE TASK AND PROTECTION

### DRILLING, EXCAVATING AND OTHER EQUIPMENT USE

POTENTIAL HAZARDS	PRECAUTIONS
Buried debris, junk on ground, metal debris	<ol style="list-style-type: none"><li>1) Stay at least 20 feet from the auger or excavator arm, wire from underground has wrapped around legs and dragged humans into the rotating drill.</li><li>2) Wear steel (or fiberglass) shanked (foot bottom) boots when metal debris is present; feet in regular boots may be sliced.</li><li>3) Buried debris increases the danger associated with invasive tasks, (i.e., suddenly flying objects, entanglement sparks, new trip hazards, damage, etc.)</li></ol>
Noise	<p>Wear hearing protection whenever there is a need to shout to be understood or in noisy situation, such as drilling or using other heavy equipment. (i.e. Excavation work)</p> <p>Hearing protection is required for employees who are exposed to noise levels equal to or greater than 85 decibels averaged over an eight-hour period.</p>
Power Lines and Electrical Connections	<ol style="list-style-type: none"><li>1) Check height of heavy equipment, excavators, drill rigs, cranes in relation to wires. Keep a 20 foot Minimum clearance. Electric arcs can electrify rig even when no contact is made with power lines.</li><li>2) Use ground fault circuit interrupters on all non-permanent wiring including extension cords.</li><li>3) Observe lookout/tagout procedures.</li></ol>
Physical Injury	<ol style="list-style-type: none"><li>1) Wear hard hat with ratchet whenever performing construction type activity, when equipment, hoses could fly.</li><li>2) Make eye contact with the operator when moving around heavy equipment - must know exactly where everyone is.</li><li>3) Don't wear ties, rings, bracelets, long neck chains, or loose/dangling clothing.</li><li>4) Prevent slips, trips, and falls; work area uncluttered and dry.</li><li>5) Stand at least 20 feet (or the height of the mast) away from the auger or excavator arm when it is in motion. In NY, wire came up a hole and hooked around a driller's leg and dragged him into the auger, killing him.</li></ol>



6) Never use your hands to take samples while the auger is rotating, regardless of time pressure; use a shovel or stop the auger.

**RISK MATRIX: PRECAUTIONS AND SITE TASK AND PROTECTION**

**DRILLING, EXCAVATING AND OTHER EQUIPMENT USE**

POTENTIAL HAZARDS	PRECAUTIONS
Physical Injury (Continued)	7) See Drilling Safety Section. 8) If a partial amputation occurs, call 911, raise the stump (if possible), apply direct pressure to minimize bleeding; if this does not stop bleeding, and use pressure points. Never use a tourniquet - it will increase the amount of limb lost. Collect the part, place in a clean plastic bag or jar. Be careful, if you freeze the part or get it soggy, it can't be re- attached due to its damage.
Back Injury	1) Think out the lift, before performing it, and avoid lifting with a simultaneous twisting motion. 2) Get partner for lifting' 3) Bend knees when lifting and use leg muscles.
Slippery Surfaces	1) Do not wear latex booties or disposable booties. Booties are a major cause of slips and back injuries on dirt/mud/ grass surfaces. 2) Wear ANSI approved work boots with toe and shank (foot bottoms) protection and non-skid over boots to prevent leather contamination

**RISK MATRIX: PRECAUTIONS AND SITE TASK AND PROTECTION**

**CLEANING AND CUTTING UST/AST**

POTENTIAL HAZARDS	PRECAUTIONS
Exposure to toxic petroleum products (during cleaning and cutting tanks, etc.)	1) Stand up-wind whenever possible 2) Wear Proper PPE, including nitrile or Silver Shield gloves. Splash goggles advised. Vinyl or PVC sample gloves are not as protective as nitrile sample gloves.

- 3) Minimize contact and contact time
- 4) If > 5 ppm organic vapors in breathing zone, use full face respirator with organic vapor cartridges.
- 5) LEL readings must be below 20% after three consecutive tests using a MSA Explosimeter and MSA 4Gas meter prior to any tank cutting.
- 6) No eating, smoking, drinking, in work area/hot zone and d decon zone to reduce exposure by ingestion
- 7) Continuously monitor (without threatening your health) when unexpected contamination has been discovered. If unknowns discovered, call H&S Managers.

Use of Hand tools  
and Saws

- 1) Tools must be checked prior to being used on-site to make sure that they are in good working condition.
- 2) Always cut away from your body
- 3) Proper PPE must be worn at all times, including glasses, hard hat, tyvex suit, respirator (if needed) and gloves.

## **TREATMENT OF HEAT ILLNESS**

### HEAT STRESS EMERGENCY DECONTAMINATION

IF AN EMERGENCY DUE TO A HEAT-RELATED ILLNESS DEVELOPS, PROTECTIVE CLOTHING SHOULD BE REMOVED (CUT OFF) FROM THE VICTIM AS SOON AS POSSIBLE TO REDUCE THE HEAT STRESS. If the outer contaminated garments cannot be not safely removed, isolation is in order; blankets, sheets of plastic, garbage drum bags or drum liners should be placed between the contaminated clothing and the clean surfaces of a vehicle to help prevent contaminating medical personnel and/or the inside of ambulances. Protective equipment, particularly gloves, should be brought along in case medical personnel request it. For minor medical problems, decontamination procedure should be followed as usual.



Inside glove: Sample Glove - Nitrile.

Outside glove: Chemical resistant gloves.

Footwear: Splash over boot and steel toe boot.

Other: Ear plugs (if noisy)  
Hard hat  
Duct tape joints  
Wear face shield during

## APPENDIX A

### PERSONAL PROTECTION EQUIPMENT

#### LEVEL B

- > 2000 ppm in breathing zone for Known Contaminants; Or,
- > 750 ppm in breathing zone for Unknown Contaminants.

**If Level B becomes necessary, stop work and call Health and Safety Manager**

Respirator:	SCBA or supplied air respirator
Overalls: suit or	Chemical resistant clothing :( coveralls, disposable chemical resistant hooded coveralls - contaminant dependent)
Inside glove:	Inner and outer glove - chemical resistant
Outside glove:	Inner and outer glove - chemical resistant
Footwear:	Steel-toe boots with shank - chemical resistant
Other:	Hard hat <i>Duct tape joints</i> 2-way radio communications disposable outer boots 5-minute escape mask

#### LEVEL A

**Inform Health and Safety Coordinator**

- >2000 ppm unidentified (UNKNOWN) Contaminants

**Fully Encapsulated Chemical resistant suit with positive pressure SCBA breathing apparatus.**

## APPENDIX B

### WORK PRACTICES AND STANDARD OPERATING PROCEDURES

1. Eating, drinking, chewing gum or tobacco, taking medication, smoking, applying cosmetics or inserting contact lenses is prohibited in contaminated or potentially contaminated areas or where the possibility for the transfer of contamination exists. Carrying food, beverage, matches, lighters, cosmetics, etc., around on-site is prohibited unless in the clean zone exclusively.
2. Drinking alcoholic beverages and/or taking other controlled substances during working hours or when driving is prohibited. Driving while intoxicated may result in immediate termination.
3. Compressed gas cylinders must be secured (with chain or other) upright. SCBA units must be upright or in cases.
4. The buddy system is mandatory whenever entry to the hot zone is made in Level C or higher. Visual contact is maintained between "buddies" on-site. Close proximity must be maintained in cases of emergencies. Responsibilities of the buddy include:
  - \* assisting/checking protective clothing and backs
  - \* keeping visual and voice contact
  - \* monitoring the body for heat stress and/or chemical exposure
  - \* getting help, primarily; secondarily, getting the buddy out of the hot zone, if possible
5. Only FM approved metal safety cans may be used to transport and store flammable liquids. Do not leave these in the sun or near heat - pressure builds and when opened, the liquid spurts out.
6. Smoking is never permitted within the work zone, decon or hot zones.
7. Trenches more than four (4) feet deep, which will be entered, must have a ladder or steps every 25 feet of the trench.
8. Soil must be laid two (2) feet or more from the edge of the excavation/trench.

9. If a trench is > 4 feet in depth, and employees will enter, call the Health & Safety Manager about OSHA required sloping, shoring, shielding.
  
10. Prior to using heavy equipment, a heavy equipment check list will be completed daily. When in an area where heavy equipment is used, including tank pulls, wear steel/plastic toed boots, hard hat, and eye protection. Get visual contact by the operator whenever moving around heavy equipment. Watch the bucket/crane load/arm to avoid being struck. Never stand under or near any load, especially tanks being removed.
  
11. Prior to commencing excavation activities, UDIG NY will be notified to mark all underground utilities. If there are private utilities onsite, a third-party private locator will be utilized. All utilities will be cleared/marked by locators before any excavation begins. All as-built drawings will be reviewed prior to excavation.
  
12. Ends can blow off tanks; therefore, position should be perpendicular to the ends.

**APPENDIX C**  
**CONFINED SPACES**

**Any entry into a confined space by NW Contracting Staff is considered a Permit-Required Confined Space**

OSHA 1910.120 (b) (4) requires this section.

Confined Space Entry Procedures Must Be Followed when working in confined spaces where: (1) requires the person's head to be below ground level; or (2) the person must work in a manhole or other space in which an exit may not be easily accessible.

**Entries into confined spaces will ONLY BE PERFORMED UNDER PERMIT, AND BY TRAINED PERSONNEL.**

Confined Space Entry shall only be performed using the Buddy System.

Buddy System: Two or three people work as a team and are in constant visual and voice contact.

Organic and/or combustible vapors may be trapped resulting in lack of oxygen (anoxia) and/or over-exposure to vapors. Allow the confined space to vent by opening doors and/or manhole covers before monitoring. Normal oxygen levels may not be restored simply by venting the space by those means.

Oxygen Level: Monitor for % Oxygen with and O<sub>2</sub>/LEL to ensure a minimum oxygen level of 19.5%. Because of the high vapor density of gasoline there is a high probability that vapors in the enclosed spaces or vaults will replace any oxygen that is present, even if the space is open to the air. Oxygen level monitoring will be done at the top, middle and bottom of the enclosed space.

**If oxygen is less than 19.5%, do not enter the space without an airline or SCBA. When these devices are to be used, the H&S Manager MUST be present.**

Explosive Vapors: Monitor for % of Lower Explosive Limit (LEL) of vapor concentrations within the Confined space. Gasoline can collect in enclosed spaces, in corners, and in low areas.

**If LEL readings exceed 20%, cautiously change the atmosphere in the space.**

If LEL readings are between 10 and 20%, work can be done, very cautiously. Non-sparking tools must be used.



**APPENDIX C**  
**CONFINED SPACES**

Toxic Vapors: Monitor for toxic vapors with a direct reading instrument for the specific toxic or use a PID. PID readings will be taken at the top, middle and bottom of a vault, shed, or other confined space to ensure that vapors do not exceed acceptable levels. The probe can be extended by adding a piece of Tygon tubing to it. Monitoring is not necessary if entry is made in SAR or SCBA.

If the PID and/or the FID readings exceed 200 ppm, a full face respirator must be worn in the confined space but only if the oxygen level is at or above 19.5%.

**Log monitoring results!**

**Call the Health and Safety Manager for assistance.**

**APPENDIX D**

**DIRECT READING INSTRUMENT LOG**

Project: \_\_\_\_\_ Operator: \_\_\_\_\_

Date: \_\_\_\_\_ Calibration: \_\_\_\_\_

Instrument: \_\_\_\_\_

Sampling Technique: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Sample Interval: \_\_\_\_\_

Calibration: \_\_\_\_\_

Background Reading: \_\_\_\_\_

Action Level/Response: \_\_\_\_\_

**Time Location**

**Reading (units)**

**Detection Limit (Scale)**

\_\_\_\_\_

\_\_\_\_\_

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APPENDIX E

INCIDENT INVESTIGATION REPORT

ACCIDENT-NO INJURY: \_\_\_\_\_ EMERGENCY INVOLVING THE PUBLIC: \_\_\_\_\_

INJURY/ILLNESS: \_\_\_\_\_

EMERGENCY INVOLVING THE ENVIRONMENT: \_\_\_\_\_

NEAR MISS: \_\_\_\_\_

PROJECT NO.: \_\_\_\_\_

PROJECT PHONE NO.: \_\_\_\_\_

PROJECT LOCATION: \_\_\_\_\_

EMPLOYEE'S FULL NAME: \_\_\_\_\_

IF SUBCONTRACTOR, GIVE NAME/ADDRESS: \_\_\_\_\_

ADDRESS (HOME): \_\_\_\_\_

PHONE NO.: \_\_\_\_\_ DATE OF BIRTH: \_\_\_\_\_

SOCIAL SECURITY NO.: \_\_\_\_\_ TITLE: \_\_\_\_\_

DATE AND TIME OF OCCURRENCE: \_\_\_\_\_

DATE AND TIME REPORTED TO NWE: \_\_\_\_\_

DATE EMPLOYEE BEGAN TO LOSE WORK TIME: \_\_\_\_\_

ESTIMATED / ACTUAL DATE OF RETURN TO WORK: \_\_\_\_\_

DESCRIBE THE APPARENT EXTENT OF INJURY OR ILLNESS AND PARTS OF BODY AFFECTED  
(LACERATION, BURN, FRACTURE - RT. LOWER LEG, LT. INDEX FINGER): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**APPENDIX E**

**INCIDENT INVESTIGATION REPORT**

DESCRIBE TREATMENT GIVEN (X-RAY, STITCHES, ETC.). IF HOSPITAL OR DOCTOR, GIVE NAME, ADDRESS, AND PHONE NUMBER AND ATTACH RETURN-TO-WORK SLIP: \_\_\_\_\_

\_\_\_\_\_

DID A CHEMICAL EXPOSURE OCCUR? IF YES, WHAT KNOWN CONTAMINANTS WERE PRESENT? WHAT TYPE OF EXPOSURE OCCURRED? (INHALATION, INGESTION, SKIN CONTACT, ETC): \_\_\_\_\_

\_\_\_\_\_

DESCRIBE FULLY HOW INCIDENT HAPPENED, GIVE CAUSES AND RESULTS. ATTACH ANOTHER SHEET IF NECESSARY: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

EXACT LOCATION WHERE INCIDENT OCCURRED: \_\_\_\_\_

\_\_\_\_\_

NAMES AND ADDRESSES OF WITNESSES TO INCIDENT: \_\_\_\_\_

\_\_\_\_\_

WHO WAS DIRECTLY SUPERVISING THE WORK? \_\_\_\_\_

WORK SCHEDULE AT TIME OF INCIDENT: \_\_\_\_\_ HOURS PER DAY \_\_\_\_\_ DAYS PER WEEK

LEVEL OF PERSONAL PROTECTIVE EQUIPMENT UTILIZED AT TIME OF INCIDENT: (CIRCLE)

A

B

C

D

**APPENDIX E**

**INCIDENT INVESTIGATION REPORT**

WHAT DIRECTION OR TRAINING HAD BEEN GIVEN TO THE TASK? \_\_\_\_\_

\_\_\_\_\_

HOW CAN YOU OR THE COMPANY PREVENT SIMILAR INCIDENTS FORM HAPPENING AGAIN?

\_\_\_\_\_

WHAT ACTION HAS OR WILL BE TAKEN TO PREVENT SIMILAR OCCURRENCES? \_\_\_\_\_

\_\_\_\_\_

ADDITIONAL COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

(EMPLOYEE)

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

(SITE SUPERVISOR)

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

(SAFETY OFFICIAL)

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

(PRESIDENT)

## APPENDIX F



3553 Crittenden Rd.  
Alden, NY 14004  
716.937.6527  
nwcontracting.com

## Attendance Form Tailgate Safety Meeting

Date:

Location:

Trainer:

SAFETY MEETING INCLUDED THE FOLLOWING TOPICS:

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---

---

### Print Name/Signature

- |     |     |
|-----|-----|
| 1.  | 13. |
| 2.  | 14. |
| 3.  | 15. |
| 4.  | 16. |
| 5.  | 17. |
| 6.  | 18. |
| 7.  | 19. |
| 8.  | 20. |
| 9.  | 21. |
| 10. | 22. |
| 11. | 23. |
| 12. | 24. |



3553 Crittenden Road  
Alden, NY 14004  
716-937-6527

Date \_\_\_\_\_  
Job Site \_\_\_\_\_  
\_\_\_\_\_

Superintendent \_\_\_\_\_  
Inspector \_\_\_\_\_

## Weekly Jobsite Safety Inspection Checklist

Pass Fail N/A

### *General*

- The company has a written safety program that is site specific where necessary.
- Emergency telephone numbers are in a place that can be found quickly and easily.
- OSHA poster is posted.
- Minutes of jobsite safety meetings recorded are kept.
- Safety inspections reports by contractor personnel prepared and kept at site.
- There is a competent person, someone capable of identifying existing and predictable hazards which are unsanitary, hazardous, or dangerous, and who has authorization to take prompt corrective measures to eliminate them, on site.
- There is a current first aid kit on site.

### *Sanitation*

- Toilet and hand wash station provided at the jobsite.
- Adequate supply of potable water at jobsites.
- Personal garbage and lunch sacks are removed from the site or properly disposed of so as not attract rodents, pests of insects.

### *Housekeeping*

- Work site is clean and free of dangerous waste and material.
- Scrap materials are removed or stacked in orderly fashion.
- Trash and combustible material are placed in containers provided for that purpose.
- Scrap lumber, hoses, cable wiring and all other debris is clear from work areas, hallways and stairways.
- Nails are removed from scrap lumber and other unused materials.
- There are no spills of liquid and materials that may cause an accident.
- Work areas have the appropriate amount of lighting.
- Holes and openings are protected and marked appropriately.

### *Fire Prevention*

- A fire extinguisher is provided for every 3000 sq. ft. of space that is rated 2A at least.
- A portable fire extinguisher is within 100 ft. of all working areas.
- Portable heaters are being used in accordance with specifications.
- All employees or subcontractors know the location of the fire extinguisher and know how to operate it.
- Employees have been trained in how to properly use a fire extinguisher.



Pass Fail N/A

- Firefighting equipment is always accessible and maintained in good repair
- Smoking is prohibited in possible fire hazard areas.
- Flammable and combustible liquids are marked and properly stored appropriate containers.
- Soiled or combustion rags are properly stored or disposed of.

***Personal Protective Equipment***

- Employees, trade contractors, vendor, visitors, and others on the site wear the appropriate personal protective equipment.
- Hard hats are worn in the construction areas where there is a risk of injury
- Mandatory eye protection is required on all projects in the construction area when the following conditions exist: all types of hammers, saws, chipping tools, brooms, grinders, impact tools, drills, chemicals, hazardous substances which create dust, mist, and fumes, concrete pouring, grouting, etc.
- Face shields are worn when a danger of harmful chemical or physical contact with the face is present.
- Those in areas of moderate, extreme or long-term noise wear appropriate hearing protection.
- Only NIOSH/MSHA respirators approved for the work conditions are used when necessary.
- Respirators or appropriate filters are used when using substances containing toxic vapors, fumes or dust in oxygen deficient environments (less than 19.5% oxygen) or other hazardous areas.
- Those painting or working with hazard chemicals are wearing a respirator that meets those specific requirements.
- If disposable respirators are used by multiple persons, they are cleaned before each use.
- Persons working in confined or enclosed areas where they could be overcome by toxic fumes work only when an outside observer is present. Rescue equipment is be available at all times when such work is being performed.
- Those welding or working with metal or sharp objects are wearing safety and safety goggles.
- Overall workers are adequately protected.

***Hand & Power Tools***

- All hand and power tools in good working order
- Handheld powered tools equipped with constant pressure switch where appropriate.
- Devices are provided on air power tools to prevent tools from becoming accidentally disconnected from hose.
- Pneumatic nailers operating at more than 100 psi. are provided with safety devices on muzzle to prevent accidental discharge.
- Tools are stored in a dry secured place.
- Tools cords are free of cuts or abrasions and in good repair.
- Saws are guarded by the appropriate guards.

Pass Fail N/A

- Tools are being used for their intended use.
- Handles for hammers and other tools are in good condition free of cracks and splinters and free of mushroomed heads.
- All safety guards and devices are in place while the tools is in use.
- All powder actuated are unloaded while not in use.
- All air compressors are equipped with pressure gauges.

#### ***Vehicle and Equipment***

- Construction equipment and vehicles are parked so as to prevent the release of stored energy (bucket/forks down, brake applied, wheels cocked, etc.).
- Only those who are authorized to operate machinery are permitted to so.
- All equipment has functioning signals and horns.
- Backup warning systems are functioning properly.
- Seatbelts are in good repair and used.
- Passengers are prohibited from riding on equipment.
- All mirrors are in place and operational.
- All windshields and glass are clean so vision is unobstructed.
- Flaggers are used when the operator is unable to see or to protect vehicular traffic or pedestrians when necessary.
- Equipment is kept from coming near to overhead power lines.
- Equipment role over protection equipment is in good shape.

#### ***Trenching & Excavation***

- The underground utilities have been located and marked.
- Trenches 5' or more in depth are shored, or have sides sloped.
- The walls and faces of all excavation where employees are exposed to danger from moving ground are guarded by a shoring system, sloping, or benching of ground.
- The slope of benched or sloped excavations and the shoring is designed based on the type of soil.
- All parts of shoring system are in good repair.
- Excavations are no deeper than 2' below the base of any shoring system
- Excavated or other material is placed a minimum of 2' from the edge of excavations.
- Excavations have barricades surrounding them where necessary.
- Have all trenches four feet and greater been provided with stairways, ladders, or ramps within 25 feet of each employee.

#### ***Concrete & Masonry***

- Limited access zones have been established and marked.
- All protruding reinforcing bars have been guarded.
- All free-standing masonry walls are properly braced and supported.

## APPENDIX G



# JOB SAFETY ANALYSIS

3553 Crittenden Road  
Alden, NY 14004  
716-937-6527

## Section 1: General Information

Date & Time: \_\_\_\_\_ Site/Project: \_\_\_\_\_

**DIAL 911 FOR ALL EMERGENCIES – IF 911 IS NOT AVAILABLE, LIST ALTERNATIVE NUMBER BELOW**

Emergency Contact: \_\_\_\_\_ Emergency Notification #: \_\_\_\_\_

Nearest First-Aid Kit: \_\_\_\_\_ Nearest Fire Extinguisher: \_\_\_\_\_

Nearest Eye Wash: \_\_\_\_\_ Do Cell Phones Work \_\_\_\_ Yes \_\_\_\_ No

## Section 2: Task Information

Describe weekly planned Tasks to be performed:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Section 3: Hazard Identification (List all that apply)

Mark an X on any potential/applicable hazard for the task(s):

- |  |   |   |   |   |
|--|---|---|---|---|
| <input type="checkbox"/> Hazardous Atmosphere    | <input type="checkbox"/> Fall from Heights    | <input type="checkbox"/> Suspended Loads/Rigging  | <input type="checkbox"/> Ignition Sources | <input type="checkbox"/> Overhead Hazards     |
| <input type="checkbox"/> Chemical Exposure       | <input type="checkbox"/> Temperature Extremes | <input type="checkbox"/> Weather Hazards          | <input type="checkbox"/> High Noise Level | <input type="checkbox"/> Electrical           |
| <input type="checkbox"/> Pinch Points            | <input type="checkbox"/> Lacerations          | <input type="checkbox"/> Excavation Collapse      | <input type="checkbox"/> Lone Worker      | <input type="checkbox"/> Slips/Trips/Falls    |
| <input type="checkbox"/> Adjacent Operations     | <input type="checkbox"/> Roadway Work/Traffic | <input type="checkbox"/> Dusty Environment        | <input type="checkbox"/> Silica Dust      | <input type="checkbox"/> Insects (Bees/Ticks) |
| <input type="checkbox"/> Struck by Moving Equip. | <input type="checkbox"/> Chemical Spills      | <input type="checkbox"/> Buried Utility Conflicts | <input type="checkbox"/> _____            | <input type="checkbox"/> _____                |

## Section 4: PPE & Engineering Controls to be Utilized

- |   |  |  |  |   |
|---|--|--|--|---|
| <input type="checkbox"/> High Visibility Vest | <input type="checkbox"/> Hard Hat                | <input type="checkbox"/> Safety Glasses            | <input type="checkbox"/> Face Shield     | <input type="checkbox"/> Fall Protection  |
| <input type="checkbox"/> Chemical Gloves      | <input type="checkbox"/> Cut Resistant Gloves    | <input type="checkbox"/> Tripod/Harness/Lifeline   | <input type="checkbox"/> 4 Gas Monitor   | <input type="checkbox"/> Respirator (APR) |
| <input type="checkbox"/> N-95 Dust Mask       | <input type="checkbox"/> Tyvek/Coveralls         | <input type="checkbox"/> Arc Flash Gloves/Clothing | <input type="checkbox"/> Ear Plugs/Muffs | <input type="checkbox"/> Safety Fence     |
| <input type="checkbox"/> Caution Tape         | <input type="checkbox"/> Traffic Control Devices | <input type="checkbox"/> _____                     | <input type="checkbox"/> _____           | <input type="checkbox"/> _____            |

Other Task Specific Engineering Controls utilized: \_\_\_\_\_

If working below grade level, UFPO has been notified: Y\_\_\_\_\_ N\_\_\_\_\_ UFPO# \_\_\_\_\_

All buried private and public owned utilities have been marked and verified: Y\_\_\_\_\_ N\_\_\_\_\_ (If NO, do not proceed with work)

List Job Safety Analysis (JSA's) Reviewed & Discussed: \_\_\_\_\_

SITE SUPERINTENDANT: Print Name \_\_\_\_\_ Signature: \_\_\_\_\_

LIST NWC EMPLOYEES COMPLETING THE TASKS AND ATTENDING THE TAILGATE SAFETY MEETING:

Print Name: \_\_\_\_\_ Print Name: \_\_\_\_\_

Print Name: \_\_\_\_\_ Print Name: \_\_\_\_\_

Print Name: \_\_\_\_\_ Print Name: \_\_\_\_\_

Print Name: \_\_\_\_\_ Print Name: \_\_\_\_\_

## Activity Hazard Analysis (AHA) for Excavation

Project Name: Wyoming County Fire Training Facility Location: 3459 Wethersfield Rd, Gainesville, NY 14066 Prepared By: Andrew Vieira Date: 7/8/24

Activity: Excavating up to 4 Feet

Hazard: Cave-ins

Possible Injuries: Crush injuries, suffocation, death

Preventive Measures:

1. A competent person will conduct a pre-work inspection to identify soil conditions and determine the appropriate protective system for the trench.
2. A registered professional engineer will design the protective system if required.
3. The sides of the trench will be sloped to the angle required for the soil and conditions or shoring will be installed where the slope cannot be maintained.
4. Trench boxes, shields, or other suitable protective systems will be used where required.
5. Workers will not enter the trench until the protective system is in place and the competent person has determined that it is safe to enter.
6. Workers will wear personal protective equipment (PPE) appropriate for the task, including hard hats, high-visibility clothing, and appropriate footwear.
7. A ladder or other means of safe access and egress will be provided for workers entering the trench.
8. Workers entering the trench will use a safety harness attached to a suitable anchor point.
9. A competent person will conduct daily inspections of the excavation.

Hazard: Struck-By Hazards

Possible Injuries: Cuts, bruises, broken bones, head injuries, death

Preventive Measures:

1. Barricades or fencing will be used to keep pedestrians and vehicles away from the excavation site.
2. Workers will wear high-visibility clothing and hard hats.
3. Equipment operators will maintain a safe distance from the excavation.
4. Materials and equipment will be stored a safe distance from the excavation.

Hazard: Electrical Hazards

Possible Injuries: Burns, electrocution, death

Preventive Measures:

1. A competent person will identify the location of underground utilities and mark them before excavation begins.
2. All underground utilities will be located and identified before excavation begins.
3. Workers will avoid contact with overhead power lines.
4. Electrical tools and equipment will be grounded or double-insulated.

#### 1. Excavation and Trenching Safety Training

All employees involved in excavation and trenching operations will receive safety training that includes the proper procedures and hazards associated with the work. The training will cover OSHA excavation standards, the proper use of protective systems and other protective equipment, soil classification, and the recognition of potential hazards.

#### 1. Protective Systems

a. Sloping: The sides of all excavations will be sloped at an angle that is appropriate for the soil and conditions. The slope angle will be determined by the competent person responsible for the excavation.

b. Shoring: Shoring will be installed in all excavations where the slope angle cannot be maintained, or where other factors may create an unsafe condition. The type of shoring will be determined by the competent person responsible for the excavation.

c. Shielding: Trench boxes, shields, or other suitable protective systems will be used where required to protect employees from cave-ins or other potential hazards.

#### 1. Access and Egress

a. Safe access and egress will be provided to and from all excavations. Ladders or other means of access and egress will be provided for any excavation over 4 feet in depth.

b. All access and egress will be maintained in a safe and stable condition.

1. Inspections

a. Excavations will be inspected by a competent person at the beginning of each shift and as needed throughout the day.

b. Any unsafe conditions will be addressed immediately, and work in the excavation will be suspended until the unsafe condition is corrected.

1. Personal Protective Equipment (PPE)

a. All employees working in or near excavations will wear PPE appropriate for the task, including hard hats, high-visibility clothing, and appropriate footwear.

b. Workers entering excavations will also wear a safety harness attached to a suitable anchor point.

1. Emergency Response Plan

a. An emergency response plan will be developed that includes procedures for handling injuries, cave-ins, and other emergencies.

b. All employees will be trained on the emergency response plan.

1. Daily Records

Daily excavation logs will be kept that will include the depth of the excavation, the type of protective system used, and any soil or weather conditions that may affect the excavation.

1. Specific Procedures for Trenching to 6 Feet

a. When trenching to a depth of 6 feet or more, a registered professional engineer will design the protective system.

b. Excavations will be benched or sloped to maintain stability and prevent soil collapse.

c. Daily inspections of the excavation will be conducted by a competent person.

d. Workers entering the excavation will use a ladder or other means of safe access and egress.

By following these guidelines, Rochester Earth can ensure that all excavation and trenching operations at the Batavia VAMC are carried out in a safe and efficient manner

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>DATE: 6/10/2024</b>			<b>COMPANY: NW Contracting</b>	
<b>DESCRIPTION OF ACTIVITY: Backhoe Testing</b>				
<b>SAFETY REPRESENTATIVE: Lisa Daigler</b>			<b>LOCATION OF TASK:</b>	
POTENTIAL HAZARD CHECKLIST (Place a Checkmark if applicable)			PERSONAL PROTECTIVE EQUIPMENT	
<input checked="" type="checkbox"/> Pinch Points	<input checked="" type="checkbox"/> High Noise Levels	<input type="checkbox"/> (M)SDS Reviewed	<input type="checkbox"/> Safety Glasses	<input type="checkbox"/> Face Shield
<input type="checkbox"/> Potential Burns	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Sharp Objects or Tools	<input type="checkbox"/> Hard Hat	<input type="checkbox"/> Metatarsals/Steel Toe
<input checked="" type="checkbox"/> Flying Debris Eyes	<input type="checkbox"/> Manual Lifting	<input type="checkbox"/> Fire/Explosion	<input checked="" type="checkbox"/> Safety Shoes	<input type="checkbox"/> Flame Resistant Clothing
<input type="checkbox"/> Housekeeping	<input checked="" type="checkbox"/> Any Spills	<input checked="" type="checkbox"/> Inhalation Hazard	x Gloves	<input type="checkbox"/> Other:
<input type="checkbox"/> Electrical Shock	<input checked="" type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Confined Spaces	<input checked="" type="checkbox"/> Work Vest	<input type="checkbox"/> Other:
<input type="checkbox"/> Inadequate Access	<input checked="" type="checkbox"/> Hazardous Chemicals	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Fall Protection	<input type="checkbox"/> Other:
Comments:				



## TASK PLANNER/JOB SAFETY ANALYSIS

<b>JSA</b>		
<b>Description of Work Performed</b>	<b>Hazards Associated with Each Step</b>	<b>Required Actions to Eliminate or Control the Hazard</b>
Backhoe Testing	Backhoe Excavation and Testing/Profile Contact with utility line, swing radius and blind spots, hit by/caught between	Fill removed from the backhoe will be placed at least 1.5 ft away from trench  Because of the loose fill soils, personnel will not enter into the backhoe trenches more than 4 ft. in depth, unless the backhoe trenches are widened to meet OSHA standards  Always check for overhead power lines and be sure to have adequate clearance if working near overhead lines. Always keep the machine under control. Avoid fast swings, be sure of working range, be sure all persons and obstacles are clear before swinging or moving machine. Always have adequate clearance before swinging machine.
	Injury from Hand Tool Operation	Personnel awareness of potential hazards from hand tool operation  SSO will ensure that all tools used onsite are in proper working order and are in good condition  Personnel to inform SSO or Project Manager if tools require repair or replacement
	Biological Hazards (ticks, bees, mosquitoes, snakes, etc.)	Personnel will be aware of potential exposure to biological hazards.  Wear appropriate clothing (hat, long-sleeve shirt, long pants, glove, boots, etc.) and insect repellent
	Site Hazards Material Exposure	Training and Safety awareness of potential exposure to contaminants at the site  Training of all personnel decontamination procedures  Appropriate PPE will be worn on site conditions and actions levels.  All backhoe trenches will be monitored by personnel for levels of chemicals and vapors to determine if the level of PPE needs to be raised above Level D.  Must sign off on health and safety plan.  Visitors will be escorted around site by a 40 hour trained individual unless cleared with the SSO
©OSEA, Inc.	Trench Cave in/Fall protection Stay Aware of where you are in relation to the hole. Cover hole with walkable surface & make barrier around it if not filled in immediately after work or left unattended.	Job Safety Analysis-Task Planner Form 2019

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>DATE:</b> 6/10/2024			<b>COMPANY:</b> NW Contracting	
<b>DESCRIPTION OF ACTIVITY:</b> Driving				
<b>SAFETY REPRESENTATIVE:</b> Lisa Daigler			<b>LOCATION OF TASK:</b>	
<b>POTENTIAL HAZARD CHECKLIST (Place a Checkmark if applicable)</b>			<b>PERSONAL PROTECTIVE EQUIPMENT</b>	
<input checked="" type="checkbox"/> Pinch Points	<input type="checkbox"/> High Noise Levels	<input type="checkbox"/> (M)SDS Reviewed	<input type="checkbox"/> Safety Glasses	<input type="checkbox"/> Face Shield
<input type="checkbox"/> Potential Burns	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Sharp Objects or Tools	<input type="checkbox"/> Hard Hat	<input type="checkbox"/> Metatarsals/Steel Toe
<input type="checkbox"/> Flying Debris Eyes	<input type="checkbox"/> Manual Lifting	<input type="checkbox"/> Fire/Explosion	<input type="checkbox"/> Safety Shoes	<input type="checkbox"/> Flame Resistant Clothing
<input type="checkbox"/> Housekeeping	<input checked="" type="checkbox"/> Any Spills	<input type="checkbox"/> Inhalation Hazard	<input type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Other: Driver Inattention
<input type="checkbox"/> Electrical Shock	<input checked="" type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Confined Spaces	<input type="checkbox"/> Work Vest	<input type="checkbox"/> Other:
<input type="checkbox"/> Inadequate Access	<input type="checkbox"/> Hazardous Chemicals	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Fall Protection	<input type="checkbox"/> Other:
<b>Comments:</b>				

JSA		
Description of Work Performed	Hazards Associated with Each Step	Required Actions to Eliminate or Control the Hazard
Pre-Operation Inspection	Accidents associated with faulty or damaged vehicle	Perform a walk around of vehicle, including looking under the vehicle to be sure that there is nothing broken, damaged or leaking.
		Ensure that there is nothing that could be hazardous to health or flammable leaking from vehicle
		Should any damage or leaks be found, determine what it is and repair if possible
		If unable to fix the damage/leak, make arrangements to remove the vehicle from the site safely and to clean/repair leak and or damage
Driving	Injury from vehicular accidents	Wear seatbelts anytime vehicle is not in "Park".
		When driving , make sure to sit back as far from the steering wheel/windshield as is practicable.
		Use both hands on the wheel
		No cell phone use of any kind while driving and vehicles
	Struck by accidents	When entering the site, always use a spotter to direct you to your location

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>JSA</b>		
<b>Description of Work Performed</b>	<b>Hazards Associated with Each Step</b>	<b>Required Actions to Eliminate or Control the Hazard</b>
Driving	Struck by accidents	Approaching vehicles should announce their arrival using 2 short horn blasts
		If backing is necessary, adhere to Backing Policy in HASP
		Ensure that the vehicle is in “Park” position prior to exiting the vehicle
		Apply emergency brake and/or wheel chocks to prevent rolling of vehicle
		Never move the vehicle without first performing a walk-around inspection
All vehicle operations	Pinch/crush points	Be aware of your surroundings and the other people around you at all times
		Do not close the vehicle door without looking at it first to be sure nothing/ no one is in its way
		Do not park a vehicle so close to another vehicle/piece of equipment that the passengers cannot freely enter and exit the vehicle

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>DATE:</b> 6/10/2024			<b>COMPANY:</b> NW Contracting	
<b>DESCRIPTION OF ACTIVITY:</b> Decontamination Area Setup				
<b>SAFETY REPRESENTATIVE:</b> Lisa Daigler			<b>LOCATION OF TASK:</b>	
POTENTIAL HAZARD CHECKLIST (Place a Checkmark if applicable)			PERSONAL PROTECTIVE EQUIPMENT	
<input type="checkbox"/> Pinch Points	<input type="checkbox"/> High Noise Levels	<input checked="" type="checkbox"/> (M)SDS Reviewed	<input checked="" type="checkbox"/> Safety Glasses	<input type="checkbox"/> Face Shield
<input checked="" type="checkbox"/> Potential Burns	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Sharp Objects or Tools	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> Metatarsals/Steel Toe
<input type="checkbox"/> Flying Debris Eyes	<input type="checkbox"/> Manual Lifting	<input type="checkbox"/> Fire/Explosion	<input type="checkbox"/> Safety Shoes	<input type="checkbox"/> Flame Resistant Clothing
<input type="checkbox"/> Housekeeping	<input checked="" type="checkbox"/> Any Spills	<input checked="" type="checkbox"/> Inhalation Hazard	<input checked="" type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Other: Tyvek
<input type="checkbox"/> Electrical Shock	<input type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Confined Spaces	<input checked="" type="checkbox"/> Work Vest	<input type="checkbox"/> Other:
<input type="checkbox"/> Inadequate Access	<input checked="" type="checkbox"/> Hazardous Chemicals	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Fall Protection	<input type="checkbox"/> Other:
<b>Comments:</b>				

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>JSA</b>		
<b>Description of Work Performed</b>	<b>Hazards Associated with Each Step</b>	<b>Required Actions to Eliminate or Control the Hazard</b>
Decontamination area set up	Vehicle and heavy equipment in work area	<p>Operation of heavy equipment in accordance with the PSP</p> <p>Be alert when working around heavy equipment</p> <p>Ground guides for the backing of all vehicles</p> <p>No heavy equipment will be operated without a ground guide</p> <p>Barriers, warning signs, designated walkways or other safeguards must be provided where pedestrians are exposed to the risk of collision.</p>
	Muscle strain/injuries from improper lifting	Personnel will utilize proper lifting techniques or ask for assistance with moving/lifting objects
	Rain	Have proper PPE (ie rain gear, footwear, etc.) available. Be aware of slip hazards, puddles, etc.
	Sunshine	Have sunscreen available for ultraviolet protection. Have water for dehydration
	Snow	Have warm clothes available for cold temperatures
	Lightning	Do not begin or continue work until lightning subsides for 20 minutes
	Cold and Heat Stress	<p>Implement the cold/heat stress program as appropriate to conditions</p> <p>SSO will monitor workers for cold/heat stress symptoms</p>
	Slips, trips, falls	<p>Workers will be aware of potentially slippery surfaces and tripping hazards</p> <p>Work slowly during transit. Jumping, running, and horseplay are prohibited.</p> <p>Workers will keep all areas clean and free of debris to deter any unnecessary trips and falls.</p> <p>Clean up all spills immediately</p> <p>Personnel will notify the SSO of any unsafe conditions</p>
©OSEA, Inc.		Job Safety Analysis-Task Planner Form 2019

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>DATE:</b> 6/10/2024			<b>COMPANY:</b> NW Contracting	
<b>DESCRIPTION OF ACTIVITY:</b> Equipment Decontamination				
<b>SAFETY REPRESENTATIVE:</b> Lisa Daigler			<b>LOCATION OF TASK:</b>	
POTENTIAL HAZARD CHECKLIST (Place a Checkmark if applicable)			PERSONAL PROTECTIVE EQUIPMENT	
<input type="checkbox"/> Pinch Points	<input type="checkbox"/> High Noise Levels	<input checked="" type="checkbox"/> (M)SDS Reviewed	<input checked="" type="checkbox"/> Safety Glasses	<input type="checkbox"/> Face Shield
<input checked="" type="checkbox"/> Potential Burns	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Sharp Objects or Tools	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> Metatarsals/Steel Toe
<input type="checkbox"/> Flying Debris Eyes	<input type="checkbox"/> Manual Lifting	<input type="checkbox"/> Fire/Explosion	<input checked="" type="checkbox"/> Safety Shoes	<input type="checkbox"/> Flame Resistant Clothing
<input type="checkbox"/> Housekeeping	<input checked="" type="checkbox"/> Any Spills	<input checked="" type="checkbox"/> Inhalation Hazard	<input checked="" type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Other: Tyvek
<input type="checkbox"/> Electrical Shock	<input checked="" type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Confined Spaces	<input checked="" type="checkbox"/> Work Vest	<input checked="" type="checkbox"/> Other: Respiratory Protection
<input type="checkbox"/> Inadequate Access	<input checked="" type="checkbox"/> Hazardous Chemicals	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Fall Protection	<input type="checkbox"/> Other:
<b>Comments:</b>				

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>JSA</b>		
<b>Description of Work Performed</b>	<b>Hazards Associated with Each Step</b>	<b>Required Actions to Eliminate or Control the Hazard</b>
Process items through decontamination in accordance with the PSP	Site Hazardous Material Exposure	<p>Training and safety awareness of potential exposure to contaminants at the site and decontamination procedure</p> <p>Appropriate PPE will be worn</p> <p>Personnel will follow decontamination procedure</p>
	Slips, trips, falls	<p>Workers will be aware of potentially slippery surfaces and tripping hazards</p> <p>Workers will keep all areas clean and free of debris to deter any unnecessary trips and falls</p> <p>Personnel will clean up all spills immediately</p> <p>Personnel will notify the SSO of any unsafe conditions</p>
	Heat and Cold Stress	<p>Implement the cold/heat stress control program</p> <p>SSO will monitor workers for heat/cold stress symptoms</p>
	Eye Injury	PPE (safety glasses, etc.) will be worn
Hot Water High Pressure Spray/Steam clean	Hot Water Burns	<p>Prior to decontamination of large equipment, the personnel will ensure that all other workers are outside of the decontamination areas.</p> <p>Personnel will wear appropriate PPE (e.g. gloves, Tyvek, splash goggles, etc.)</p>
	Spill/Leak of Contaminated Water	<p>Decontamination area will be designed to collect all contaminated wash/rinse water and to prevent the spread of run off.</p> <p>Berms and absorbent pads will be available for use in controlling spills.</p>

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>DATE: 6/10/2024</b>			<b>COMPANY: NW Contracting</b>	
<b>DESCRIPTION OF ACTIVITY: Soil Digging (e.g. shovel, hand, auger, etc.)</b>				
<b>SAFETY REPRESENTATIVE: Lisa Daigler</b>			<b>LOCATION OF TASK:</b>	
POTENTIAL HAZARD CHECKLIST (Place a Checkmark if applicable)			PERSONAL PROTECTIVE EQUIPMENT	
<input type="checkbox"/> Pinch Points	<input type="checkbox"/> High Noise Levels	<input type="checkbox"/> (M)SDS Reviewed	<input checked="" type="checkbox"/> Safety Glasses	<input type="checkbox"/> Face Shield
<input type="checkbox"/> Potential Burns	<input type="checkbox"/> Falling Objects	<input checked="" type="checkbox"/> Sharp Objects or Tools	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> Metatarsals/Steel Toe
<input checked="" type="checkbox"/> Flying Debris Eyes	<input type="checkbox"/> Manual Lifting	<input type="checkbox"/> Fire/Explosion	<input checked="" type="checkbox"/> Safety Shoes	<input type="checkbox"/> Flame Resistant Clothing
<input type="checkbox"/> Housekeeping	<input type="checkbox"/> Any Spills	<input type="checkbox"/> Inhalation Hazard	<input type="checkbox"/> Gloves	<input type="checkbox"/> Other:
<input type="checkbox"/> Electrical Shock	<input type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Confined Spaces	<input checked="" type="checkbox"/> Work Vest	<input type="checkbox"/> Other:
<input type="checkbox"/> Inadequate Access	<input type="checkbox"/> Hazardous Chemicals	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Fall Protection	<input type="checkbox"/> Other:
<b>Comments:</b>				



## TASK PLANNER/JOB SAFETY ANALYSIS

<b>JSA</b>		
<b>Description of Work Performed</b>	<b>Hazards Associated with Each Step</b>	<b>Required Actions to Eliminate or Control the Hazard</b>
Soil Digging	Inhalation of contaminated dust, Inhalation of volatile contaminants, Ingestion of contaminants, Skin/eye contact with contaminated materials	<p>If exposure to contaminated materials occurs, promptly wash contaminated skin using soap or mild detergent and water</p> <p>Wash eyes with large amounts of water</p> <p>If a person breathes in a large amount of organic vapor, move the exposed person to fresh air. Perform artificial respiration if breathing stops.</p> <p>Keep the affected person warm and at rest. Obtain medical treatment for all of these situations as required.</p> <p>Wear appropriate safety equipment (i.e. goggles, gloves, boots, as appropriate for reducing risk of contamination.</p> <p>When transferring equipment and samples to land, follow procedures for demobilization.</p>
	Pinch points	Maintain awareness of procedures underway and be attentive of equipment operations
	Noise exposure	<p>Hearing protection will be worn in hazardous noise areas or working around heavy machinery or equipment.</p> <p>Wear earplugs when noise level from equipment exceeds 90 decibels (dBA) averaged over an eight-hour day.</p>

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>DATE: 6/10/2024</b>			<b>COMPANY: NW Contracting</b>	
<b>DESCRIPTION OF ACTIVITY: Tool Decontamination</b>				
<b>SAFETY REPRESENTATIVE: Lisa Daigler</b>			<b>LOCATION OF TASK:</b>	
POTENTIAL HAZARD CHECKLIST (Place a Checkmark if applicable)			PERSONAL PROTECTIVE EQUIPMENT	
<input type="checkbox"/> Pinch Points	<input type="checkbox"/> High Noise Levels	<input checked="" type="checkbox"/> (M)SDS Reviewed	<input checked="" type="checkbox"/> Safety Glasses	<input type="checkbox"/> Face Shield
<input checked="" type="checkbox"/> Potential Burns	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Sharp Objects or Tools	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> Metatarsals/Steel Toe
<input checked="" type="checkbox"/> Flying Debris Eyes	<input checked="" type="checkbox"/> Manual Lifting	<input type="checkbox"/> Fire/Explosion	<input checked="" type="checkbox"/> Safety Shoes	<input type="checkbox"/> Flame Resistant Clothing
<input type="checkbox"/> Housekeeping	<input checked="" type="checkbox"/> Any Spills	<input checked="" type="checkbox"/> Inhalation Hazard	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Other:
<input type="checkbox"/> Electrical Shock	<input type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Confined Spaces	<input checked="" type="checkbox"/> Work Vest	<input type="checkbox"/> Other:
<input type="checkbox"/> Inadequate Access	<input checked="" type="checkbox"/> Hazardous Chemicals	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Fall Protection	<input type="checkbox"/> Other:
<b>Comments:</b>				

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>JSA</b>		
<b>Description of Work Performed</b>	<b>Hazards Associated with Each Step</b>	<b>Required Actions to Eliminate or Control the Hazard</b>
General	Site Hazardous Material Exposure	<p>Training and Safety awareness of potential exposure to contaminants at the site and decontamination procedures</p> <p>Appropriate PPE will be worn (e.g. gloves, splash goggles, Tyvek, etc.)</p> <p>Personnel will follow decontamination procedures.</p>
	Eye Injury	PPE (safety glass, etc, will be worn)
	Slips, Trips, Falls	<p>Workers will be aware of potentially slippery surfaces and tripping hazards</p> <p>Workers will keep all areas clean and free of debris to deter any unnecessary trips and falls.</p> <p>Personnel will clean up all spills immediately</p> <p>Personnel will notify SSO of any unsafe conditions.</p>
Remove gross contamination with brush	Damaging equipment or tools.	To clean instrumentation, follow manufacturer's instructions.
Place in decontamination bucket or rinse with decontamination solution	Spill/leakage	<p>Workers will have berms or spill absorbent pads nearby to prevent the spread of contaminated water.</p> <p>Decontamination area will be designed to minimize exposure</p>
Clean with wash solution	Chemical reaction with wash solution	<p>A fire extinguisher will be located in an accessible location on site.</p> <p>Review the chemicals of concern and use appropriate wash solution.</p>
Rinse with water	Contamination remains	Personnel will repeat proper decontamination procedure.

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>DATE:</b> 6/10/2024			<b>COMPANY:</b> NW Contracting	
<b>DESCRIPTION OF ACTIVITY:</b> All Activities				
<b>SAFETY REPRESENTATIVE:</b> Lisa Daigler			<b>LOCATION OF TASK:</b>	
<b>POTENTIAL HAZARD CHECKLIST (Place a Checkmark if applicable)</b>			<b>PERSONAL PROTECTIVE EQUIPMENT</b>	
<input type="checkbox"/> Pinch Points	<input checked="" type="checkbox"/> High Noise Levels	<input type="checkbox"/> (M)SDS Reviewed	<input checked="" type="checkbox"/> Safety Glasses	<input type="checkbox"/> Face Shield
<input type="checkbox"/> Potential Burns	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Sharp Objects or Tools	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> Metatarsals/Steel Toe
<input checked="" type="checkbox"/> Flying Debris Eyes	<input type="checkbox"/> Manual Lifting	<input type="checkbox"/> Fire/Explosion	<input checked="" type="checkbox"/> Safety Shoes	<input type="checkbox"/> Flame Resistant Clothing
<input checked="" type="checkbox"/> Housekeeping	<input type="checkbox"/> Any Spills	<input type="checkbox"/> Inhalation Hazard	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Other:
<input type="checkbox"/> Electrical Shock	<input checked="" type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Confined Spaces	<input checked="" type="checkbox"/> Work Vest (Fluorescent)	<input type="checkbox"/> Other:
<input type="checkbox"/> Inadequate Access	<input type="checkbox"/> Hazardous Chemicals	<input type="checkbox"/> Lockout/Tagout	<input checked="" type="checkbox"/> Fall Protection	<input type="checkbox"/> Other:
Comments: HAZARDS: Heat Stress, Traffic, Inclement Weather, Violence, Cold Stress				

JSA		
Description of Work Performed	Hazards Associated with Each Step	Required Actions to Eliminate or Control the Hazard
ALL	Heat Stress	Increase liquid consumption and number of rest breaks
		Monitor co-workers for signs of heat stress
		Eliminate alcohol consumption
		Do not use salt tablets
		Rest in cool/dry areas, such as air conditioned trucks
		Call EMTs for case of unconsciousness or other signs of stress
	Traffic	Wear fluorescent safety vest during all on-site visits
		Use cone/barricades to indicate work area to drivers and pedestrians
	Inclement Weather	Cease outdoor work during lightning storms
		Take cover indoors or in vehicle
		Listen to local forecasts for specific hazards (tornados, flash floods, etc.)
	High crime areas/ violence	Request police protection, if appropriate
		Be aware of surrounding and keep lookout

## TASK PLANNER/JOB SAFETY ANALYSIS

JSA		
Description of Work Performed	Hazards Associated with Each Step	Required Actions to Eliminate or Control the Hazard
ALL	Cold Stress	In temperatures below 45° F, wear warm clothing such as mittens and heavy socks, protective clothing or coveralls for win shielding
		At Air Temperatures below 35° F, wear the following:
		1. Insulated suits such as whole body thermal underwear
		2. Wool or polypropylene socks
		3. Insulated gloves and boots
		4. Hard hat liner or knit cap
		5. Insulated jacket, wind and water resistant outer layer
		6. Dress in layers, with thin lighter clothing next to the body
		At air temperatures below 35°, follow these procedures:
		1. In wet conditions, the outer layer of clothing should be impermeable
		2. If clothing becomes wet, change into dry clothes immediately
		3. Take breaks in a warm area
		4. Consume hot liquids during breaks, but limit coffee and tea due to their circulatory and diuretic effects
		5. Practice buddy system, any site worker observed with severe shivering shall leave the work are immediately

## B. Qualified Environmental Professional Certification Statement

NWC's Qualified Environmental Professional will oversee all invasive excavation work and the excavation and load-out of all contaminated excavated materials. NWC will provide the following QEP for the duration of this project.

### **Dale Gramza**

Mr. Gramza has firsthand experience at the Wyoming County Fireman's Training Grounds. From 2000 – 2004 he performed on site as Nature's Way Environmental's (NWC's) Senior Geologist / Driller and composed the subsurface investigation report in 2002.

### **Brice Reed**

Mr. Reed has 12 years of environmental construction and project management experience. Brice has worked with various state entities including NYS DEC, NYS PARKS, NYS OGS, Empire State Development, Erie County, EPA and SUNY, to provide a variety of environmental construction solutions.

### **Mr. Reed is the Project Manager for the following NWC Projects currently in- progress:**

SUNY Buffalo State Contract D230004: Decommissioning Underground Fuel Station Buffalo NY: Removal of old gas and diesel tanks and associated piping and contaminated soil - \$278,000

NYS DEC/EPA Contract D012107: Old Upper Mtn Road Remedial Site Lockport NY: Excavation dewatering and on-site water treatment system(s) - \$840,000

NYS DEC Contract D012978: Zoar Valey Flats Access Project: Construction of a new ADA accessible trail and construction access road to Cattaraugus creek Gowanda NY - \$780,000

NYS PARKS Contract D005904: Woodlawn SP Wetland Enhancement Project Blasdell NY. 2.9 acres of wetlands enhancement with a culvert to redirect water from Blasdell Creek, into the wetland, and out into Lake Erie. Remediation of soils. Installation of native plantings - \$1,680,000

NYS PARKS Contract D006130: Wildlife Barrier Letchworth State Park Castile NY: Construction of new 1,200 LF concrete barrier with plastic face and concrete tunnel under the park road to divert snakes, lizards, and other small animals off the main road to facilitate their survival in the park - \$424,000

Figure 3

State University of New York  
College at Buffalo

*On the recommendation of the faculty  
and by virtue of the authority vested in them,  
the trustees of the University have conferred on*

BRICE JAMES REED  
*the degree of*  
BACHELOR OF SCIENCE

*and have granted this diploma as evidence thereof  
given in the City of Buffalo in the State of New York  
in the United States of America.*

MAY 12, 2012

*H. Carl McColl*  
Chairman of the Board of Trustees

*Harold A. Jones*  
Chairman of the College Council



*Kevin Zimpe*  
Chancellor

*Clara P. Pappalardo*  
President of the College

*The University of the State of New York  
Education Department  
Office of the Professions  
REGISTRATION CERTIFICATE  
Do not accept a copy of this certificate*

License Number: 000408-1

Certificate Number: 9963349



GRAMZA DALE M  
11749 MANITOU DR  
ALDEN

NY 14004-0000

is registered to practice in New York State through 10/31/2020 as a(n)  
**PROFESSIONAL GEOLOGIST**

LICENSEE/REGISTRANT

*Jane S. Klein*  
EXECUTIVE SECRETARY

*Karyellen Elias*  
COMMISSIONER OF EDUCATION

*Dee E. Hill*  
DEPUTY COMMISSIONER  
FOR THE PROFESSIONS

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3553 Crittenden Road  
Alden, NY 14004  
716.937.6527  
nwcontracting.com

Brice Reed  
P. O. Box 21  
Colden, NY 14033  
716-984-4166  
brice@nwcontracting.com

## Education

- 2012            **State University of New York College at Buffalo** – Buffalo, NY  
Bachelor of Science – Earth Science  
Minor - Geology
- 2008            **Erie Community College** – Orchard Park, NY  
Associates in Science – Earth Science

## Work Experience

- 2014-Present            Project Manager  
***Nature's Way Environmental, DBA NW Contracting***  
*3553 Crittenden Road*  
*Alden, NY 14004*  
Coordination of site activities including subcontractors and suppliers. Solicitation and selection of materials, suppliers, and subcontractors. Scheduling of sites and personnel. Bidding new contracts. Management of submittals including Submittal Exchange. Attends industry events. Assists with business development and recruitment of new staff.
- 2012-2014            Fuel Systems Technician/Environmental Technician/Site Foreman  
***Nature's Way Environmental, DBA NW Contracting***  
*3553 Crittenden Road*  
*Alden, NY 14004*  
Operation of small equipment, including lifts, rollers, skid steers, backhoe, etc. Site technician for the wiring and electronics involved in fuel system installations, obtains and preps soil and groundwater samples. Performs personal and community air monitoring. Manual labor as necessary. Directs and trains new crew members. Maintains training, operation, and maintenance of air-purifying respirators and supplied air respirators including SCBA.
- 2011-2012            Electrical Apprentice  
***Atkot Electric***  
*8880 Hayes Hollow Road*  
*Colden, NY 14033*  
Completed various projects involving electrical wiring and various machine shop electrical services. Performance of general construction activities involving updating and remodeling.



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**Dale M Gramza**  
**11749 Manitou Dr.**  
**Alden NY 14004**  
**716-572-3672**

**Licensing:** 2017 The University of the State of New York Education Department Office of the Professions  
Professional Geologist License Number 00408-1

**Education:** 1980 State University of New York at Buffalo-Buffalo, NY  
Bachelor of Science- Geology

1976 Genesee Community College-Batavia NY  
Associates of Science-Biology

**Work Experience:**

2021-2024 Independent Consultant-Professional Geologist

1998-2021 Drilling Division Manager  
***Nature's Way Environmental Consultants and Contractors, Inc***  
***3553 Crittenden Rd, Alden NY 14004***  
Overall Management, coordinating projects, and scheduling of field crews  
Management of subsurface investigation projects and drilling activities  
Completion of written reports for hydrogeologic/environmental investigations

1985-1998 Project Manager/Senior Geologist  
***Earth Dimensions, Inc***  
***1091 Jamison Rd. Elma NY 14059***  
Project Management, designing/implementing hydrogeologic investigation  
Field investigations, drilling, sampling and rock coring.  
Geologic and hydrogeologic report writing  
Operations management of drill activities

1984-1985 Well Site Geologist  
***Technical Drilling Services***  
***Oklahoma City, Oklahoma***  
Served as a liaison between drilling operations in the field and the geology departments of major oil companies

1981-1984 Well Site Geologist  
***Core Laboratories***  
***Oklahoma City, Oklahoma***  
Mud Logger, gas monitoring, and reporting

1980-1981 Ice Core Sampler  
***State University of New York at Buffalo***  
***Ice Core Laboratories, Buffalo NY***  
Organization and computerization of core library  
Distribution of ice core samples to various universities throughout the U.S.



**Training/Certifications:**

OSHA 40-hour training with 8-hour annual refresher courses  
OSHA 10-hour Construction Operations training  
American Red Cross Safety training/CPR/First Responder  
Confined Space Entry

**Professional Affiliations:**

Buffalo Association of Professional Geologist

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- 1.2 Summary of Work
- 1.3 Summary of Environmental Conditions
- 1.4 Schedule
- 1.5 Major Components
  - Backfill Materials
  - Soil Screening Methods
  - Stockpile Methods
  - Materials Excavation and Load Out
  - Materials Transport Off-Site
  - Materials Disposal Off-Site
  - Dewatering Management
  - Monitoring & Reporting
  - Statement of Compliance

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- 2 Summary of Work
- 3 Project Schedule
- 4 Heavy Equipment Checklist
- 5 Sloping and Benching

### LIST OF APPENDICES

- A. NW Contracting Health & Safety Plan/Site Specific Safety Plan
- B. Qualified Environmental Professional Resumes

## 1.1 Notification

At least 15 days prior to the start of any activity that is reasonably anticipated to encounter remaining contamination, the site owner or NW Contracting will notify the Department. Currently, this notification will be made to

NYSDEC

Region 9

700 Delaware Avenue

Buffalo, New York 14209

Megan.Kuczka@dec.ny.gov

and

Colin Wasteneys, PG

Colin.wasteneys@aecom.com

Septic System Demo is currently scheduled to start on 8/26/24. See attached schedule for more information.

## **1.2 Summary of Work**

Wyoming County is looking to expand their existing fire training center. The project involves demolition of the existing fireman training center truck bays to make room for the new building addition. Attached is an areal map that details the work to be performed. The existing plumbing at the old building will be removed and a new plumbing layout will be constructed. To accommodate the new plumbing work, the county has elected to remove the existing septic system and replace it with a new system. (see Attachment 1). The County of Wyoming Fire Training Center Restoration Project is taking place within the boundaries of a NYS Inactive Hazardous Waste Site (Site Code #V-006049; "Site"). The Site is classified as "C" ("Closed"); fully remediated under the NYS Voluntary Cleanup Program. As such, none of the planned work will impact engineering controls. See Figure 2

## **1.3 Summary of Environmental Conditions**

Currently, based on historical analytical data and site history, the area within the site boundary for the restoration and expansion of the Fire Training Center is not in an area of known contamination. However, the site remains subject to a Site Management Plan ("SMP") dated June 2011, and amended April 2022.

All work performed will follow this site-specific Excavation Work Plan (EWP). Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Site Specific Safety Plan (SSSP) and Community Air Monitoring Plan (CAMP) prepared for the site. A SSSP is attached as Appendix A to this EWP that is in current compliance with DER-10, and 29 CFR

1910, 29 CFR 1926, and all other applicable Federal, State and local regulations. Any intrusive construction work will be performed in compliance with the EWP, SSSP and CAMP.

As soon as any contamination is indicated by visual, olfactory, or instrument-based soil screening, all work will immediately stop and the appropriate parties (i.e., the owner/Construction Manager, AECOM, NYSDEC) will be notified. Although, there is no known contamination in the proposed work area based on historical data, the potential contaminants based on site history include:

1,1,1-Trichloroethane	Benzene
1,1-Dichloroethane	Toluene
1,2-Dichloroethene (cis)	Ethylbenzene
Tetrachloroethene	Xylene
Trichloroethene	PFAS compounds including PFOA and PFOS
Vinyl chloride	

Once excavations are complete to the extents required by the contract, NW Contracting's QEP will determine the excavations are free of contaminants. Only when the QEP makes that determination will other trades (i.e., general trades, mechanical, electrical, plumbing) be allowed to perform work in the excavated areas.

#### **1.4 Schedule**

A detailed schedule of the work milestones and phases can be obtained from Campus Construction. A preliminary schedule is attached. In general, work will begin for this project on August 26, 2024. See Figure 3

#### **1.5 Major Components**

As described in the environmental conditions, based on historical analytical data and site history, the area within the site boundary for the restoration and expansion of the Fire Training Center is **not** in an area of known contamination. Contamination is not anticipated in the proposed work areas. If concentration levels of contaminants of concern, potential presence of grossly contaminated media, or odors are discovered when excavating, the DEC and supporting parties will be notified immediately.

### Backfill Materials

Native topsoil will be sampled in several locations on 8/8 and sent for testing per DER-10 and PFAS guidance. If the testing comes back clean, we will submit a re-use form to DEC and obtain their approval to re-use the existing topsoil. Once approval from DEC is obtained, we will strip and stockpile as shown on the drawings. If native topsoil cannot be re-used an alternative source will be submitted to DEC for approval. Sand and stone will be imported from Frey Sand & Gravel to construct the new septic system leach field and absorption trench. Campus Construction and WCDOH have already approved these submittals. Attached is the DEC import use forms for these materials.

No material will be imported unless approved by DEC prior

### Soil Screening Methods

Visual, olfactory and instrument-based soil screening will be performed at **ALL** times by NWC during excavating. NW Contracting's QEP will use a Mini Rae 3000 PID and a RAE 11.7 eV PID Lamp, to screen soils during excavation. Soil screening will be performed at all times during excavation to check for contamination, such as excavations for foundations and utility work. If the PID detects **any** contamination above 1 PPM, that soil will be segregated and covered. The materials that require off-site disposal, material that require testing, and material that can be re-used will be stockpiled and segregated accordingly. NWC will work with the facility and construction manager to find the appropriate stockpile locations on-site.

### Stockpile Methods

IF clean and approved by DEC, excavated topsoil will be segregated and stockpiled separately for re-use as shown. The piles will be reclaimed within 12 days as noted on the plans or stabilized and wrapped in silt fence. No other material stockpiling will take place for the septic tank (200 contract). All excavated soils / stone will be live loaded into a dump truck and taken to Waste MGT Chaffee. Inlet protection devices will be used as needed near catch basins, surface waters and other discharge points. The QEP will make sure these stockpiles always comply with the site SWPPP requirements. See SWPPP Certification.

### Materials Excavation and Load Out

NWC's QEP will be on site and oversee all intrusive excavation work and the excavation and load-out of all excavated materials. The owner of the property and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan. The presence of utilities and easements on the site will be marked by a third-party private locator hired by NWC. NWC will also call 811 DIG Safe and clear the excavation work area. Brice Reed Or Dale Gramza, (from NW Contracting) will be the QEP / competent person(s) on site. They will oversee the excavation and classify soil types. No excavation will be greater than 8' deep. See attached sloping and benching plan. No personnel will be allowed in an excavation over 4' deep. A truck wash will need to be operated on-site if truck wheels are in contact with contaminated materials. If applicable, the QEP will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving

the site until the activities performed under this section are complete. Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking. The owner of the property and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan. The QEP will be responsible for ensuring an implementing dust suppression of the site. Water trucks or water hoses will be used to mitigate the dust as needed.

#### Materials Transport Off-Site

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded. Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used. Trucks will be prohibited from stopping and idling in the neighborhood outside the project site. Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development. Queuing of trucks will be performed on-site to minimize off-site disturbance. Off-site queuing will be prohibited.

#### Materials Disposal Off-Site

The ultimate disposal location will be determined following evaluation of analytical results. On 8/8 NWC will obtain soil samples in the work area. Using a shovel we will take 4 grab samples of the native topsoil and combine them into 1 composite sample and run per DER-10 and PFAS guidance. We also take 2 extra grab samples of native topsoil and run those for just VOC's / SVOA's. If those results come back clean, we will stockpile the native topsoil for re-use after obtaining permission from DEC. If the topsoil is contaminated then pending approval, it will go to Waste MGT Chaffee Landfill. Also on 8/8, using a hand auger we will obtain a 1 grab sample from the existing septic leach field and 1 grab sample next to the existing septic tank and combine into 1 composite sample. That sample will be run per DER-10 and PFAS guidance as well. These sample results will then be sent to Waste MGT for landfill characterization / special profile to be set up. Waste MGT will take the material as long as its not HAZ Waste. Once the profile is approved we will begin our work on 8/26 or soon after. Actual disposal quantities, trucking logs, receipts, and associated documentations will be provided to the NYSDEC and Campus Construction for contract close-out. Documentation will include waste profiles, test results, facility acceptance letters, manifests, bills of lading and disposal facility receipts.



## Dewatering Management

At this time (summer 2024), it is not anticipated that we will encounter lots of groundwater at the site while excavating. The maximum excavation depth for the new septic tank system is 8' deep. Site history from the SMP indicates that we are working at or above the water tables as shown below. History also indicates the work area *should* be clean / uncontaminated soil. Should groundwater, rainwater or runoff water accumulate in the excavation, it will be pumped out using a 2" electric pump. All water will be pumped into a tank or tote on-site. Based on the amount of water in the excavation and the infiltration rate, the QEP will determine what size container is needed to store the water. Prior to excavating, NWC will have a 2,000 gallon poly tank on-site to containerize water if applicable. Space is limited to store a frac tank on site but if there is lots of groundwater, NWC will coordinate with Campus construction and the owner on where one could go. Depending on the amount of water, and the analytical results, will determine where the water will be disposed off. Water will be tested and disposed of per DEC requirements in accordance with SWP.

In accordance with the SMP, use of well water for drinking water purposes is prohibited at the WCFTC

See figure 1.

### Monitoring & Reporting

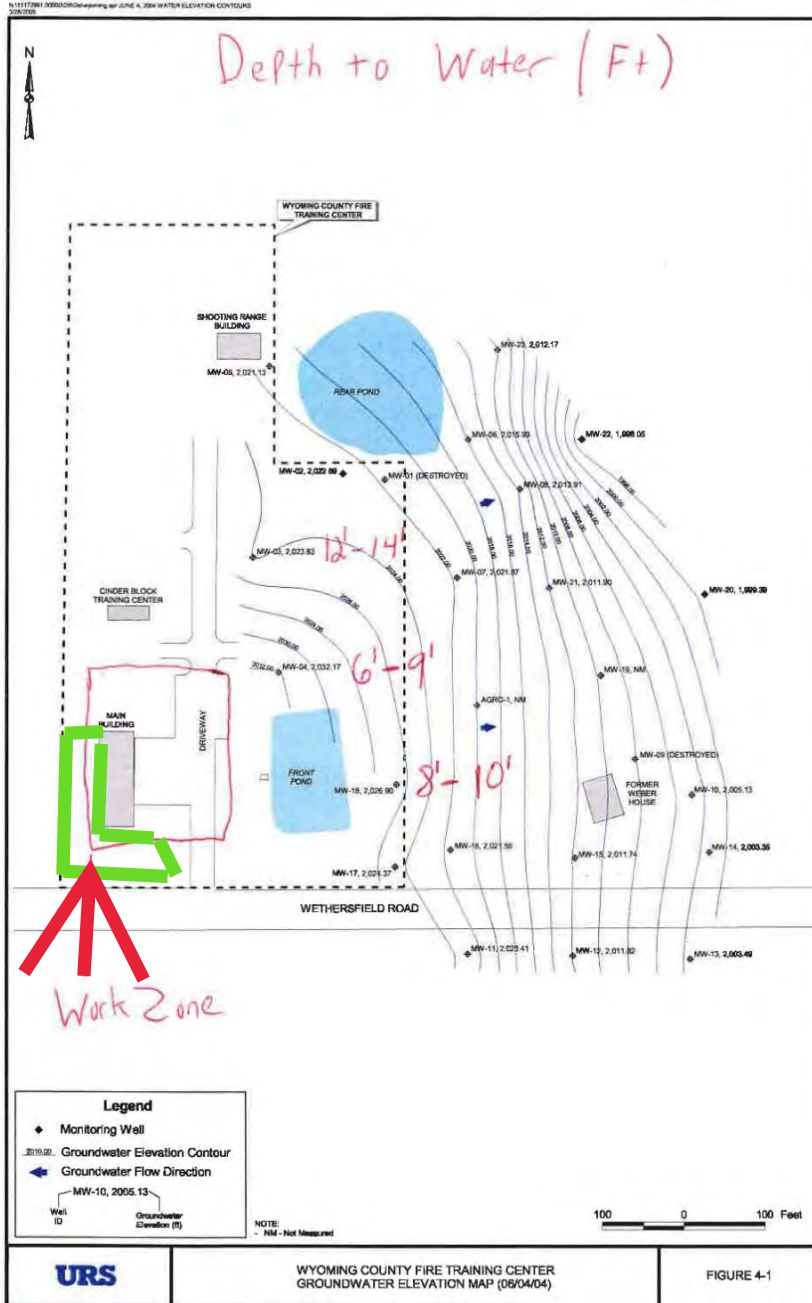
Forms and any other information generated during construction will be turned over to Campus Construction for their records. All forms and other relevant reporting formats used during the monitoring/inspection events will include:

- Sampling & analytical for groundwater & soil
- Air monitoring logs
- Chain of custody & manifests
- Heavy equipment checklists
- Daily observation reports

### Statement of Compliance

NW Contracting will perform all activities in compliance with this EWP and 29 CFR 1910.120, as applicable.

Figure 1

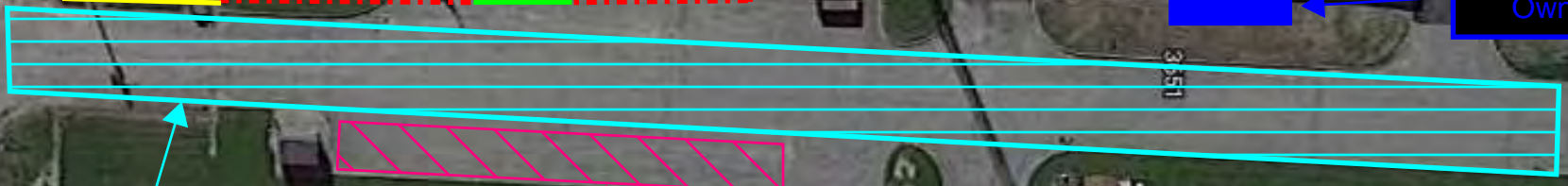
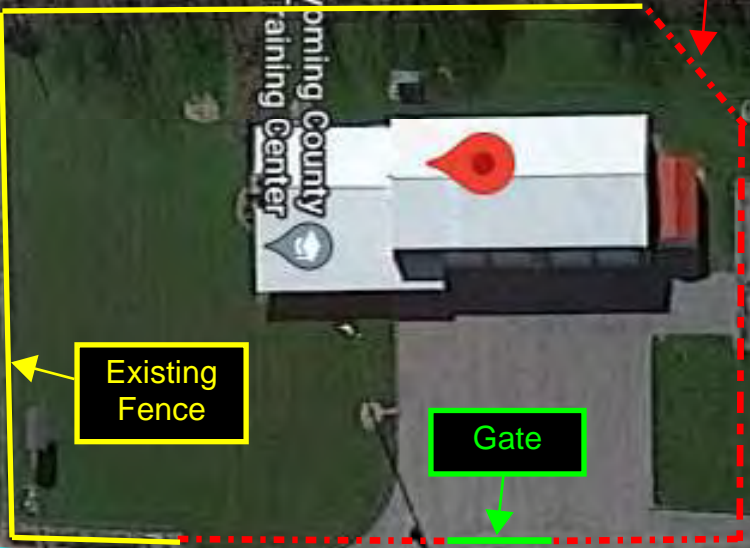


**Fire Training Center Site Logistics Plan**

General Trades Contractor (101) to provide temporary stanchion fencing and gate.

Owner's Existing/  
Occupied Storage  
Building.

Construction  
Manager's  
Jobsite  
Trailer by  
Owner.



Existing drive that needs  
to be clear at all times for the  
Owner's use of the property.

Contractor parking, storage and  
offices for the duration of the project.

Owner's Existing/  
Occupied Burn  
Tower.



Wethersfield Rd 32 32

Google

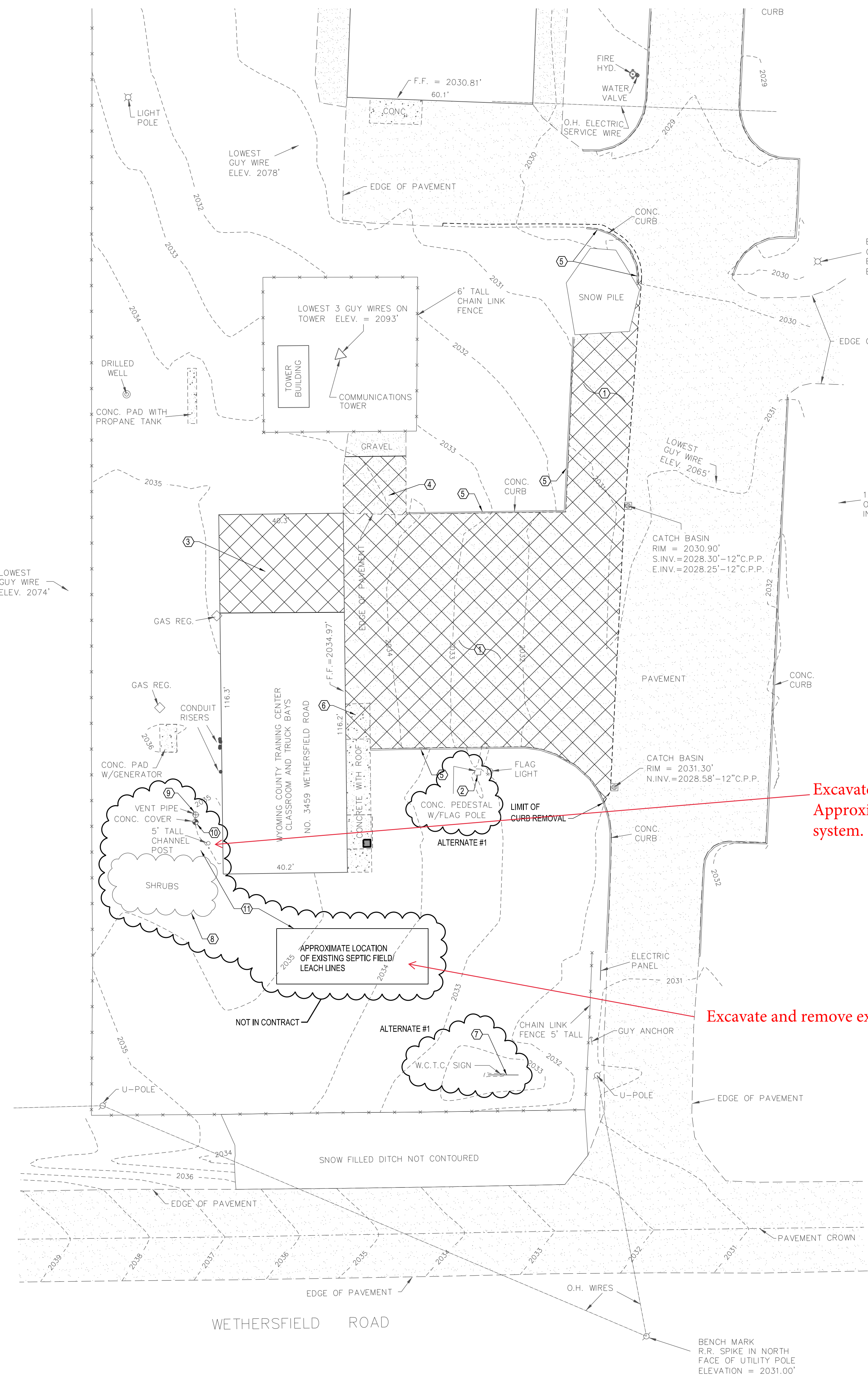


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CONSTRUCTION DOCUMENTS

DEMOLITION PLAN



Excavate and remove existing septic tank and accessories. Approximately 10 CY of excavation to remove old system.

Excavate and remove existing septic field. Approximately 50 CY

**DEMOLITION PLAN NOTES**

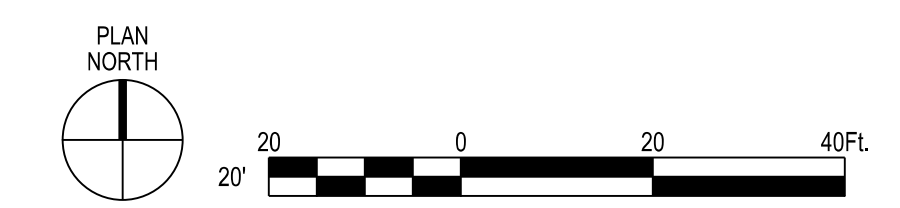
- CONTRACTOR TO REMOVE & DISPOSE OF ALL ITEMS INDICATED & ANY ITEMS INCIDENTAL TO THE CONSTRUCTION AS REQUIRED.
- CONTRACTOR SHALL PROTECT/PRESERVE ALL EXISTING ITEMS TO REMAIN, INCLUDING, BUT NOT LIMITED TO BUILDINGS, PAVEMENT, OVERHEAD & BURIED UTILITIES, TREES LANDSCAPING, ETC. DAMAGE TO ITEMS SCHEDULED TO REMAIN SHALL BE REPAIRED OR REPLANTED AT NO ADDITIONAL COST TO THE OWNER.
- UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL HAVE ALL UNDER-GROUND FACILITIES LOCATED AND MARKED PRIOR TO EXCAVATION/DEMOLITION/CONSTRUCTION.
- DISCONNECT, CAP AND REMOVE/ABANDON EXISTING UTILITIES FOR ALL BUILDINGS TO BE DEMOLISHED, UNLESS NOTED OTHERWISE. ALL UTILITY TERMINATIONS SHALL BE IN ACCORDANCE W/ THE APPLICABLE UTILITY COMPANY REQUIREMENTS.
- CONTRACTOR SHALL LEGALLY DISPOSE OF ALL MATERIALS/DEBRIS REMOVED FROM THE SITE.
- CONTRACTOR TO OBTAIN HIGHWAY WORK PERMIT PRIOR TO THE START OF CONSTRUCTION. CALL FOR STAKEOUT OF UTILITIES BEFORE STARTING WORK. NOTIFY ENGINEER OR OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES FOUND IN THE FIELD.
- THIS PLAN IS PREPARED FROM A SURVEY SHOWING KNOWN SURFACE FEATURES. IT IS INTENDED AS A GUIDE TO THE CONTRACTOR, NOT AS A COMPLETE AND UNIVERSAL DEMOLITION PLAN. SEE THE SITE PLAN. MORE FEATURES (NOT INDICATED) MAY REQUIRE DEMOLITION TO CONSTRUCT THE SITE PLAN. CONTRACTOR MUST VISIT THE SITE TO CONFIRM DEMOLITION EFFORT PRIOR TO BIDDING.
- REMOVE CONCRETE SIDEWALK AND/OR PAVEMENT TO THE LIMITS INDICATED. SAW CUT CONCRETE TO THE NEAREST EXISTING CONTROL/EXPANSION JOINT.
- BUILDING DEMOLITION SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS/REGULATIONS.
- MAINTAIN STORM SEWER CONTINUITY & POSITIVE DRAINAGE DURING DEMOLITION, REMOVAL & CONSTRUCTION OF STORM SEWERS & INLETS.

**DEMOLITION PLAN SHEET KEYNOTES**

- REMOVE EXISTING ASPHALT PAVEMENT & SUBBASE
- REMOVE EXISTING FLAGPOLE (ALTERNATE #1)
- PORTION OF EXISTING BUILDING TO BE DEMOLISHED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- REMOVE EXISTING GRAVEL
- REMOVE CONCRETE CURB
- REMOVE CONCRETE
- REMOVE EXISTING SIGN (ALTERNATE #1)
- REMOVE VENT PIPES
- REMOVE VENT PIPE
- REMOVE CONCRETE STRUCTURE
- REMOVE EXISTING SEPTIC TANK AND LEACH LINES

**DEMOLITION PLAN LEGEND**

- CONCRETE/ASPHALT PAVEMENT TO BE REMOVED
- ITEM TO BE REMOVED
- SAWCUT LINE



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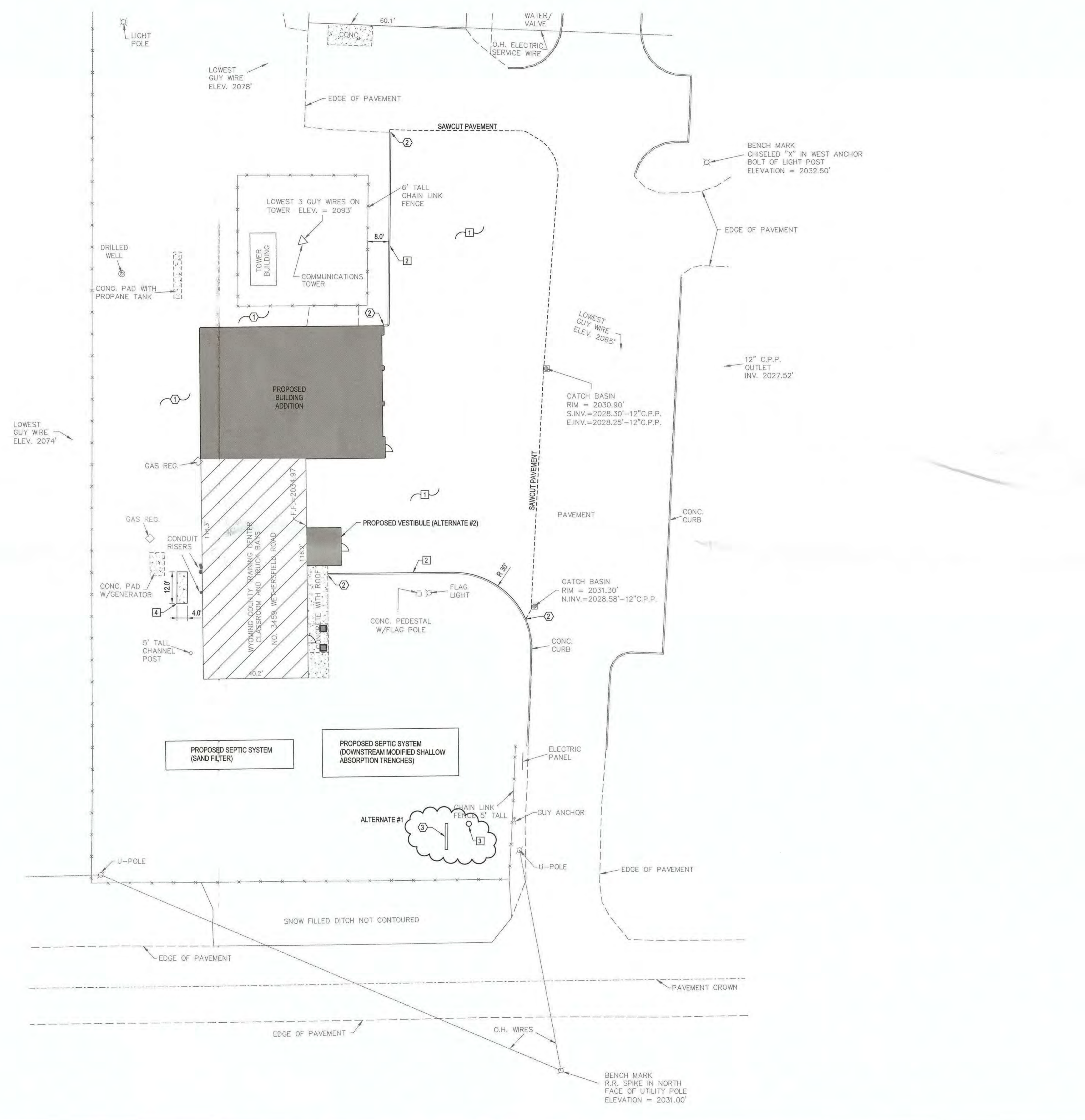
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 Wyoming County Health Dept.  
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 ARCHITECTS | PLANNERS  
 INTERIORS | LANDSCAPE DESIGN  
 143 Genesee Street  
 Buffalo, New York 14203  
 716.249.3837 | kidney.com



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 FIRE TRAINING  
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 3459 Wethersfield Road,  
 Gainesville, New York



**SITE PLAN NOTES**

1. SURVEY INFORMATION WAS PROVIDED BY JOHN F. GILLEN, LAND SURVEYOR DATED 3/24/2023. C&S ENGINEERS, INC. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.
2. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS AND UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION. CONTACT THE ENGINEER WITH ANY DISCREPANCIES FOUND IN THE FIELD.
3. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND LAYOUT.

**SITE PLAN DETAIL LEGEND**

- 1 ASPHALT PAVEMENT SECTION - SEE DETAIL SHEET C501
- 2 CONCRETE CURB - SEE DETAIL SHEET C501
- 3 FLAGPOLE (ALTERNATE #1) - SEE DETAIL SHEET C501
- 4 EXTERIOR CONCRETE SLAB ON GRADE - SEE DETAIL SHEET C501

**SITE PLAN SHEET KEYNOTES**

- 1 4" TOPSOIL & SEED
- 2 MATCH EXISTING CURB OR RUN OUT IN 2'-0"
- 3 PROPOSED SIGN (ALTERNATE #1) - REFER TO ARCHITECTURAL DRAWINGS.

**SITE PLAN PROPOSED LEGEND**

- PROPOSED CURB
- ⌣ DOOR LOCATION
- E.P. EDGE OF PAVEMENT
- LIGHTING FIXTURES
- - - SAW CUT LINE

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CONSTRUCTION DOCUMENTS	SITE PLAN
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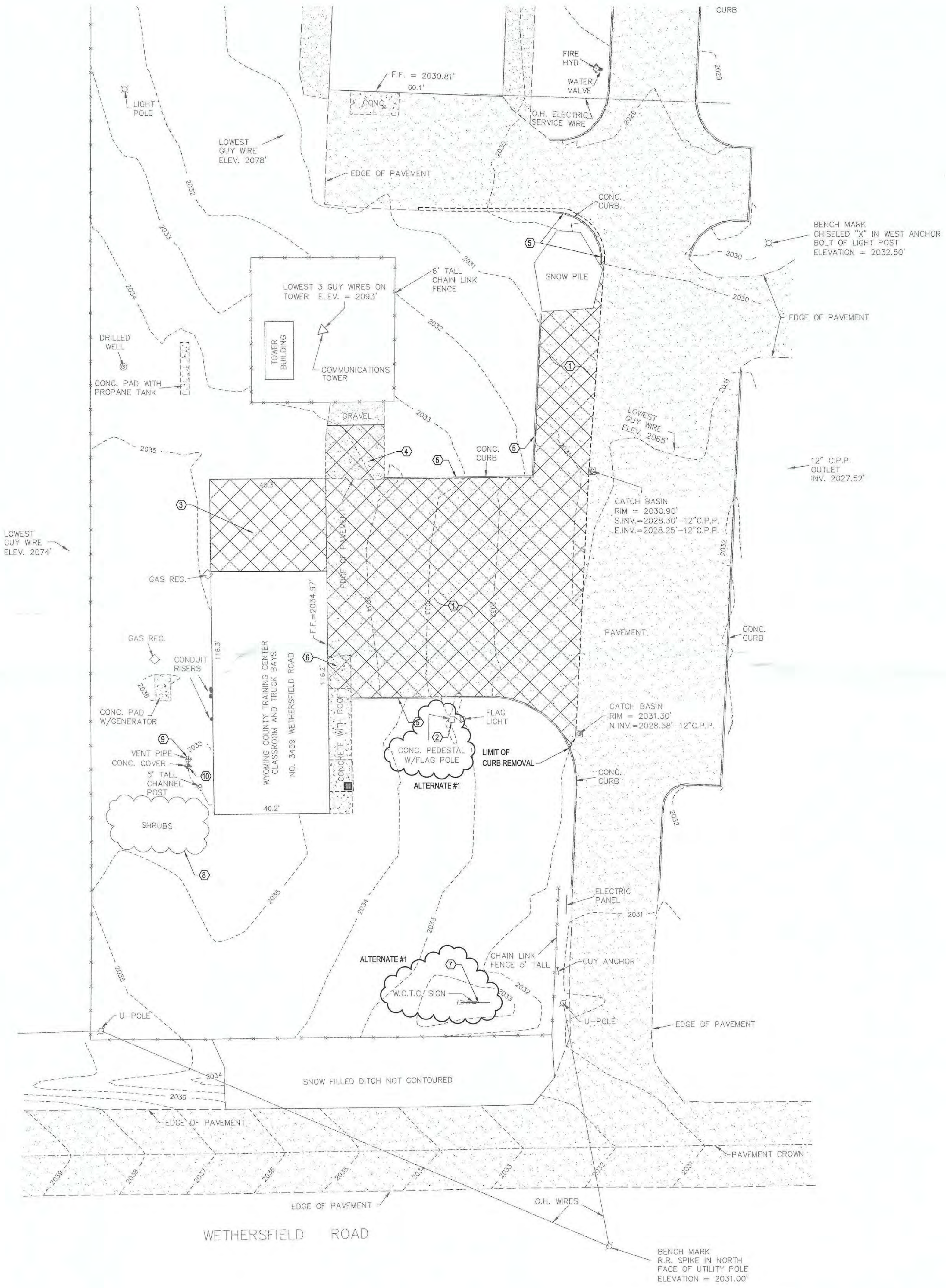
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**C-101**  
 DRAWING NO.



**C&S COMPANIES**  
 C&S Engineers, Inc.  
 141 Elm Street, Suite 100  
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 Phone: 716-847-1630  
 Fax: 716-847-1454  
 www.cscos.com

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CONSTRUCTION DOCUMENTS  
 DEMOLITION PLAN

**DEMOLITION PLAN NOTES**

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10. MAINTAIN STORM SEWER CONTINUITY & POSITIVE DRAINAGE DURING DEMOLITION, REMOVAL & CONSTRUCTION OF STORM SEWERS & INLETS.

**DEMOLITION PLAN SHEET KEYNOTES**

- ① REMOVE EXISTING ASPHALT PAVEMENT & SUBBASE
- ② REMOVE EXISTING FLAGPOLE (ALTERNATE #1)
- ③ PORTION OF EXISTING BUILDING TO BE DEMOLISHED. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- ④ REMOVE EXISTING GRAVEL
- ⑤ REMOVE CONCRETE CURB
- ⑥ REMOVE CONCRETE
- ⑦ REMOVE EXISTING SIGN (ALTERNATE #1)
- ⑧ REMOVE SHRUBS
- ⑨ REMOVE VENT PIPE
- ⑩ REMOVE CONCRETE STRUCTURE

**DEMOLITION PLAN LEGEND**

- CONCRETE/ASPHALT PAVEMENT TO BE REMOVED
- ITEM TO BE REMOVED
- SAWCUT LINE

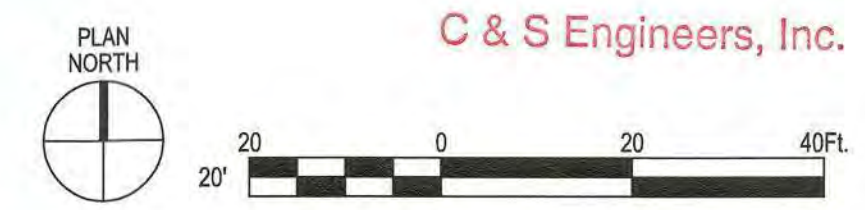
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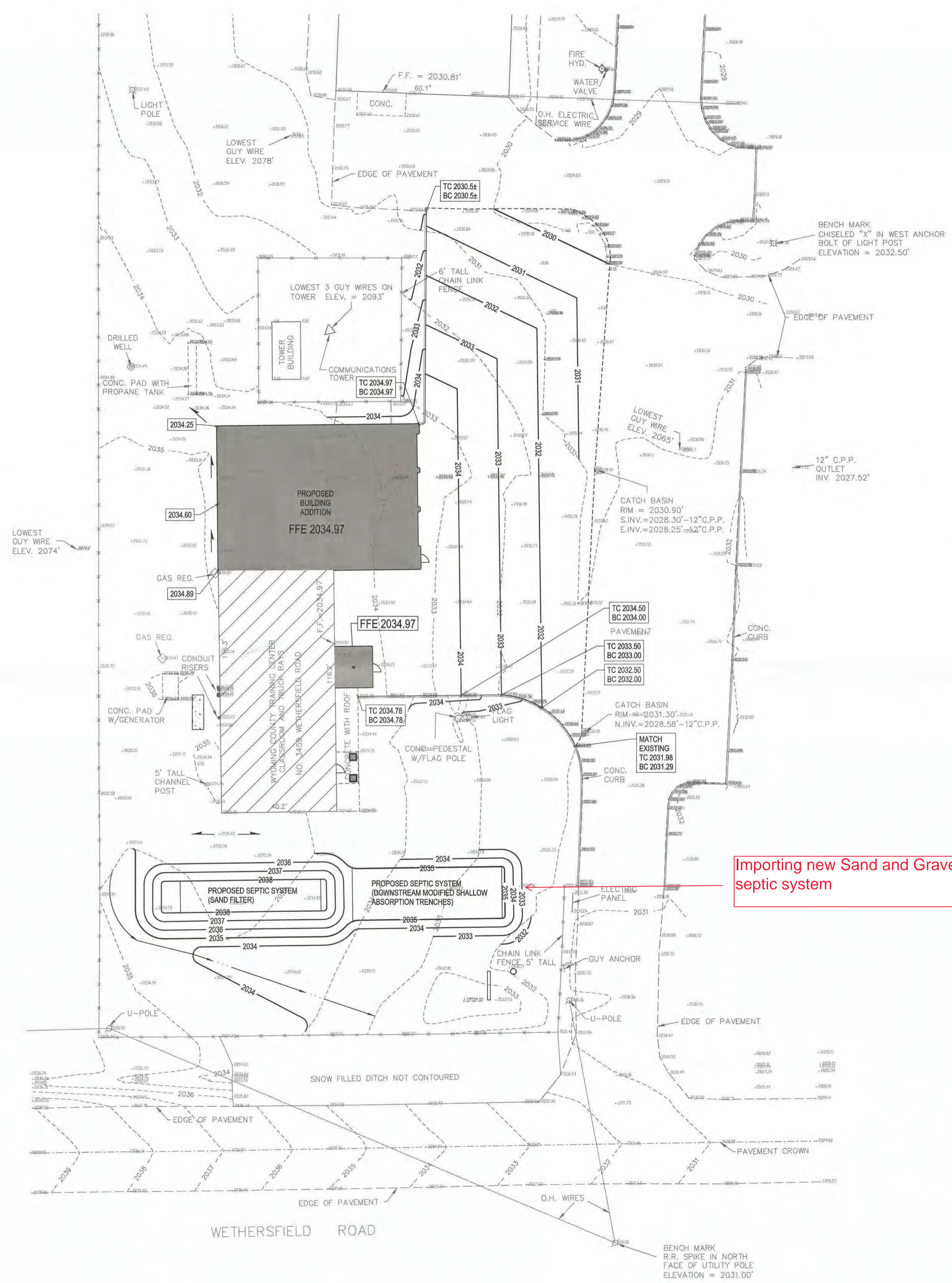
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**C-102**  
 DRAWING NO.



**GRADING PLAN LEGEND**

-----	PROPERTY LINE
=====	PROPOSED CURB
.....	EXISTING POINT ELEVATION
2034.60	PROPOSED POINT ELEVATION
--- 2034 ---	EXISTING CONTOUR
----- 2030 -----	PROPOSED CONTOUR
TC	TOP OF CURB
BC	BOTTOM OF CURB
HP	HIGH POINT
→	FLOW DIRECTION

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CONSTRUCTION DOCUMENTS  
 SITE & UTILITY DETAILS

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**C-502**  
 DRAWING NO.

**PRODUCT DESIGNATION**  
 2'-0" X 2'-0" UTILITY TANK

**DWG. NO.**  
 ST-ST22UT  
 3-14-07

**SPECIFICATIONS:**  
 CONCRETE: 4,000 P.S.I. @ 28 DAYS.  
 ENTRAINED AIR: 5% - 9%.  
 STEEL: A.S.T.M. A496-A615 GRADE 60-60 KSI.  
 DESIGN LOADING: A-0.3/300PSF/WALKWAYS.

**WEIGHTS:**  
 2' X 2' UTILITY PLUG COVER: 70 LBS.  
 TOP SECTION: 1' - 300 LBS.  
 2' - 455 LBS.  
 3' - 612 LBS.  
 BOTTOM SECTION: 3' - 612 LBS.

**WATER CAPACITY:**  
 2' WATER = 5.58 CU. FT. = 43 GAL.  
 3' WATER = 8.35 CU. FT. = 64 GAL.  
 4' WATER = 11.16 CU. FT. = 75 GAL.  
 5' WATER = 13.95 CU. FT. = 86 GAL.  
 6' WATER = 16.67 CU. FT. = 107 GAL.  
 GPF = 21.5 GAL.

**NOTE:** 1.2 CUBIC YARDS OF CONCRETE SHALL BE ADDED AROUND PERIMETER OF UTILITY TANK TO COUNTERACT BUOYANCY.

**NOTE:** TOP SECTIONS MAY BE STACKED FOR ADDITIONAL HEIGHT.

**PRODUCT DESIGNATION**  
 1000 GALLON SEPTIC TANKS - TWO COMPARTMENT

**DWG. NO.**  
 ST-ST1000-II  
 6-3-14

**SPECIFICATIONS:**  
 CONCRETE: 4,000 P.S.I. @ 28 DAYS.  
 ENTRAINED AIR: 5% - 9%.  
 STEEL: A.S.T.M. A496-A615 GRADE 60-60 KSI.  
 DESIGN LOADING: A-0.3/300PSF/WALKWAYS. FLOTATION FORCES NOT ACCOUNTED FOR.

**WEIGHTS:**  
 TOP SECTION: 4,066 LBS.  
 BOTTOM SECTION: 3,859 LBS.  
 TOTAL: 7,925 LBS.

**OUTLET BAFFLE:** PIPE BAFFLE BY K.C.P.

**OPTIONAL ITEMS:** EFFLUENT FILTER, GAS DEFLECTOR

**COVER OVER TANKS:** MAX. 3' OF EARTH FILL.

**NOTE:** 12.6 CUBIC YARDS OF CONCRETE SHALL BE ADDED AROUND PERIMETER OF SEPTIC TANK TO COUNTERACT BUOYANCY.

**TYPICAL BURIED INTERMITTENT SAND FILTER**  
 N.T.S.

**PERMEABLE GEOTEXTILE OR EQUIVALENT**

**6"-12" TOPSOIL**

**2" AGGREGATE (OVER PIPE)**

**4" AGGREGATE/PERF. PVC DISTRIBUTION PIPE**

**2" AGGREGATE (BELOW PIPE)**

**24" (MIN) SAND MEDIA**  
 WITH NITRIFICATION: 0.25 - 1.0mm  
 WITHOUT NITRIFICATION: 0.5 - 1.0mm  
 UNIFORMITY COEFFICIENT ≤ 4.0, ALL SAND SHALL PASS #14 INCH SIEVE

**3" OF 1/8" - 1/4" CRUSHED STONE OR CLEAN GRAVEL**

**4" AGGREGATE (OVER PIPE)**

**4" AGGREGATE/PERF. PVC COLLECTOR PIPE**

**2" AGGREGATE (BELOW PIPE)**

**≥ 24" ABOVE HIGH GROUNDWATER**

**GENERAL NOTES:**  
 1. ALL STRUCTURES (SEPTIC TANKS, DISTRIBUTION BOXES) SHALL HAVE BEDDING MATERIAL CONSISTING OF THE FOLLOWING: 12" MIN. COMPACTED CLASS 1, NO. 1 STONE

2. ALL TANKS SHALL BE WATERTIGHT AND SHALL BE WATER-PRESSURE TESTED AND CERTIFIED TO BE WATERTIGHT AFTER INSTALLATION AND PRIOR TO BACKFILLING PER ASTM STANDARDS C1227 FOR SEPTIC TANKS.

3. KISTNER DETAILS ARE SHOWN FOR BASIS OF DESIGN. ACCEPTABLE EQUALS ARE ALLOWED.

Native topsoil will be stripped and stockpiled for 8-12 days and then re-used. Pre-Construction samples will be taken of the existing topsoil before stripping and a DEC -Re-USE form will be sent to DEC for approval.

**DOWNSTREAM "MODIFIED" SHALLOW ABSORPTION TRENCH SYSTEM**  
 N.T.S.

**PERMEABLE GEOTEXTILE, UNTREATED BUILDING PAPER OR 4" OF STRAWHAY OVER AGGREGATE (TYP.)**

**6" MIN. TOPSOIL SEED**

**34" TO 1-1/2" WASHED AGGREGATE (TYP.)**

**24" (TYP.)**

**6" MIN. UNSATURATED SOIL**

**6" MIN. UNSATURATED USEABLE SOIL PERCOLATION RATE 1 - 60 MINUTES/INCH**

**NOTES:**  
 1. SUFFICIENT SOIL, SIMILAR TO THE INSITU PERMEABLE SOIL SHALL BE PROVIDED TO ASSURE A TRENCH DEPTH OF AT LEAST 18 INCHES WITH A MINIMUM ONE (1) FOOT DEPTH OF AGGREGATE FILLED SIDEWALL CONTACTING PERMEABLE SOIL AND AT LEAST 6 INCHES OF AGGREGATE FILLED SIDEWALL IN THE PERMEABLE INSITU SOIL.

2. TRENCHES SHALL BE LOCATED AT LEAST 20 FEET FROM DRAINAGE DITCHES.

3. TRENCHES SHOULD BE AS LONG AS POSSIBLE TO MINIMIZE PARALLEL TRENCHES.

4. DISTRIBUTOR LENGTH SHALL NOT EXCEED 60 FEET FOR GRAVITY FLOW AND 100 FEET FOR PRESSURE DISTRIBUTION.

5. SEE SITE PLAN FOR SYSTEM PIPE LENGTHS AND DIMENSIONS.

**PRODUCT DESIGNATION**  
 5 OUTLET ECONOMY DISTRIBUTION BOX

**DWG. NO.**  
 DB-DB5  
 5-31-86

**SPECIFICATIONS:**  
 CONCRETE: 4,000 P.S.I. @ 28 DAYS.  
 ENTRAINED AIR: 5% - 9%.  
 STEEL: A.S.T.M. A496-A615 GRADE 60-60 KSI.  
 DESIGN LOADING: A-0.3/300PSF/WALKWAYS.

**WEIGHTS:**  
 BASE WEIGHT: 58 LBS.  
 COVER WEIGHT: 18 LBS.  
 TOTAL WEIGHT: 76 LBS.

**NOTE:** BAFFLE REQUIRED ONLY WHEN SLOPE FROM TANK TO BOX EXCEEDS 1/2 INCH/FT. OR WHEN SIPHON DOSING IS USED. IN THOSE CASES USE DB6.

**NOTE:** SPEED LEVELING DEVICES SHALL BE PROVIDED ON EACH OUTLET.

**PRODUCT DESIGNATION**  
 7 OUTLET ECONOMY DISTRIBUTION BOX

**DWG. NO.**  
 DB-DB7  
 5-31-86

**SPECIFICATIONS:**  
 CONCRETE: 4,000 P.S.I. @ 28 DAYS.  
 ENTRAINED AIR: 5% - 9%.  
 STEEL: A.S.T.M. A496-A615 GRADE 60-60 KSI.  
 DESIGN LOADING: A-0.3/300PSF/WALKWAYS.

**WEIGHTS:**  
 BASE WEIGHT: 84.4 LBS.  
 TOP WEIGHT: 26.9 LBS.  
 TOTAL WEIGHT: 111.3 LBS.

**NOTE:** BAFFLE REQUIRED ONLY WHEN SLOPE FROM TANK TO BOX EXCEEDS 1/2 INCH/FT. OR WHEN SIPHON DOSING IS USED. IN THOSE CASES USE DB6.

**SANITARY SEWER TRENCH SECTION**

**SEE TYPICAL PAVEMENT SECTION**

**SUFFICIENT EXCESS BACKFILL TO ALLOW FOR SETTLING**

**GROUND LEVEL**

**INSTALL TRACER TAPE 18" BELOW FINISH GRADE**

**COMPACTED NYS DOT TYPE II SUBBASE STONE**

**6" MIN. COVER**

**VARIABLES**

**6" MIN. BEDDING**

**PIPE SIZE VARIES - SEE PLAN**

**PIPE I.D. + 2'-0"**

**NATIVE EARTH BACKFILL**

**PIPE BEDDING MATERIAL NYS DOT #1 STONE**

**UNDISTURBED EARTH**

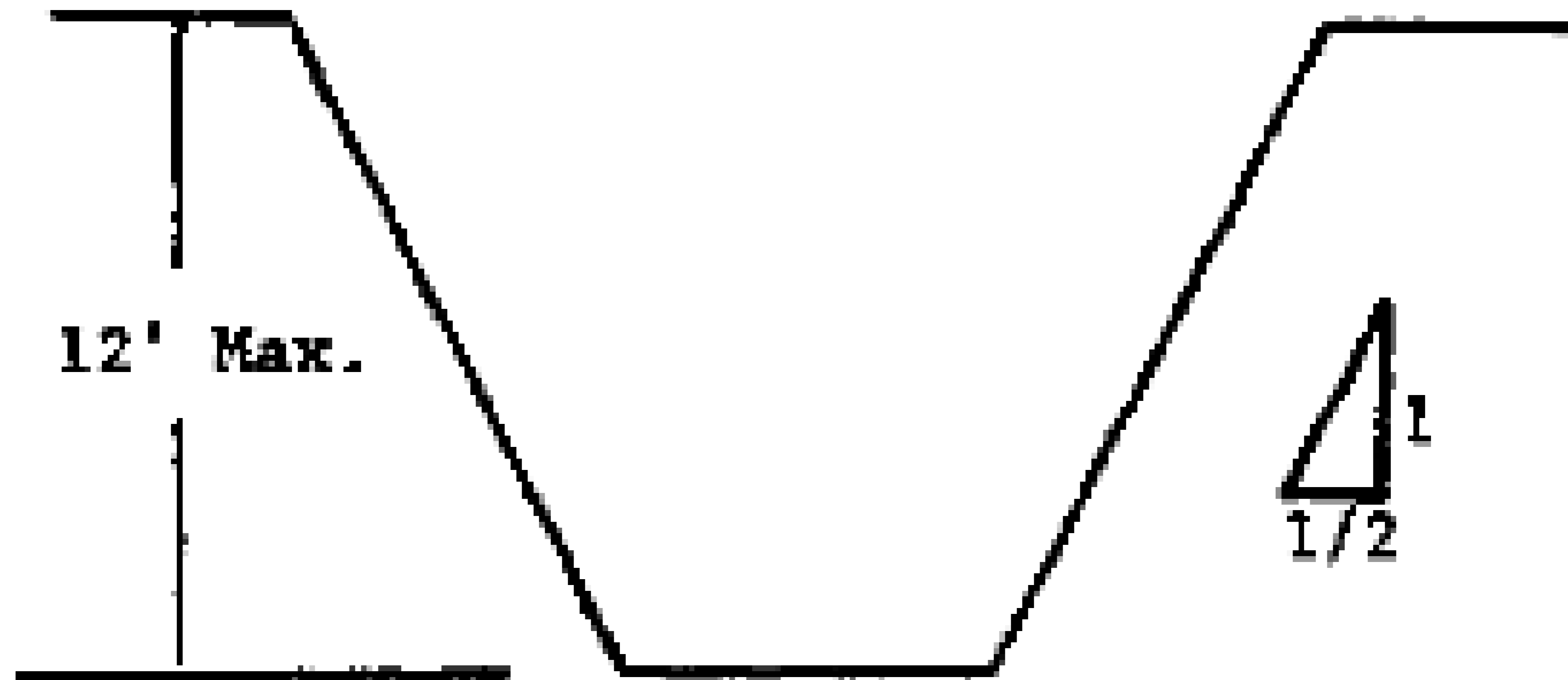
Appendix B to Subpart P of Part 1926—Sloping and Benching

(a) Scope and application. This appendix contains specifications for sloping and benching when used as methods of protecting employees working in excavations from cave-ins. The requirements of this appendix apply when the design of sloping and benching protective systems is to be performed in accordance with the requirements set forth in § 1926.652(b)(2).

SIMPLE SLOPE--GENERAL

Exception: Simple slope excavations which are open 24 hours or less (short term) and which are 12 feet or less in depth shall have a maximum allowable slope of 1/2:1.

The plan is to excavate the new septic tank and pump station pit quickly. Once excavation limits are achieved, we will pump out any water that has accumulated. Then we will install the bedding stone and immediately install the new equipment. We will follow this up with backfilling the structure to the top with clean stone on all sides. NO PERSON will ever be allowed to enter the excavation. The QEP will determine if 1 / 1/2 slope is sufficient with the type of soils on-site. If required by the QEP a greater slope will be constructed. No excavation over 2' will be open for more than 1 hour.





# VEHICLE/HEAVY EQUIPMENT PRE-USE INSPECTION CHECKLIST

GENERAL EQUIPMENT INFORMATION	
1. INCIDENT NAME/NO.	2. RESOURCE ORDER NO.
3. CONTRACTOR NAME	
4. AGREEMENT NO.	5. EXPIRATION DATE
6. MAKE/MODEL	7. EQUIPMENT TYPE
8. VIN/SERIAL NO.	9. LICENSE NO./STATE

Section I—HEAVY EQUIPMENT	Acceptable	
	YES	NO
1. ROPS, roll-over protection system: Manufacturer-approved system secured to mainframe of tractor. Must include approved seat belts. *		
2. Gauges and lights: mounted and function properly. *		
3. Battery: check for corrosion, loose terminals, and hold downs.		
4. Engine running: check oil pressure, knocks and leaks.		
5. Sweeps, deflectors, safety screens <del>to be checked</del> *		
6. Steering components: tight, free of play. *		
7. Brakes: damaged, worn or out of adjustment. *		
8. Exhaust system: equipped with a USFS-qualified spark arrester unless turbocharged. *		
9. Fuel system: free of leaks and damage. *		
10. Cooling system: full, free of leaks and damage. *		
11. Fan and fan belts: check for proper tension. No fraying/cracks.		
12. Engine support, equalizer bar, springs, main springs: check shackle bolts, shifted spring leaf. *		
13. Belly plate, radiator guards: securely mounted and free from debris. *		
14. Final drive, transmission and differential: check for dripping.		
15. Sprocket and idlers: crack in spokes, sharp sprocket teeth, no welds.		
16. Tracks and rollers: no broken pads, loose rollers, broken flanges. <del>to be checked</del> *		
17. Dozer and assembly: trunnion bolts missing, cracks. *		
18. Rear hitch (drawbar): serviceable, safe.		
19. Body and cab condition: describe dents and damage.		
20. Equipment cleanliness: all areas free of flammable materials, noxious weeds, and invasive species.		
21. All hydraulic attachments: operate smoothly and all cylinders hold at extension; hose, lines, and pumps have no excessive wear and/or leaks.		
22. Backup or travel alarm (minimum 87 db). *		
23. Oil level and condition: full and clean.		

Section II—ATTACHMENTS/PUMP/CHAINSAW/OR OTHER (Specify)	Acceptable	
	YES	NO
1. No missing/broken components, no loose hardware.		
2. Sufficient fluid levels (oil, coolant, etc.)		
3. Cutting bar: straight, chain in good condition.		
4. Cutting teeth: sharp, good repair.		
5. Pump: builds pressure, no water or oil leaks.		
6. Engine starts, idles, and shuts off with switch.		

Section V—REMARKS
(Describe all unsatisfactory items and identify by line number)

10. PRE-USE INSPECTION		
<input type="checkbox"/> Accepted <input type="checkbox"/> Rejected		
MILES/HRS _____	DATE _____	TIME _____
Inspector's printed name _____		Title _____
Inspector's signature _____		

Section III—LIABILITY
The purpose of this checklist is to document pre-existing vehicle/equipment condition and to determine suitability for incident use. I hereby acknowledge full responsibility and liability for the operation and mechanical condition of the vehicle/equipment described herein.
Operator's printed name _____ Title _____
Operator's signature _____ Date _____

Section IV—TRANSPORT OR SUPPORT VEHICLES	Acceptable	
	YES	NO
1. "DOT" or CVSA inspection in the last 12 months (if required). *		
2. Gauges and lights: mounted and function properly. *		
3. Seat belts: operate properly for each seating position. *		
4. Glass and mirrors, no cracks in vision. *		
5. Wipers, washers, and horn operate properly. *		
6. Clutch pedal: proper adjustment (if applicable).		
7. Cooling system: full, free of leaks and damage.		
8. Fluid levels (e.g. oil) and condition: full and clean.		
9. Battery: check for corrosion, loose terminals and hold downs.		
10. Fuel system: free of leaks and damage. *		
11. Electrical system: alternator and starter work.		
12. Engine running: check oil pressure, knocks, and leaks.		
13. Transmission: check for leaks.		
14. Steering components: tight, free of play. *		
15. Brakes: damaged, worn or out of adjustment. *		
16. 4-Wheel drive: check transfer case, leaks (if applicable).		
17. Drive line U-joints: check for looseness.		
18. Suspension systems: springs, shocks, other. *		
19. Differential(s): check for leaks.		
20. Exhaust system: no leaks under cab or before turbo. *		
21. Frame condition, body/bed properly attached. *		
22. Tires/wheels (including spare and all changing equipment) sufficient load rating, tread depth, no major damage. *		
23. Body and interior condition: describe and locate damage on back of page 3, Section IV, item 23.		
24. Emergency equipment required. *		
Fire extinguisher _____ Spare fuses _____ Reflectors _____		
25. Operator(s) properly licensed. † Expiration Date _____		
State _____ License No _____ Class _____		
Endorsement _____ Med. Cert. Expiration Date _____		

11. RELEASE
<input type="checkbox"/> No Damage/No Claim
MILES/HRS _____ DATE _____ TIME _____
Operator's printed name _____ Title _____
Operator's signature _____ Date _____
Inspector's printed name _____ Title _____

Contractor \_\_\_\_\_ Resource Order No. \_\_\_\_\_

## Section IV - Transport and Support Vehicles

Motor vehicle parts and accessories must be in Safe Operating Condition At All Times, FEDERAL MOTOR CARRIER SAFETY ADMINISTRATION (FMCSA) as prescribed by U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION PARTS 393 & 396, and NORTH AMERICAN UNIFORM OUT-OF-SERVICE CRITERIA, COMMERCIAL VEHICLE SAFETY ALLIANCE (CVSA).

**REJECT IF: Parts and accessories covered in FMCSR part 393, 396 and/or CVSA North American Uniform Out-of-service Criteria are not in safe and proper operating conditions at all times. These include, but are not limited to the parts and accessories listed below.**

### 2. Gauges and Lights (393.82, 393.11)

- ◆ Speedometer inoperative.
- ◆ All required lighting devices, reflectors and electrical equipment must be properly positioned, colored and working.

### 3. Seat Belts (393.93)

- ◆ Any driver or right outboard seat belt missing or inoperative.

### 4. Glass and Mirrors (393.60, 393.80)

- ◆ Any discoloration not applied by the manufacturer for reduction of glare.
- ◆ Any windshield crack over 1/4" wide.
- ◆ Any crack less than 1/4" wide that intersects with any other crack.
- ◆ Any damage 3/4" or greater in diameter.
- ◆ Any 2 damaged areas closer than 3" to each other.
- ◆ Any required mirror missing. One on each side, firmly attached to the outside of the vehicle, and so located as to reflect to the driver a view of the highway to the rear along both sides of the vehicle.
- ◆ Any required mirror broken.

### 5. Wipers and Horn (393.78, 393.81)

- ◆ Wiper blade(s) fail to clean windshield within 1" of windshield sides.
- ◆ Horn missing, inoperative or fails to give adequate/reliable warning signal.

### 10. Fuel System (393.65, 393.67)

- ◆ Fuel tank not securely attached to vehicle by reason of loose, broken or missing mounting bolts or brackets.
- ◆ Visible leak at any point.
- ◆ Fuel tank cap missing.

### 14. Steering (393.209)

- ◆ Steering wheel does not turn freely, has any spokes cracked through or is missing any parts.
- ◆ Steering lash not within parameters, see chart in FMCSA 393.209.
- ◆ Steering column is not secure.
- ◆ Steering system; any U-joint worn, faulty or repaired by welding.
- ◆ Steering gear box is loose, cracked or missing mounting bolts.
- ◆ Pitman arm is loose, or has any welded repairs.
- ◆ Power Steering; any component is inoperative. Any loose, broken or missing parts. Belts frayed, cracked or slipping.
- ◆ Any fluid leaks, fluid reservoir not full.

### 15. Brakes (393.40-393.55)

- ◆ Brake system has any deficiencies as described in FMCSA.
- ◆ Brake system has any missing, loose, broken, out of adjustment or worn out components.
- ◆ Brake system failure warning device missing, inoperative, or fails to give adequate warning.
- ◆ Brake system has any air or fluid leaks.

### 18. Suspension Systems (393.207)

- ◆ Any axle positioning part is cracked, broken, loose or missing. All axles must be in proper alignment.
- ◆ Any leaf spring cracked, broken, missing or shifted out of position.
- ◆ Adjustable axle assemblies with locking pins missing or not engaged.

### 20. Exhaust (393.83)

- ◆ Any part of the exhaust system so located as would be likely to result in charring, burning, or damaging the wiring, fuel supply or any combustible part of the vehicle.
- ◆ Bus exhaust leaks or discharge forward of the rearmost part of the bus in excess of 6" for Gasoline powered or 15" for other than Gasoline powered, or forward of any door or window designed to be opened on other than a Gasoline powered bus. (Exception: emergency exit).
- ◆ Any leak at any point forward of or directly below the driver and/or sleeper compartment.

### 21. Frame (393.201)

- ◆ Any cracked, broken, loose or sagging frame member.
- ◆ Any loose or missing fasteners including those attaching engine, transmission, steering gear, suspension, body, and fifth wheel.
- ◆ Any condition that causes the body or frame to contact the tire or wheel assemblies.

### 22. Tires and Wheels (393.75, 393.205)

- ◆ Any body ply or belt material exposed through tread or sidewall.
- ◆ Any tread or sidewall separation.
- ◆ Any cut exposing ply or belt material.
- ◆ Tread depths less than 4/32" on steering axle.
- ◆ Less than 2/32" on any other axle.
- ◆ Any bus with regrooved, recapped, or retreaded tires on the front wheels.
- ◆ Any tire not properly inflated or any overloaded tire.
- ◆ Any tire that comes in contact with any part of the vehicle.
- ◆ Any tire marked "Not for Highway Use".
- ◆ Wheels or rims shall not be cracked or broken.
- ◆ Stud or bolt holes on the wheels shall not be elongated.
- ◆ Nuts or bolts shall not be missing or loose.

### 24. Emergency Equipment (393.95)

- ◆ Every power unit must be equipped with a fire extinguisher that is properly filled and readily accessible for use.
- ◆ Spare fuses or other overload protective device.
- ◆ Warning devices for stopped vehicles.

### 25. License (383.23, 391.41)

- ◆ No person shall operate a commercial motor vehicle unless such person has passed written and driving tests which meet the Federal Standards for the commercial motor vehicle that person operates.
- ◆ Persons shall not drive a commercial motor vehicle unless he/she is physically qualified to do so and has on his/her person the original, or a photographic copy, of a medical examiner's certificate that he/she is physically qualified.

### IN ADDITION TO THE ABOVE:

Agency personnel reserve the right to reject any equipment due to any additional condition or combination of conditions that make the vehicle unsafe, unreliable, or may pose unreasonable damage to the environment, or will be unable to fully perform the duties for which the equipment has been hired.

**The inspector shall inspect for compliance with the FMCSA, State and Local laws and regulations. Therefore, the Inspector must ACCEPT or REJECT all equipment he/she inspects.**

# NW Contracting

## SITE SPECIFIC SAFETY PLAN

LOCATION:

Wyoming County Fire Training Center

WYOMING COUNTY, NEW YORK

PROJECT:

NYSDEC Site Number: V-00604-9

DATE:

June 2024



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## APPENDICES

APPENDIX A	PERSONAL PROTECTIVE EQUIPMENT
APPENDIX B	WORK PRACTICES & SOP'S
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<del>APPENDIX C</del>	DIRECT READING INSTRUMENT LOG
APPENDIX E	INCIDENT REPORT FORM
APPENDIX F	TAILGATE/SAFETY MEETING FORM
A	JSA's
A APPENDIX	

### EMERGENCY CONTACTS

Site Supervisor Cell Phone: Brice Reed, Project Manager, (716)864-7474

Site Address: 3459 Wethersfield Road, Gainesville NY

Closest Intersection: SEE SITE AREA MAP (NEXT PAGE)

Site Phone Numbers:

- Ambulance/EMS's #: 911  
Fire #: 911  
Police #: 911  
HAZMAT: 911
- Hospital: Wyoming County Community Health System  
400 N. Main St Warsaw NY 14569
- Urgent Care: Wyoming Warsaw Urgent Care  
76 N. Main St Warsaw NY 14569
- CHEMTREC: 1-800-424-9300**
- Poison Control: 1-800-336-6997**

### COMMUNICATION CHAIN: REQUIRED PERSONNEL AND LINES OF AUTHORITY

In case of emergency or change in work scope, contact the following and document instruction received.

Project Manager: (QEP) Brice Reed, Project Manager, (716)864-7474

Client Representative: (Rochester Earth- Andrew Vieira (585)303-0119

Site Safety Officer: (Rochester Earth- Andrew Vieira (585)303-0119

NYSDEC Region 9: Megan Kuczka (716) 851-7220

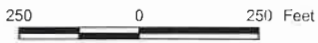
### Contact for job scheduling/equipment/coordination problems:

Project Manager: Brice Reed, Project Manager, (716)864-7474



**Legend**

- Residential Pumping Well
- Spring Location
- Property Line



WYOMING COUNTY FIRE TRAINING CENTER SITE PLAN	
	FIGURE 1



Map data ©2024 Google 2 mi

**Wyoming County Fire Training Center**  
 3459 Wethersfield Rd, Gainesville, NY 14066

↑ 1. Head east on Wethersfield Rd toward Hatfield Rd  
 2 min (1.8 mi)

↶ 2. Turn left onto Hermitage Rd  
 3 min (2.4 mi)

**Follow Liberty St to S Main St in Warsaw**  
 6 min (3.9 mi)

↷ 3. Turn right onto Liberty St  
 3.7 mi

↷ 4. Turn right onto Jefferson St  
 0.2 mi

**Follow S Main St**  
 3 min (1.4 mi)

↶ 5. Turn left onto S Main St  
 0.6 mi

6. At the traffic circle, continue straight onto N Main St

0.7 mi

**Drive to your destination**

42 sec (0.1 mi)

7. Turn right

223 ft

8. Turn left

118 ft

9. Keep left

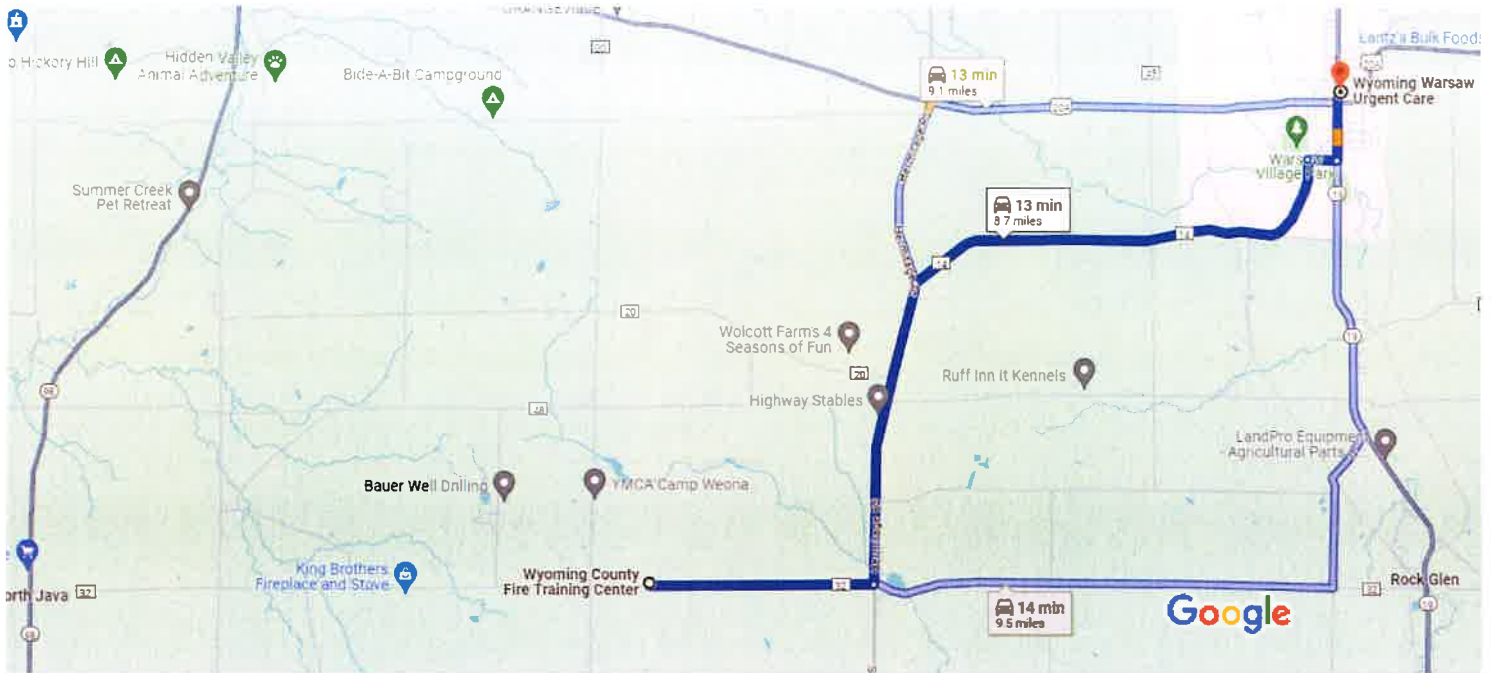
161 ft

10. Turn right

49 ft

**Wyoming Cnty Community Health System**

400 N Main St Warsaw, NY 14569



Map data ©2024 1 mi

**Wyoming County Fire Training Center**

3459 Wethersfield Rd, Gainesville, NY 14066

- ↑ 1. Head east on Wethersfield Rd toward Hatfield Rd 1.8 mi
- ↶ 2. Turn left onto Hermitage Rd 2.4 mi
- ↷ 3. Turn right onto Liberty St 3.7 mi
- ↷ 4. Turn right onto Jefferson St 0.2 mi
- ↶ 5. Turn left onto S Main St 0.5 mi

**i** Destination will be on the right

**Wyoming Warsaw Urgent Care**

76 N Main St, Warsaw, NY 14569

## HEALTH AND SAFETY SUMMARY

Prior to work being performed, the Project Manager/Site Supervisor must review each project to identify any potential hazards. Personnel present on-site shall be advised of safety hazards and potential health hazards before work begins and when hazards are discovered. The evaluations are based on what is known about the site and the anticipated risks posed by various operations. According to OSHA, NW Contracting and its workers must be informed of any known physical and chemical hazards associated with the work/site. Based on Site hazard information, NW Contracting will determine and implement all necessary actions to protect workers, the surrounding community, and the environment.

## SITE SPECIFIC CHARACTERISTICS

The Wyoming County Fire Training Center (WCFTC) is an approximately 1.390-acre site located at 3651 Wethersfield Road in the Town of Wethersfield, Wyoming County. It is approximately one-half mile east of the intersection of Wethersfield and Poplar Hill Roads. Site Features: The main site features include a recently constructed Fire Training Facility building and a fire training pond. Current Zoning and Land Use: The site is currently used for fire training. The surrounding parcels are residential, with the nearest residence approximately 600 ft from the WCFTC. Wyoming County also operates a shooting range adjacent to the site. Historical use of the site for fire training appears to have led to site contamination

**Chemicals of Concern/Hazards:** (Typical COC's Listed- Insert Additional As Applicable)

Although, there is no known contamination in the proposed work area based on historical data, the potential contaminants based on site history include: 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,2-Dichloroethene (cis), Tetrachloroethene, Trichloroethene, vinyl chloride, benzene, toluene, ethylbenzene, xylene, PFAS compounds including PFOA and PFOS

### **Area Affected:**

The site is completely fenced, which restricts public access.

### **Surrounding Population:**

Rural.

### **Chemicals expected to be brought on-site:**

None

**Job Objectives:**

Excavation with a Community Air Monitoring Plan (CAMP), working in compliance to DER-10, and 29 CFR 1910, 29 CFR 1926, and all other applicable Federal, State and local regulations. Providing PID screening and Air monitoring equipment with a laborer and operator.

**INITIAL LEVEL OF PERSONAL PROTECTIVE EQUIPMENT:**

<b>INTRUSIVE ACTIVITIES WITH AIR MONITORING:</b>	<b>LEVEL D</b>
<b>KNOWN CONTAMINANT (i.e. petroleum):</b>	<b>LEVEL C</b>
<b>UNKNOWN CONTAMINANT-NOT IDLH:</b>	<b>LEVEL B</b>
<b>UNKNOWN CONTAMINANT- IDLH:</b>	<b>LEVEL A</b>

**Exclusion Zone/Work Area:            APPROPRIATE PPE AS PER ABOVE  
(See Appendix A for description)**

**Action level for upgrading personal protection:**

Upgrade from Level C to Level B at 750 ppm measured within the breathing zone for 5 minutes. This will be determined by a photo-ionization detector (PID) with a 10.6 EV lamp or a flame ionization detector (FID). See Appendix A for description of Level B personal protection.

Upgrade from Level B to Level A IF: measured air concentrations (by PID) in the work zone of a **Known** contaminant exceed 2000 ppm above background; or measured air concentrations (by PID) in the work zone of an **Unknown** contaminant exceeds 750 ppm above background.

**Personal Protection shall be upgraded to Level A, only with prior notification of Project manager** (i.e. no Level A work/entry shall be performed prior to notification of Project Manager)

**Personal Protection may be downgraded to Level D for some work activities, IF:**

Air monitoring registers less than 5 ppm by PID in work area & known contaminant w/TWA PEL <5.0 ppm. Under all other conditions, Level C shall be maintained in the work/exclusion zone area.

**COMMUNICATIONS**

In an emergency, crucial messages must be conveyed quickly and accurately. Information to be communicated should include: the nature and location of the emergency and/or injured personnel, any orders to evacuate the site, and notice of blocked evacuation routes, as applicable. Outside support sources must be accessible by some form of communication so that help can be obtained, and measures for public notification ensured, if necessary. To accomplish this, a set of internal emergency signals



should be developed and rehearsed daily. External communication systems and procedures should be clear and accessible to all workers.

### **Internal communications**

Internal emergency communication systems are used to alert workers to danger, convey safety information, and maintain site control. Any effective system or combination may be employed. At this Site, radios, whistles, hand, and body motions will be used for communication with/between on-site personnel. Alarms will also be conveyed by audible signals, e.g. equipment horns, whistles, or visual signals such as hand or whole-body movements. (See Table 1 for examples)

### **External Communications**

Off-site sources must be able to be contacted to get assistance or to inform officials about hazardous conditions that may affect public or environmental safety. At this Site, radios or field (cellular) telephones will be used for communication with offsite locations/sources of assistance. The Site building telephone is a secondary available mode of off-site communication.

All Site personnel shall be provided with the protocol (phone number or emergency code, contact person) for contacting public emergency aid teams such as fire departments, ambulance units, and hospitals (contained in the first page of this document).

**TABLE 1 - INTERNAL EMERGENCY COMMUNICATION SIGNALS**

<u>DEVICES</u>	<u>EXAMPLE SIGNALS</u>
Radio, citizen's band or FM	Established code words
<b>Audible signal, e.g.;</b>	
Bull Horn	-One long blast: evacuate area by nearest emergency exit
Siren	-Two short blasts: localized problem (not dangerous to workers)
Whistle	-Two long blasts: all clear

## Visual signal e.g.;

Hand signals

-Hand gripping throat: out of air/can't breathe

Whole body movements

-Hands on top of head: need assistance

-Thumbs up: OK/I'm alright/I understand

-Thumbs down: no/negative

-Grip partner's wrist or both hands

around partner's waist: leave area immediately

## SITE EMERGENCY EQUIPMENT ON-SITE

The following equipment will be available:

Site Specific Health & Safety Plan

First Aid Kit

Fire Extinguisher

Personal Protection Equipment

Spill Containment/Cleanup Materials

## SITE SECURITY

Visitors **will not** be permitted to enter Work and/or hot zones until the excavation area has been determined by the QEP to be free of contamination. Visitors will be required to have certification, 40 hours 1010.120 training, respiratory protection, medical clearance, a fit test (if Level C is being used) and review of the site safety plan. If a visitor does not adhere to the provisions of the site safety plan and common safety practices, they will be requested to leave or retreat to the clean zone. Non-conformance incidents will be recorded in the site log.

## SITE PERSONNEL TRAINING / PROGRESS MEETINGS

1910.120 Training

NW Contracting **does not allow** employees or contractors to work on-site until 40 hour training and/or 8 hour refresher course is complete and documented. On-site training is conducted while under the supervision of a trained, experienced supervisor.

A Pre-Entry Briefing and (Tailgate) On-Site Safety Meetings will be conducted, and are required, on a Daily basis for this Site, or upon any significant change in hazards/conditions.

On-site workers, regardless of the company with which they are employed, are required to read (and/or request explanation of) this Site-Specific Health and Safety Plan.

If necessary, additional on-site update meetings will be held to provide two-way feedback about how well the plan is being followed or if the plan needs changes. These tailgate safety meetings should be held with a work-task discussion. If a new hazard is discovered, it will be discussed with employees. Discussion should include work activities; respiratory protection; potential hazards associated with container contents (if any); emergency work exits; contaminant exposure signs and symptoms and long-term effects; physical characteristics of the contaminants; heat stress!

## **AIR MONITORING**

Site Air Monitoring Requirements:

Equipment Necessary:

PID or FID;

O<sub>2</sub>/LEL Meter;

4 GAS METER

EXPLOSION METER

Documentation on all calibrations and monitoring results is REQUIRED.

Air Monitoring is required at the following times and frequencies:

Use O<sub>2</sub>/LEL before entering any vaults, tanks, trenches, or tank pits more than 4.0 feet deep.

Perform work/exclusion zone Air monitoring by PID for volatile and semi-volatile organic compounds at the frequency stated in the Air Monitoring By PID Table, below. Record all direct reading monitoring results (See Appendix 1)

### **AIR MONITORING BY PID**

<u>FREQUENCY</u>	<u>ACTIVITY</u>	<u>LOCATION</u>
CONTINUOUS	Initial or New	Work Area
Every 30 Minutes	Spill Cleanup	Work Area
Every 30 Minutes	Soil Excavation	Work Area
Every 30 Minutes	Soil Sampling	Work Area
Every 30 Minutes	Soil Stockpiling	Work Area

### AIR MONITORING BY 4 GAS METER

<u>FREQUENCY</u>	<u>ACTIVITY</u>	<u>LOCATION</u>
CONTINUOUS	Initial or New	Work Area
CONTINUOUS	Tank Cleaning	Inside Tank

### SITE CONTROL AND EXCLUSION/WORK ZONE

The site will be controlled to reduce or eliminate the possibility of exposure or transfer of hazardous substances and to protect NW Contracting and other contractors working at the site from physical injury by taking the following actions:

1. Setting up physical barriers/tape to exclude unauthorized personnel, to delineate hazardous zones and to minimize exposures of unprotected persons.
  - a. Man doors and garage doors that access the work zone will be taped-off with caution tape during demolition and excavation activities.
2. Establishing communications for emergency alerting.
3. Using the buddy system.
4. Following safe work practices/Standard Operating Procedures.
5. Identifying medical assistance (See Page 1).
6. Implementing appropriate decontamination procedures to prevent cross-contamination.

### Exclusion/Work Zone

The Exclusion/Work Zone, (or Hot Zone), is where "contamination" exists or is likely to be present or is where activities may be hazardous. Persons entering the Hot Zone/NW Contracting work area must wear prescribed Levels of Protection. The Exclusion zone will initially be established by visually surveying the immediate environment and determining if a hazardous condition exists; It will include the immediate area of the barreled wastes, and anywhere hazardous substances are located or being worked with; It will also include any drainage, leakage, or spilled material areas, and anywhere pathways of dispersion are visible. Its size/location will be adjusted, if necessary, based on air monitoring readings.

### **Decontamination Zone**

The Decon zone serves as a transition between contaminated and clean areas.

Decontamination is performed in this area.

A designated Decon pad/area will be established at this Site, immediately adjacent to the exclusion zone for decontamination of tools, equipment, and personnel. The Decon area will consist of a poly lined containment area, with provisions for emergency shower, pressure washing of tools/equipment, and washing and/or disposal of soiled PPE and equipment. The Decon cleaning agent will bealconox detergent mixed with water, followed by clean water rinse. All Decon wash and rinse water generated will be collected, contained, and properly disposed.

### **Emergency Assembly Area**

#### **INSERT SITE INFORMATION HERE**

Crew will evacuate to the main entrance of the facility. This will allow crew to direct emergency vehicles to the site and remain out of harms way.

### **EMERGENCY PROCEDURES AND FIRST AID**

1. Survey the situation. Do not endanger your own life. DO NOT ENTER A CONFINED SPACE OR EXCLUSION ZONE TO RESCUE SOMEONE WHO HAS BEEN OVERCOME unless an SCBA or airline is worn, the Fire Department or HazMat team has been advised, and there is a standby for you.
2. **Call 911(if available) or the fire department IMMEDIATELY. Explain the physical Injury, chemical exposure, fire, or release.**
3. If the victim's condition appears to be non-critical, but seems to be more severe than minor cuts, he should be transported to the hospital or clinic listed; let the doctor assume the responsibility of determining severity. If condition is obviously serious, transportation must be performed by EMS.
4. Notify Project Manager, the Safety Officer, and client representative as soon as practicable. Complete Accident/Incident/Near Miss Form found in Appendix E within 24 hours.
5. **Personal Injury in the Exclusion Zone:** Upon notification of an injury in the Exclusion Zone, the designated alarm or signal will be given. All site personnel shall assemble at the decontamination line. The rescue team will enter the Exclusion Zone to remove the injured worker to the hotline. The Site Safety Officer and Project Manager will evaluate the nature

of the injury, and the affected person should be decontaminated to the best extent possible prior to movement to the Support Zone. The on-site first aid person should administer the proper treatment and contact should be made for removal by ambulance to the designated medical facility (if required). No person shall reenter the Exclusion Zone until the cause of the injury or the symptoms are determined.

6. **Personal Injury Outside the Exclusion Zone:** Upon notification of an injury in the Support Zone, the Site Safety Officer and Project Manager will assess the nature and extend of the injury. If the cause of the injury or loss of the injured person does not affect the performance of site tasks, then operations may continue. On-site first aid should be administered and the necessary follow-up procedures followed as stated above. If the nature of the injury is such that it endangers or increases risks to others, the emergency signal should be given and the site should be shut down. Activities on-site should not be resumed until the added risk is corrected or removed.

7. **Fire/Explosion:** Upon notice of a potential or existing fire or explosion, the site emergency signal should be given and all personnel should assemble at the decontamination line. The fire department should be notified and all personnel moved to a safe distance from the involved area.

#### EMERGENCY PROCEDURES AND FIRST AID

8. **Personnel Protective Equipment Failure:** If any site worker experiences a failure or alteration of protective equipment that affects the protection factor, that person and his/her buddy, shall immediately leave the Exclusion Zone. Reentry shall not be permitted until the equipment has been repaired or replaced.

9. **Other Equipment Failure:** If any other equipment fails to operate on-site, the Project Manager and Safety Officer shall be notified to determine the effect of this failure on continuing operations on-site. If the failure affects the safety of personnel or prevents completion of the Work Plan tasks, all personnel shall leave the Exclusion Zone until the situation is evaluated and appropriate actions taken.

In all situations, when an on-site emergency results in evacuation of personnel from the Exclusion Zone, personnel **shall not reenter** until:

1. The conditions resulting in the emergency have been corrected.
2. The hazards have been reassessed.
3. The Site Safety Plan has been reviewed.
4. Site personnel have been briefed in any changes in the Site Safety Plan.

10. Decontaminate victim without causing delay of live-saving procedures.

Employees receive training concerning contingency plans for site emergencies, with emphasis on recognition, control or retreat. This occurs during the 40 hour course required by OSHA 29 CFR 1910.120.

### **Additional emergency phone numbers**

National Response Center (800) 424-8802

Chemtrec (800) 424-9300

SARA Hotline (800) 535-0202

EPA Hotline (800) 424-9346

OSHA Hotline (800) 523-8151

### **Incident documentation and Follow-up**

The Project Manager is responsible for documenting the incident. At a minimum, include actions and decisions made, and the circumstances at the time of the actions and decisions (See Appendix D).

## **EMERGENCY PROCEDURES AND FIRST AID**

### **Notifications**

In the event of a spill or release, notify the Client Representative. The generator (client) is under obligation to report to the proper government agencies. If the spill extends into waterways, the Coast Guard and the National Response Center (1-800-424-8802) should be notified immediately, by the client or with his permission. The generator is under obligation to report to the proper government agencies. If a chemical is accidentally released, the National Response Center, and the local fire department usually have to be notified immediately by the generator. All reporting must be done with Site Manager and client approval.

If contaminants are found to have migrated off-site into populated areas, a large spill of flammable products is involved, or the material is considered acutely toxic or exceeding published IDLH values, notify the fire department first and tell them that an evacuation may be necessary. Use of berms/dikes, sorbent materials, foams, knock-down water sprays can be used under restricted conditions for spills and/or air releases (vapor clouds). In life threatening situations, **do not** wait for approval to call Fire Department.

### **Site Security and Control During Emergencies**

\* If public evacuation is necessary, responsibility for implementation lies with government authorities.

\* When the fire the command, automatically department or state regulatory agent arrives, control, and responsibility for the site is and instantly transferred to that entity.

\* No one is permitted on-site during the emergency, unless exception is individually granted by the incident commander.

\* Physical barriers should be immediately erected to indicate the perimeter of the incident area; non-essential personnel and the public must be kept on the safe side of this border.

\* Evacuations of the public is not a NW Contracting responsibility. Inform local police and they can contact Civil Defense or other agencies.

## RISK MATRIX: PRECAUTIONS AND SITE TASK AND PROTECTION

### ALL ACTIVITIES

POTENTIAL HAZARDS	PRECAUTIONS
Heat Stress	<ol style="list-style-type: none"><li>1) Increase liquid consumption</li><li>2) Increase number of rest breaks</li><li>3) Watch for signs</li><li>4) Eliminate alcohol consumption</li><li>5) Do not use salt tablets</li><li>6) Rest in cool/dry areas, such as the air conditioned truck</li><li>7) Call EMTs for case of unconscious-ness or other signs of stress</li></ol>
Traffic	<ol style="list-style-type: none"><li>1) Wear fluorescent safety vest during all on-site visits</li><li>2) Use cone/barricades to indicate work area to drivers and pedestrians</li></ol>
Exposure to toxic petroleum products (during sampling, equipment set-up, cleaning and cutting tanks, etc.)	<ol style="list-style-type: none"><li>1) Stand up-wind whenever possible</li><li>2) Wear nitrile or Silver Shield gloves. Splash goggles advised. Vinyl or PVC sample gloves are not as protective as nitrile sample gloves.</li><li>3) Minimize contact and contact time</li><li>4) Do not walk through discolored areas, puddles, etc.</li><li>5) Follow decontamination procedure (see Appendix E)</li><li>6) If &gt; 5 ppm organic vapors in breathing zone, use full face respirator with organic vapor cartridges</li><li>7) No eating, smoking, drinking, in work area/hot zone and decon zone to reduce exposure by ingestion</li></ol>



8) Continuously monitor (without threatening your health) when unexpected contamination has been discovered. If unknowns discovered, call H&S Managers

## RISK MATRIX: PRECAUTIONS AND SITE TASK AND PROTECTION

### ALL ACTIVITIES

POTENTIAL HAZARDS	PRECAUTIONS
Inclement weather	1) Cease outdoor work during lightning storms 2) Take cover indoors or in vehicle 3) Listen to local forecasts for specific hazards (tornados, flash floods)
High crime areas	1) Be aware of surroundings. Keep lookout 2) Request police protection, if appropriate

### VAULT ENTRY AND INDOOR WORK AND CONFINED SPACES

POTENTIAL HAZARDS	PRECAUTIONS
Flammability	LEL 0%-20% - use non-sparking tools, prevent electrical engagement; Investigate source.  LEL 20% or more - leave area, seek advice on changing the atmosphere; do not engage any spark source. Wear Nomex suit for situations in which a flash fire is possible
Oxygen deficiency Oxygen enrichment	02 < 19.5% - use SAR or SCBA; call District and H&S Managers. 02 > 23% leave area and call the industrial hygienist for advice on next step. The excess oxygen drastically increases the flammability range of normally flammable vapors which then makes them extremely flammable. Permit must be obtained for confined space entry.

## RISK MATRIX: PRECAUTIONS AND SITE TASK AND PROTECTION

### DRILLING, EXCAVATING AND OTHER EQUIPMENT USE

POTENTIAL HAZARDS	PRECAUTIONS
Buried debris, junk on ground, metal debris	<ol style="list-style-type: none"><li>1) Stay at least 20 feet from the auger or excavator arm, wire from underground has wrapped around legs and dragged humans into the rotating drill.</li><li>2) Wear steel (or fiberglass) shanked (foot bottom) boots when metal debris is present; feet in regular boots may be sliced.</li><li>3) Buried debris increases the danger associated with invasive tasks, (i.e., suddenly flying objects, entanglement sparks, new trip hazards, damage, etc.)</li></ol>
Noise	<p>Wear hearing protection whenever there is a need to shout to be understood or in noisy situation, such as drilling or using other heavy equipment. (i.e. Excavation work)</p> <p>Hearing protection is required for employees who are exposed to noise levels equal to or greater than 85 decibels averaged over an eight-hour period.</p>
Power Lines and Electrical Connections	<ol style="list-style-type: none"><li>1) Check height of heavy equipment, excavators, drill rigs, cranes in relation to wires. Keep a 20 foot Minimum clearance. Electric arcs can electrify rig even when no contact is made with power lines.</li><li>2) Use ground fault circuit interrupters on all non-permanent wiring including extension cords.</li><li>3) Observe lookout/tagout procedures.</li></ol>
Physical Injury	<ol style="list-style-type: none"><li>1) Wear hard hat with ratchet whenever performing construction type activity, when equipment, hoses could fly.</li><li>2) Make eye contact with the operator when moving around heavy equipment - must know exactly where everyone is.</li><li>3) Don't wear ties, rings, bracelets, long neck chains, or loose/dangling clothing.</li><li>4) Prevent slips, trips, and falls; work area uncluttered and dry.</li><li>5) Stand at least 20 feet (or the height of the mast) away from the auger or excavator arm when it is in motion. In NY, wire came up a hole and hooked around a driller's leg and dragged him into the auger, killing him.</li></ol>

6) Never use your hands to take samples while the auger is rotating, regardless of time pressure; use a shovel or stop the auger.

**RISK MATRIX: PRECAUTIONS AND SITE TASK AND PROTECTION**

**DRILLING, EXCAVATING AND OTHER EQUIPMENT USE**

POTENTIAL HAZARDS	PRECAUTIONS
Physical Injury (Continued)	7) See Drilling Safety Section. 8) If a partial amputation occurs, call 911, raise the stump (if possible), apply direct pressure to minimize bleeding; if this does not stop bleeding, and use pressure points. Never use a tourniquet - it will increase the amount of limb lost. Collect the part, place in a clean plastic bag or jar. Be careful, if you freeze the part or get it soggy, it can't be re- attached due to its damage.
Back Injury	1) Think out the lift, before performing it, and avoid lifting with a simultaneous twisting motion. 2) Get partner for lifting' 3) Bend knees when lifting and use leg muscles.
Slippery Surfaces	1) Do not wear latex booties or disposable booties. Booties are a major cause of slips and back injuries on dirt/mud/ grass surfaces. 2) Wear ANSI approved work boots with toe and shank (foot bottoms) protection and non-skid over boots to prevent leather contamination

**RISK MATRIX: PRECAUTIONS AND SITE TASK AND PROTECTION**

**CLEANING AND CUTTING UST/AST**

POTENTIAL HAZARDS	PRECAUTIONS
Exposure to toxic petroleum products (during cleaning and cutting tanks, etc.)	1) Stand up-wind whenever possible 2) Wear Proper PPE, including nitrile or Silver Shield gloves. Splash goggles advised. Vinyl or PVC sample gloves are not as protective as nitrile sample gloves.

- 3) Minimize contact and contact time
- 4) If > 5 ppm organic vapors in breathing zone, use full face respirator with organic vapor cartridges.
- 5) LEL readings must be below 20% after three consecutive tests using a MSA Explosimeter and MSA 4Gas meter prior to any tank cutting.
- 6) No eating, smoking, drinking, in work area/hot zone and d decon zone to reduce exposure by ingestion
- 7) Continuously monitor (without threatening your health) when unexpected contamination has been discovered. If unknowns discovered, call H&S Managers.

Use of Hand tools  
and Saws

- 1) Tools must be checked prior to being used on-site to make sure that they are in good working condition.
- 2) Always cut away from your body
- 3) Proper PPE must be worn at all times, including glasses, hard hat, tyvex suit, respirator (if needed) and gloves.

## **TREATMENT OF HEAT ILLNESS**

### HEAT STRESS EMERGENCY DECONTAMINATION

IF AN EMERGENCY DUE TO A HEAT-RELATED ILLNESS DEVELOPS, PROTECTIVE CLOTHING SHOULD BE REMOVED (CUT OFF) FROM THE VICTIM AS SOON AS POSSIBLE TO REDUCE THE HEAT STRESS. If the outer contaminated garments cannot be not safely removed, isolation is in order; blankets, sheets of plastic, garbage drum bags or drum liners should be placed between the contaminated clothing and the clean surfaces of a vehicle to help prevent contaminating medical personnel and/or the inside of ambulances. Protective equipment, particularly gloves, should be brought along in case medical personnel request it. For minor medical problems, decontamination procedure should be followed as usual.



Inside glove: Sample Glove - Nitrile.

Outside glove: Chemical resistant gloves.

Footwear: Splash over boot and steel toe boot.

Other: Ear plugs (if noisy)  
Hard hat  
Duct tape joints  
Wear face shield during

## APPENDIX A

### PERSONAL PROTECTION EQUIPMENT

#### LEVEL B

- > 2000 ppm in breathing zone for Known Contaminants; Or,
- > 750 ppm in breathing zone for Unknown Contaminants.

**If Level B becomes necessary, stop work and call Health and Safety Manager**

Respirator:	SCBA or supplied air respirator
Overalls: suit or	Chemical resistant clothing :( coveralls, disposable chemical resistant hooded coveralls - contaminant dependent)
Inside glove:	Inner and outer glove - chemical resistant
Outside glove:	Inner and outer glove - chemical resistant
Footwear:	Steel-toe boots with shank - chemical resistant
Other:	Hard hat <i>Duct tape joints</i> 2-way radio communications disposable outer boots 5-minute escape mask

#### LEVEL A

**Inform Health and Safety Coordinator**

- >2000 ppm unidentified (UNKNOWN) Contaminants

**Fully Encapsulated Chemical resistant suit with positive pressure SCBA breathing apparatus.**

## APPENDIX B

### WORK PRACTICES AND STANDARD OPERATING PROCEDURES

1. Eating, drinking, chewing gum or tobacco, taking medication, smoking, applying cosmetics or inserting contact lenses is prohibited in contaminated or potentially contaminated areas or where the possibility for the transfer of contamination exists. Carrying food, beverage, matches, lighters, cosmetics, etc., around on-site is prohibited unless in the clean zone exclusively.
2. Drinking alcoholic beverages and/or taking other controlled substances during working hours or when driving is prohibited. Driving while intoxicated may result in immediate termination.
3. Compressed gas cylinders must be secured (with chain or other) upright. SCBA units must be upright or in cases.
4. The buddy system is mandatory whenever entry to the hot zone is made in Level C or higher. Visual contact is maintained between "buddies" on-site. Close proximity must be maintained in cases of emergencies. Responsibilities of the buddy include:
  - \* assisting/checking protective clothing and backs
  - \* keeping visual and voice contact
  - \* monitoring the body for heat stress and/or chemical exposure
  - \* getting help, primarily; secondarily, getting the buddy out of the hot zone, if possible
5. Only FM approved metal safety cans may be used to transport and store flammable liquids. Do not leave these in the sun or near heat - pressure builds and when opened, the liquid spurts out.
6. Smoking is never permitted within the work zone, decon or hot zones.
7. Trenches more than four (4) feet deep, which will be entered, must have a ladder or steps every 25 feet of the trench.
8. Soil must be laid two (2) feet or more from the edge of the excavation/trench.



9. If a trench is > 4 feet in depth, and employees will enter, call the Health & Safety Manager about OSHA required sloping, shoring, shielding.
  
10. Prior to using heavy equipment, a heavy equipment check list will be completed daily. When in an area where heavy equipment is used, including tank pulls, wear steel/plastic toed boots, hard hat, and eye protection. Get visual contact by the operator whenever moving around heavy equipment. Watch the bucket/crane load/arm to avoid being struck. Never stand under or near any load, especially tanks being removed.
  
11. Prior to commencing excavation activities, UDIG NY will be notified to mark all underground utilities. If there are private utilities onsite, a third-party private locator will be utilized. All utilities will be cleared/marked by locators before any excavation begins. All as-built drawings will be reviewed prior to excavation.
  
12. Ends can blow off tanks; therefore, position should be perpendicular to the ends.

**APPENDIX C**  
**CONFINED SPACES**

**Any entry into a confined space by NW Contracting Staff is considered a Permit-Required Confined Space**

OSHA 1910.120 (b) (4) requires this section.

Confined Space Entry Procedures Must Be Followed when working in confined spaces where: (1) requires the person's head to be below ground level; or (2) the person must work in a manhole or other space in which an exit may not be easily accessible.

**Entries into confined spaces will ONLY BE PERFORMED UNDER PERMIT, AND BY TRAINED PERSONNEL.**

Confined Space Entry shall only be performed using the Buddy System.

Buddy System: Two or three people work as a team and are in constant visual and voice contact.

Organic and/or combustible vapors may be trapped resulting in lack of oxygen (anoxia) and/or over-exposure to vapors. Allow the confined space to vent by opening doors and/or manhole covers before monitoring. Normal oxygen levels may not be restored simply by venting the space by those means.

Oxygen Level: Monitor for % Oxygen with and O<sub>2</sub>/LEL to ensure a minimum oxygen level of 19.5%. Because of the high vapor density of gasoline there is a high probability that vapors in the enclosed spaces or vaults will replace any oxygen that is present, even if the space is open to the air. Oxygen level monitoring will be done at the top, middle and bottom of the enclosed space.

**If oxygen is less than 19.5%, do not enter the space without an airline or SCBA. When these devices are to be used, the H&S Manager MUST be present.**

Explosive Vapors: Monitor for % of Lower Explosive Limit (LEL) of vapor concentrations within the Confined space. Gasoline can collect in enclosed spaces, in corners, and in low areas.

**If LEL readings exceed 20%, cautiously change the atmosphere in the space.**

If LEL readings are between 10 and 20%, work can be done, very cautiously. Non-sparking tools must be used.

**APPENDIX C**  
**CONFINED SPACES**

Toxic Vapors: Monitor for toxic vapors with a direct reading instrument for the specific toxic or use a PID. PID readings will be taken at the top, middle and bottom of a vault, shed, or other confined space to ensure that vapors do not exceed acceptable levels. The probe can be extended by adding a piece of Tygon tubing to it. Monitoring is not necessary if entry is made in SAR or SCBA.

If the PID and/or the FID readings exceed 200 ppm, a full face respirator must be worn in the confined space but only if the oxygen level is at or above 19.5%.

**Log monitoring results!**

**Call the Health and Safety Manager for assistance.**

**APPENDIX D**

**DIRECT READING INSTRUMENT LOG**

Project: \_\_\_\_\_ Operator: \_\_\_\_\_

Date: \_\_\_\_\_ Calibration: \_\_\_\_\_

Instrument: \_\_\_\_\_

Sampling Technique: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Sample Interval: \_\_\_\_\_

Calibration: \_\_\_\_\_

Background Reading: \_\_\_\_\_

Action Level/Response: \_\_\_\_\_

**Time Location**

**Reading (units)**

**Detection Limit (Scale)**

\_\_\_\_\_

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APPENDIX E

INCIDENT INVESTIGATION REPORT

ACCIDENT-NO INJURY: \_\_\_\_\_ EMERGENCY INVOLVING THE PUBLIC: \_\_\_\_\_

INJURY/ILLNESS: \_\_\_\_\_

EMERGENCY INVOLVING THE ENVIRONMENT: \_\_\_\_\_

NEAR MISS: \_\_\_\_\_

PROJECT NO.: \_\_\_\_\_

PROJECT PHONE NO.: \_\_\_\_\_

PROJECT LOCATION: \_\_\_\_\_

EMPLOYEE'S FULL NAME: \_\_\_\_\_

IF SUBCONTRACTOR, GIVE NAME/ADDRESS: \_\_\_\_\_

ADDRESS (HOME): \_\_\_\_\_

PHONE NO.: \_\_\_\_\_ DATE OF BIRTH: \_\_\_\_\_

SOCIAL SECURITY NO.: \_\_\_\_\_ TITLE: \_\_\_\_\_

DATE AND TIME OF OCCURRENCE: \_\_\_\_\_

DATE AND TIME REPORTED TO NWE: \_\_\_\_\_

DATE EMPLOYEE BEGAN TO LOSE WORK TIME: \_\_\_\_\_

ESTIMATED / ACTUAL DATE OF RETURN TO WORK: \_\_\_\_\_

DESCRIBE THE APPARENT EXTENT OF INJURY OR ILLNESS AND PARTS OF BODY AFFECTED  
(LACERATION, BURN, FRACTURE - RT. LOWER LEG, LT. INDEX FINGER): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**APPENDIX E**

**INCIDENT INVESTIGATION REPORT**

DESCRIBE TREATMENT GIVEN (X-RAY, STITCHES, ETC.). IF HOSPITAL OR DOCTOR, GIVE NAME, ADDRESS, AND PHONE NUMBER AND ATTACH RETURN-TO-WORK SLIP: \_\_\_\_\_

\_\_\_\_\_

DID A CHEMICAL EXPOSURE OCCUR? IF YES, WHAT KNOWN CONTAMINANTS WERE PRESENT? WHAT TYPE OF EXPOSURE OCCURRED? (INHALATION, INGESTION, SKIN CONTACT, ETC): \_\_\_\_\_

\_\_\_\_\_

DESCRIBE FULLY HOW INCIDENT HAPPENED, GIVE CAUSES AND RESULTS. ATTACH ANOTHER SHEET IF NECESSARY: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

EXACT LOCATION WHERE INCIDENT OCCURRED: \_\_\_\_\_

\_\_\_\_\_

NAMES AND ADDRESSES OF WITNESSES TO INCIDENT: \_\_\_\_\_

\_\_\_\_\_

WHO WAS DIRECTLY SUPERVISING THE WORK? \_\_\_\_\_

WORK SCHEDULE AT TIME OF INCIDENT: \_\_\_\_\_ HOURS PER DAY \_\_\_\_\_ DAYS PER WEEK

LEVEL OF PERSONAL PROTECTIVE EQUIPMENT UTILIZED AT TIME OF INCIDENT: (CIRCLE)

A

B

C

D

**APPENDIX E**

**INCIDENT INVESTIGATION REPORT**

WHAT DIRECTION OR TRAINING HAD BEEN GIVEN TO THE TASK? \_\_\_\_\_

\_\_\_\_\_

HOW CAN YOU OR THE COMPANY PREVENT SIMILAR INCIDENTS FORM HAPPENING AGAIN?

\_\_\_\_\_

WHAT ACTION HAS OR WILL BE TAKEN TO PREVENT SIMILAR OCCURRENCES? \_\_\_\_\_

\_\_\_\_\_

ADDITIONAL COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

(EMPLOYEE)

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

(SITE SUPERVISOR)

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

(SAFETY OFFICIAL)

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

(PRESIDENT)

## APPENDIX F





3553 Crittenden Rd.  
Alden, NY 14004  
716.937.6527  
nwcontracting.com

## Attendance Form Tailgate Safety Meeting

Date:

Location:

Trainer:

SAFETY MEETING INCLUDED THE FOLLOWING TOPICS:

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### Print Name/Signature

- |     |     |
|-----|-----|
| 1.  | 13. |
| 2.  | 14. |
| 3.  | 15. |
| 4.  | 16. |
| 5.  | 17. |
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| 7.  | 19. |
| 8.  | 20. |
| 9.  | 21. |
| 10. | 22. |
| 11. | 23. |
| 12. | 24. |



3553 Crittenden Road  
Alden, NY 14004  
716-937-6527

Date \_\_\_\_\_

Superintendent \_\_\_\_\_

Job Site \_\_\_\_\_

Inspector \_\_\_\_\_

## Weekly Jobsite Safety Inspection Checklist

Pass Fail N/A

### *General*

- The company has a written safety program that is site specific where necessary.
- Emergency telephone numbers are in a place that can be found quickly and easily.
- OSHA poster is posted.
- Minutes of jobsite safety meetings recorded are kept.
- Safety inspections reports by contractor personnel prepared and kept at site.
- There is a competent person, someone capable of identifying existing and predictable hazards which are unsanitary, hazardous, or dangerous, and who has authorization to take prompt corrective measures to eliminate them, on site.
- There is a current first aid kit on site.

### *Sanitation*

- Toilet and hand wash station provided at the jobsite.
- Adequate supply of potable water at jobsites.
- Personal garbage and lunch sacks are removed from the site or properly disposed of so as not attract rodents, pests of insects.

### *Housekeeping*

- Work site is clean and free of dangerous waste and material.
- Scrap materials are removed or stacked in orderly fashion.
- Trash and combustible material are placed in containers provided for that purpose.
- Scrap lumber, hoses, cable wiring and all other debris is clear from work areas, hallways and stairways.
- Nails are removed from scrap lumber and other unused materials.
- There are no spills of liquid and materials that may cause an accident.
- Work areas have the appropriate amount of lighting.
- Holes and openings are protected and marked appropriately.

### *Fire Prevention*

- A fire extinguisher is provided for every 3000 sq. ft. of space that is rated 2A at least.
- A portable fire extinguisher is within 100 ft. of all working areas.
- Portable heaters are being used in accordance with specifications.
- All employees or subcontractors know the location of the fire extinguisher and know how to operate it.
- Employees have been trained in how to properly use a fire extinguisher.

Pass Fail N/A

- Firefighting equipment is always accessible and maintained in good repair
- Smoking is prohibited in possible fire hazard areas.
- Flammable and combustible liquids are marked and properly stored appropriate containers.
- Soiled or combustion rags are properly stored or disposed of.

***Personal Protective Equipment***

- Employees, trade contractors, vendor, visitors, and others on the site wear the appropriate personal protective equipment.
- Hard hats are worn in the construction areas where there is a risk of injury
- Mandatory eye protection is required on all projects in the construction area when the following conditions exist: all types of hammers, saws, chipping tools, brooms, grinders, impact tools, drills, chemicals, hazardous substances which create dust, mist, and fumes, concrete pouring, grouting, etc.
- Face shields are worn when a danger of harmful chemical or physical contact with the face is present.
- Those in areas of moderate, extreme or long-term noise wear appropriate hearing protection.
- Only NIOSH/MSHA respirators approved for the work conditions are used when necessary.
- Respirators or appropriate filters are used when using substances containing toxic vapors, fumes or dust in oxygen deficient environments (less than 19.5% oxygen) or other hazardous areas.
- Those painting or working with hazard chemicals are wearing a respirator that meets those specific requirements.
- If disposable respirators are used by multiple persons, they are cleaned before each use.
- Persons working in confined or enclosed areas where they could be overcome by toxic fumes work only when an outside observer is present. Rescue equipment is be available at all times when such work is being performed.
- Those welding or working with metal or sharp objects are wearing safety and safety goggles.
- Overall workers are adequately protected.

***Hand & Power Tools***

- All hand and power tools in good working order
- Handheld powered tools equipped with constant pressure switch where appropriate.
- Devices are provided on air power tools to prevent tools from becoming accidentally disconnected from hose.
- Pneumatic nailers operating at more than 100 psi. are provided with safety devices on muzzle to prevent accidental discharge.
- Tools are stored in a dry secured place.
- Tools cords are free of cuts or abrasions and in good repair.
- Saws are guarded by the appropriate guards.

Pass Fail N/A

- Tools are being used for their intended use.
- Handles for hammers and other tools are in good condition free of cracks and splinters and free of mushroomed heads.
- All safety guards and devices are in place while the tools is in use.
- All powder actuated are unloaded while not in use.
- All air compressors are equipped with pressure gauges.

#### ***Vehicle and Equipment***

- Construction equipment and vehicles are parked so as to prevent the release of stored energy (bucket/forks down, brake applied, wheels cocked, etc.).
- Only those who are authorized to operate machinery are permitted to so.
- All equipment has functioning signals and horns.
- Backup warning systems are functioning properly.
- Seatbelts are in good repair and used.
- Passengers are prohibited from riding on equipment.
- All mirrors are in place and operational.
- All windshields and glass are clean so vision is unobstructed.
- Flaggers are used when the operator is unable to see or to protect vehicular traffic or pedestrians when necessary.
- Equipment is kept from coming near to overhead power lines.
- Equipment role over protection equipment is in good shape.

#### ***Trenching & Excavation***

- The underground utilities have been located and marked.
- Trenches 5' or more in depth are shored, or have sides sloped.
- The walls and faces of all excavation where employees are exposed to danger from moving ground are guarded by a shoring system, sloping, or benching of ground.
- The slope of benched or sloped excavations and the shoring is designed based on the type of soil.
- All parts of shoring system are in good repair.
- Excavations are no deeper than 2' below the base of any shoring system
- Excavated or other material is placed a minimum of 2' from the edge of excavations.
- Excavations have barricades surrounding them where necessary.
- Have all trenches four feet and greater been provided with stairways, ladders, or ramps within 25 feet of each employee.

#### ***Concrete & Masonry***

- Limited access zones have been established and marked.
- All protruding reinforcing bars have been guarded.
- All free-standing masonry walls are properly braced and supported.

## APPENDIX G



# JOB SAFETY ANALYSIS

3553 Crittenden Road  
Alden, NY 14004  
716-937-6527

## Section 1: General Information

Date & Time: \_\_\_\_\_ Site/Project: \_\_\_\_\_

**DIAL 911 FOR ALL EMERGENCIES – IF 911 IS NOT AVAILABLE, LIST ALTERNATIVE NUMBER BELOW**

Emergency Contact: \_\_\_\_\_ Emergency Notification #: \_\_\_\_\_

Nearest First-Aid Kit: \_\_\_\_\_ Nearest Fire Extinguisher: \_\_\_\_\_

Nearest Eye Wash: \_\_\_\_\_ Do Cell Phones Work \_\_\_\_ Yes \_\_\_\_ No

## Section 2: Task Information

Describe weekly planned Tasks to be performed:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Section 3: Hazard Identification (List all that apply)

Mark an X on any potential/applicable hazard for the task(s):

- |  |   |   |   |   |
|--|---|---|---|---|
| <input type="checkbox"/> Hazardous Atmosphere    | <input type="checkbox"/> Fall from Heights    | <input type="checkbox"/> Suspended Loads/Rigging  | <input type="checkbox"/> Ignition Sources | <input type="checkbox"/> Overhead Hazards     |
| <input type="checkbox"/> Chemical Exposure       | <input type="checkbox"/> Temperature Extremes | <input type="checkbox"/> Weather Hazards          | <input type="checkbox"/> High Noise Level | <input type="checkbox"/> Electrical           |
| <input type="checkbox"/> Pinch Points            | <input type="checkbox"/> Lacerations          | <input type="checkbox"/> Excavation Collapse      | <input type="checkbox"/> Lone Worker      | <input type="checkbox"/> Slips/Trips/Falls    |
| <input type="checkbox"/> Adjacent Operations     | <input type="checkbox"/> Roadway Work/Traffic | <input type="checkbox"/> Dusty Environment        | <input type="checkbox"/> Silica Dust      | <input type="checkbox"/> Insects (Bees/Ticks) |
| <input type="checkbox"/> Struck by Moving Equip. | <input type="checkbox"/> Chemical Spills      | <input type="checkbox"/> Buried Utility Conflicts | <input type="checkbox"/> _____            | <input type="checkbox"/> _____                |

## Section 4: PPE & Engineering Controls to be Utilized

- |   |  |  |  |   |
|---|--|--|--|---|
| <input type="checkbox"/> High Visibility Vest | <input type="checkbox"/> Hard Hat                | <input type="checkbox"/> Safety Glasses            | <input type="checkbox"/> Face Shield     | <input type="checkbox"/> Fall Protection  |
| <input type="checkbox"/> Chemical Gloves      | <input type="checkbox"/> Cut Resistant Gloves    | <input type="checkbox"/> Tripod/Harness/Lifeline   | <input type="checkbox"/> 4 Gas Monitor   | <input type="checkbox"/> Respirator (APR) |
| <input type="checkbox"/> N-95 Dust Mask       | <input type="checkbox"/> Tyvek/Coveralls         | <input type="checkbox"/> Arc Flash Gloves/Clothing | <input type="checkbox"/> Ear Plugs/Muffs | <input type="checkbox"/> Safety Fence     |
| <input type="checkbox"/> Caution Tape         | <input type="checkbox"/> Traffic Control Devices | <input type="checkbox"/> _____                     | <input type="checkbox"/> _____           | <input type="checkbox"/> _____            |

Other Task Specific Engineering Controls utilized: \_\_\_\_\_

If working below grade level, UFPO has been notified: Y\_\_\_\_\_ N\_\_\_\_\_ UFPO# \_\_\_\_\_

All buried private and public owned utilities have been marked and verified: Y\_\_\_\_\_ N\_\_\_\_\_ (If NO, do not proceed with work)

List Job Safety Analysis (JSA's) Reviewed & Discussed: \_\_\_\_\_

SITE SUPERINTENDANT: Print Name \_\_\_\_\_ Signature: \_\_\_\_\_

LIST NWC EMPLOYEES COMPLETING THE TASKS AND ATTENDING THE TAILGATE SAFETY MEETING:

Print Name: \_\_\_\_\_ Print Name: \_\_\_\_\_

Print Name: \_\_\_\_\_ Print Name: \_\_\_\_\_

Print Name: \_\_\_\_\_ Print Name: \_\_\_\_\_

Print Name: \_\_\_\_\_ Print Name: \_\_\_\_\_

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>DATE: 6/10/2024</b>			<b>COMPANY: NW Contracting</b>	
<b>DESCRIPTION OF ACTIVITY: Backhoe Testing</b>				
<b>SAFETY REPRESENTATIVE: Lisa Daigler</b>			<b>LOCATION OF TASK:</b>	
POTENTIAL HAZARD CHECKLIST (Place a Checkmark if applicable)			PERSONAL PROTECTIVE EQUIPMENT	
<input checked="" type="checkbox"/> Pinch Points	<input checked="" type="checkbox"/> High Noise Levels	<input type="checkbox"/> (M)SDS Reviewed	<input type="checkbox"/> Safety Glasses	<input type="checkbox"/> Face Shield
<input type="checkbox"/> Potential Burns	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Sharp Objects or Tools	<input type="checkbox"/> Hard Hat	<input type="checkbox"/> Metatarsals/Steel Toe
<input checked="" type="checkbox"/> Flying Debris Eyes	<input type="checkbox"/> Manual Lifting	<input type="checkbox"/> Fire/Explosion	<input checked="" type="checkbox"/> Safety Shoes	<input type="checkbox"/> Flame Resistant Clothing
<input type="checkbox"/> Housekeeping	<input checked="" type="checkbox"/> Any Spills	<input checked="" type="checkbox"/> Inhalation Hazard	x Gloves	<input type="checkbox"/> Other:
<input type="checkbox"/> Electrical Shock	<input checked="" type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Confined Spaces	<input checked="" type="checkbox"/> Work Vest	<input type="checkbox"/> Other:
<input type="checkbox"/> Inadequate Access	<input checked="" type="checkbox"/> Hazardous Chemicals	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Fall Protection	<input type="checkbox"/> Other:
Comments:				

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>JSA</b>		
<b>Description of Work Performed</b>	<b>Hazards Associated with Each Step</b>	<b>Required Actions to Eliminate or Control the Hazard</b>
Backhoe Testing	Backhoe Excavation and Testing/Profile Contact with utility line, swing radius and blind spots, hit by/caught between	<p>Fill removed from the backhoe will be placed at least 1.5 ft away from trench</p> <p>Because of the loose fill soils, personnel will not enter into the backhoe trenches more than 4 ft. in depth, unless the backhoe trenches are widened to meet OSHA standards</p> <p>Always check for overhead power lines and be sure to have adequate clearance if working near overhead lines. Always keep the machine under control. Avoid fast swings, be sure of working range, be sure all persons and obstacles are clear before swinging or moving machine. Always have adequate clearance before swinging machine.</p>
	Injury from Hand Tool Operation	<p>Personnel awareness of potential hazards from hand tool operation</p> <p>SSO will ensure that all tools used onsite are in proper working order and are in good condition</p> <p>Personnel to inform SSO or Project Manager if tools require repair or replacement</p>
	Biological Hazards (ticks, bees, mosquitoes, snakes, etc.)	<p>Personnel will be aware of potential exposure to biological hazards.</p> <p>Wear appropriate clothing (hat, long-sleeve shirt, long pants, glove, boots, etc.) and insect repellent</p>
	Site Hazards Material Exposure	<p>Training and Safety awareness of potential exposure to contaminants at the site</p> <p>Training of all personnel decontamination procedures</p> <p>Appropriate PPE will be worn on site conditions and actions levels.</p> <p>All backhoe trenches will be monitored by personnel for levels of chemicals and vapors to determine if the level of PPE needs to be raised above Level D.</p> <p>Must sign off on health and safety plan.</p> <p>Visitors will be escorted around site by a 40 hour trained individual unless cleared with the SSO</p>
©OSEA, Inc.	Trench Cave in/Fall protection Stay Aware of where you are in relation to the hole. Cover hole with walkable surface & make barrier around it if not filled in immediately after work or left unattended.	Job Safety Analysis-Task Planner Form 2019



## TASK PLANNER/JOB SAFETY ANALYSIS

<b>DATE:</b> 6/10/2024			<b>COMPANY:</b> NW Contracting	
<b>DESCRIPTION OF ACTIVITY:</b> Driving				
<b>SAFETY REPRESENTATIVE:</b> Lisa Daigler			<b>LOCATION OF TASK:</b>	
<b>POTENTIAL HAZARD CHECKLIST (Place a Checkmark if applicable)</b>			<b>PERSONAL PROTECTIVE EQUIPMENT</b>	
<input checked="" type="checkbox"/> Pinch Points	<input type="checkbox"/> High Noise Levels	<input type="checkbox"/> (M)SDS Reviewed	<input type="checkbox"/> Safety Glasses	<input type="checkbox"/> Face Shield
<input type="checkbox"/> Potential Burns	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Sharp Objects or Tools	<input type="checkbox"/> Hard Hat	<input type="checkbox"/> Metatarsals/Steel Toe
<input type="checkbox"/> Flying Debris Eyes	<input type="checkbox"/> Manual Lifting	<input type="checkbox"/> Fire/Explosion	<input type="checkbox"/> Safety Shoes	<input type="checkbox"/> Flame Resistant Clothing
<input type="checkbox"/> Housekeeping	<input checked="" type="checkbox"/> Any Spills	<input type="checkbox"/> Inhalation Hazard	<input type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Other: Driver Inattention
<input type="checkbox"/> Electrical Shock	<input checked="" type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Confined Spaces	<input type="checkbox"/> Work Vest	<input type="checkbox"/> Other:
<input type="checkbox"/> Inadequate Access	<input type="checkbox"/> Hazardous Chemicals	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Fall Protection	<input type="checkbox"/> Other:
<b>Comments:</b>				

JSA		
Description of Work Performed	Hazards Associated with Each Step	Required Actions to Eliminate or Control the Hazard
Pre-Operation Inspection	Accidents associated with faulty or damaged vehicle	Perform a walk around of vehicle, including looking under the vehicle to be sure that there is nothing broken, damaged or leaking.
		Ensure that there is nothing that could be hazardous to health or flammable leaking from vehicle
		Should any damage or leaks be found, determine what it is and repair if possible
		If unable to fix the damage/leak, make arrangements to remove the vehicle from the site safely and to clean/repair leak and or damage
Driving	Injury from vehicular accidents	Wear seatbelts anytime vehicle is not in "Park".
		When driving , make sure to sit back as far from the steering wheel/windshield as is practicable.
		Use both hands on the wheel
		No cell phone use of any kind while driving and vehicles
	Struck by accidents	When entering the site, always use a spotter to direct you to your location

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>JSA</b>		
<b>Description of Work Performed</b>	<b>Hazards Associated with Each Step</b>	<b>Required Actions to Eliminate or Control the Hazard</b>
Driving	Struck by accidents	Approaching vehicles should announce their arrival using 2 short horn blasts
		If backing is necessary, adhere to Backing Policy in HASP
		Ensure that the vehicle is in "Park" position prior to exiting the vehicle
		Apply emergency brake and/or wheel chocks to prevent rolling of vehicle
		Never move the vehicle without first performing a walk-around inspection
All vehicle operations	Pinch/crush points	Be aware of your surroundings and the other people around you at all times
		Do not close the vehicle door without looking at it first to be sure nothing/ no one is in its way
		Do not park a vehicle so close to another vehicle/piece of equipment that the passengers cannot freely enter and exit the vehicle

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>DATE:</b> 6/10/2024			<b>COMPANY:</b> NW Contracting	
<b>DESCRIPTION OF ACTIVITY:</b> Decontamination Area Setup				
<b>SAFETY REPRESENTATIVE:</b> Lisa Daigler			<b>LOCATION OF TASK:</b>	
POTENTIAL HAZARD CHECKLIST (Place a Checkmark if applicable)			PERSONAL PROTECTIVE EQUIPMENT	
<input type="checkbox"/> Pinch Points	<input type="checkbox"/> High Noise Levels	<input checked="" type="checkbox"/> (M)SDS Reviewed	<input checked="" type="checkbox"/> Safety Glasses	<input type="checkbox"/> Face Shield
<input checked="" type="checkbox"/> Potential Burns	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Sharp Objects or Tools	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> Metatarsals/Steel Toe
<input type="checkbox"/> Flying Debris Eyes	<input type="checkbox"/> Manual Lifting	<input type="checkbox"/> Fire/Explosion	<input type="checkbox"/> Safety Shoes	<input type="checkbox"/> Flame Resistant Clothing
<input type="checkbox"/> Housekeeping	<input checked="" type="checkbox"/> Any Spills	<input checked="" type="checkbox"/> Inhalation Hazard	<input checked="" type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Other: Tyvek
<input type="checkbox"/> Electrical Shock	<input type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Confined Spaces	<input checked="" type="checkbox"/> Work Vest	<input type="checkbox"/> Other:
<input type="checkbox"/> Inadequate Access	<input checked="" type="checkbox"/> Hazardous Chemicals	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Fall Protection	<input type="checkbox"/> Other:
<b>Comments:</b>				

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>JSA</b>		
<b>Description of Work Performed</b>	<b>Hazards Associated with Each Step</b>	<b>Required Actions to Eliminate or Control the Hazard</b>
Decontamination area set up	Vehicle and heavy equipment in work area	<p>Operation of heavy equipment in accordance with the PSP</p> <p>Be alert when working around heavy equipment</p> <p>Ground guides for the backing of all vehicles</p> <p>No heavy equipment will be operated without a ground guide</p> <p>Barriers, warning signs, designated walkways or other safeguards must be provided where pedestrians are exposed to the risk of collision.</p>
	Muscle strain/injuries from improper lifting	Personnel will utilize proper lifting techniques or ask for assistance with moving/lifting objects
	Rain	Have proper PPE (ie rain gear, footwear, etc.) available. Be aware of slip hazards, puddles, etc.
	Sunshine	Have sunscreen available for ultraviolet protection. Have water for dehydration
	Snow	Have warm clothes available for cold temperatures
	Lightning	Do not begin or continue work until lightning subsides for 20 minutes
	Cold and Heat Stress	<p>Implement the cold/heat stress program as appropriate to conditions</p> <p>SSO will monitor workers for cold/heat stress symptoms</p>
	Slips, trips, falls	<p>Workers will be aware of potentially slippery surfaces and tripping hazards</p> <p>Work slowly during transit. Jumping, running, and horseplay are prohibited.</p> <p>Workers will keep all areas clean and free of debris to deter any unnecessary trips and falls.</p> <p>Clean up all spills immediately</p> <p>Personnel will notify the SSO of any unsafe conditions</p>
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## TASK PLANNER/JOB SAFETY ANALYSIS

<b>DATE: 6/10/2024</b>			<b>COMPANY: NW Contracting</b>	
<b>DESCRIPTION OF ACTIVITY: Equipment Decontamination</b>				
<b>SAFETY REPRESENTATIVE: Lisa Daigler</b>			<b>LOCATION OF TASK:</b>	
POTENTIAL HAZARD CHECKLIST (Place a Checkmark if applicable)			PERSONAL PROTECTIVE EQUIPMENT	
<input type="checkbox"/> Pinch Points	<input type="checkbox"/> High Noise Levels	<input checked="" type="checkbox"/> (M)SDS Reviewed	<input checked="" type="checkbox"/> Safety Glasses	<input type="checkbox"/> Face Shield
<input checked="" type="checkbox"/> Potential Burns	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Sharp Objects or Tools	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> Metatarsals/Steel Toe
<input type="checkbox"/> Flying Debris Eyes	<input type="checkbox"/> Manual Lifting	<input type="checkbox"/> Fire/Explosion	<input checked="" type="checkbox"/> Safety Shoes	<input type="checkbox"/> Flame Resistant Clothing
<input type="checkbox"/> Housekeeping	<input checked="" type="checkbox"/> Any Spills	<input checked="" type="checkbox"/> Inhalation Hazard	<input checked="" type="checkbox"/> Gloves	<input checked="" type="checkbox"/> Other: Tyvek
<input type="checkbox"/> Electrical Shock	<input checked="" type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Confined Spaces	<input checked="" type="checkbox"/> Work Vest	<input checked="" type="checkbox"/> Other: Respiratory Protection
<input type="checkbox"/> Inadequate Access	<input checked="" type="checkbox"/> Hazardous Chemicals	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Fall Protection	<input type="checkbox"/> Other:
<b>Comments:</b>				

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>JSA</b>		
<b>Description of Work Performed</b>	<b>Hazards Associated with Each Step</b>	<b>Required Actions to Eliminate or Control the Hazard</b>
Process items through decontamination in accordance with the PSP	Site Hazardous Material Exposure	<p>Training and safety awareness of potential exposure to contaminants at the site and decontamination procedure</p> <p>Appropriate PPE will be worn</p> <p>Personnel will follow decontamination procedure</p>
	Slips, trips, falls	<p>Workers will be aware of potentially slippery surfaces and tripping hazards</p> <p>Workers will keep all areas clean and free of debris to deter any unnecessary trips and falls</p> <p>Personnel will clean up all spills immediately</p> <p>Personnel will notify the SSO of any unsafe conditions</p>
	Heat and Cold Stress	<p>Implement the cold/heat stress control program</p> <p>SSO will monitor workers for heat/cold stress symptoms</p>
	Eye Injury	PPE (safety glasses, etc.) will be worn
Hot Water High Pressure Spray/Steam clean	Hot Water Burns	<p>Prior to decontamination of large equipment, the personnel will ensure that all other workers are outside of the decontamination areas.</p> <p>Personnel will wear appropriate PPE (e.g. gloves, Tyvek, splash goggles, etc.)</p>
	Spill/Leak of Contaminated Water	<p>Decontamination area will be designed to collect all contaminated wash/rinse water and to prevent the spread of run off.</p> <p>Berms and absorbent pads will be available for use in controlling spills.</p>

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>DATE:</b> 6/10/2024			<b>COMPANY:</b> NW Contracting	
<b>DESCRIPTION OF ACTIVITY:</b> Soil Digging (e.g. shovel, hand, auger, etc.)				
<b>SAFETY REPRESENTATIVE:</b> Lisa Daigler			<b>LOCATION OF TASK:</b>	
POTENTIAL HAZARD CHECKLIST (Place a Checkmark if applicable)			PERSONAL PROTECTIVE EQUIPMENT	
<input type="checkbox"/> Pinch Points	<input type="checkbox"/> High Noise Levels	<input type="checkbox"/> (M)SDS Reviewed	<input checked="" type="checkbox"/> Safety Glasses	<input type="checkbox"/> Face Shield
<input type="checkbox"/> Potential Burns	<input type="checkbox"/> Falling Objects	<input checked="" type="checkbox"/> Sharp Objects or Tools	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> Metatarsals/Steel Toe
<input checked="" type="checkbox"/> Flying Debris Eyes	<input type="checkbox"/> Manual Lifting	<input type="checkbox"/> Fire/Explosion	<input checked="" type="checkbox"/> Safety Shoes	<input type="checkbox"/> Flame Resistant Clothing
<input type="checkbox"/> Housekeeping	<input type="checkbox"/> Any Spills	<input type="checkbox"/> Inhalation Hazard	<input type="checkbox"/> Gloves	<input type="checkbox"/> Other:
<input type="checkbox"/> Electrical Shock	<input type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Confined Spaces	<input checked="" type="checkbox"/> Work Vest	<input type="checkbox"/> Other:
<input type="checkbox"/> Inadequate Access	<input type="checkbox"/> Hazardous Chemicals	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Fall Protection	<input type="checkbox"/> Other:
<b>Comments:</b>				

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>JSA</b>		
<b>Description of Work Performed</b>	<b>Hazards Associated with Each Step</b>	<b>Required Actions to Eliminate or Control the Hazard</b>
Soil Digging	Inhalation of contaminated dust, Inhalation of volatile contaminants, Ingestion of contaminants, Skin/eye contact with contaminated materials	<p>If exposure to contaminated materials occurs, promptly wash contaminated skin using soap or mild detergent and water</p> <p>Wash eyes with large amounts of water</p> <p>If a person breathes in a large amount of organic vapor, move the exposed person to fresh air. Perform artificial respiration if breathing stops.</p> <p>Keep the affected person warm and at rest. Obtain medical treatment for all of these situations as required.</p> <p>Wear appropriate safety equipment (i.e. goggles, gloves, boots, as appropriate for reducing risk of contamination.</p> <p>When transferring equipment and samples to land, follow procedures for demobilization.</p>
	Pinch points	Maintain awareness of procedures underway and be attentive of equipment operations
	Noise exposure	<p>Hearing protection will be worn in hazardous noise areas or working around heavy machinery or equipment.</p> <p>Wear earplugs when noise level from equipment exceeds 90 decibels (dBA) averaged over an eight-hour day.</p>



## TASK PLANNER/JOB SAFETY ANALYSIS

<b>DATE:</b> 6/10/2024			<b>COMPANY:</b> NW Contracting	
<b>DESCRIPTION OF ACTIVITY:</b> Tool Decontamination				
<b>SAFETY REPRESENTATIVE:</b> Lisa Daigler			<b>LOCATION OF TASK:</b>	
POTENTIAL HAZARD CHECKLIST (Place a Checkmark if applicable)			PERSONAL PROTECTIVE EQUIPMENT	
<input type="checkbox"/> Pinch Points	<input type="checkbox"/> High Noise Levels	<input checked="" type="checkbox"/> (M)SDS Reviewed	<input checked="" type="checkbox"/> Safety Glasses	<input type="checkbox"/> Face Shield
<input checked="" type="checkbox"/> Potential Burns	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Sharp Objects or Tools	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> Metatarsals/Steel Toe
<input checked="" type="checkbox"/> Flying Debris Eyes	<input checked="" type="checkbox"/> Manual Lifting	<input type="checkbox"/> Fire/Explosion	<input checked="" type="checkbox"/> Safety Shoes	<input type="checkbox"/> Flame Resistant Clothing
<input type="checkbox"/> Housekeeping	<input checked="" type="checkbox"/> Any Spills	<input checked="" type="checkbox"/> Inhalation Hazard	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Other:
<input type="checkbox"/> Electrical Shock	<input type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Confined Spaces	<input checked="" type="checkbox"/> Work Vest	<input type="checkbox"/> Other:
<input type="checkbox"/> Inadequate Access	<input checked="" type="checkbox"/> Hazardous Chemicals	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Fall Protection	<input type="checkbox"/> Other:
<b>Comments:</b>				

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>JSA</b>		
<b>Description of Work Performed</b>	<b>Hazards Associated with Each Step</b>	<b>Required Actions to Eliminate or Control the Hazard</b>
General	Site Hazardous Material Exposure	<p>Training and Safety awareness of potential exposure to contaminants at the site and decontamination procedures</p> <p>Appropriate PPE will be worn (e.g. gloves, splash goggles, Tyvek, etc.)</p> <p>Personnel will follow decontamination procedures.</p>
	Eye Injury	PPE (safety glass, etc, will be worn)
	Slips, Trips, Falls	<p>Workers will be aware of potentially slippery surfaces and tripping hazards</p> <p>Workers will keep all areas clean and free of debris to deter any unnecessary trips and falls.</p> <p>Personnel will clean up all spills immediately</p> <p>Personnel will notify SSO of any unsafe conditions.</p>
Remove gross contamination with brush	Damaging equipment or tools.	To clean instrumentation, follow manufacturer's instructions.
Place in decontamination bucket or rinse with decontamination solution	Spill/leakage	<p>Workers will have berms or spill absorbent pads nearby to prevent the spread of contaminated water.</p> <p>Decontamination area will be designed to minimize exposure</p>
Clean with wash solution	Chemical reaction with wash solution	<p>A fire extinguisher will be located in an accessible location on site.</p> <p>Review the chemicals of concern and use appropriate wash solution.</p>
Rinse with water	Contamination remains	Personnel will repeat proper decontamination procedure.

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>DATE:</b> 6/10/2024			<b>COMPANY:</b> NW Contracting	
<b>DESCRIPTION OF ACTIVITY:</b> All Activities				
<b>SAFETY REPRESENTATIVE:</b> Lisa Daigler			<b>LOCATION OF TASK:</b>	
<b>POTENTIAL HAZARD CHECKLIST (Place a Checkmark if applicable)</b>			<b>PERSONAL PROTECTIVE EQUIPMENT</b>	
<input type="checkbox"/> Pinch Points	<input checked="" type="checkbox"/> High Noise Levels	<input type="checkbox"/> (M)SDS Reviewed	<input checked="" type="checkbox"/> Safety Glasses	<input type="checkbox"/> Face Shield
<input type="checkbox"/> Potential Burns	<input type="checkbox"/> Falling Objects	<input type="checkbox"/> Sharp Objects or Tools	<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> Metatarsals/Steel Toe
<input checked="" type="checkbox"/> Flying Debris Eyes	<input type="checkbox"/> Manual Lifting	<input type="checkbox"/> Fire/Explosion	<input checked="" type="checkbox"/> Safety Shoes	<input type="checkbox"/> Flame Resistant Clothing
<input checked="" type="checkbox"/> Housekeeping	<input type="checkbox"/> Any Spills	<input type="checkbox"/> Inhalation Hazard	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Other:
<input type="checkbox"/> Electrical Shock	<input checked="" type="checkbox"/> Mobile Equipment	<input type="checkbox"/> Confined Spaces	<input checked="" type="checkbox"/> Work Vest (Fluorescent)	<input type="checkbox"/> Other:
<input type="checkbox"/> Inadequate Access	<input type="checkbox"/> Hazardous Chemicals	<input type="checkbox"/> Lockout/Tagout	<input checked="" type="checkbox"/> Fall Protection	<input type="checkbox"/> Other:
Comments: HAZARDS: Heat Stress, Traffic, Inclement Weather, Violence, Cold Stress				

JSA		
Description of Work Performed	Hazards Associated with Each Step	Required Actions to Eliminate or Control the Hazard
ALL	Heat Stress	Increase liquid consumption and number of rest breaks
		Monitor co-workers for signs of heat stress
		Eliminate alcohol consumption
		Do not use salt tablets
		Rest in cool/dry areas, such as air conditioned trucks
		Call EMTs for case of unconsciousness or other signs of stress
	Traffic	Wear fluorescent safety vest during all on-site visits
		Use cone/barricades to indicate work area to drivers and pedestrians
	Inclement Weather	Cease outdoor work during lightning storms
		Take cover indoors or in vehicle
		Listen to local forecasts for specific hazards (tornados, flash floods, etc.)
	High crime areas/ violence	Request police protection, if appropriate
		Be aware of surrounding and keep lookout

## TASK PLANNER/JOB SAFETY ANALYSIS

<b>JSA</b>		
<b>Description of Work Performed</b>	<b>Hazards Associated with Each Step</b>	<b>Required Actions to Eliminate or Control the Hazard</b>
ALL	Cold Stress	In temperatures below 45° F, wear warm clothing such as mittens and heavy socks, protective clothing or coveralls for win shielding
		At Air Temperatures below 35° F, wear the following:
		1. Insulated suits such as whole body thermal underwear
		2. Wool or polypropylene socks
		3. Insulated gloves and boots
		4. Hard hat liner or knit cap
		5. Insulated jacket, wind and water resistant outer layer
		6. Dress in layers, with thin lighter clothing next to the body
		At air temperatures below 35°, follow these procedures:
		1. In wet conditions, the outer layer of clothing should be impermeable
		2. If clothing becomes wet, change into dry clothes immediately
		3. Take breaks in a warm area
		4. Consume hot liquids during breaks, but limit coffee and tea due to their circulatory and diuretic effects
		5. Practice buddy system, any site worker observed with severe shivering shall leave the work are immediately

## B. Qualified Environmental Professional Certification Statement

NWC's Qualified Environmental Professional will oversee all invasive excavation work and the excavation and load-out of all contaminated excavated materials. NWC will provide the following QEP for the duration of this project.

### **Dale Gramza**

Mr. Gramza has firsthand experience at the Wyoming County Fireman's Training Grounds. From 2000 – 2004 he performed on site as Nature's Way Environmental's (NWC's) Senior Geologist / Driller and composed the subsurface investigation report in 2002.

### **Brice Reed**

Mr. Reed has 12 years of environmental construction and project management experience. Brice has worked with various state entities including NYS DEC, NYS PARKS, NYS OGS, Empire State Development, Erie County, EPA and SUNY, to provide a variety of environmental construction solutions.

### **Mr. Reed is the Project Manager for the following NWC Projects currently in- progress:**

SUNY Buffalo State Contract D230004: Decommissioning Underground Fuel Station Buffalo NY: Removal of old gas and diesel tanks and associated piping and contaminated soil - \$278,000

NYS DEC/EPA Contract D012107: Old Upper Mtn Road Remedial Site Lockport NY: Excavation dewatering and on-site water treatment system(s) - \$840,000

NYS DEC Contract D012978: Zoar Valey Flats Access Project: Construction of a new ADA accessible trail and construction access road to Cattaraugus creek Gowanda NY - \$780,000

NYS PARKS Contract D005904: Woodlawn SP Wetland Enhancement Project Blasdell NY. 2.9 acres of wetlands enhancement with a culvert to redirect water from Blasdell Creek, into the wetland, and out into Lake Erie. Remediation of soils. Installation of native plantings - \$1,680,000

NYS PARKS Contract D006130: Wildlife Barrier Letchworth State Park Castile NY: Construction of new 1,200 LF concrete barrier with plastic face and concrete tunnel under the park road to divert snakes, lizards, and other small animals off the main road to facilitate their survival in the park - \$424,000

Figure 3

State University of New York  
College at Buffalo

*On the recommendation of the faculty  
and by virtue of the authority vested in them,  
the trustees of the University have conferred on*

BRICE JAMES REED  
*the degree of*  
BACHELOR OF SCIENCE

*and have granted this diploma as evidence thereof  
given in the City of Buffalo in the State of New York  
in the United States of America.*

MAY 12, 2012

*H. Carl McColl*  
Chairman of the Board of Trustees

*Harold A. Jones*  
Chairman of the College Council



*Kevin Zimpe*  
Chancellor

*Clara P. Pappalardo*  
President of the College

*The University of the State of New York  
Education Department  
Office of the Professions  
REGISTRATION CERTIFICATE  
Do not accept a copy of this certificate*

License Number: 000408-1

Certificate Number: 9963349



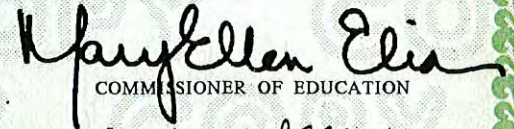
GRAMZA DALE M  
11749 MANITOU DR  
ALDEN

NY 14004-0000

is registered to practice in New York State through 10/31/2020 as a(n)  
**PROFESSIONAL GEOLOGIST**

LICENSEE/REGISTRANT

  
EXECUTIVE SECRETARY

  
COMMISSIONER OF EDUCATION

  
DEPUTY COMMISSIONER  
FOR THE PROFESSIONS

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3553 Crittenden Road  
Alden, NY 14004  
716.937.6527  
nwcontracting.com

Brice Reed  
P. O. Box 21  
Colden, NY 14033  
716-984-4166  
brice@nwcontracting.com

## Education

- 2012            **State University of New York College at Buffalo – Buffalo, NY**  
Bachelor of Science – Earth Science  
Minor - Geology
- 2008            **Erie Community College – Orchard Park, NY**  
Associates in Science – Earth Science

## Work Experience

- 2014-Present            Project Manager  
***Nature's Way Environmental, DBA NW Contracting***  
*3553 Crittenden Road*  
*Alden, NY 14004*  
Coordination of site activities including subcontractors and suppliers. Solicitation and selection of materials, suppliers, and subcontractors. Scheduling of sites and personnel. Bidding new contracts. Management of submittals including Submittal Exchange. Attends industry events. Assists with business development and recruitment of new staff.
- 2012-2014            Fuel Systems Technician/Environmental Technician/Site Foreman  
***Nature's Way Environmental, DBA NW Contracting***  
*3553 Crittenden Road*  
*Alden, NY 14004*  
Operation of small equipment, including lifts, rollers, skid steers, backhoe, etc. Site technician for the wiring and electronics involved in fuel system installations, obtains and preps soil and groundwater samples. Performs personal and community air monitoring. Manual labor as necessary. Directs and trains new crew members. Maintains training, operation, and maintenance of air-purifying respirators and supplied air respirators including SCBA.
- 2011-2012            Electrical Apprentice  
***Atkot Electric***  
*8880 Hayes Hollow Road*  
*Colden, NY 14033*  
Completed various projects involving electrical wiring and various machine shop electrical services. Performance of general construction activities involving updating and remodeling.





3553 Crittenden Rd.  
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**Dale M Gramza**  
**11749 Manitou Dr.**  
**Alden NY 14004**  
**716-572-3672**

**Licensing:** 2017 The University of the State of New York Education Department Office of the Professions  
Professional Geologist License Number 00408-1

**Education:** 1980 State University of New York at Buffalo-Buffalo, NY  
Bachelor of Science- Geology

1976 Genesee Community College-Batavia NY  
Associates of Science-Biology

**Work Experience:**

2021-2024 Independent Consultant-Professional Geologist

1998-2021 Drilling Division Manager  
***Nature's Way Environmental Consultants and Contractors, Inc***  
***3553 Crittenden Rd, Alden NY 14004***  
Overall Management, coordinating projects, and scheduling of field crews  
Management of subsurface investigation projects and drilling activities  
Completion of written reports for hydrogeologic/environmental investigations

1985-1998 Project Manager/Senior Geologist  
***Earth Dimensions, Inc***  
***1091 Jamison Rd. Elma NY 14059***  
Project Management, designing/implementing hydrogeologic investigation  
Field investigations, drilling, sampling and rock coring.  
Geologic and hydrogeologic report writing  
Operations management of drill activities

1984-1985 Well Site Geologist  
***Technical Drilling Services***  
***Oklahoma City, Oklahoma***  
Served as a liaison between drilling operations in the field and the geology departments of major oil companies

1981-1984 Well Site Geologist  
***Core Laboratories***  
***Oklahoma City, Oklahoma***  
Mud Logger, gas monitoring, and reporting

1980-1981 Ice Core Sampler  
***State University of New York at Buffalo***  
***Ice Core Laboratories, Buffalo NY***  
Organization and computerization of core library  
Distribution of ice core samples to various universities throughout the U.S.



**Training/Certifications:**

OSHA 40-hour training with 8-hour annual refresher courses  
OSHA 10-hour Construction Operations training  
American Red Cross Safety training/CPR/First Responder  
Confined Space Entry

**Professional Affiliations:**

Buffalo Association of Professional Geologist



**NEW YORK**  
STATE OF  
OPPORTUNITY

**Department of  
Environmental  
Conservation**

**Endorsed Training**  
**Brice Reed**  
**Certificate of Completion**

*Is hereby awarded this Certificate signifying completion of the course:*

**“NYS DEC 4-Hour Erosion and Sediment Control Training”**

***Attested Day of Training: February 1, 2023***

***Assigned Trainee Stormwater Identification Number – 20T-020123-12***

*This Erosion and Sediment Control (E&SC) Training is Endorsed by the NYS Department of Environmental Conservation, Division of Water, for “Trained Contractors” and Certain “Qualified Inspectors” who must receive 4 hours of E&SC training every three years to satisfy requirements under the Construction Activity State Pollution Discharge Elimination System (SPDES) General Permit.*

***Expiration: 3 years from date of training***

Instructed by: Dave Reckahn T - 20

<http://www.dec.ny.gov/chemical/8699.html#DEC> ~ 625 Broadway, 4<sup>th</sup> Floor, Albany NY 12233-3505 ~ (518) 402-8111 ~ DWSWtrng@gw.dec.state.ny.us

# REPORT OF GEOTECHNICAL INVESTIGATION

**PROPOSED FIRE TRAINING CENTER EXPANSION  
3651 WEATHERSFIELD ROAD  
SECTION 107, BLOCK 2, PORTION OF LOT 3  
GAINESVILLE, WYOMING COUNTY, NEW YORK**



*Prepared for:*

**KIDENEY ARCHITECTS, P.C.  
143 Genesee Street  
Buffalo, New York 14203**

*Prepared by:*

**WHITESTONE ASSOCIATES ENGINEERING  
& GEOLOGY NY, PLLC  
500 Canal View Boulevard  
Rochester, New York 14623**



---

**Charles B. Guzzetta, P.G.  
Regional Manager, Upstate New York**



---

**Ryan R. Roy, P.E.  
Vice President**

**Whitestone Project No.: GR2320893.Y00  
September 28, 2023**

*Office Locations:*



500 CANAL VIEW BOULEVARD  
ROCHESTER, NY 14623  
585.252.6879  
whitestoneassoc.com

September 28, 2023

*via email*

**KIDENEY ARCHITECTS, P.C.**  
142 Genesee Street  
Buffalo, New York 14203

Attention: Anthony E. Gorski, AIA, CSI  
Principal

**Regarding: PROPOSED FIRE TRAINING CENTER EXPANSION  
3651 WETHERSFIELD ROAD  
SECTION 107, BLOCK 2, PORTION OF LOT 3  
GAINESVILLE, WYOMING COUNTY, NEW YORK  
WHITESTONE PROJECT NO.: GR2320893.Y00**

Dear Mr. Gorski:

Whitestone Associates Engineering & Geology NY, PLLC (Whitestone) is pleased to submit the attached *Report of Geotechnical Investigation* for the above-referenced project. The report presents the results of Whitestone's site visit and subsurface exploration, and includes design recommendations for the foundations, floor slab, pavements, and related earthwork associated with the proposed fire training center expansion.

Whitestone appreciates the opportunity to be of continued service to Kidney Architects, P.C. Should you have questions regarding the attached report, contact us at (585) 252-6879.

Sincerely,

**WHITESTONE**

Charles B. Guzzetta, P.G.  
Regional Manager, Upstate New York

Ryan R. Roy, P.E.  
Vice President

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23.docx  
Enclosures  
Copy: Laurence W. Keller, P.E., Whitestone Associates, Inc.

*Office Locations:*

NEW JERSEY

PENNSYLVANIA

MASSACHUSETTS

CONNECTICUT

FLORIDA

NEW HAMPSHIRE

NEW YORK

# REPORT OF GEOTECHNICAL INVESTIGATION

Proposed Fire Training Center Expansion  
3651 Wethersfield Road  
Section 107, Block 2, Portion of Lot 3  
Gainesville, Wyoming County, New York

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# **REPORT OF GEOTECHNICAL INVESTIGATION**

**Proposed Fire Training Center Expansion  
3651 Wethersfield Road  
Section 107, Block 2, Portion of Lot 3  
Gainesville, Wyoming County, New York**

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### **FIGURES**

FIGURE 1 Boring Location Plan

### **APPENDICES**

APPENDIX A Records of Subsurface Exploration (Borings B-1 and B-2)

APPENDIX B Supplemental Information (USCS, Terms & Symbols)

## **SECTION 1.0**

### **Summary of Findings**

Whitestone has conducted an exploration and evaluation of the subsurface conditions on the site of the proposed fire training center expansion to be located at 3651 Wethersfield Road in the Town of Gainesville, Wyoming County, New York. Based on an undated *Soil Boring Location Plan* provided by Kideney Architects, P.C., the proposed development will include the construction of a single-story addition with a footprint of approximately 2,200 square feet at the northeastern corner of the existing building. No new stormwater management facilities or retaining walls are planned.

The geotechnical investigation included conducting a reconnaissance of the project site, advancing two borings, and collecting soil samples for laboratory testing and physical characterization. Site subsurface conditions consisted of topsoil or asphaltic concrete/granular subbase over existing fill, which is underlain by a natural alluvial deposit, in turn underlain by glacial till, then weathered bedrock. Groundwater was encountered within the borings during the exploration at depths ranging from 13 feet below ground surface (fbgs) to 16 fbgs.

The results of the investigation indicate the site is suitable for conventional shallow foundations bearing on the alluvial deposit or structural fill placed over the alluvial deposit. Existing fill was encountered up to a depth of four fbgs, however, deeper existing fill may be encountered during construction between the widely spaced borings. Overexcavation of existing fill under footings and replacement with structural fill may be required for a portion of the building footprint. The subgrade should be reviewed by the geotechnical engineer, as specified in this report prior to fill placement or structural support. The results of the investigation also indicate a ground-supported floor slab may derive support from properly inspected, improved, and approved existing fill and/or compacted structural fill. Additionally, the site conditions support the use of typical pavement sections using standard New York State Department of Transportation (NYSDOT) specified materials.

The above summary is intended to provide an overview of the geotechnical findings and recommendations and is not fully developed. Greater detail is presented in the following sections. The entire report must be read for comprehensive understanding of the information contained herein.



# **SECTION 2.0**

## **Introduction**

### **2.1 AUTHORIZATION**

Anthony E. Gorski, AIA, CSI, Principal at Kideney Architects, P.C., issued authorization to Whitestone to conduct a geotechnical investigation on this site relevant to the construction of a proposed fire training center at 3651 Wethersfield Road in the Town of Gainesville, Wyoming County, New York. The geotechnical investigation was conducted in general accordance with Whitestone's August 29, 2023 proposal.

### **2.2 PURPOSE**

The purpose of this exploration and analysis was to:

- ▶ ascertain the various soil profile components at test locations;
- ▶ estimate the engineering characteristics of the proposed foundation bearing and subgrade materials;
- ▶ provide geotechnical criteria for use by the design engineers in preparing the foundation, floor slab, and pavement design;
- ▶ provide recommendations for required earthwork and subgrade preparation;
- ▶ record groundwater or bedrock levels (if encountered) at the time of the investigation and discuss their potential impact on the proposed construction; and
- ▶ recommend additional investigation and/or analysis, if warranted.

### **2.3 SCOPE**

The scope of the exploration and analysis included the subsurface exploration, field testing and sampling, laboratory testing, and a geotechnical engineering analysis and evaluation of the subsurface materials. This *Report of Geotechnical Investigation* is limited to addressing the site conditions related to the physical support of the proposed construction.

#### **2.3.1 Field Exploration**

Field exploration of the project site was conducted by means of two borings, identified as B-1 and B-2, advanced with a truck-mounted CME 75 drill rig equipped with hollow stem augers. The borings were advanced to termination depths of 35.5 fbgs and 38.9 fbgs. Borings were backfilled with excavated

materials generated from the investigation and the surface patched with “cold patch” asphalt where appropriate. The *Records of Subsurface Exploration* for the borings are included in Appendix A of this report. Test locations are shown on the *Boring Location Plan* included as Figure 1.

Test locations were based on project information provided to Whitestone at the time of the investigation, including the Kideney Architects, P.C. *Soil Boring Location Plan*. The subsurface tests were conducted in the presence of a Whitestone representative, who conducted field tests, recorded visual classifications, and collected samples of the various strata encountered. Test locations were established in the field using normal taping procedures and estimated right angles. These locations are presumed to be approximate.

The borings and Standard Penetration Tests (SPTs) were conducted in general accordance with ASTM International (ASTM) designation D1586. The Standard Penetration Resistance value (N) can be used as an indicator of the consistency of fine-grained soils and the relative density of coarse-grained soils. The N-value for various soil types can be correlated with the engineering behavior of earthworks and foundations.

Groundwater level observations, where encountered, were recorded during and immediately after the completion of field operations prior to backfilling test locations. Seasonal variations, temperature effects, and recent rainfall conditions may influence the levels of the groundwater, and observed levels will depend on the permeability of the soils. Groundwater elevations derived from sources other than seasonally observed groundwater monitoring wells may not be representative of true groundwater levels.

### **2.3.2 Laboratory Testing**

Laboratory testing was conducted to determine additional, pertinent engineering characteristics of representative samples of on-site soils. The laboratory testing was conducted in general accordance with applicable ASTM standard test methods and included physical testing of the natural alluvial deposit and glacial till.

**Physical/Textural Analysis:** Representative samples of the site soils were subjected to laboratory testing that included moisture content determination (ASTM D2216) in order to conduct supplementary engineering soil classifications and to assess possible re-use of the site soils as structural fill. The results are shown on the *Records of Subsurface Exploration* in Appendix A. The engineering classifications are useful when considered in conjunction with the additional site data to estimate properties of the soil types encountered and to predict soil behavior under construction and service loads.

## SECTION 3.0

### Site Description

#### 3.1 LOCATION AND DESCRIPTION

The site is located at 3651 Wethersfield Road in the Town of Gainesville, Wyoming County, New York, Latitude 42.6855 North, Longitude 78.2406 West. The site is identified further as Section 107, Block 2, portion of Lot 3. The site is currently occupied by the Wyoming County Fire Training Center.

The site is surrounded by undeveloped, wooded land and isolated residences. Access to the site is from Weathersfield Road. The site of the proposed construction is shown on the *Boring Location Plan* included as Figure 1.

#### 3.2 EXISTING CONDITIONS

**Existing Development:** At the time of Whitestone's investigation, the subject site is primarily a paved area with a portion grass covered. The shed on the northern side of the building has already been demolished.

**Topography:** Based on a review of the *USGS 7.5 Minute Series Warsaw Quadrangle, New York (2023)* and Whitestone's visual observations, the site is relatively level at approximately 2,030 feet above National American Vertical Datum of 1988 (NAVD).

**Utilities:** The site is serviced by electric and telecommunication utilities with well water and a septic system. The utility information contained in this report is presented for general discussion only and is not intended for construction purposes.

**Site Drainage:** Surface run-off generally consists of sheet flow over paved areas to adjacent grass-covered areas.

#### 3.3 SITE GEOLOGY

According to the University of the State of New York, The State Education Department *Surficial Geologic Map of New York, Niagara Sheet (1988)*, the natural subsurface soils consist of glacial till. A layer of alluvial material was encountered in the borings overlying the glacial till. The University of the State of New York, The State Education Department *Geologic Map of New York, Niagara Sheet (1970)* indicates that the subject site is underlain by the Upper Devonian-age Machias Formation, consisting of sandstone, shale, and siltstone, part of the Canadaway Group.

### 3.4 PROPOSED CONSTRUCTION

Based on the aforementioned *Soil Boring Location Plan* provided by Kideney Architects, P.C., the proposed development will include the construction of a single-story addition with a footprint of approximately 2,200 square feet at the northeastern corner of the existing building. No new stormwater management facilities or retaining walls are planned.

Whitestone anticipates the proposed building will be a single-story, cold-formed metal-framed structure constructed with a ground-supported concrete floor slab and no basement. Maximum column and wall loads are expected to be on the order of:

- ▶ interior column loads - 40 kips;
- ▶ load bearing walls - 4.0 kips per lineal foot; and
- ▶ floor slab loads - 100 pounds per square foot.

The scope of Whitestone's investigation and the professional advice contained in this report were generated based on the project details and loading noted herein. Revisions or additions to the design details enumerated in this report should be brought to the attention of Whitestone for additional evaluation as warranted.

## SECTION 4.0 Subsurface Conditions

Details of the subsurface materials encountered in the borings are presented on the *Records of Subsurface Exploration* in Appendix A of this report. The subsurface conditions encountered in the test locations consisted of the following generalized strata in order of increasing depth.

### 4.1 SUBSURFACE SOIL CONDITIONS

**Surface Cover Materials:** Boring B-1 encountered five inches of topsoil at the ground surface. Boring B-2 encountered 3.5 inches of asphaltic concrete at the ground surface underlain by 10 inches of granular subbase.

**Existing Fill:** Beneath the surface cover materials, the borings encountered existing fill, consisting of brown to black, loose to medium dense, sandy silt with gravel to silty sand with gravel. SPT N-values recorded within the existing fill were variable, ranging from five blows per foot (bpf) to 19 bpf. The fill extended to depths of two fbgs and four fbgs.

**Alluvial Deposit:** Beneath the existing fill, the borings encountered an alluvial deposit, consisting of reddish-brown to brown, medium stiff to stiff (occasionally very stiff), silty clay with sand (USCS: CL) to brown, loose, sandy silt (USCS: ML) to brown medium dense, silty sand with gravel (USCS: SM). SPT N-values recorded within the alluvial deposit were variable, ranging from five bpf to 17 bpf. The alluvial deposit extended to a depth of 13 fbgs.

**Glacial Till:** Beneath the alluvial deposit, the borings encountered glacial till, consisting of brown to reddish-brown, medium dense (occasionally loose or dense), silty sand with gravel (USCS: SM). SPT N-values recorded within the glacial till were variable, ranging from five bpf to 33 bpf. The glacial till extended to depths of 30 fbgs and 38 fbgs.

**Weathered and Apparent Bedrock:** Borings B-1 and B-2 encountered weathered shale bedrock at depths of 30 fbgs and 38 fbgs, and refusal on more competent apparent bedrock at depths of 35.5 fbgs and 38.9 fbgs, respectively. Refusal materials were not sampled through rock coring efforts. Rock coring techniques would be required to further characterize the nature and extent of the refusal materials.

### 4.2 GROUNDWATER

Groundwater was encountered in the borings during Whitestone's subsurface exploration activities at depths ranging from 13 fbgs to 16 fbgs. Static and perched/trapped water conditions generally will fluctuate seasonally and following periods of precipitation.

# SECTION 5.0

## Conclusions and Recommendations

### 5.1 GENERAL

The results of the investigation indicate the building may be supported on conventional shallow foundations bearing on the natural alluvial deposit or structural fill placed on the alluvial deposit, following subgrade review by the geotechnical engineer, as specified in this report. Existing fill was encountered up to a depth of four fbgs, however, deeper existing fill may be encountered during construction between the widely spaced borings. Overexcavation of existing fill and replacement with structural fill may be required for a portion of the building footprint. The results of the investigation also indicate the floor slab may derive support from compacted, improved, and approved existing fill and/or structural fill placed to restore grade. Additionally, the site conditions support the use of typical pavement sections using standard NYSDOT specified materials.

### 5.2 SITE PREPARATION AND EARTHWORK

**Surface Cover Stripping:** Prior to stripping operations, utilities should be identified and secured. Surface cover materials to be stripped should be removed from within and at least five feet beyond the limits of the proposed building and pavement areas. Given the size of the site and the configuration of the proposed building, any buried structural elements encountered during excavations should be removed entirely. The contractor should be required to conduct earthwork in accordance with the recommendations in this report, including backfilling any excavation, etc. with structural fill. Fill or backfill placed within the proposed building area should be placed as structural fill in accordance with Sections 5.2 and 5.3 of this report.

**Surface Preparation/Proofrolling:** Prior to placing fill or subbase materials to raise or restore grades to the desired subgrade elevations, the existing exposed soils should be compacted to a firm surface with several passes in two perpendicular directions of a minimum 10-ton roller. The surface should then be proofrolled with a loaded tandem axle truck in the presence of the geotechnical engineer to help identify soft or loose pockets that may require removal and replacement, or further evaluation. Proofrolling should be conducted after a suitable period of dry and non-freezing weather to reduce the likelihood of degrading an otherwise stable subgrade. Should construction be started during the winter months, Whitestone should be contacted for alternate surface preparation procedures. Fill or backfill should be placed and compacted in accordance with Section 5.3.

**Weather Performance Criteria:** Portions of the site soils are moisture sensitive and will soften when exposed to water. Every effort should be made to maintain drainage of surface water runoff away from construction areas by grading and limiting the exposure of excavations and prepared subgrades to precipitation. Accordingly, excavation and fill placement procedures should be conducted during

favorable weather conditions. Overexcavation of saturated soils and replacement with controlled structural fill per Section 5.3 of this report may be required prior to resuming work on disturbed subgrade materials.

**Subgrade Protection and Maintenance:** Portions of the site soils are moisture sensitive. Every effort should be made to minimize disturbance of the on-site materials by construction traffic and surface runoff. The on-site soils will deteriorate when subjected to repeated wetting and construction traffic and likely will require extensive drying or overexcavation and replacement. Construction schedules and budgets should account for contingencies, such as importing materials to raise grades or restore overexcavations when construction must occur following wet weather or on an expedited basis. However, if properly protected and maintained as recommended herein, the site soils will provide adequate support for the proposed construction. The site contractors should employ necessary means and methods to protect the subgrade including, but not limited to the following:

- ▶ leaving the existing pavement in place as long as practical to protect the subgrade from freeze-thaw cycles and exposure to inclement weather;
- ▶ sealing exposed subgrade soils on a daily basis with a smooth drum roller operated in static mode;
- ▶ regrading the site as needed to maintain positive drainage away from construction areas;
- ▶ removing wet surficial soils and ruts immediately; and
- ▶ limiting exposure to construction traffic especially following inclement weather and subgrade thawing.

### 5.3 STRUCTURAL FILL AND BACKFILL

**Imported Fill Material:** Imported material placed as structural fill or backfill to raise elevations or restore design grades should consist of clean, relatively well-graded sand or gravel with a maximum particle size of three inches and up to 15 percent, by weight, of material finer than a #200 sieve. Imported material should be free of silt, clay, organics, and deleterious material. Imported material should be approved by a qualified geotechnical engineer prior to delivery to the site.

**On-Site Material:** The fine grained alluvial soils and existing fill are marginally acceptable for reuse as structural fill and/or backfill because of their difficult workability. Reuse of the fine grained soils will likely require extensive moisture conditioning and/or drying during extended periods of warm, dry weather to facilitate reuse, workability, and compaction in fill areas. Reuse of on-site soils will be contingent on careful inspection in the field by the owner's geotechnical engineer.

Stringent quality control and inspection by the geotechnical engineer will be required for suitable portions of the on-site soils to be reused as structural fill and backfill, and to confirm that the soils are properly placed and compacted within two percent of their optimum moisture content.

Immediate re-use of on-site soils for structural fill or backfill should not be anticipated as the site natural soils are moisture sensitive. On-site natural materials that are or become wet will require extensive handling, such as discing and aerating, which may not be practical during wet seasons or where site area is limited. In order to attempt the re-use of on-site soil, the contractor should cover stockpiled soils, seal subgrades each day with a smooth drum roller, and provide proper surface drainage during forecasted wet weather. Alternatively, imported fill materials may be required to expedite earthwork operations. The stripped surface cover materials should not be used as structural fill or backfill.

**Submerged Fill:** Consideration should be given to placing an open-graded, 0.75-inch crushed stone in the wet (flooding, perched water, or groundwater) to provide a working mat, expedite dewatering efforts and enable subsequent placement of structural fill or backfill in the dry. Prior to placing submerged fill materials, free water and disturbed materials should be removed to the extent recommended by the geotechnical engineer. A fines barrier geotextile, such as Mirafi 140N or equivalent, should be placed at the base and sides of the overexcavation to separate the crushed stone from underlying and adjacent soils. The fabric also should be placed on top of the crushed stone prior to subsequent fill placement, if fill soils with a substantial amount of fines are to be used to restore grade.

**Compaction and Placement Requirements:** Fill and backfill should be placed in loose lifts no more than 12 inches thick when compacted with a vibratory roller compactor weighing at least one ton, and eight inches when compacted with a plate compactor. A sheepsfoot roller may be appropriate if fine grained material is used as fill. Fill and backfill should be compacted to 95 percent of the maximum dry density within three percent of the optimum moisture content, as determined by ASTM D1557 (Modified Proctor).

**Structural Fill Testing:** A sample of the imported fill material or on-site material proposed for reuse as structural fill or backfill should be submitted to the owner's geotechnical engineer for analysis and approval at least one week prior to its use. The placement of fill and backfill should be monitored by a qualified engineering technician, so that the specified material and lift thicknesses are properly installed. A sufficient number of in-place density tests should be conducted, so that the specified compaction is achieved throughout the height of the fill or backfill.

#### **5.4 GROUNDWATER CONTROL**

Groundwater was encountered at depth within the borings during this investigation. However, perched/trapped water may be encountered during construction above non-permeable layers within the existing fill and alluvial deposit. Construction phase dewatering will likely consist of removing surface water runoff, infiltrating water, or trapped water at this site. Whitestone anticipates that construction phase dewatering, if required, would include installing temporary sump pits and filtered pumps within trenches and excavations.



Proper grading and drainage should be incorporated into the site design and construction phase grading to discourage ponding of surface runoff. Every effort should be made to maintain drainage of surface runoff away from construction areas by grading. The contractor should limit exposure of excavations and prepared subgrades to rainfall. Overexcavation of wet soils and replacement with controlled structural fill per Section 5.3 of this report may be required prior to resuming work on disturbed subgrade soils.

## 5.5 FOUNDATIONS

**Shallow Foundation Design Criteria:** The results of the investigation and engineering analyses indicate that the proposed structure may be supported on conventional shallow foundations bearing on the natural alluvial deposit or structural fill placed over the alluvial deposit. Existing fill was encountered up to a depth of four fbgs, however, deeper existing fill may be encountered during construction between the widely spaced borings. Overexcavation of existing fill replacement with structural fill may be required for a portion of the building footprint. Foundations bearing on suitably prepared subgrades may be designed to impart a maximum allowable net bearing pressure of 3,000 pounds per square foot. Regardless of loading conditions, new foundations should be sized no less than minimum dimensions of 24 inches for continuous wall footings and 36 inches for isolated column footings.

Foundation subgrades should be compacted with a roller operated in static mode in the presence of the geotechnical engineer to densify any disturbed soils. The fine-grained soils are susceptible to disturbance by vibrations from compaction equipment and other construction activity. Compaction should therefore only be attempted under the direction of the geotechnical engineer, such that the underlying fine-grained materials do not become disturbed by the compaction process. A smooth bladed bucket would be appropriate for excavation of the fine-grained soils.

Footings should be designed such that the maximum toe pressure due to the combined effect of vertical loads (including soil weight) and overturning moment does not exceed the recommended maximum allowable bearing pressure. In addition, positive contact pressure should be maintained throughout the base of the footings such that no uplift or tension exists between the base of the footings and the supporting soil. Uplift loads should be resisted by the weight of the concrete footing. Side friction should be neglected when proportioning the footings, and lateral resistance should be provided by friction resistance at the base of the footings. A coefficient of friction (ultimate) against sliding of 0.4 is recommended for use in the design of concrete foundations bearing within the site soils or imported structural fill.

**Foundation Inspection/Overexcavation Criteria:** Whitestone recommends that the suitability of the bearing materials along new footing bottoms be reviewed by a geotechnical engineer prior to placing concrete for the footings. Special attention should be given to areas of the site underlain by soft/loose conditions. In the event that isolated areas of unsuitable materials are encountered in footing excavations, overexcavation and replacement of the materials or deeper foundation embedment may be necessary to

provide a suitable footing subgrade. Overexcavation to be restored with structural fill should extend at least one foot laterally beyond footing edges for each vertical foot of overexcavation. Lateral overexcavation may be eliminated if grade is restored with lean concrete.

**Settlement:** Whitestone estimates post construction settlements of new building foundations will be on the order of less than one inch, if the recommendations outlined in this report are properly implemented. Differential settlements of new building foundations should be less than one half inch.

**Footing Embedment Depths:** Perimeter wall footings and exterior spread footings should bear at a minimum depth of four feet below adjacent exterior grades, or the depth required by local building codes, to provide protection from frost penetration. Interior footings not subject to frost action (including during construction) may be placed at a depth of 18 inches below the slab subgrade, but should not be placed on existing fill.

## 5.6 FLOOR SLAB

Whitestone anticipates that the properly inspected, improved, and approved existing fill and/or compacted structural fill will be suitable for support of the proposed floor slab provided these materials are properly evaluated, compacted, and proofrolled in accordance with Sections 5.2, 5.3, and 5.11 of this report during favorable weather conditions. Any areas that become softened or disturbed as a result of wetting and/or repeated exposure to construction traffic should be removed and replaced with compacted structural fill. The properly prepared structural fill material is expected to yield a minimum subgrade modulus (k) of 150 psi/in.

A minimum 12-inch thick layer of NYSDOT 733-04 *Subbase Course, Type 2* (or approved equivalent) should be placed below the floor slab to provide a uniform base. If the floor supports moisture-sensitive covering or equipment, a moisture vapor barrier should also be installed beneath the floor slab in accordance with flooring manufacturer's recommendations.

## 5.7 PAVEMENT DESIGN CRITERIA

**General:** Whitestone anticipates that the properly inspected and approved existing fill or compacted structural fill, and/or backfill placed to raise or restore design elevations will be suitable for support of any new pavements, provided these materials are properly evaluated, compacted, and proofrolled in accordance with Sections 5.2, 5.3, and 5.11 of this report during favorable weather conditions.

**Design Criteria:** A California Bearing Ratio of 8.0 has been assigned to the properly prepared subgrade soils for pavement design purposes. This value was correlated with pertinent soil support values and assumed traffic loads to prepare flexible and rigid pavement designs per the AASHTO *Guide for the Design of Pavement Structures*.

Design traffic loads were assumed based on typical volumes for similar facilities and correlated with 18-kip equivalent single axle loads (ESAL) for a 20-year life. Estimated maximum pavement loads of 30,000 ESALs and 75,000 ESALs were used for the standard-duty and heavy-duty pavement areas, respectively. These values assume the pavements primarily will accommodate both automobile and limited heavier truck traffic, with the heavier truck traffic designated to the main drive lanes. Actual loading experienced is anticipated to be less than these values.

**Pavement Sections:** Pavement components should meet material specifications from NYSDOT *Standard Specifications* specified below. The recommended flexible pavement section is tabulated below:

FLEXIBLE PAVEMENT SECTION			
Layer	Material	Standard-Duty Thickness (inches)	Heavy-Duty Thickness (inches)
Asphalt Top Course	NYSDOT 12.5 mm F3 Top Course HMA, 70 Series Compaction (Superpave); PG 64S-22	1.5	1.5
Asphalt Binder Course	NYSDOT 19 mm F9 Binder Course HMA, 70 Series Compaction (Superpave); PG 64S-22	1.5	2.5
Granular Subbase	NYSDOT Type 2 Subbase	12.0	12.0

A rigid concrete pavement should be used to provide suitable support at areas of high traffic or severe turns, such as at ingress/egress locations. The recommended rigid pavement is tabulated below:

RIGID PAVEMENT SECTION		
Layer	Material	Thickness (inches)
Surface	4,000 psi air-entrained concrete	6.0 <sup>1</sup>
Granular Subbase	NYSDOT Type 2 Subbase	12.0

Note<sup>1</sup>: The outer edges of concrete pavements are susceptible to damage as trucks move from rigid pavement to adjacent flexible pavement. Therefore, the thickness at the outer two feet of the rigid concrete pavement should be 12 inches. The concrete should be reinforced with at least one layer of 6-inch by 6-inch W5.4/W5.4 welded wire fabric (ASTM A185).

**Additional Design Considerations:** The pavement section thickness design presented in this report is based on the design parameters detailed herein and is contingent on proper construction, inspection, and maintenance. Additional pavement thickness may be required by local code. The designs are contingent on achieving the minimum soil support value in the field. To accomplish this requirement, subgrade soil and supporting fill or backfill must be placed, compacted, and evaluated in accordance with Sections 5.2, 5.3, and 5.11 of this report. Proper drainage should be provided for the pavement structure, including appropriate grading and surface water control.

The performance of the pavement also will depend on the quality of materials and workmanship. Whitestone recommends that NYSDOT standards for materials, workmanship, and maintenance be applied to this site. Project specifications should include verifying that the installed asphaltic concrete material composition is within tolerance for the specified materials and that the percentage of air voids of the installed pavement is within specified ranges for the respective materials. Rigid concrete pavements should be suitably air-entrained, jointed, and reinforced in general accordance with ACI 330R-08 *Guide for the Design and Construction of Concrete Parking Lots*.

## 5.8 RETAINING WALLS/LATERAL EARTH PRESSURES

The following parameters may be used for design of the any retaining walls, below-grade walls, and other structures reliant on granular materials to provide adequate drainage. However, the parameters are not directly applicable to the design of mechanically stabilized earth (MSE) retaining walls, which require proprietary design methods for the selected earth retention system.

**Lateral Earth Pressures:** Retaining/below-grade walls should be capable of withstanding active and at-rest earth pressures. Backfill soils adjacent to these structures should consist of freely draining granular fill composed primarily of coarse to fine sand. Clayey and/or silty soils, such as the majority of the site soils, should not be used as retaining wall backfill. With an active earth pressure coefficient ( $K_a$ ) of 0.33, level backfill, and an assumed maximum backfill soil unit weight of 140 pounds per cubic foot (pcf), an equivalent fluid pressure of 46 psf per foot of wall height should be used in design of retaining/below-grade walls which are free to rotate.

Retaining/below-grade walls and wall corners typically are restrained from lateral movement and should be designed using at-rest earth pressures. A coefficient of at-rest earth pressure ( $K_o$ ) of 0.5, for a level backfill, is recommended for retaining/below-grade walls designed to resist at-rest earth pressures, which assume no lateral movement. With an assumed maximum total unit weight of backfill of approximately 140 pcf, an equivalent fluid pressure of 70 pounds per square foot per foot of wall height should be used in design of restrained retaining/below-grade wall and wall corners. A coefficient of friction of 0.4 against sliding can be used for concrete on the existing site soils. Additional lateral earth pressures from a sloped backfill or any temporary or long-term surcharge loads also should be included in the design. Retaining wall design should include a global stability analysis.

**Backfill Criteria:** Whitestone recommends that granular soils be used to backfill behind retaining walls. The granular backfill materials should consist of clean, relatively well graded sand or gravel with a maximum particle size of three inches and up to 15 percent of material finer than a #200 U.S. Standard sieve.

Whitestone recommends that backfill directly behind any walls be compacted with light, hand-held compactors. Heavy compactors and grading equipment should not be allowed to operate within a zone of influence measured at a 45-degree angle from the base of the walls during backfilling to avoid developing excessive temporary or long-term lateral soil pressures.

**Wall Drainage:** Positive drainage should be provided at the base of the below-grade walls. Where wall drainage is not provided, the wall should be designed to withstand full hydrostatic pressure.

Whitestone should be notified if any other retaining structures or design considerations requiring lateral earth pressure estimations are proposed. Specific recommendations for temporary retaining structures are beyond Whitestone's scope of work.

## 5.9 SEISMIC AND LIQUEFACTION CONSIDERATIONS

The subsurface conditions are most consistent with a Site Class D, as defined by the *New York State Building Code*. The site soils are not susceptible to earthquake induced liquefaction.

## 5.10 EXCAVATIONS

The site soils encountered during this investigation typically is, at a minimum, consistent with Type C Soil Conditions as defined by 29 CFR Part 1926 (OSHA), which require a maximum unbraced excavation angle of 1.5:1 (horizontal:vertical). Actual conditions encountered during construction should be evaluated by a competent person (as defined by OSHA), so that safe excavation methods and/or shoring and bracing requirements are implemented.

Care should be taken when excavating close to the adjacent building. Excavation adjacent to the adjacent building should not undermine or otherwise disturb the existing foundations. As a guide, excavation should not be conducted within a slope of 1:1 (horizontal to vertical) out and down from the outside edge of the existing footings. Should excavation be required within this zone, the existing foundation should be underpinned. In addition, depending on the configuration of the existing footings and foundation walls with respect to the proposed excavations, lateral support may also have to be provided until the new structure is in place and the area is backfilled.

## 5.11 SUPPLEMENTAL POST INVESTIGATION SERVICES

**Construction Inspection and Monitoring:** The owner's geotechnical engineer with specific knowledge of the site subsurface conditions and design intent should conduct inspection, testing, and consultation during construction as described in previous sections of this report. Monitoring and testing should also be conducted to confirm that any encountered underground structures are properly backfilled, the existing surface cover materials are properly removed, and suitable materials, used for controlled fill, are properly placed and compacted over suitable subgrade soils. The proofrolling of all subgrades prior to foundation, floor slab, and pavement support should be witnessed and documented by the owner's geotechnical engineer.

## **SECTION 6.0**

### **General Comments**

Supplemental recommendations may be required upon finalization of construction plans or if significant changes are made in the characteristics or location of the proposed structure. Soil bearing conditions should be checked at the appropriate time for consistency with those conditions encountered during Whitestone's geotechnical investigation.

The recommendations presented herein should be utilized by a qualified engineer in preparing the project plans and specifications. The engineer should consider these recommendations as minimum physical standards, which may be superseded by local and regional building codes and structural considerations. These recommendations are prepared for the sole use of Kideney Architects, P.C. and Wyoming County for the specific project detailed and should not be used by any third party. These recommendations are relevant to the design phase and should not be substituted for construction specifications.

The possibility exists that conditions between borings may differ from those at specific test locations, and conditions may not be as anticipated by the designers or contractors. In addition, the construction process may alter soil and rock conditions. Therefore, experienced geotechnical personnel should observe and document the construction procedures used and the conditions encountered.

Whitestone assumes that a qualified contractor will be employed to conduct the construction work, and that the contractor will be required to exercise care to ensure excavations are conducted in accordance with applicable regulations and good practice. Particular attention should be paid to avoiding damaging or undermining adjacent properties and maintaining slope stability.

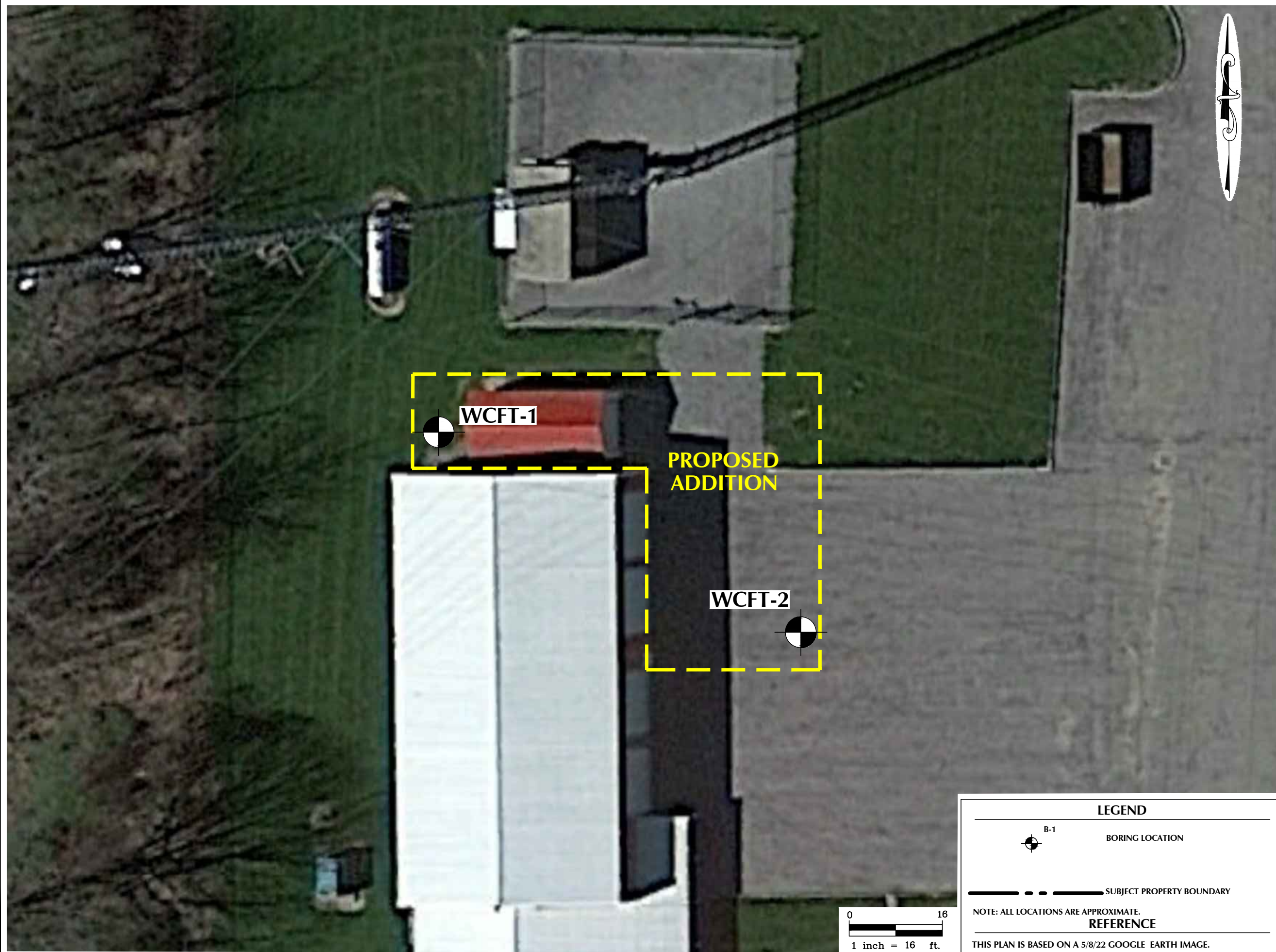
Whitestone recommends that the services of the geotechnical engineer be engaged to test and evaluate the materials in the footing excavations prior to concreting in order to determine that the materials will support the bearing pressures. Monitoring and testing also should be conducted to check that suitable materials are used for controlled fills and that they are properly placed and compacted over suitable subgrade.

The exploration and analysis of the foundation conditions reported herein are considered sufficient in detail and scope to form a reasonable basis for the foundation design. The recommendations submitted for the proposed construction are based on the available soil information and the design details furnished by Kideney Architects, P.C. Deviations from the noted subsurface conditions encountered during construction should be brought to the attention of the geotechnical engineer.

*The geotechnical engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been promulgated after being prepared in accordance with generally accepted professional engineering practice in the fields of foundation engineering, soil mechanics, and engineering geology. No other warranties, express or implied, are made.*



**FIGURE 1**  
**Boring Location Plan**



**LEGEND**

**B-1** BORING LOCATION

SUBJECT PROPERTY BOUNDARY

**REFERENCE**

NOTE: ALL LOCATIONS ARE APPROXIMATE.

THIS PLAN IS BASED ON A 5/8/22 GOOGLE EARTH IMAGE.

# WHITESTONE

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<b>DRAWING TITLE:</b>	<b>BORING LOCATION PLAN</b>	
<b>CLIENT:</b>	<b>KIDNEY ARCHITECTS, P.C.</b>	
<b>PROJECT:</b>	<b>PROPOSED FIRE TRAINING CENTER 3651 WETHERSFIELD ROAD GAINESVILLE, WYOMING COUNTY, NEW YORK</b>	

<b>PROJECT #:</b>	
<b>GR2320893.Y00</b>	
<b>DESIGNED BY:</b>	<b>PROJ. MGR.:</b>
<b>MR</b>	<b>RR</b>
<b>DATE:</b>	<b>FIGURE:</b>
<b>9/13/23</b>	<b>1</b>
<b>SCALE:</b>	
<b>1" = 16'</b>	



**APPENDIX A**  
**Records of Subsurface Exploration**

# RECORD OF SUBSURFACE EXPLORATION

<b>Project:</b> Proposed Fire Training Center Expansion		<b>WAI Project No.:</b> GM2320893.Y00	
<b>Location:</b> 3651 Wethersfield Road, Gainesville, Wyoming County, New York		<b>Client:</b> Kidney Architects, P.C	
<b>Surface Elevation:</b> ± <u>NS</u> feet Above NAVD88	<b>Date Started:</b> <u>9/11/2023</u>	<b>Water Depth   Elevation</b> (feet bgs)   (ft NAVD88)	<b>Cave-In Depth   Elevation</b> (feet bgs)   (ft NAVD88)
<b>Termination Depth:</b> <u>35.5</u> feet bgs	<b>Date Completed:</b> <u>9/11/2023</u>	<b>During:</b> <u>13.0</u>   --   ▾	<b>At Completion:</b> --   --   ▾
<b>Proposed Location:</b> <u>Building</u>	<b>Logged By:</b> <u>FM</u>	<b>24 Hours:</b> --   --   ▾	<b>24 Hours:</b> --   --   ▾
<b>Drill / Test Method:</b> <u>HSA / SPT (Autohammer)</u>	<b>Contractor:</b> <u>TD</u>		
	<b>Equipment:</b> <u>CME 75</u>		

SAMPLE INFORMATION						DEPTH (feet)	STRATA	DESCRIPTION OF MATERIALS (Classification)	REMARKS
Depth (feet)	No	Type	Blows Per 6"	Rec. (in.)	N				
						0.0	TS	5" Topsoil	
0 - 2	S-1	X	2 - 3 - 2 - 2	11	5	0.0 - 2.0	EXISTING FILL	Brown to Black, Loose, Sandy Silt with Gravel (FILL)	
2 - 4	S-2	X	4 - 4 - 5 - 4	6	9	2.0 - 4.0	ALLUVIAL DEPOSIT	Brown, Loose, Sandy Silt (ML)	w/c = 14.4%
4 - 6	S-3	X	2 - 3 - 5 - 7	10	8	4.0 - 6.0		As Above (ML)	w/c = 13.7%
6 - 8	S-4	X	7 - 8 - 7 - 6	9	15	6.0 - 8.0		Brown, Medium Dense, Silty Sand with Gravel (SM)	w/c = 12.2%
8 - 10	S-5	X	4 - 3 - 4 - 3	4	7	8.0 - 10.0		Reddish-Brown, Medium Stiff, Silty Clay with Sand (CL)	w/c = 16.3%
10 - 12	S-6	X	2 - 3 - 3 - 5	4	6	10.0 - 12.0		As Above (CL)	w/c = 14.5%
						13.0			
13 - 15	S-7	X	5 - 4 - 6 - 7	6	10	13.0 - 15.0	GLACIAL TILL	Brown, Loose to Medium Dense, Silty Sand with Gravel (SM)	w/c = 18.8%
15 - 17	S-8	X	2 - 3 - 9 - 11	10	12	15.0 - 17.0		As Above, Medium Dense (SM)	w/c = 14.1%
18 - 20	S-9	X	5 - 14 - 14 - 12	10	28	18.0 - 20.0		As Above, Brown (SM)	w/c = 11.1%
20 - 22	S-10	X	7 - 7 - 5 - 12	12	12	20.0 - 22.0		As Above (SM)	w/c = 13.1%
23 - 25	S-11	X	12 - 14 - 14 - 19	11	28	23.0 - 25.0		As Above (SM)	w/c = 10.5%

# RECORD OF SUBSURFACE EXPLORATION

<b>Project:</b> Proposed Fire Training Center Expansion		<b>WAI Project No.:</b> GM2320893.Y00	
<b>Location:</b> 3651 Wethersfield Road, Gainesville, Wyoming County, New York		<b>Client:</b> Kideney Architects, P.C	
<b>Surface Elevation:</b> ± <u>NS</u> feet Above NAVD88	<b>Date Started:</b> <u>9/11/2023</u>	<b>Water Depth   Elevation</b> (feet bgs)   (ft NAVD88)	<b>Cave-In Depth   Elevation</b> (feet bgs)   (ft NAVD88)
<b>Termination Depth:</b> <u>35.5</u> feet bgs	<b>Date Completed:</b> <u>9/11/2023</u>	<b>During:</b> <u>13.0</u>   --   <input type="checkbox"/>	<b>At Completion:</b> <u>16.0</u>   --   <input type="checkbox"/>
<b>Proposed Location:</b> <u>Building</u>	<b>Logged By:</b> <u>FM</u>	<b>24 Hours:</b> <u>--</u>   --   <input type="checkbox"/>	<b>24 Hours:</b> <u>--</u>   --   <input type="checkbox"/>
<b>Drill / Test Method:</b> <u>HSA / SPT (Autohammer)</u>	<b>Contractor:</b> <u>TD</u>		
	<b>Equipment:</b> <u>CME 75</u>		

SAMPLE INFORMATION						DEPTH (feet)	STRATA	DESCRIPTION OF MATERIALS (Classification)	REMARKS
Depth (feet)	No	Type	Blows Per 6"	Rec. (in.)	N				
		X				25.0	GLACIAL TILL		
30 - 30.7	S-12	X	19 - 50/2"	3	-	30.0	BEDROCK	Weathered Shale Bedrock	
35 - 35.5	S-13	X	50	3	-	35.0	BEDROCK	Weathered Shale Bedrock	
						40.0			
						45.0			
						50.0			
Boring Log B-1 Terminated upon Auger Refusal at Depth of 35.5 fbgs.									

# RECORD OF SUBSURFACE EXPLORATION

<b>Project:</b> Proposed Fire Training Center Expansion		<b>WAI Project No.:</b> GM2320893.Y00	
<b>Location:</b> 3651 Wethersfield Road, Gainesville, Wyoming County, New York		<b>Client:</b> Kideney Architects, P.C	
<b>Surface Elevation:</b> ± <u>NS</u> feet Above NAVD88	<b>Date Started:</b> <u>9/11/2023</u>	<b>Water Depth   Elevation</b> (feet bgs)   (ft NAVD88)	<b>Cave-In Depth   Elevation</b> (feet bgs)   (ft NAVD88)
<b>Termination Depth:</b> <u>38.9</u> feet bgs	<b>Date Completed:</b> <u>9/11/2023</u>	<b>During:</b> <u>13.0</u>   --	<b>At Completion:</b> --   --
<b>Proposed Location:</b> <u>Building</u>	<b>Logged By:</b> <u>FM</u>	<b>24 Hours:</b> --   --	<b>24 Hours:</b> --   --
<b>Drill / Test Method:</b> <u>HSA / SPT (Autohammer)</u>	<b>Contractor:</b> <u>TD</u>		
	<b>Equipment:</b> <u>CME 75</u>		

SAMPLE INFORMATION						DEPTH (feet)	STRATA	DESCRIPTION OF MATERIALS (Classification)	REMARKS
Depth (feet)	No	Type	Blows Per 6"	Rec. (in.)	N				
						0.0	PAVEMENT	3.5" Asphalt	
							GRAVEL	10" Granular Subbase	
2 - 4	S-1		7 - 10 - 9 - 4	7	19	4.0	EXISTING FILL	Brown, Medium Dense, Silty Sand with Gravel (FILL)	
4 - 6	S-2		6 - 3 - 2 - 4	3	5	5.0	ALLUVIAL DEPOSIT	Brown, Medium Stiff, Silty Clay with Sand (CL)	w/c = 14.4%
6 - 8	S-3		3 - 4 - 5 - 5	13	9			As Above, Stiff (CL)	w/c = 14.4%
8 - 10	S-4		3 - 5 - 5 - 6	8	10			As Above (CL)	w/c = 14.4%
10 - 12	S-5		5 - 7 - 10 - 11	15	17			As Above, Very Stiff (CL)	w/c = 14.4%
13 - 15	S-6		3 - 3 - 2 - 3	10	5	13.0	GLACIAL TILL	Brown, Loose, Silty Sand with Gravel (SM)	
15 - 17	S-7		9 - 8 - 6 - 6	10	14	15.0		As Above, Medium Dense (SM)	
18 - 20	S-8		9 - 8 - 15 - 18	13	23	20.0		As Above (SM)	
20 - 22	S-9		9 - 8 - 18 - 20	10	26			As Above (SM)	
23 - 25	S-10		10 - 13 - 17 - 21	12	30	25.0		As Above, Medium Dense to Dense (SM)	

# RECORD OF SUBSURFACE EXPLORATION

<b>Project:</b> Proposed Fire Training Center Expansion		<b>WAI Project No.:</b> GM2320893.Y00	
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<b>Termination Depth:</b> <u>38.9</u> feet bgs	<b>Date Completed:</b> <u>9/11/2023</u>	<b>During:</b> <u>13.0</u>   --   <input type="checkbox"/>	<b>At Completion:</b> --   --   <input type="checkbox"/>
<b>Proposed Location:</b> <u>Building</u>	<b>Logged By:</b> <u>FM</u>	<b>At Completion:</b> <u>14.0</u>   --   <input type="checkbox"/>	<b>24 Hours:</b> --   --   <input type="checkbox"/>
<b>Drill / Test Method:</b> <u>HSA / SPT (Autohammer)</u>	<b>Contractor:</b> <u>TD</u>	<b>24 Hours:</b> --   --   <input type="checkbox"/>	
	<b>Equipment:</b> <u>CME 75</u>		

SAMPLE INFORMATION						DEPTH	STRATA	DESCRIPTION OF MATERIALS (Classification)	REMARKS
Depth (feet)	No	Type	Blows Per 6"	Rec. (in.)	N	(feet)			
		<input checked="" type="checkbox"/>				25.0			
28 - 30	S-11	<input checked="" type="checkbox"/>	11 - 15 - 18 - 19	15	33	30.0	GLACIAL TILL	Brown, Dense, Silty Sand with Gravel (SM)	
33 - 35	S-12	<input checked="" type="checkbox"/>	6 - 6 - 6 - 11	24	12	35.0		As Above, Medium Dense (SM)	
38 - 38.9	S-13	<input checked="" type="checkbox"/>	10 - 50/5"	4	-	38.0	BEDROCK	Weathered Shale Bedrock	
						40.0		Boring Log B-2 Terminated at Depth of 38.9 feet below ground surface.	
						45.0			
						50.0			

**APPENDIX B**  
**Supplemental Information**  
**(USCS, Terms & Symbols)**

## UNIFIED SOIL CLASSIFICATION SYSTEM

### SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)	GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	SAND AND SANDY SOILS	CLEAN SAND (LITTLE OR NO FINES)	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)	GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	MORE THAN 50% OF COARSE FRACTION <u>RETAINED</u> ON NO. 4 SIEVE	CLEAN SAND (LITTLE OR NO FINES)	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)	SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMITS <u>LESS</u> THAN 50	SM	SILTY SANDS, SAND-SILT MIXTURES
			SC	CLAYEY SANDS, SAND-CLAY MIXTURES
MORE THAN 50% OF MATERIAL IS <u>SMALLER</u> THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMITS <u>GREATER</u> THAN 50	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
HIGHLY ORGANIC SOILS	SILTS AND CLAYS	LIQUID LIMITS <u>GREATER</u> THAN 50	OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
HIGHLY ORGANIC SOILS	SILTS AND CLAYS	LIQUID LIMITS <u>GREATER</u> THAN 50	CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS FOR SAMPLES WITH 5% TO 12% FINES

#### GRADATION\*

% FINER BY WEIGHT

TRACE..... 1% TO 10%  
 LITTLE..... 10% TO 20%  
 SOME..... 20% TO 35%  
 AND..... 35% TO 50%

#### COMPACTNESS\* Sand and/or Gravel

RELATIVE DENSITY

LOOSE..... 0% TO 40%  
 MEDIUM DENSE..... 40% TO 70%  
 DENSE..... 70% TO 90%  
 VERY DENSE..... 90% TO 100%

#### CONSISTENCY\* Clay and/or Silt

RANGE OF SHEARING STRENGTH IN POUNDS PER SQUARE FOOT

VERY SOFT..... LESS THAN 250  
 SOFT..... 250 TO 500  
 MEDIUM..... 500 TO 1000  
 STIFF..... 1000 TO 2000  
 VERY STIFF..... 2000 TO 4000  
 HARD..... GREATER THAN 4000

\* VALUES ARE FROM LABORATORY OR FIELD TEST DATA, WHERE APPLICABLE. WHEN NO TESTING WAS PERFORMED, VALUES ARE ESTIMATED.

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#### Office Locations:

NEW JERSEY

PENNSYLVANIA

MASSACHUSETTS

CONNECTICUT

FLORIDA

NEW HAMPSHIRE

NEW YORK

## GEOTECHNICAL TERMS AND SYMBOLS

### SAMPLE IDENTIFICATION

The Unified Soil Classification System is used to identify the soil unless otherwise noted.

### SOIL PROPERTY SYMBOLS

- N: Standard Penetration Value: Blows per ft. of a 140 lb. hammer falling 30" on a 2" O.D. split-spoon.  
 Qu: Unconfined compressive strength, TSF.  
 Qp: Penetrometer value, unconfined compressive strength, TSF.  
 Mc: Moisture content, %.  
 LL: Liquid limit, %.  
 PI: Plasticity index, %.  
 δd: Natural dry density, PCF.  
 ▽: Apparent groundwater level at time noted after completion of boring.

### DRILLING AND SAMPLING SYMBOLS

- NE: Not Encountered (Groundwater was not encountered).  
 SS: Split-Spoon - 1 3/8" I.D., 2" O.D., except where noted.  
 ST: Shelby Tube - 3" O.D., except where noted.  
 AU: Auger Sample.  
 OB: Diamond Bit.  
 CB: Carbide Bit  
 WS: Washed Sample.

### RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION

<u>Term (Non-Cohesive Soils)</u>	<u>Standard Penetration Resistance</u>
Very Loose	0-4
Loose	4-10
Medium Dense	10-30
Dense	30-50
Very Dense	Over 50

<u>Term (Cohesive Soils)</u>	<u>Qu (TSF)</u>
Very Soft	0 - 0.25
Soft	0.25 - 0.50
Firm (Medium)	0.50 - 1.00
Stiff	1.00 - 2.00
Very Stiff	2.00 - 4.00
Hard	4.00+

### PARTICLE SIZE

Boulders	8 in.+	Coarse Sand	5mm-0.6mm	Silt	0.074mm-0.005mm
Cobbles	8 in.-3 in.	Medium Sand	0.6mm-0.2mm	Clay	-0.005mm
Gravel	3 in.-5mm	Fine Sand	0.2mm-0.074mm		

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*Office Locations:*



**APPENDIX B**  
**SITE-WIDE INSPECTION FORMS,**  
**ENGINEERING CONTROL SYSTEMS INSPECTION**  
**FORMS,**  
**AND SITE PHOTOGRAPHS**

**APPENDIX C**

**WYOMING COUNTY FIRE TRAINING CENTER – SITE MANAGEMENT PLAN**

**NYSDEC SITE NO. V-00604-9**

**SITE-WIDE INSPECTION FORM**

Date: 8/25/22 Inspector: ROBERT J. MURPHY  
 Weather: SUNNY Signature: *Robert J. Murphy*  
 Temperature: 65°F Company: AECOM

Quarter: First Second Third Fourth ANNUAL  
 (Circle One)

Item Inspected	Maintenance Needed (Y/N)	Comments
General Site Access	N	PAVEMENT IN EXCELLENT CONDITION AREA IS WELL MAINTAINED
Soil Cover/Grass Cover	N	WELL MAINTAINED, NO BARE SPOTS
Monitoring Wells	N	ALL WELLS WERE OK. MW-05 HAS SLIGHT BEND TO IT BUT OK.
Treated Soil Disposal Area	N	HEAVY VEGETATION COVER, NO BARE SPOTS
Drainage Swales/Channels	N	SWALES CLEAR OF DEBRIS NO EROSION/BLOCKAGES
North Permeable Reactive Wall	N	GOOD CONDITION, NO SIGNS OF SETTLEMENT/EROSION
South Permeable Reactive Wall	N	GOOD CONDITION, NO SIGNS OF SETTLEMENT/EROSION.

**APPENDIX G**

**WYOMING COUNTY FIRE TRAINING CENTER – SITE MANAGEMENT PLAN**

**NYSDEC SITE NO. V-00604-9**

**ENGINEERING CONTROL SYSTEMS INSPECTION FORM**

<b>Component</b>	<b>Item</b>	<b>Condition</b>
<b>North Permeable Reactive Wall</b>	Obvious subsidence, depressions or cracks Evidence of ponded water Stressed or missing vegetation Soil erosion due to surface runoff Animal burrows Piezometers Stone erosion control blanket (east end) Groundwater seepage from PRW Other:	NO DEPRESSIONS, CRACKS, OR SUBSIDENCE OBSERVED. NO PONDING WATER VEGETATION IS ABUNDANT/ THICK NO EROSION OBSERVED NO BURROWS OBSERVED TWO PIEZOMETERS WERE PRESENT + IN GOOD CONDITION. THE STONE EROSION CONTROL IS PRESENT AND OK, NO SEEPAGE WAS OBSERVED.
<b>South Permeable Reactive Wall</b>	Obvious subsidence, depressions or cracks Evidence of ponded water Stressed or missing vegetation Soil erosion due to surface runoff Animal burrows Groundwater seepage from PRW Other:	NO DEPRESSIONS, CRACKS, OR SUBSIDENCE OBSERVED NO PONDING WATER PRESENT. VEGETATION WAS ABUNDANT AND THICK NO EVIDENCE OF EROSION. NO ANIMAL BURROWS WERE FOUND. NO SEEPAGE WAS OBSERVED

**Date:**

8/25/22

**Inspector:**

ROBERT J. MURPHY  
*Robert J. Murphy*

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**WYOMING COUNTY FIRE TRAINING CENTER PHOTOGRAPHIC LOG –  
PERIODIC INSPECTION (AUGUST 25, 2022)**



Photo 1: Main entrance to site (looking north).



Photo 2: General view of Front Pond and current Fire Training Facility (looking north).

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**WYOMING COUNTY FIRE TRAINING CENTER PHOTOGRAPHIC LOG –  
PERIODIC INSPECTION (AUGUST 25, 2022)**



Photo 3: Treated Soil Disposal Area (looking north-northeast).



Photo 4: Former North and South Fire Pit Area (looking north-northeast).

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**WYOMING COUNTY FIRE TRAINING CENTER PHOTOGRAPHIC LOG –  
PERIODIC INSPECTION (AUGUST 25, 2022)**



Photo 5: North Permeable Reactive Wall (looking west).



Photo 6: Gravel Drainage Area at East End of North Permeable Reactive Wall (looking north).

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**WYOMING COUNTY FIRE TRAINING CENTER PHOTOGRAPHIC LOG –  
PERIODIC INSPECTION (AUGUST 25, 2022)**



Photo 7: South Permeable Reactive Wall (looking south).

**APPENDIX C**

**WYOMING COUNTY FIRE TRAINING CENTER – SITE MANAGEMENT PLAN**

**NYSDEC SITE NO. V-00604-9**

**SITE-WIDE INSPECTION FORM**

Date: 5/25/23 Inspector: ROBERT J. MURPHY  
 Weather: Sunny Signature: Robert J. Murphy  
 Temperature: 55°F Company: AECOM

Quarter: First Second Third Fourth ANNUAL  
 (Circle One)

Item Inspected	Maintenance Needed (Y/N)	Comments
General Site Access	N	PAVEMENT IN EXCELLENT CONDITION AREA IS WELL MAINTAINED
Soil Cover/Grass Cover	N	WELL MAINTAINED, NO BARE SPOTS.
Monitoring Wells	N	ALL WELLS OK. MW-05 IS BENT BUT OK
Treated Soil Disposal Area	N	HEAVY VEGETATION COVER, NO BARE SPOTS
Drainage Swales/Channels	N	SWALES CLEAR OF DEBRIS. NO EROSION / BLOCKAGES
North Permeable Reactive Wall	N	GOOD CONDITION, NO SIGNS OF SETTLEMENT / EROSION
South Permeable Reactive Wall	N	GOOD CONDITION, NO SIGNS OF SETTLEMENT / EROSION



APPENDIX G

WYOMING COUNTY FIRE TRAINING CENTER – SITE MANAGEMENT PLAN

NYSDEC SITE NO. V-00604-9

ENGINEERING CONTROL SYSTEMS INSPECTION FORM

Component	Item	Condition
North Permeable Reactive Wall	Obvious subsidence, depressions or cracks Evidence of ponded water Stressed or missing vegetation Soil erosion due to surface runoff Animal burrows Piezometers Stone erosion control blanket (east end) Groundwater seepage from PRW Other:	NO DEPRESSIONS, CRACKS, OR SUBSIDENCE OBSERVED. NO PONDING WATER VEGETATION IS ABUNDANT/THICK NO EROSION OBSERVED NO ANIMAL BURROWS OBSERVED TWO PIEZOMETERS WERE PRESENT + IN GOOD CONDITION THE STONE EROSION CONTROL IS PRESENT + OK. NO SEEPAGE WAS OBSERVED
South Permeable Reactive Wall	Obvious subsidence, depressions or cracks Evidence of ponded water Stressed or missing vegetation Soil erosion due to surface runoff Animal burrows Groundwater seepage from PRW Other:	NO DEPRESSIONS, CRACKS, OR SUBSIDENCE OBSERVED NO PONDING WATER PRESENT VEGETATION ABUNDANT AND THICK NO EVIDENCE OF EROSION NO ANIMAL BURROWS WERE FOUND NO SEEPAGE WAS OBSERVED.

Date:

5/25/23

Inspector:

ROBERT J. MURPHY  
Robert J. Murphy

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**WYOMING COUNTY FIRE TRAINING CENTER PHOTOGRAPHIC LOG –  
PERIODIC INSPECTION (May 25, 2023)**



Photo 1: Main entrance to site (looking northwest).



Photo 2: General view of Front Pond and current Fire Training Facility (looking northeast).

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**WYOMING COUNTY FIRE TRAINING CENTER PHOTOGRAPHIC LOG –  
PERIODIC INSPECTION (May 25, 2023)**



Photo 3: Treated Soil Disposal Area (looking north-northeast).



Photo 4: Shooting range building and MW-05 with bent casing (looking north-northeast).

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**WYOMING COUNTY FIRE TRAINING CENTER PHOTOGRAPHIC LOG –  
PERIODIC INSPECTION (May 25, 2023)**



Photo 5: North Permeable Reactive Wall (looking west).



Photo 6: Gravel Drainage Area at East End of North Permeable Reactive Wall (looking south).

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**WYOMING COUNTY FIRE TRAINING CENTER PHOTOGRAPHIC LOG –  
PERIODIC INSPECTION (May 25, 2023)**



Photo 7: South Permeable Reactive Wall (looking south).

**APPENDIX C**

**WYOMING COUNTY FIRE TRAINING CENTER – SITE MANAGEMENT PLAN**

**NYSDEC SITE NO. V-00604-9**

**SITE-WIDE INSPECTION FORM**

**Date:** 9/20/24      **Inspector:** Colin Wasteneys  
**Weather:** Sunny, clear      **Signature:** Colin Wasteneys  
**Temperature:** 80° F      **Company:** AECOM

**Quarter:**    ~~First~~    ~~Second~~    ~~Third~~    ~~Fourth~~    Annual  
 (Circle One)

Item Inspected	Maintenance Needed (Y/N)	Comments
General Site Access	N	Facility expansion construction activities ongoing. Parking + driveway will be repaved
Soil Cover/Grass Cover	N	Well maintained, no bare spots.
Monitoring Wells	Y	MW-11 surrounded by vegetation overgrowth. Cut back to improve access.
Treated Soil Disposal Area	N	Clean soil will be spread across area and reseeded as part of expansion project
Drainage Swales/Channels	N	On-site swales in good condition.
North Permeable Reactive Wall	N	Good condition. No sign of settlement or erosion.
South Permeable Reactive Wall	N	Good condition. No sign of settlement or erosion.

APPENDIX G

WYOMING COUNTY FIRE TRAINING CENTER – SITE MANAGEMENT PLAN

NYSDEC SITE NO. V-00604-9

ENGINEERING CONTROL SYSTEMS INSPECTION FORM

Component	Item	Condition
North Permeable Reactive Wall	Obvious subsidence, depressions or cracks Evidence of ponded water Stressed or missing vegetation Soil erosion due to surface runoff Animal burrows Piezometers Stone erosion control blanket (east end) Groundwater seepage from PRW Other:	No depressions, cracks, or subsidence observed. No ponded water. No erosion or burrows observed. Two piezometers present in good condition. Stone erosion control in good condition. No seepage observed.
South Permeable Reactive Wall	Obvious subsidence, depressions or cracks Evidence of ponded water Stressed or missing vegetation Soil erosion due to surface runoff Animal burrows Groundwater seepage from PRW Other:	No observations of depressions, cracks, or subsidence. No ponded water observed. Abundant and thick vegetation. No evidence of erosion No animal burrows observed No seepage observed

Date:

9/20/24

Inspector:

Colin Wasteneys/Colin Wasteneys

# WYOMING COUNTY FIRE TRAINING CENTER PHOTOGRAPHIC LOG – PERIODIC INSPECTION (September 20, 2024)



Photo 1: View of new building foundation construction area (looking west).



Photo 2: New building addition foundation construction (looking northwest).



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**WYOMING COUNTY FIRE TRAINING CENTER PHOTOGRAPHIC LOG –  
PERIODIC INSPECTION (September 20, 2024)**



Photo 3: New vestibule and building addition construction (looking northwest).



Photo 4: Newly installed septic tank (looking south).

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**WYOMING COUNTY FIRE TRAINING CENTER PHOTOGRAPHIC LOG –  
PERIODIC INSPECTION (September 20, 2024)**



Photo 5: Monitoring well MW-11 with overgrown vegetation (looking north).



Photo 6: Gravel Drainage Area at East End of North Permeable Reactive Wall (looking north).

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**WYOMING COUNTY FIRE TRAINING CENTER PHOTOGRAPHIC LOG –  
PERIODIC INSPECTION (September 20, 2024)**



Photo 7: Facility water well located on the western edge of property. Water is not used for potable purposes (looking north).

**APPENDIX C**  
**INSTITUTIONAL AND ENGINEERING**  
**CONTROLS CERTIFICATION FORM**



**Enclosure 2**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Site Management Periodic Review Report Notice**  
**Institutional and Engineering Controls Certification Form**



	Site Details	Box 1		
<b>Site No.</b>	<b>V00604</b>			
<b>Site Name Wyoming County Fire Training Center</b>				
Site Address: 3651 Wethersfield Road      Zip Code: 14469-				
City/Town: Wethersfield				
County: Wyoming				
Site Acreage: 1.390				
Reporting Period: September 05, 2021 to September 20, 2024				
		YES	NO	
1.	Is the information above correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	If NO, include handwritten above or on a separate sheet.			
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.</b>			
5.	Is the site currently undergoing development?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Box 2</b>		
		YES	NO	
6.	Is the current site use consistent with the use(s) listed below? Commercial and Industrial	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7.	Are all ICs in place and functioning as designed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.</b>				
<b>A Corrective Measures Work Plan must be submitted along with this form to address these issues.</b>				
_____ Signature of Owner, Remedial Party or Designated Representative			_____ Date	

**Description of Institutional Controls**

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
107.-2-4.2	County of Wyoming	Ground Water Use Restriction Building Use Restriction

Area is identified as "Restricted Area Former Weber Property". Controls require that any future owner will carry out no activities which will interfere with any program at the adjacent Voluntary Site, adhere to groundwater and building restrictions, and will not interfere with County's compliance with the Site Management Plan for the Voluntary site or with the groundwater monitoring wells and North Permeable Reactive Wall present on this property.

107.-2-4.1	County of Wyoming	Building Use Restriction Ground Water Use Restriction
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Area is identified as "Restricted Area Former Argo Property". Controls require that any future owner will carry out no activities which will interfere with any program at the adjacent Voluntary Site, adhere to groundwater and building restrictions, and will not interfere with County's compliance with the Site Management Plan for the Voluntary site or with the groundwater monitoring wells present on this property.

<b>Portion of 107.-2-3</b>	County of Wyoming	Soil Management Plan Site Management Plan Landuse Restriction Ground Water Use Restriction Monitoring Plan
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Since remaining contamination is present at this site, Engineering Controls and Institutional Controls have been implemented (Site Monitoring Plan) to protect public health and the environment for the applicable future use. Two Permeable Reactive Walls (North and South) are located offsite of the Controlled Property.

A Declaration of Covenants and Restrictions has been placed on the property that limits groundwater and land use, implements, maintains and monitors Engineering Controls, and prevents future exposure to remaining contamination by controlling disturbances of the subsurface contamination and limiting the future use and development of the site to commercial.

**Description of Engineering Controls**

<u>Parcel</u>	<u>Engineering Control</u>
107.-2-4.2	Subsurface Barriers

### Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

**A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

\_\_\_\_\_  
Signature of Owner, Remedial Party or Designated Representative

\_\_\_\_\_  
Date

**IC CERTIFICATIONS  
SITE NO. V00604**

**Box 6**

**SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I \_\_\_\_\_ at \_\_\_\_\_,  
print name print business address

am certifying as \_\_\_\_\_(Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

\_\_\_\_\_  
Signature of Owner, Remedial Party, or Designated Representative  
Rendering Certification

\_\_\_\_\_  
Date



**EC CERTIFICATIONS**

**Box 7**

**Qualified Environmental Professional Signature**

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Colin Wasteneys at AECOM, 50 Lakefront Blvd, Suite 111, Buffalo, NY 14202,  
print name print business address

am certifying as a Qualified Environmental Professional for the County of Wyoming  
(Owner or Remedial Party)

*Colin Wasteneys* Stamp 9/20/24  
Signature of Qualified Environmental Professional, for Date  
the Owner or Remedial Party, Rendering Certification (Required for PE)

**APPENDIX C ATTACHMENTS**  
**60-Day Advance Notification of Site**  
**Change of Use**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION



**60-Day Advance Notification of Site Change of Use, Transfer of  
Certificate of Completion, and/or Ownership**

Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)

To be submitted at least 60 days prior to change of use to:

Chief, Site Control Section  
New York State Department of Environmental Conservation  
Division of Environmental Remediation, 625 Broadway  
Albany NY 12233-7020

**I. Site Name:** Wyoming County Fire Training Center **DEC Site ID No.** V00604

**II. Contact Information of Person Submitting Notification:**

Name: Michael Adamczak, Director of Facilities  
Address1: 36 Center Street, Suite B3  
Address2: Warsaw, New York 14569  
Phone: 585-944-1085 E-mail: madamczak@wyomingco.net

**III. Type of Change and Date:** Indicate the Type of Change(s) (check all that apply):

- Change in Ownership or Change in Remedial Party(ies)  
 Transfer of Certificate of Completion (CoC)  
 Other (e.g., any physical alteration or other change of use)

Proposed Date of Change (mm/dd/yyyy): 02/22/2024

**IV. Description:** Describe proposed change(s) indicated above and attach maps, drawings, and/or parcel information.

Phase I: Expansion of existing Municipal Training Center to provide additional area for classroom emergency services response

training, Response Center requirements, and climate controlled storage areas. (existing facility 115 ft. x 30 ft.; addition 40 ft. x 70 ft.)

Phase II: Parking and enhanced ingress and egress. Total Site: 19 acres; Phase I disturbance less than one acre;

Phase II disturbance - .75 acres.

If "Other," the description must explain and advise the Department how such change may or may not affect the site's proposed, ongoing, or completed remedial program (attach additional sheets if needed).

The proposed expansions will not affect or interfere with the ongoing Site Remedial Program. All construction will comply with the existing Site Management Plan (i.e., soils excavation requirements) with oversight by a qualified environmental professional as needed.

**Wyoming County Fire Training Center**  
**Change of Use Application**  
**Exhibits**

Exhibit 1 – Site Location Map

Exhibit 2 – Expansion Figure /Kideney Architects

- Phase I Facility Expansion; Phase II Expansion Parking: Ingress and Egress

Exhibit 3 –Facility Expansion Photo : Kideney Architects

Exhibit 4 – Project Purposes

Exhibit 5 – Photograph of Training Center (August 2023)

Exhibit 6 – Draft Project Schedule

# **EXHIBIT 1**

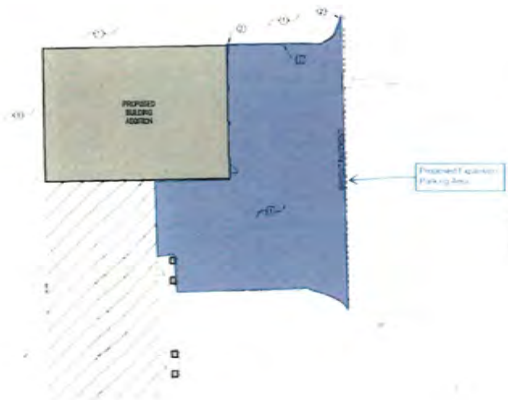


Wyoming County  
Fire Training Center



Wethersfield Rd

# **EXHIBIT 2**



**SITE PLAN NOTES**

1. SURVEY INFORMATION WAS PROVIDED BY JOYNT, GILLESPIE AND COMPANY ENGINEERS, INC. (JOYNT, GILLESPIE AND COMPANY) AND IS REFERENCED FOR ALL ACCURACIES.
2. CONFORM TO ALL APPLICABLE REGULATIONS AND STREET CLOSURES PRIOR TO THE START OF CONSTRUCTION. CONTACT THE TOWN ENGINEER AND SUPERVISOR FOR ALL FIELD CONDITIONS.
3. REFER TO ARCHITECTURAL PLANS FOR BUILDING CONSTRUCTION AND FINISHES.

**SITE PLAN DETAIL LEGEND**

- (1) ASPHALT PAVED DRIVE SECTION, SEE DR 10 SHEET 100
- (2) CONCRETE CURB, SEE DETAIL SHEET 100

**SITE PLAN SHEET KEYNOTES**

- (1) 4" TOPGAP & 4" SET
- (2) 8" WIDENING CURB ON INBOUND & OUT

**SITE PLAN PROPOSED LEGEND**

- PROPOSED CURB
- |-|- DRIVE LOCATION
- |-|- EDGE OF PAVEMENT
- EXISTING FEATURES
- EXISTING DRIVE



**C&S**  
COMPANIES

C&S Engineers, Inc.  
141 Elm Street, Suite 100  
Rutland, New York 14871  
Phone: 785-647-1400  
Fax: 785-647-1404  
www.ccsny.com

**Kideney Architects**  
Architects, P.C.

PRELIMINARY  
NOT FOR  
CONSTRUCTION

**WYOMING COUNTY  
FIRE TRAINING  
CENTER**  
3450 Wethersfield Road,  
Gettysville, New York

DESIGN DEVELOPMENT  
SITE PLAN

**ISSUING**

DATE: 08/18/2021  
BY: JRU  
CHECKED BY: JRU  
DATE: 08/18/2021

NO.	DATE	DESCRIPTION
1	08/18/2021	ISSUED FOR PERMIT
2	08/18/2021	ISSUED FOR PERMIT
3	08/18/2021	ISSUED FOR PERMIT
4	08/18/2021	ISSUED FOR PERMIT
5	08/18/2021	ISSUED FOR PERMIT
6	08/18/2021	ISSUED FOR PERMIT
7	08/18/2021	ISSUED FOR PERMIT
8	08/18/2021	ISSUED FOR PERMIT
9	08/18/2021	ISSUED FOR PERMIT
10	08/18/2021	ISSUED FOR PERMIT

**C-101**



# **EXHIBIT 3**

2023-08-29 09:42:19  
-78 24036 +42 68599



# **EXHIBIT 4**

# Wyoming County Fire Training Center

## Change of Use Application

### Exhibit 4 – Project Purposes

- The County of Wyoming applied for and received a Congressionally Directed Funds Grant (USDA Raul development Grant) to provide partial funding for the Project. The Project will provide additional space for mandated and enhanced training for employees and volunteers who provide emergency services within Wyoming County.
- The existing facility 115 ft. x 30 ft.; the addition 40 ft. x 70 ft.
- The expansion will provide needed training and conference areas and increased climate-controlled storage areas for emergency PPE (masks, gloves, gowns, etc.), County Hospital PPE, various EMS equipment, and Firefighting gear and supplies.
- An existing septic system will be enhanced and upgraded to accommodate increased usage of the Training Center consistent with local DOH guidelines. The increased usage of the facility has exceeded the current system that was designed and installed in the 1970s.
- The Phase II expansion will provide for increased parking for 20 additional parking spaces and some enhanced ingress and egress to accommodate emergency and other vehicles.
- Total Site: 19 acres; Phase I disturbance less than one acre; Phase II disturbance – approx. .75 acres.

# **EXHIBIT 5**

2023-08-29 09:42:10  
-78.24036 +42.68599



# **EXHIBIT 6**



# WYOMING COUNTY

## Fire Training Center Project

Design/Construction Schedule, 6/26/23

ID	Task Name	Duration	Start	Finish	% Complete	2023												2024												2025
						Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
1	Wyoming County Fire Training Center Project	477 days	Mon 2/6/23	Tue 12/3/24	19%																									
2	<b>DESIGN PHASE</b>	200 days	Mon 2/6/23	Fri 11/10/23	43%																									
3	Land Survey	42 days	Mon 2/6/23	Tue 4/4/23	100%																									
4	Schematic Design (11 Weeks)	58 days	Wed 4/5/23	Fri 6/23/23	100%																									
5	SD Estimate	10 days	Mon 6/26/23	Fri 7/7/23	10%																									
6	Design Development (8 Weeks)	40 days	Mon 6/26/23	Fri 8/18/23	3%																									
7	DD Estimate	20 days	Mon 8/21/23	Fri 9/15/23	0%																									
8	Construction Documents (6 Weeks)	30 days	Mon 8/21/23	Fri 9/29/23	0%																									
9	CD Estimate	20 days	Mon 10/2/23	Fri 10/27/23	0%																									
10	Prepare Bidding Documents	20 days	Mon 10/16/23	Fri 11/10/23	0%																									
11	<b>BID AND AWARD PHASE</b>	43 days	Mon 11/13/23	Wed 1/10/24	0%																									
12	Advertisement to Bid	5 days	Mon 11/13/23	Fri 11/17/23	0%																									
13	Drawings & Documents Available for Bid	16 days	Mon 11/20/23	Mon 12/11/23	0%																									
14	Receive & Tabulate Bids	1 day	Tue 12/12/23	Tue 12/12/23	0%																									
15	Evaluate Bids/Desclope Contractor(s)	2 days	Wed 12/13/23	Thu 12/14/23	0%																									
16	Recommend and Approval of Bid	1 day	Fri 12/15/23	Fri 12/15/23	0%																									
17	Prepare Contract	2 days	Mon 12/18/23	Tue 12/19/23	0%																									
18	Board of Supervisors Public Works Committee	1 day	Thu 12/28/23	Thu 12/28/23	0%																									
19	Board of Supervisors Finance Committee Approval of Bids	1 day	Tue 1/2/24	Tue 1/2/24	0%																									
20	Board of Supervisors Committee Approval of Bids	1 day	Tue 1/9/24	Tue 1/9/24	0%																									
21	Issue Notice to Proceed	1 day	Wed 1/10/24	Wed 1/10/24	0%																									
22	<b>CONSTRUCTION PHASE</b>	200 days	Thu 1/11/24	Wed 10/16/24	0%																									
23	Bonds / Insurance / Submittals	60 days	Thu 1/11/24	Wed 4/3/24	0%																									
24	Construction (8 Months)	170 days	Thu 2/22/24	Wed 10/16/24	0%																									
25	<b>PROJECT CLOSEOUT</b>	34 days	Thu 10/17/24	Tue 12/3/24	0%																									



**APPENDIX C ATTACHMENTS**

**NYSDEC May 3, 2024, Letter  
Acknowledging COU Notification**

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

Division of Environmental Remediation, Region 9  
700 Delaware Avenue, Buffalo, NY 14209  
P: (716) 851-7220 | F: (716) 851-7275  
www.dec.ny.gov

May 3, 2024

Michael Adamczak  
Wyoming County  
36 Center Street, Suite B3  
Warsaw, New York 14569

Dear Michael Adamczak:

**Change of Use Notification**  
Wyoming County Fire  
Training Center, V00604

This letter acknowledges receipt of your May 2, 2024 60-Day Advance Notification of Change of Use Form for the above referenced site, notifying the New York State Department of Environmental Conservation (“NYSDEC”) of a change of use in accordance with 6 NYCRR 375-1.11(d). This acknowledgement is not intended to imply approval or concurrence with the proposed change of use.

As detailed in the May 1<sup>st</sup> email from Colin Wasteneys (AECOM), an excavation notification will need to be submitted and approved by the Department, prior to beginning construction, per the Site Management Plan.

If you have any questions or need additional information, you may contact me at the address given above.

Sincerely,



Megan Kuczka  
Environmental Program Specialist 1

MK/ds

ec: Gregory Scholand, Esq., Assistant Regional Attorney, NYSDEC Region 9  
Doreen Simmons, Hancock Estabrook, LLP  
Colin Wasteneys, AECOM



**APPENDIX C ATTACHMENTS**

**Building Permits**

# Building Permit

This permit must be displayed and kept on the premises with one set of approved plans and specifications until full completion of the work is authorized.

NOTE: Inspections lists are posted on the reverse of the permit card and must be signed off by the Building Official before continuing any work. Failure to obtain signature may result in a STOP WORK ORDER being issued and further legal action taken.

<b>Permit#</b>	24-278	<b>permit date</b>	04-Jun-24
		<b>Renewal Date</b>	03-Jun-25

## Permission is hereby granted to:

First name	Last Name
Fire Training Center	County of Wyoming

**To Construct:** Partial Demo of existing building

Square' of building:	# of units:
Foundation type:	Conditioned square':
Number of bedrooms:	Number of stories:

**At premises located:** 3651 Wethersfield Rd

**In the Municipality of:** T-Wethersfield

**Pursuant to plans and specifications approved by  
the Building Official**

All approved plans will be considered null and void if any changes, revisions or alterations occur prior to notifying this Department.



Building Official

# Building Permit

This permit must be displayed and kept on the premises with one set of approved plans and specifications until full completion of the work is authorized.

NOTE: Inspections lists are posted on the reverse of the permit card and must be signed off by the Building Official before continuing any work. Failure to obtain signature may result in a STOP WORK ORDER being issued and further legal action taken.

<b>Permit#</b>	24-538	<b>permit date</b>	12-Sep-24
		<b>Renewal Date</b>	11-Sep-25

## Permission is hereby granted to:

<b>First name</b>	<b>Last Name</b>
County of Wyoming	Fire Training Center

**To Construct:** 3486sq' Addition, 3360sq' Alterations

**Square' of building:** 6846

**# of units:**

**Foundation type:**

**Conditioned square':**

**Number of bedrooms:**

**Number of stories:**

**At premises located:** 3651 Wethersfield Rd

**In the Municipality of:** T-Wethersfield

**Pursuant to plans and specifications approved by  
the Building Official**

All approved plans will be considered null and void if any changes, revisions or alterations occur prior to notifying this Department.

  
\_\_\_\_\_  
**Building Official**



**Public Health**  
Prevent. Promote. Protect.

## WYOMING COUNTY DEPARTMENT OF HEALTH

5362 MUNGERS MILL RD., BLDG. A, SILVER SPRINGS, NEW YORK 14550

PHONE (585) 786-8890

FAX (585) 786-3537

GREGORY J. COLLINS, DO, MPH COMMISSIONER OF HEALTH

**CHERYL GLAUS, RN, BSN**

DIRECTOR OF CLINICAL AND COMMUNITY SERVICES

**ROB JINES**

DIRECTOR OF ENVIRONMENTAL HEALTH,  
DIRECTOR OF WEIGHTS & MEASURES

**LAURA PAOLUCCI**

PUBLIC HEALTH ADMINISTRATOR

**JESSICA MERRILL**

FISCAL ADMINISTRATOR

March 6, 2024

Michael Adamczak  
Wyoming County Buildings and Grounds  
36 Center Street  
Warsaw, NY 14569

Re: Wastewater Disposal System  
Wyoming County Fire Training Center  
3651 Wethersfield Road  
(T) Wethersfield

Dear Mr. Adamczak:

With this letter, permission is hereby granted for the construction of a wastewater disposal system to serve the above-referenced property, Permit # 24-003. This permit is granted subject to your acceptance of the following conditions:

- 1) That the construction shall take place in accordance with the proposed design as submitted by Jason Utzig, P.E. C&S Engineers, Inc. 141 Elm Street, Suite 100, Buffalo, NY 14203.
- 2) The system shall consist of a 1,000 gallon septic tank with effluent filter, pump tank, built up sand filter system, absorption bed and associated appurtenances to serve a Fire Training Facility, 440 gpd.
- 3) All surface waters, on this property and adjoining properties, MUST be at least 100 feet from the sand filter and absorption bed system components and 50 feet from the septic tank.
- 4) That the engineer certify in writing to this department, that the system was constructed in accordance with their plans and meets New York State Sanitary Code Part 75-A requirements. This certification MUST be submitted to the Wyoming County Health Department within thirty (30) days of construction completion and prior to the issuance of a system completed works certificate.
- 5) As-built drawings shall be provided to this office if modifications are added to the original plans.
- 6) The Wyoming County Health Department shall be held harmless for any system failure or malfunction.

Enclosed please find a copy of the approved plans for your use. One copy has been forwarded to your engineer for his records with the remaining copy being retained by this department. Please contact your engineer or the Wyoming County Health Department if you have any questions or concerns. Thank you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Rob Jines".

Robert Jines  
Director of Environmental Health  
Wyoming County Health Department

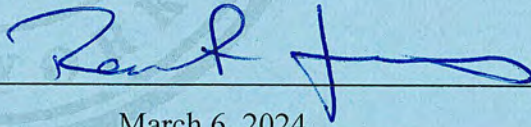
Cc. J. Utzig, P.E.

**WYOMING COUNTY DEPARTMENT OF HEALTH**  
**SEWAGE DISPOSAL CONSTRUCTION PERMIT**

Permission is hereby granted to Wyoming County

at 3651 Wethersfield Road Town Wethersfield

to construct an individual sewage disposal system in accordance with the proposed design as submitted by **Jason Utzig, P.E.** This installation shall be inspected and certified as specified in the engineer report and corresponding plans. The above mentioned design professional is responsible in assuring that the sewage disposal system is designed and installed in accordance with New York State Sanitary Code Appendix 75-A. Certification of the sewage disposal system must be submitted to this department within 30 days of system completion and prior to the issuance of a system completed works certificate.

Permit No. Eng. 24-003 Issued by 

Permit expires 1 year from date issued Date March 6, 2024

**THIS PERMIT MUST BE POSTED AT THE BUILDING SITE**

**CONDITIONS**

- 1) That the construction shall take place in accordance with the proposed design as submitted by Jason Utzig, P.E. C&S Engineers, 141 Elm Street Suite 100, Buffalo, NY 14203.
- 2) The system shall consist of a 1,000 gallon septic tank with effluent filter, pump tank, raised sand filter system, absorption bed system and associated appurtenances to serve a Fire Training Facility, 440 gpd.
- 3) All surface waters, on this property and adjoining properties, MUST be at least 100 feet from the sand filter and absorption bed system components and 50 feet from the septic tank.
- 4) That the engineer certify in writing to this department, that the system was constructed in accordance with their plans and meets New York State Sanitary Code Part 75-A requirements. This certification MUST be submitted to the Wyoming County Health Department within thirty (30) days of construction completion and prior to the issuance of a system completed works certificate.
- 5) As-built drawings shall be provided to this office if modifications are added to the original plans.
- 6) The Wyoming County Health Department shall be held harmless for any system failure or malfunction.

**APPENDIX D**  
**LOW FLOW GROUNDWATER PURGING/SAMPLING LOGS**











**APPENDIX E**  
**RESIDENTIAL TAP WATER SAMPLING**  
**LOGS**

## RESIDENTIAL TAP WATER SAMPLING LOG

Project: <u>60691189</u>		Site: <u>Wyoming County Fire Training Center</u>		Location I.D.: <u>Schell Tap</u>			
Date: <u>08/25/22</u>		Sampling Personnel: <u>Rob Murphy/Collin Horrocks</u>		Company: <u>AECOM</u>			
Sampling Device: <u>40 ml VOA Vial</u>	Material of Construction: <u>Glass</u>	Pump/Tubing Inlet Location: <u>NA</u>					
Measuring Point: <u>NA</u>	Initial Depth to Water: <u>NA</u>	Depth to Well Bottom: <u>NA</u>	Well Diameter: <u>NA</u>	Screen Length: <u>NA</u>			
Casing Type: <u>NA</u>	Volume in 1 Well Casing (gallons): <u>NA</u>	Estimated Purge Volume (gallons): <u>NA</u>					
Sample ID: <u>SW-01-082522</u>		Sample Time: <u>0815</u>		QA/QC: <u>FD-082522</u>			
Sample Parameters: <u>TCL VOCs (Method 524.2)</u>							
<b>SAMPLE PARAMETERS</b>							
TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	SALINITY (%)	Appearance
0815	NM	NM	NM	NM	NM	NM	Clear
<b>Tolerance:</b>	<b>0.1</b>	<b>---</b>	<b>3%</b>	<b>10%</b>	<b>10%</b>	<b>+ or - 0.02</b>	

**Information:** 0.17 gallons per foot in 2-inch diameter well  
 0.66 gallons per foot in 4-inch diameter well

**Comments:**

1. Residential tap water grab sample.
  2. The water sample was collected from the kitchen sink tap with the aerator removed and the water softener system disconnected. The tap was run for 15 minutes before the sample was collected.
  3. NM=Not measured.
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## RESIDENTIAL TAP WATER SAMPLING LOG

Project: <u>60691198</u>		Site: <u>Wyoming County Fire Training Center</u>		Location I.D.: <u>Becker Tap</u>			
Date: <u>08/25/22</u>		Sampling Personnel: <u>Rob Murphy/Collin Horrocks</u>		Company: <u>AECOM</u>			
Sampling Device: <u>40 ml VOA Vial</u>	Material of Construction: <u>Glass</u>	Pump/Tubing Inlet Location: <u>NA</u>					
Measuring Point: <u>NA</u>	Initial Depth to Water: <u>NA</u>	Depth to Well Bottom: <u>NA</u>	Well Diameter: <u>NA</u>	Screen Length: <u>NA</u>			
Casing Type: <u>NA</u>	Volume in 1 Well Casing (gallons): <u>NA</u>	Estimated Purge Volume (gallons): <u>NA</u>					
Sample ID: <u>BW-01-082522</u>		Sample Time: <u>1215</u>		QA/QC: <u>MS/MSD</u>			
Sample Parameters: <u>TCL VOCs (Method 524.2)</u>							
<b>SAMPLE PARAMETERS</b>							
TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	SALINITY (%)	Appearance
1215	NM	NM	NM	NM	NM	NM	Clear
<b>Tolerance:</b>	<b>0.1</b>	<b>---</b>	<b>3%</b>	<b>10%</b>	<b>10%</b>	<b>+ or - 0.02</b>	

**Information:** 0.17 gallons per foot in 2-inch diameter well  
 0.66 gallons per foot in 4-inch diameter well

**Comments:**

1. Residential tap water grab sample.
  2. Sample collected from outside spigot.
  3. Water run for 30 minutes before sample was collected.
  4. NM=Not measured.
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## RESIDENTIAL TAP WATER SAMPLING LOG

Project: <u>60691198</u>		Site: <u>Wyoming County Fire Training Center</u>		Location I.D.: <u>Schell Tap</u>			
Date: <u>05/25/23</u>		Sampling Personnel: <u>C. Horrocks, R. Murphy and A. Sands</u>		Company: <u>AECOM</u>			
Sampling Device: <u>40 ml VOA Vial</u>		Material of Construction: <u>Glass</u>		Pump/Tubing Inlet Location: <u>NA</u>			
Measuring Point: <u>NA</u>		Initial Depth to Water: <u>NA</u>		Depth to Well Bottom: <u>NA</u>			
		Well Diameter: <u>NA</u>		Screen Length: <u>NA</u>			
Casing Type: <u>NA</u>		Volume in 1 Well Casing (gallons): <u>NA</u>		Estimated Purge Volume (gallons): <u>NA</u>			
Sample ID: <u>SW-01-05252023</u>		Sample Time: <u>10:10</u>		QA/QC: <u>FD-05252023</u>			
Sample Parameters: <u>TCL VOCs (Method 524.2)</u>							
<b>SAMPLE PARAMETERS</b>							
TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	SALINITY (%)	Appearance
10:10	NM	NM	NM	NM	NM	NM	Clear
<b>Tolerance:</b>	<b>0.1</b>	<b>---</b>	<b>3%</b>	<b>10%</b>	<b>10%</b>	<b>+ or - 0.02</b>	

**Information:**                    0.17 gallons per foot in 2-inch diameter well  
    0.66 gallons per foot in 4-inch diameter well

**Comments:**

1. Residential tap water grab sample.
  2. The water sample was collected from the kitchen sink tap with the aerator removed and the water softener system disconnected. The tap was run for 10 minutes before the sample was collected.
  3. NM=Not measured.
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## RESIDENTIAL TAP WATER SAMPLING LOG

Project: <u>60691189</u>		Site: <u>Wyoming County Fire Training Center</u>		Location I.D.: <u>Becker Tap</u>			
Date: <u>05/26/23</u>		Sampling Personnel: <u>Rob Murphy</u>		Company: <u>AECOM</u>			
Sampling Device: <u>40 ml VOA Vial</u>		Material of Construction: <u>Glass</u>		Pump/Tubing Inlet Location: <u>NA</u>			
Measuring Point: <u>NA</u>		Initial Depth to Water: <u>NA</u>		Depth to Well Bottom: <u>NA</u>			
		Well Diameter: <u>NA</u>		Screen Length: <u>NA</u>			
Casing Type: <u>NA</u>		Volume in 1 Well Casing (gallons): <u>NA</u>		Estimated Purge Volume (gallons): <u>NA</u>			
Sample ID: <u>BW-01-05262023</u>		Sample Time: <u>1210</u>		QA/QC: <u>MS/MSD</u>			
Sample Parameters: <u>TCL VOCs (Method 524.2)</u>							
<b>SAMPLE PARAMETERS</b>							
TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	SALINITY (%)	Appearance
0:00	NM	NM	NM	NM	NM	NM	Clear
<b>Tolerance:</b>	<b>0.1</b>	<b>---</b>	<b>3%</b>	<b>10%</b>	<b>10%</b>	<b>+ or - 0.02</b>	

**Information:**                    0.17 gallons per foot in 2-inch diameter well  
    0.66 gallons per foot in 4-inch diameter well

**Comments:**

1. Residential tap water grab sample.
  2. Sample collected from outside spigot.
  3. Water run for >10 minutes before sample was collected.
  4. NM=Not measured.
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## RESIDENTIAL TAP WATER SAMPLING LOG

Project: <u>60691198</u>		Site: <u>Wyoming County Fire Training Center</u>		Location I.D.: <u>Schell Tap</u>			
Date: <u>07/05/24</u>		Sampling Personnel: <u>C. Horrocks</u>		Company: <u>AECOM</u>			
Sampling Device: <u>40 ml VOA Vial</u>		Material of Construction: <u>Glass</u>		Pump/Tubing Inlet Location: <u>NA</u>			
Measuring Point: <u>NA</u>		Initial Depth to Water: <u>NA</u>		Depth to Well Bottom: <u>NA</u>			
		Well Diameter: <u>NA</u>		Screen Length: <u>NA</u>			
Casing Type: <u>NA</u>		Volume in 1 Well Casing (gallons): <u>NA</u>		Estimated Purge Volume (gallons): <u>NA</u>			
Sample ID: <u>SW-01-07052024</u>		Sample Time: <u>08:15</u>		QA/QC: <u>FD-07052024</u>			
Sample Parameters: <u>TCL VOCs (Method 524.2)</u>							
<b>SAMPLE PARAMETERS</b>							
TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	SALINITY (%)	Appearance
8:15	NM	NM	NM	NM	NM	NM	Clear
<b>Tolerance:</b>	<b>0.1</b>	<b>---</b>	<b>3%</b>	<b>10%</b>	<b>10%</b>	<b>+ or - 0.02</b>	

**Information:**                    0.17 gallons per foot in 2-inch diameter well  
    0.66 gallons per foot in 4-inch diameter well

**Comments:**

1. Residential tap water grab sample.
  2. The water sample was collected from the kitchen sink tap with the aerator removed and the water softener system disconnected. The tap was run for 10 minutes before the sample was collected.
  3. NM=Not measured.
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## RESIDENTIAL TAP WATER SAMPLING LOG

Project: <u>60691198</u>		Site: <u>Wyoming County Fire Training Center</u>		Location I.D.: <u>Becker Tap</u>			
Date: <u>07/05/24</u>		Sampling Personnel: <u>Collin Horrocks</u>		Company: <u>AECOM</u>			
Sampling Device: <u>40 ml VOA Vial</u>		Material of Construction: <u>Glass</u>		Pump/Tubing Inlet Location: <u>NA</u>			
Measuring Point: <u>NA</u>		Initial Depth to Water: <u>NA</u>		Depth to Well Bottom: <u>NA</u>			
		Well Diameter: <u>NA</u>		Screen Length: <u>NA</u>			
Casing Type: <u>NA</u>		Volume in 1 Well Casing (gallons): <u>NA</u>		Estimated Purge Volume (gallons): <u>NA</u>			
Sample ID: <u>BW-01-07052024</u>		Sample Time: <u>1130</u>		QA/QC: _____			
Sample Parameters: <u>TCL VOCs (Method 524.2)</u>							
<b>SAMPLE PARAMETERS</b>							
TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	SALINITY (%)	Appearance
1130	NM	NM	NM	NM	NM	NM	Clear
<b>Tolerance:</b>	<b>0.1</b>	<b>---</b>	<b>3%</b>	<b>10%</b>	<b>10%</b>	<b>+ or - 0.02</b>	

**Information:**                    0.17 gallons per foot in 2-inch diameter well  
    0.66 gallons per foot in 4-inch diameter well

**Comments:**

1. Residential tap water grab sample.
  2. Sample collected from outside spigot.
  3. Water run for >10 minutes before sample was collected.
  4. NM=Not measured.
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**APPENDIX F**  
**SURFACE WATER SAMPLING LOGS**

# SURFACE WATER SAMPLING LOG

Project: <u>60691198</u>		Site: <u>Wyoming County Fire Training Center</u>		Location I.D.: <u>Spring</u>	
Date: <u>08/25/22</u>		Sampling Personnel: <u>C. Horrocks, R. Murphy</u>		Company: <u>AECOM</u>	
Sampling Device: <u>Flow directed to sample container</u>		Material of Construction: <u>Metal pipe draining into a concrete box.</u>		Pump/Tubing Inlet Location: <u>NA</u>	
Measuring Point: <u>NA</u>	Initial Depth to Water: <u>NA</u>	Depth to Well Bottom: <u>NA</u>	Well Diameter: <u>NA</u>	Screen Length: <u>NA</u>	
Casing Type: <u>NA</u>		Volume in 1 Well Casing (gallons): <u>NA</u>		Estimated Purge Volume (gallons): <u>NA</u>	
Sample ID: <u>Spring - 082522</u>		Sample Time: <u>1030</u>		QA/QC: <u>None</u>	
Sample Parameters: <u>VOCs (524.2).</u>					

## SAMPLE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	SALINITY (%)	Appearance
1030	NM	NM	NM	NM	NM	NM	Clear
<b>Tolerance:</b>	<b>0.1</b>	<b>---</b>	<b>3%</b>	<b>10%</b>	<b>10%</b>	<b>+ or - 0.02</b>	

**Information:**            0.17 gallons per foot in 2-inch diameter well  
                                  0.66 gallons per foot in 4-inch diameter well

**Comments:**

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# SURFACE WATER SAMPLING LOG

Project: <u>60691198</u>		Site: <u>Wyoming County Fire Training Center</u>		Location I.D.: <u>Spring</u>	
Date: <u>05/25/23</u>		Sampling Personnel: <u>C. Horrocks, R. Muprhy and A. Sands</u>		Company: <u>AECOM</u>	
Sampling Device: <u>Flow directed to sample container</u>		Material of Construction: <u>Metal pipe draining into a concrete box.</u>		Pump/Tubing Inlet Location: <u>NA</u>	
Measuring Point: <u>NA</u>	Initial Depth to Water: <u>NA</u>	Depth to Well Bottom: <u>NA</u>	Well Diameter: <u>NA</u>	Screen Length: <u>NA</u>	
Casing Type: <u>NA</u>		Volume in 1 Well Casing (gallons): <u>NA</u>		Estimated Purge Volume (gallons): <u>NA</u>	
Sample ID: <u>Spring - 052523</u>		Sample Time: <u>1030</u>		QA/QC: <u>None</u>	
Sample Parameters: <u>VOCs (524.2).</u>					

## SAMPLE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	SALINITY (%)	Appearance
1030	NM	NM	NM	NM	NM	NM	Clear
<b>Tolerance:</b>	<b>0.1</b>	<b>---</b>	<b>3%</b>	<b>10%</b>	<b>10%</b>	<b>+ or - 0.02</b>	

**Information:**            0.17 gallons per foot in 2-inch diameter well  
                                  0.66 gallons per foot in 4-inch diameter well

**Comments:**

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# SURFACE WATER SAMPLING LOG

Project: <u>60691198</u>		Site: <u>Wyoming County Fire Training Center</u>		Location I.D.: <u>Spring</u>	
Date: <u>07/05/24</u>		Sampling Personnel: <u>C. Horrocks, R. Murphy</u>		Company: <u>AECOM</u>	
Sampling Device: <u>Flow directed to sample container</u>		Material of Construction: <u>Metal pipe draining into a concrete box.</u>		Pump/Tubing Inlet Location: <u>NA</u>	
Measuring Point: <u>NA</u>	Initial Depth to Water: <u>NA</u>	Depth to Well Bottom: <u>NA</u>	Well Diameter: <u>NA</u>	Screen Length: <u>NA</u>	
Casing Type: <u>NA</u>		Volume in 1 Well Casing (gallons): <u>NA</u>		Estimated Purge Volume (gallons): <u>NA</u>	
Sample ID: <u>Spring - 07052024</u>		Sample Time: <u>0840</u>		QA/QC: <u>None</u>	
Sample Parameters: <u>VOCs (524.2).</u>					

## SAMPLE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O <sub>2</sub> (mg/l)	TURB. (NTU)	SALINITY (%)	Appearance
0840	NM	NM	NM	NM	NM	NM	Clear
<b>Tolerance:</b>	<b>0.1</b>	<b>---</b>	<b>3%</b>	<b>10%</b>	<b>10%</b>	<b>+ or - 0.02</b>	

**Information:**            0.17 gallons per foot in 2-inch diameter well  
                                  0.66 gallons per foot in 4-inch diameter well

**Comments:**

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**APPENDIX G**  
**ANALYTICAL DATA**



## Memorandum

To Colin Wasteneys Page 1

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CC

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Subject Analytical Data Review  
Wyoming County Fire Training Center Site  
August 2022 Groundwater Sampling Event

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From Ann Marie Kropovitch

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Date October 4, 2022

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Three water samples, one field duplicate, one matrix spike/matrix spike duplicate (MS/MSD) pair, and one trip blank were collected from the Wyoming County Fire Training Center Site on August 25, 2022 by AECOM and sent to Eurofins Laboratories, Inc. (Edison, NJ) for analysis. The samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC). The samples were analyzed for volatile organic compounds (VOCs) by USEPA Method 524.2. The analytical results were provided in Eurofins report number 480-201032-1.

In accordance with the *Site Management Plan*, a limited data review was performed on all samples for completeness of deliverables, and for compliance with method criteria, which includes reporting limits (RL), holding times, method blanks, surrogate recoveries, internal standard recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, and laboratory control sample (LCS) recoveries.

All samples were analyzed within holding times, with compliant surrogate, internal standard, MS/MSD, and LCS recoveries with the following exception:

- The percent recovery (%R) of 1,1-dichloroethene was above the QC limit in the MSD performed on sample BW-01-082522. The %R of this compound was acceptable in the MS and the LCS. In addition this compound was not detected in the sample, therefore no qualification of the sample data was necessary.

The relative percent differences between the parent sample Spring-082522/FD-082522 were acceptable (i.e., < 25%), therefore no data qualification was necessary. It should be noted that both samples required a secondary dilution of 5x for certain target compounds, those compounds have been qualified 'D'.

All data are usable as reported.

## ANALYTICAL REPORT

Eurofins Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228-2298  
Tel: (716)691-2600

Laboratory Job ID: 480-201032-1  
Client Project/Site: 60583042 - Wyoming County FTC

For:  
AECOM  
One John James Audubon Parkway  
Suite 210  
Amherst, New York 14228

Attn: Colin Wasteneys



Authorized for release by:  
9/6/2022 11:51:46 AM  
Rebecca Jones, Project Management Assistant I  
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### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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# Definitions/Glossary

Client: AECOM

Job ID: 480-201032-1

Project/Site: 60583042 - Wyoming County FTC

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: AECOM  
Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

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## Job ID: 480-201032-1

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### Laboratory: Eurofins Buffalo

#### Narrative

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#### Job Narrative 480-201032-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/25/2022 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4° C.

#### GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: AECOM  
Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

## Client Sample ID: SW-01-082522

Lab Sample ID: 480-201032-1

No Detections.

## Client Sample ID: SPRING-082522

Lab Sample ID: 480-201032-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,1-Dichloroethane	5.4		0.50	0.14	ug/L	1		524.2	Total/NA
1,1-Dichloroethene	0.80		0.50	0.19	ug/L	1		524.2	Total/NA
trans-1,2-Dichloroethene	0.59		0.50	0.13	ug/L	1		524.2	Total/NA
Trichloroethene	6.5		0.50	0.11	ug/L	1		524.2	Total/NA
1,1,1-Trichloroethane - DL	38		2.5	0.85	ug/L	5		524.2	Total/NA
cis-1,2-Dichloroethene - DL	45		2.5	0.70	ug/L	5		524.2	Total/NA
Tetrachloroethene - DL	49		2.5	0.70	ug/L	5		524.2	Total/NA

## Client Sample ID: FD-082522

Lab Sample ID: 480-201032-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.15	J	0.50	0.14	ug/L	1		524.2	Total/NA
1,1-Dichloroethane	5.5		0.50	0.14	ug/L	1		524.2	Total/NA
1,1-Dichloroethene	0.87		0.50	0.19	ug/L	1		524.2	Total/NA
trans-1,2-Dichloroethene	0.53		0.50	0.13	ug/L	1		524.2	Total/NA
Trichloroethene	6.4		0.50	0.11	ug/L	1		524.2	Total/NA
1,1,1-Trichloroethane - DL	38		2.5	0.85	ug/L	5		524.2	Total/NA
cis-1,2-Dichloroethene - DL	45		2.5	0.70	ug/L	5		524.2	Total/NA
Tetrachloroethene - DL	46		2.5	0.70	ug/L	5		524.2	Total/NA

## Client Sample ID: BW-01-082522

Lab Sample ID: 480-201032-4

No Detections.

## Client Sample ID: TB-082522

Lab Sample ID: 480-201032-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

# Client Sample Results

Client: AECOM  
Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

**Client Sample ID: SW-01-082522**

**Lab Sample ID: 480-201032-1**

Date Collected: 08/25/22 08:15

Matrix: Water

Date Received: 08/25/22 14:00

**Method: 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			09/02/22 00:46	1
1,1,1-Trichloroethane	ND		0.50	0.17	ug/L			09/02/22 00:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			09/02/22 00:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			09/02/22 00:46	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			09/02/22 00:46	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			09/02/22 00:46	1
1,1-Dichloroethene	ND		0.50	0.19	ug/L			09/02/22 00:46	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			09/02/22 00:46	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			09/02/22 00:46	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			09/02/22 00:46	1
1,2,4-Trichlorobenzene	ND		0.50	0.10	ug/L			09/02/22 00:46	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			09/02/22 00:46	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.35	ug/L			09/02/22 00:46	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			09/02/22 00:46	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			09/02/22 00:46	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			09/02/22 00:46	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/02/22 00:46	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			09/02/22 00:46	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			09/02/22 00:46	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			09/02/22 00:46	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			09/02/22 00:46	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			09/02/22 00:46	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			09/02/22 00:46	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			09/02/22 00:46	1
2-Hexanone	ND		2.5	1.1	ug/L			09/02/22 00:46	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			09/02/22 00:46	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			09/02/22 00:46	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			09/02/22 00:46	1
Acetone	ND		3.0	2.9	ug/L			09/02/22 00:46	1
Acrylonitrile	ND		0.50	0.37	ug/L			09/02/22 00:46	1
Allyl chloride	ND		0.50	0.10	ug/L			09/02/22 00:46	1
Benzene	ND		0.50	0.11	ug/L			09/02/22 00:46	1
Bromobenzene	ND		0.50	0.070	ug/L			09/02/22 00:46	1
Bromochloromethane	ND		0.50	0.10	ug/L			09/02/22 00:46	1
Bromoform	ND		0.50	0.080	ug/L			09/02/22 00:46	1
Bromomethane	ND		0.50	0.31	ug/L			09/02/22 00:46	1
Carbon disulfide	ND		0.50	0.10	ug/L			09/02/22 00:46	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			09/02/22 00:46	1
Chlorobenzene	ND		0.50	0.10	ug/L			09/02/22 00:46	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			09/02/22 00:46	1
Chloroethane	ND		0.50	0.23	ug/L			09/02/22 00:46	1
Chloroform	ND		0.50	0.12	ug/L			09/02/22 00:46	1
Chloromethane	ND		0.50	0.18	ug/L			09/02/22 00:46	1
cis-1,2-Dichloroethene	ND		0.50	0.14	ug/L			09/02/22 00:46	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			09/02/22 00:46	1
Dibromomethane	ND		0.50	0.10	ug/L			09/02/22 00:46	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			09/02/22 00:46	1
Dichlorodifluoromethane	ND		0.50	0.30	ug/L			09/02/22 00:46	1
Ethyl ether	ND		0.50	0.14	ug/L			09/02/22 00:46	1

Euromins Buffalo

# Client Sample Results

Client: AECOM  
Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

**Client Sample ID: SW-01-082522**

**Lab Sample ID: 480-201032-1**

**Date Collected: 08/25/22 08:15**

**Matrix: Water**

**Date Received: 08/25/22 14:00**

**Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50	0.090	ug/L			09/02/22 00:46	1
Hexachlorobutadiene	ND		0.50	0.19	ug/L			09/02/22 00:46	1
Iodomethane	ND		0.50	0.033	ug/L			09/02/22 00:46	1
Isopropylbenzene	ND		0.50	0.14	ug/L			09/02/22 00:46	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			09/02/22 00:46	1
Methylene Chloride	ND		0.50	0.42	ug/L			09/02/22 00:46	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			09/02/22 00:46	1
Naphthalene	ND		0.50	0.080	ug/L			09/02/22 00:46	1
n-Butylbenzene	ND		0.50	0.14	ug/L			09/02/22 00:46	1
N-Propylbenzene	ND		0.50	0.14	ug/L			09/02/22 00:46	1
o-Xylene	ND		0.50	0.090	ug/L			09/02/22 00:46	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			09/02/22 00:46	1
Styrene	ND		0.50	0.090	ug/L			09/02/22 00:46	1
t-Butanol	ND		10	2.5	ug/L			09/02/22 00:46	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			09/02/22 00:46	1
Tetrachloroethene	ND		0.50	0.14	ug/L			09/02/22 00:46	1
Toluene	ND		0.50	0.11	ug/L			09/02/22 00:46	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/02/22 00:46	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			09/02/22 00:46	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			09/02/22 00:46	1
Trichloroethene	ND		0.50	0.11	ug/L			09/02/22 00:46	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			09/02/22 00:46	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			09/02/22 00:46	1
Vinyl chloride	ND		0.50	0.25	ug/L			09/02/22 00:46	1
Xylenes, Total	ND		0.50	0.32	ug/L			09/02/22 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	100		70 - 130		09/02/22 00:46	1
4-Bromofluorobenzene	95		70 - 130		09/02/22 00:46	1



# Client Sample Results

Client: AECOM  
 Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

**Client Sample ID: SPRING-082522**

**Lab Sample ID: 480-201032-2**

Date Collected: 08/25/22 10:30

Matrix: Water

Date Received: 08/25/22 14:00

**Method: 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			09/02/22 01:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			09/02/22 01:07	1
<b>1,1,2-Trichloro-1,2,2-trifluoroethane</b>	<b>0.20</b>	<b>J</b>	0.50	0.14	ug/L			09/02/22 01:07	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			09/02/22 01:07	1
<b>1,1-Dichloroethane</b>	<b>5.4</b>		0.50	0.14	ug/L			09/02/22 01:07	1
<b>1,1-Dichloroethene</b>	<b>0.80</b>		0.50	0.19	ug/L			09/02/22 01:07	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			09/02/22 01:07	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			09/02/22 01:07	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			09/02/22 01:07	1
1,2,4-Trichlorobenzene	ND		0.50	0.10	ug/L			09/02/22 01:07	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			09/02/22 01:07	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.35	ug/L			09/02/22 01:07	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			09/02/22 01:07	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			09/02/22 01:07	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			09/02/22 01:07	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/02/22 01:07	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			09/02/22 01:07	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			09/02/22 01:07	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			09/02/22 01:07	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			09/02/22 01:07	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			09/02/22 01:07	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			09/02/22 01:07	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			09/02/22 01:07	1
2-Hexanone	ND		2.5	1.1	ug/L			09/02/22 01:07	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			09/02/22 01:07	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			09/02/22 01:07	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			09/02/22 01:07	1
Acetone	ND		3.0	2.9	ug/L			09/02/22 01:07	1
Acrylonitrile	ND		0.50	0.37	ug/L			09/02/22 01:07	1
Allyl chloride	ND		0.50	0.10	ug/L			09/02/22 01:07	1
Benzene	ND		0.50	0.11	ug/L			09/02/22 01:07	1
Bromobenzene	ND		0.50	0.070	ug/L			09/02/22 01:07	1
Bromochloromethane	ND		0.50	0.10	ug/L			09/02/22 01:07	1
Bromoform	ND		0.50	0.080	ug/L			09/02/22 01:07	1
Bromomethane	ND		0.50	0.31	ug/L			09/02/22 01:07	1
Carbon disulfide	ND		0.50	0.10	ug/L			09/02/22 01:07	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			09/02/22 01:07	1
Chlorobenzene	ND		0.50	0.10	ug/L			09/02/22 01:07	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			09/02/22 01:07	1
Chloroethane	ND		0.50	0.23	ug/L			09/02/22 01:07	1
Chloroform	ND		0.50	0.12	ug/L			09/02/22 01:07	1
Chloromethane	ND		0.50	0.18	ug/L			09/02/22 01:07	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			09/02/22 01:07	1
Dibromomethane	ND		0.50	0.10	ug/L			09/02/22 01:07	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			09/02/22 01:07	1
Dichlorodifluoromethane	ND		0.50	0.30	ug/L			09/02/22 01:07	1
Ethyl ether	ND		0.50	0.14	ug/L			09/02/22 01:07	1
Ethylbenzene	ND		0.50	0.090	ug/L			09/02/22 01:07	1
Hexachlorobutadiene	ND		0.50	0.19	ug/L			09/02/22 01:07	1

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# Client Sample Results

Client: AECOM  
Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

**Client Sample ID: SPRING-082522**

**Lab Sample ID: 480-201032-2**

Date Collected: 08/25/22 10:30

Matrix: Water

Date Received: 08/25/22 14:00

**Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		0.50	0.033	ug/L			09/02/22 01:07	1
Isopropylbenzene	ND		0.50	0.14	ug/L			09/02/22 01:07	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			09/02/22 01:07	1
Methylene Chloride	ND		0.50	0.42	ug/L			09/02/22 01:07	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			09/02/22 01:07	1
Naphthalene	ND		0.50	0.080	ug/L			09/02/22 01:07	1
n-Butylbenzene	ND		0.50	0.14	ug/L			09/02/22 01:07	1
N-Propylbenzene	ND		0.50	0.14	ug/L			09/02/22 01:07	1
o-Xylene	ND		0.50	0.090	ug/L			09/02/22 01:07	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			09/02/22 01:07	1
Styrene	ND		0.50	0.090	ug/L			09/02/22 01:07	1
t-Butanol	ND		10	2.5	ug/L			09/02/22 01:07	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			09/02/22 01:07	1
Toluene	ND		0.50	0.11	ug/L			09/02/22 01:07	1
<b>trans-1,2-Dichloroethene</b>	<b>0.59</b>		0.50	0.13	ug/L			09/02/22 01:07	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			09/02/22 01:07	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			09/02/22 01:07	1
<b>Trichloroethene</b>	<b>6.5</b>		0.50	0.11	ug/L			09/02/22 01:07	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			09/02/22 01:07	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			09/02/22 01:07	1
Vinyl chloride	ND		0.50	0.25	ug/L			09/02/22 01:07	1
Xylenes, Total	ND		0.50	0.32	ug/L			09/02/22 01:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	97		70 - 130		09/02/22 01:07	1
4-Bromofluorobenzene	95		70 - 130		09/02/22 01:07	1

**Method: 524.2 - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>38</b>		2.5	0.85	ug/L			09/02/22 06:13	5
<b>cis-1,2-Dichloroethene</b>	<b>45</b>		2.5	0.70	ug/L			09/02/22 06:13	5
<b>Tetrachloroethene</b>	<b>49</b>		2.5	0.70	ug/L			09/02/22 06:13	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	102		70 - 130		09/02/22 06:13	5
4-Bromofluorobenzene	95		70 - 130		09/02/22 06:13	5

# Client Sample Results

Client: AECOM  
 Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

**Client Sample ID: FD-082522**

**Lab Sample ID: 480-201032-3**

Date Collected: 08/25/22 00:00

Matrix: Water

Date Received: 08/25/22 14:00

**Method: 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			09/02/22 01:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			09/02/22 01:29	1
<b>1,1,2-Trichloro-1,2,2-trifluoroethane</b>	<b>0.15</b>	<b>J</b>	0.50	0.14	ug/L			09/02/22 01:29	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			09/02/22 01:29	1
<b>1,1-Dichloroethane</b>	<b>5.5</b>		0.50	0.14	ug/L			09/02/22 01:29	1
<b>1,1-Dichloroethene</b>	<b>0.87</b>		0.50	0.19	ug/L			09/02/22 01:29	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			09/02/22 01:29	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			09/02/22 01:29	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			09/02/22 01:29	1
1,2,4-Trichlorobenzene	ND		0.50	0.10	ug/L			09/02/22 01:29	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			09/02/22 01:29	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.35	ug/L			09/02/22 01:29	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			09/02/22 01:29	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			09/02/22 01:29	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			09/02/22 01:29	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/02/22 01:29	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			09/02/22 01:29	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			09/02/22 01:29	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			09/02/22 01:29	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			09/02/22 01:29	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			09/02/22 01:29	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			09/02/22 01:29	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			09/02/22 01:29	1
2-Hexanone	ND		2.5	1.1	ug/L			09/02/22 01:29	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			09/02/22 01:29	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			09/02/22 01:29	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			09/02/22 01:29	1
Acetone	ND		3.0	2.9	ug/L			09/02/22 01:29	1
Acrylonitrile	ND		0.50	0.37	ug/L			09/02/22 01:29	1
Allyl chloride	ND		0.50	0.10	ug/L			09/02/22 01:29	1
Benzene	ND		0.50	0.11	ug/L			09/02/22 01:29	1
Bromobenzene	ND		0.50	0.070	ug/L			09/02/22 01:29	1
Bromochloromethane	ND		0.50	0.10	ug/L			09/02/22 01:29	1
Bromoform	ND		0.50	0.080	ug/L			09/02/22 01:29	1
Bromomethane	ND		0.50	0.31	ug/L			09/02/22 01:29	1
Carbon disulfide	ND		0.50	0.10	ug/L			09/02/22 01:29	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			09/02/22 01:29	1
Chlorobenzene	ND		0.50	0.10	ug/L			09/02/22 01:29	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			09/02/22 01:29	1
Chloroethane	ND		0.50	0.23	ug/L			09/02/22 01:29	1
Chloroform	ND		0.50	0.12	ug/L			09/02/22 01:29	1
Chloromethane	ND		0.50	0.18	ug/L			09/02/22 01:29	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			09/02/22 01:29	1
Dibromomethane	ND		0.50	0.10	ug/L			09/02/22 01:29	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			09/02/22 01:29	1
Dichlorodifluoromethane	ND		0.50	0.30	ug/L			09/02/22 01:29	1
Ethyl ether	ND		0.50	0.14	ug/L			09/02/22 01:29	1
Ethylbenzene	ND		0.50	0.090	ug/L			09/02/22 01:29	1
Hexachlorobutadiene	ND		0.50	0.19	ug/L			09/02/22 01:29	1

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# Client Sample Results

Client: AECOM  
 Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

**Client Sample ID: FD-082522**

**Lab Sample ID: 480-201032-3**

**Date Collected: 08/25/22 00:00**

**Matrix: Water**

**Date Received: 08/25/22 14:00**

**Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	ND		0.50	0.033	ug/L			09/02/22 01:29	1
Isopropylbenzene	ND		0.50	0.14	ug/L			09/02/22 01:29	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			09/02/22 01:29	1
Methylene Chloride	ND		0.50	0.42	ug/L			09/02/22 01:29	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			09/02/22 01:29	1
Naphthalene	ND		0.50	0.080	ug/L			09/02/22 01:29	1
n-Butylbenzene	ND		0.50	0.14	ug/L			09/02/22 01:29	1
N-Propylbenzene	ND		0.50	0.14	ug/L			09/02/22 01:29	1
o-Xylene	ND		0.50	0.090	ug/L			09/02/22 01:29	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			09/02/22 01:29	1
Styrene	ND		0.50	0.090	ug/L			09/02/22 01:29	1
t-Butanol	ND		10	2.5	ug/L			09/02/22 01:29	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			09/02/22 01:29	1
Toluene	ND		0.50	0.11	ug/L			09/02/22 01:29	1
<b>trans-1,2-Dichloroethene</b>	<b>0.53</b>		0.50	0.13	ug/L			09/02/22 01:29	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			09/02/22 01:29	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			09/02/22 01:29	1
<b>Trichloroethene</b>	<b>6.4</b>		0.50	0.11	ug/L			09/02/22 01:29	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			09/02/22 01:29	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			09/02/22 01:29	1
Vinyl chloride	ND		0.50	0.25	ug/L			09/02/22 01:29	1
Xylenes, Total	ND		0.50	0.32	ug/L			09/02/22 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	97		70 - 130		09/02/22 01:29	1
4-Bromofluorobenzene	86		70 - 130		09/02/22 01:29	1

**Method: 524.2 - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>38</b>		2.5	0.85	ug/L			09/02/22 06:35	5
<b>cis-1,2-Dichloroethene</b>	<b>45</b>		2.5	0.70	ug/L			09/02/22 06:35	5
<b>Tetrachloroethene</b>	<b>46</b>		2.5	0.70	ug/L			09/02/22 06:35	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	103		70 - 130		09/02/22 06:35	5
4-Bromofluorobenzene	96		70 - 130		09/02/22 06:35	5

# Client Sample Results

Client: AECOM  
 Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

**Client Sample ID: BW-01-082522**

**Lab Sample ID: 480-201032-4**

**Date Collected: 08/25/22 12:15**

**Matrix: Water**

**Date Received: 08/25/22 14:00**

**Method: 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			09/02/22 01:50	1
1,1,1-Trichloroethane	ND		0.50	0.17	ug/L			09/02/22 01:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			09/02/22 01:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			09/02/22 01:50	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			09/02/22 01:50	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			09/02/22 01:50	1
1,1-Dichloroethene	ND	F1	0.50	0.19	ug/L			09/02/22 01:50	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			09/02/22 01:50	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			09/02/22 01:50	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			09/02/22 01:50	1
1,2,4-Trichlorobenzene	ND		0.50	0.10	ug/L			09/02/22 01:50	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			09/02/22 01:50	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.35	ug/L			09/02/22 01:50	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			09/02/22 01:50	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			09/02/22 01:50	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			09/02/22 01:50	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/02/22 01:50	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			09/02/22 01:50	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			09/02/22 01:50	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			09/02/22 01:50	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			09/02/22 01:50	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			09/02/22 01:50	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			09/02/22 01:50	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			09/02/22 01:50	1
2-Hexanone	ND		2.5	1.1	ug/L			09/02/22 01:50	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			09/02/22 01:50	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			09/02/22 01:50	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			09/02/22 01:50	1
Acetone	ND		3.0	2.9	ug/L			09/02/22 01:50	1
Acrylonitrile	ND		0.50	0.37	ug/L			09/02/22 01:50	1
Allyl chloride	ND		0.50	0.10	ug/L			09/02/22 01:50	1
Benzene	ND		0.50	0.11	ug/L			09/02/22 01:50	1
Bromobenzene	ND		0.50	0.070	ug/L			09/02/22 01:50	1
Bromochloromethane	ND		0.50	0.10	ug/L			09/02/22 01:50	1
Bromoform	ND		0.50	0.080	ug/L			09/02/22 01:50	1
Bromomethane	ND		0.50	0.31	ug/L			09/02/22 01:50	1
Carbon disulfide	ND		0.50	0.10	ug/L			09/02/22 01:50	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			09/02/22 01:50	1
Chlorobenzene	ND		0.50	0.10	ug/L			09/02/22 01:50	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			09/02/22 01:50	1
Chloroethane	ND		0.50	0.23	ug/L			09/02/22 01:50	1
Chloroform	ND		0.50	0.12	ug/L			09/02/22 01:50	1
Chloromethane	ND		0.50	0.18	ug/L			09/02/22 01:50	1
cis-1,2-Dichloroethene	ND		0.50	0.14	ug/L			09/02/22 01:50	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			09/02/22 01:50	1
Dibromomethane	ND		0.50	0.10	ug/L			09/02/22 01:50	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			09/02/22 01:50	1
Dichlorodifluoromethane	ND		0.50	0.30	ug/L			09/02/22 01:50	1
Ethyl ether	ND		0.50	0.14	ug/L			09/02/22 01:50	1

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# Client Sample Results

Client: AECOM  
Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

**Client Sample ID: BW-01-082522**

**Lab Sample ID: 480-201032-4**

Date Collected: 08/25/22 12:15

Matrix: Water

Date Received: 08/25/22 14:00

**Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50	0.090	ug/L			09/02/22 01:50	1
Hexachlorobutadiene	ND		0.50	0.19	ug/L			09/02/22 01:50	1
Iodomethane	ND	F1	0.50	0.033	ug/L			09/02/22 01:50	1
Isopropylbenzene	ND		0.50	0.14	ug/L			09/02/22 01:50	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			09/02/22 01:50	1
Methylene Chloride	ND		0.50	0.42	ug/L			09/02/22 01:50	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			09/02/22 01:50	1
Naphthalene	ND		0.50	0.080	ug/L			09/02/22 01:50	1
n-Butylbenzene	ND		0.50	0.14	ug/L			09/02/22 01:50	1
N-Propylbenzene	ND		0.50	0.14	ug/L			09/02/22 01:50	1
o-Xylene	ND		0.50	0.090	ug/L			09/02/22 01:50	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			09/02/22 01:50	1
Styrene	ND		0.50	0.090	ug/L			09/02/22 01:50	1
t-Butanol	ND		10	2.5	ug/L			09/02/22 01:50	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			09/02/22 01:50	1
Tetrachloroethene	ND		0.50	0.14	ug/L			09/02/22 01:50	1
Toluene	ND		0.50	0.11	ug/L			09/02/22 01:50	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/02/22 01:50	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			09/02/22 01:50	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			09/02/22 01:50	1
Trichloroethene	ND		0.50	0.11	ug/L			09/02/22 01:50	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			09/02/22 01:50	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			09/02/22 01:50	1
Vinyl chloride	ND		0.50	0.25	ug/L			09/02/22 01:50	1
Xylenes, Total	ND		0.50	0.32	ug/L			09/02/22 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	114		70 - 130		09/02/22 01:50	1
4-Bromofluorobenzene	105		70 - 130		09/02/22 01:50	1

# Client Sample Results

Client: AECOM  
 Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

**Client Sample ID: TB-082522**

**Lab Sample ID: 480-201032-5**

**Date Collected: 08/25/22 00:00**

**Matrix: Water**

**Date Received: 08/25/22 14:00**

**Method: 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			09/01/22 23:42	1
1,1,1-Trichloroethane	ND		0.50	0.17	ug/L			09/01/22 23:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			09/01/22 23:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			09/01/22 23:42	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			09/01/22 23:42	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			09/01/22 23:42	1
1,1-Dichloroethene	ND		0.50	0.19	ug/L			09/01/22 23:42	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			09/01/22 23:42	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			09/01/22 23:42	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			09/01/22 23:42	1
1,2,4-Trichlorobenzene	ND		0.50	0.10	ug/L			09/01/22 23:42	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			09/01/22 23:42	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.35	ug/L			09/01/22 23:42	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			09/01/22 23:42	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			09/01/22 23:42	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			09/01/22 23:42	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/01/22 23:42	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			09/01/22 23:42	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			09/01/22 23:42	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			09/01/22 23:42	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			09/01/22 23:42	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			09/01/22 23:42	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			09/01/22 23:42	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			09/01/22 23:42	1
2-Hexanone	ND		2.5	1.1	ug/L			09/01/22 23:42	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			09/01/22 23:42	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			09/01/22 23:42	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			09/01/22 23:42	1
Acetone	ND		3.0	2.9	ug/L			09/01/22 23:42	1
Acrylonitrile	ND		0.50	0.37	ug/L			09/01/22 23:42	1
Allyl chloride	ND		0.50	0.10	ug/L			09/01/22 23:42	1
Benzene	ND		0.50	0.11	ug/L			09/01/22 23:42	1
Bromobenzene	ND		0.50	0.070	ug/L			09/01/22 23:42	1
Bromochloromethane	ND		0.50	0.10	ug/L			09/01/22 23:42	1
Bromoform	ND		0.50	0.080	ug/L			09/01/22 23:42	1
Bromomethane	ND		0.50	0.31	ug/L			09/01/22 23:42	1
Carbon disulfide	ND		0.50	0.10	ug/L			09/01/22 23:42	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			09/01/22 23:42	1
Chlorobenzene	ND		0.50	0.10	ug/L			09/01/22 23:42	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			09/01/22 23:42	1
Chloroethane	ND		0.50	0.23	ug/L			09/01/22 23:42	1
Chloroform	ND		0.50	0.12	ug/L			09/01/22 23:42	1
Chloromethane	ND		0.50	0.18	ug/L			09/01/22 23:42	1
cis-1,2-Dichloroethene	ND		0.50	0.14	ug/L			09/01/22 23:42	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			09/01/22 23:42	1
Dibromomethane	ND		0.50	0.10	ug/L			09/01/22 23:42	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			09/01/22 23:42	1
Dichlorodifluoromethane	ND		0.50	0.30	ug/L			09/01/22 23:42	1
Ethyl ether	ND		0.50	0.14	ug/L			09/01/22 23:42	1

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# Client Sample Results

Client: AECOM  
 Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

**Client Sample ID: TB-082522**

**Lab Sample ID: 480-201032-5**

**Date Collected: 08/25/22 00:00**

**Matrix: Water**

**Date Received: 08/25/22 14:00**

**Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50	0.090	ug/L			09/01/22 23:42	1
Hexachlorobutadiene	ND		0.50	0.19	ug/L			09/01/22 23:42	1
Iodomethane	ND		0.50	0.033	ug/L			09/01/22 23:42	1
Isopropylbenzene	ND		0.50	0.14	ug/L			09/01/22 23:42	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			09/01/22 23:42	1
Methylene Chloride	ND		0.50	0.42	ug/L			09/01/22 23:42	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			09/01/22 23:42	1
Naphthalene	ND		0.50	0.080	ug/L			09/01/22 23:42	1
n-Butylbenzene	ND		0.50	0.14	ug/L			09/01/22 23:42	1
N-Propylbenzene	ND		0.50	0.14	ug/L			09/01/22 23:42	1
o-Xylene	ND		0.50	0.090	ug/L			09/01/22 23:42	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			09/01/22 23:42	1
Styrene	ND		0.50	0.090	ug/L			09/01/22 23:42	1
t-Butanol	ND		10	2.5	ug/L			09/01/22 23:42	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			09/01/22 23:42	1
Tetrachloroethene	ND		0.50	0.14	ug/L			09/01/22 23:42	1
Toluene	ND		0.50	0.11	ug/L			09/01/22 23:42	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/01/22 23:42	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			09/01/22 23:42	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			09/01/22 23:42	1
Trichloroethene	ND		0.50	0.11	ug/L			09/01/22 23:42	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			09/01/22 23:42	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			09/01/22 23:42	1
Vinyl chloride	ND		0.50	0.25	ug/L			09/01/22 23:42	1
Xylenes, Total	ND		0.50	0.32	ug/L			09/01/22 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	114		70 - 130		09/01/22 23:42	1
4-Bromofluorobenzene	101		70 - 130		09/01/22 23:42	1



# Surrogate Summary

Client: AECOM  
Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

**Method: 524.2 - Volatile Organic Compounds (GC/MS)**

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCZ	BFB
		(70-130)	(70-130)
480-201032-1	SW-01-082522	100	95
480-201032-2	SPRING-082522	97	95
480-201032-2 - DL	SPRING-082522	102	95
480-201032-3	FD-082522	97	86
480-201032-3 - DL	FD-082522	103	96
480-201032-4	BW-01-082522	114	105
480-201032-4 MS	BW-01-082522-MS	112	102
480-201032-4 MSD	BW-01-082522-MSD	104	93
480-201032-5	TB-082522	114	101
LCS 460-864366/4	Lab Control Sample	102	94
MB 460-864366/8	Method Blank	107	99

### Surrogate Legend

DCZ = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene

# QC Sample Results

Client: AECOM  
 Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 460-864366/8**  
**Matrix: Water**  
**Analysis Batch: 864366**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			09/01/22 23:20	1
1,1,1-Trichloroethane	ND		0.50	0.17	ug/L			09/01/22 23:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			09/01/22 23:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			09/01/22 23:20	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			09/01/22 23:20	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			09/01/22 23:20	1
1,1-Dichloroethene	ND		0.50	0.19	ug/L			09/01/22 23:20	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			09/01/22 23:20	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			09/01/22 23:20	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			09/01/22 23:20	1
1,2,4-Trichlorobenzene	ND		0.50	0.10	ug/L			09/01/22 23:20	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			09/01/22 23:20	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.35	ug/L			09/01/22 23:20	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			09/01/22 23:20	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			09/01/22 23:20	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			09/01/22 23:20	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			09/01/22 23:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			09/01/22 23:20	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			09/01/22 23:20	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			09/01/22 23:20	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			09/01/22 23:20	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			09/01/22 23:20	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			09/01/22 23:20	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			09/01/22 23:20	1
2-Hexanone	ND		2.5	1.1	ug/L			09/01/22 23:20	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			09/01/22 23:20	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			09/01/22 23:20	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			09/01/22 23:20	1
Acetone	ND		3.0	2.9	ug/L			09/01/22 23:20	1
Acrylonitrile	ND		0.50	0.37	ug/L			09/01/22 23:20	1
Allyl chloride	ND		0.50	0.10	ug/L			09/01/22 23:20	1
Benzene	ND		0.50	0.11	ug/L			09/01/22 23:20	1
Bromobenzene	ND		0.50	0.070	ug/L			09/01/22 23:20	1
Bromochloromethane	ND		0.50	0.10	ug/L			09/01/22 23:20	1
Bromoform	ND		0.50	0.080	ug/L			09/01/22 23:20	1
Bromomethane	ND		0.50	0.31	ug/L			09/01/22 23:20	1
Carbon disulfide	ND		0.50	0.10	ug/L			09/01/22 23:20	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			09/01/22 23:20	1
Chlorobenzene	ND		0.50	0.10	ug/L			09/01/22 23:20	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			09/01/22 23:20	1
Chloroethane	ND		0.50	0.23	ug/L			09/01/22 23:20	1
Chloroform	ND		0.50	0.12	ug/L			09/01/22 23:20	1
Chloromethane	ND		0.50	0.18	ug/L			09/01/22 23:20	1
cis-1,2-Dichloroethene	ND		0.50	0.14	ug/L			09/01/22 23:20	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			09/01/22 23:20	1
Dibromomethane	ND		0.50	0.10	ug/L			09/01/22 23:20	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			09/01/22 23:20	1
Dichlorodifluoromethane	ND		0.50	0.30	ug/L			09/01/22 23:20	1

# QC Sample Results

Client: AECOM  
Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 460-864366/8**  
**Matrix: Water**  
**Analysis Batch: 864366**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	ND		0.50	0.14	ug/L			09/01/22 23:20	1
Ethylbenzene	ND		0.50	0.090	ug/L			09/01/22 23:20	1
Hexachlorobutadiene	ND		0.50	0.19	ug/L			09/01/22 23:20	1
Iodomethane	ND		0.50	0.033	ug/L			09/01/22 23:20	1
Isopropylbenzene	ND		0.50	0.14	ug/L			09/01/22 23:20	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			09/01/22 23:20	1
Methylene Chloride	ND		0.50	0.42	ug/L			09/01/22 23:20	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			09/01/22 23:20	1
Naphthalene	ND		0.50	0.080	ug/L			09/01/22 23:20	1
n-Butylbenzene	ND		0.50	0.14	ug/L			09/01/22 23:20	1
N-Propylbenzene	ND		0.50	0.14	ug/L			09/01/22 23:20	1
o-Xylene	ND		0.50	0.090	ug/L			09/01/22 23:20	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			09/01/22 23:20	1
Styrene	ND		0.50	0.090	ug/L			09/01/22 23:20	1
t-Butanol	ND		10	2.5	ug/L			09/01/22 23:20	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			09/01/22 23:20	1
Tetrachloroethene	ND		0.50	0.14	ug/L			09/01/22 23:20	1
Toluene	ND		0.50	0.11	ug/L			09/01/22 23:20	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			09/01/22 23:20	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			09/01/22 23:20	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			09/01/22 23:20	1
Trichloroethene	ND		0.50	0.11	ug/L			09/01/22 23:20	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			09/01/22 23:20	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			09/01/22 23:20	1
Vinyl chloride	ND		0.50	0.25	ug/L			09/01/22 23:20	1
Xylenes, Total	ND		0.50	0.32	ug/L			09/01/22 23:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		70 - 130		09/01/22 23:20	1
4-Bromofluorobenzene	99		70 - 130		09/01/22 23:20	1

**Lab Sample ID: LCS 460-864366/4**  
**Matrix: Water**  
**Analysis Batch: 864366**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	2.00	1.86		ug/L		93	70 - 130
1,1,1-Trichloroethane	2.00	2.07		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.00		ug/L		100	70 - 130
1,1,2-Trichloroethane	2.00	1.96		ug/L		98	70 - 130
1,1-Dichloroethane	2.00	2.23		ug/L		111	70 - 130
1,1-Dichloroethene	2.00	2.18		ug/L		109	70 - 130
1,1-Dichloropropene	2.00	2.13		ug/L		107	70 - 130
1,2,3-Trichlorobenzene	2.00	1.98		ug/L		99	70 - 130
1,2,3-Trichloropropane	2.00	1.96		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	2.00	2.09		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	2.00	1.96		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	2.00	2.06		ug/L		103	70 - 130

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# QC Sample Results

Client: AECOM  
 Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 460-864366/4**  
**Matrix: Water**  
**Analysis Batch: 864366**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	2.00	1.89		ug/L		94	70 - 130
1,2-Dichlorobenzene	2.00	2.10		ug/L		105	70 - 130
1,2-Dichloroethane	2.00	1.93		ug/L		97	70 - 130
1,2-Dichloropropane	2.00	1.92		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	2.00	1.88		ug/L		94	70 - 130
1,3-Dichlorobenzene	2.00	1.89		ug/L		95	70 - 130
1,3-Dichloropropane	2.00	2.08		ug/L		104	70 - 130
1,4-Dichlorobenzene	2.00	1.87		ug/L		94	70 - 130
2,2-Dichloropropane	2.00	2.14		ug/L		107	70 - 130
2-Butanone (MEK)	10.0	8.80		ug/L		88	70 - 130
2-Chlorotoluene	2.00	1.84		ug/L		92	70 - 130
2-Hexanone	10.0	9.64		ug/L		96	70 - 130
4-Chlorotoluene	2.00	1.91		ug/L		96	70 - 130
4-Isopropyltoluene	2.00	2.11		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	10.0	9.81		ug/L		98	70 - 130
Acetone	10.0	9.26		ug/L		93	70 - 130
Benzene	2.00	2.02		ug/L		101	70 - 130
Bromobenzene	2.00	1.83		ug/L		91	70 - 130
Bromochloromethane	2.00	2.13		ug/L		107	70 - 130
Bromoform	2.00	1.92		ug/L		96	70 - 130
Bromomethane	2.00	2.04		ug/L		102	70 - 130
Carbon disulfide	2.00	1.67		ug/L		84	70 - 130
Carbon tetrachloride	2.00	2.29		ug/L		114	70 - 130
Chlorobenzene	2.00	1.92		ug/L		96	70 - 130
Chlorodibromomethane	2.00	1.97		ug/L		99	70 - 130
Chloroethane	2.00	2.38		ug/L		119	70 - 130
Chloroform	2.00	2.13		ug/L		106	70 - 130
Chloromethane	2.00	2.20		ug/L		110	70 - 130
cis-1,2-Dichloroethene	2.00	2.16		ug/L		108	70 - 130
cis-1,3-Dichloropropene	2.00	2.01		ug/L		100	70 - 130
Dibromomethane	2.00	2.09		ug/L		105	70 - 130
Dichlorobromomethane	2.00	2.10		ug/L		105	70 - 130
Dichlorodifluoromethane	2.00	2.17		ug/L		109	70 - 130
Ethylbenzene	2.00	1.96		ug/L		98	70 - 130
Hexachlorobutadiene	2.00	2.20		ug/L		110	70 - 130
Isopropylbenzene	2.00	1.83		ug/L		91	70 - 130
Methyl tert-butyl ether	2.00	1.86		ug/L		93	70 - 130
Methylene Chloride	2.00	2.26		ug/L		113	70 - 130
Naphthalene	2.00	1.90		ug/L		95	70 - 130
n-Butylbenzene	2.00	2.16		ug/L		108	70 - 130
N-Propylbenzene	2.00	1.89		ug/L		95	70 - 130
sec-Butylbenzene	2.00	2.00		ug/L		100	70 - 130
Styrene	2.00	1.82		ug/L		91	70 - 130
tert-Butylbenzene	2.00	2.02		ug/L		101	70 - 130
Tetrachloroethene	2.00	2.17		ug/L		108	70 - 130
Toluene	2.00	1.90		ug/L		95	70 - 130
trans-1,2-Dichloroethene	2.00	2.12		ug/L		106	70 - 130
trans-1,3-Dichloropropene	2.00	1.69		ug/L		85	70 - 130
Trichloroethene	2.00	2.01		ug/L		101	70 - 130

Eurofins Buffalo

# QC Sample Results

Client: AECOM  
Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 460-864366/4**  
**Matrix: Water**  
**Analysis Batch: 864366**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichlorofluoromethane	2.00	2.49		ug/L		125	70 - 130
Vinyl chloride	2.00	2.34		ug/L		117	70 - 130
Xylenes, Total	6.00	5.75		ug/L		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	102		70 - 130
4-Bromofluorobenzene	94		70 - 130

**Lab Sample ID: 480-201032-4 MS**  
**Matrix: Water**  
**Analysis Batch: 864366**

**Client Sample ID: BW-01-082522-MS**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		2.00	1.89		ug/L		95	70 - 130
1,1,1-Trichloroethane	ND		2.00	2.32		ug/L		116	70 - 130
1,1,2,2-Tetrachloroethane	ND		2.00	1.94		ug/L		97	70 - 130
1,1,2-Trichloroethane	ND		2.00	2.03		ug/L		102	70 - 130
1,1-Dichloroethane	ND		2.00	2.28		ug/L		114	70 - 130
1,1-Dichloroethene	ND	F1	2.00	2.42		ug/L		121	70 - 130
1,1-Dichloropropene	ND		2.00	2.23		ug/L		112	70 - 130
1,2,3-Trichlorobenzene	ND		2.00	2.04		ug/L		102	70 - 130
1,2,3-Trichloropropane	ND		2.00	1.94		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	ND		2.00	1.92		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	ND		2.00	1.93		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	ND		2.00	1.73		ug/L		86	70 - 130
1,2-Dibromoethane	ND		2.00	1.97		ug/L		98	70 - 130
1,2-Dichlorobenzene	ND		2.00	2.16		ug/L		108	70 - 130
1,2-Dichloroethane	ND		2.00	2.05		ug/L		103	70 - 130
1,2-Dichloropropane	ND		2.00	2.11		ug/L		105	70 - 130
1,3,5-Trimethylbenzene	ND		2.00	2.01		ug/L		101	70 - 130
1,3-Dichlorobenzene	ND		2.00	1.93		ug/L		97	70 - 130
1,3-Dichloropropane	ND		2.00	2.03		ug/L		101	70 - 130
1,4-Dichlorobenzene	ND		2.00	1.94		ug/L		97	70 - 130
2,2-Dichloropropane	ND		2.00	2.33		ug/L		116	70 - 130
2-Butanone (MEK)	ND		10.0	9.24		ug/L		92	70 - 130
2-Chlorotoluene	ND		2.00	2.00		ug/L		100	70 - 130
2-Hexanone	ND		10.0	9.82		ug/L		98	70 - 130
4-Chlorotoluene	ND		2.00	2.05		ug/L		102	70 - 130
4-Isopropyltoluene	ND		2.00	2.07		ug/L		103	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		10.0	9.35		ug/L		93	70 - 130
Acetone	ND		10.0	8.44		ug/L		84	70 - 130
Benzene	ND		2.00	2.09		ug/L		104	70 - 130
Bromobenzene	ND		2.00	1.97		ug/L		98	70 - 130
Bromochloromethane	ND		2.00	2.11		ug/L		106	70 - 130
Bromoform	ND		2.00	1.96		ug/L		98	70 - 130
Bromomethane	ND		2.00	1.56		ug/L		78	70 - 130
Carbon disulfide	ND		2.00	1.75		ug/L		88	70 - 130
Carbon tetrachloride	ND		2.00	2.35		ug/L		118	70 - 130

# QC Sample Results

Client: AECOM  
Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-201032-4 MS**  
**Matrix: Water**  
**Analysis Batch: 864366**

**Client Sample ID: BW-01-082522-MS**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	ND		2.00	2.08		ug/L		104	70 - 130
Chlorodibromomethane	ND		2.00	1.75		ug/L		88	70 - 130
Chloroethane	ND		2.00	2.20		ug/L		110	70 - 130
Chloroform	ND		2.00	2.12		ug/L		106	70 - 130
Chloromethane	ND		2.00	2.03		ug/L		102	70 - 130
cis-1,2-Dichloroethene	ND		2.00	2.23		ug/L		111	70 - 130
cis-1,3-Dichloropropene	ND		2.00	1.89		ug/L		94	70 - 130
Dibromomethane	ND		2.00	2.01		ug/L		100	70 - 130
Dichlorobromomethane	ND		2.00	2.01		ug/L		101	70 - 130
Dichlorodifluoromethane	ND		2.00	2.26		ug/L		113	70 - 130
Ethylbenzene	ND		2.00	2.11		ug/L		106	70 - 130
Hexachlorobutadiene	ND		2.00	2.10		ug/L		105	70 - 130
Isopropylbenzene	ND		2.00	2.02		ug/L		101	70 - 130
Methyl tert-butyl ether	ND		2.00	1.93		ug/L		97	70 - 130
Methylene Chloride	ND		2.00	2.19		ug/L		109	70 - 130
Naphthalene	ND		2.00	1.74		ug/L		87	70 - 130
n-Butylbenzene	ND		2.00	2.19		ug/L		110	70 - 130
N-Propylbenzene	ND		2.00	1.96		ug/L		98	70 - 130
sec-Butylbenzene	ND		2.00	2.00		ug/L		100	70 - 130
Styrene	ND		2.00	1.91		ug/L		96	70 - 130
tert-Butylbenzene	ND		2.00	2.02		ug/L		101	70 - 130
Tetrachloroethene	ND		2.00	2.22		ug/L		111	70 - 130
Toluene	ND		2.00	2.05		ug/L		102	70 - 130
trans-1,2-Dichloroethene	ND		2.00	2.20		ug/L		110	70 - 130
trans-1,3-Dichloropropene	ND		2.00	1.61		ug/L		81	70 - 130
Trichloroethene	ND		2.00	2.00		ug/L		100	70 - 130
Trichlorofluoromethane	ND		2.00	2.48		ug/L		124	70 - 130
Vinyl chloride	ND		2.00	2.32		ug/L		116	70 - 130
Xylenes, Total	ND		6.00	6.00		ug/L		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichlorobenzene-d4	112		70 - 130
4-Bromofluorobenzene	102		70 - 130

**Lab Sample ID: 480-201032-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 864366**

**Client Sample ID: BW-01-082522-MSD**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		2.00	2.14		ug/L		107	70 - 130	12	30
1,1,1-Trichloroethane	ND		2.00	2.45		ug/L		122	70 - 130	5	30
1,1,2,2-Tetrachloroethane	ND		2.00	1.97		ug/L		98	70 - 130	1	30
1,1,2-Trichloroethane	ND		2.00	2.15		ug/L		108	70 - 130	6	30
1,1-Dichloroethane	ND		2.00	2.29		ug/L		115	70 - 130	0	30
1,1-Dichloroethene	ND	F1	2.00	2.70	F1	ug/L		135	70 - 130	11	30
1,1-Dichloropropene	ND		2.00	2.34		ug/L		117	70 - 130	5	30
1,2,3-Trichlorobenzene	ND		2.00	2.15		ug/L		107	70 - 130	5	30
1,2,3-Trichloropropane	ND		2.00	2.02		ug/L		101	70 - 130	4	30

Eurofins Buffalo

# QC Sample Results

Client: AECOM  
 Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-201032-4 MSD**

**Client Sample ID: BW-01-082522-MSD**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 864366**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		2.00	2.34		ug/L		117	70 - 130	20	30
1,2,4-Trimethylbenzene	ND		2.00	2.10		ug/L		105	70 - 130	8	30
1,2-Dibromo-3-Chloropropane	ND		2.00	2.24		ug/L		112	70 - 130	26	30
1,2-Dibromoethane	ND		2.00	2.09		ug/L		105	70 - 130	6	30
1,2-Dichlorobenzene	ND		2.00	2.12		ug/L		106	70 - 130	2	30
1,2-Dichloroethane	ND		2.00	2.16		ug/L		108	70 - 130	5	30
1,2-Dichloropropane	ND		2.00	2.29		ug/L		115	70 - 130	8	30
1,3,5-Trimethylbenzene	ND		2.00	2.13		ug/L		107	70 - 130	6	30
1,3-Dichlorobenzene	ND		2.00	2.12		ug/L		106	70 - 130	9	30
1,3-Dichloropropane	ND		2.00	2.08		ug/L		104	70 - 130	3	30
1,4-Dichlorobenzene	ND		2.00	2.17		ug/L		109	70 - 130	11	30
2,2-Dichloropropane	ND		2.00	2.42		ug/L		121	70 - 130	4	30
2-Butanone (MEK)	ND		10.0	8.72		ug/L		87	70 - 130	6	30
2-Chlorotoluene	ND		2.00	2.11		ug/L		105	70 - 130	5	30
2-Hexanone	ND		10.0	9.99		ug/L		100	70 - 130	2	30
4-Chlorotoluene	ND		2.00	2.07		ug/L		104	70 - 130	1	30
4-Isopropyltoluene	ND		2.00	2.24		ug/L		112	70 - 130	8	30
4-Methyl-2-pentanone (MIBK)	ND		10.0	10.2		ug/L		102	70 - 130	9	30
Acetone	ND		10.0	8.49		ug/L		85	70 - 130	1	30
Benzene	ND		2.00	2.18		ug/L		109	70 - 130	4	30
Bromobenzene	ND		2.00	1.98		ug/L		99	70 - 130	1	30
Bromochloromethane	ND		2.00	2.33		ug/L		116	70 - 130	10	30
Bromoform	ND		2.00	2.09		ug/L		105	70 - 130	6	30
Bromomethane	ND		2.00	1.56		ug/L		78	70 - 130	0	30
Carbon disulfide	ND		2.00	1.83		ug/L		91	70 - 130	4	30
Carbon tetrachloride	ND		2.00	2.59		ug/L		130	70 - 130	10	30
Chlorobenzene	ND		2.00	2.04		ug/L		102	70 - 130	2	30
Chlorodibromomethane	ND		2.00	2.02		ug/L		101	70 - 130	14	30
Chloroethane	ND		2.00	2.53		ug/L		126	70 - 130	14	30
Chloroform	ND		2.00	2.36		ug/L		118	70 - 130	11	30
Chloromethane	ND		2.00	2.10		ug/L		105	70 - 130	3	30
cis-1,2-Dichloroethene	ND		2.00	2.40		ug/L		120	70 - 130	7	30
cis-1,3-Dichloropropene	ND		2.00	1.92		ug/L		96	70 - 130	2	30
Dibromomethane	ND		2.00	2.14		ug/L		107	70 - 130	6	30
Dichlorobromomethane	ND		2.00	2.15		ug/L		107	70 - 130	6	30
Dichlorodifluoromethane	ND		2.00	2.48		ug/L		124	70 - 130	9	30
Ethylbenzene	ND		2.00	2.18		ug/L		109	70 - 130	3	30
Hexachlorobutadiene	ND		2.00	2.33		ug/L		117	70 - 130	11	30
Isopropylbenzene	ND		2.00	2.08		ug/L		104	70 - 130	3	30
Methyl tert-butyl ether	ND		2.00	1.88		ug/L		94	70 - 130	3	30
Methylene Chloride	ND		2.00	2.51		ug/L		126	70 - 130	14	30
Naphthalene	ND		2.00	2.00		ug/L		100	70 - 130	14	30
n-Butylbenzene	ND		2.00	2.36		ug/L		118	70 - 130	7	30
N-Propylbenzene	ND		2.00	2.18		ug/L		109	70 - 130	11	30
sec-Butylbenzene	ND		2.00	2.16		ug/L		108	70 - 130	8	30
Styrene	ND		2.00	2.01		ug/L		101	70 - 130	5	30
tert-Butylbenzene	ND		2.00	2.36		ug/L		118	70 - 130	16	30
Tetrachloroethene	ND		2.00	2.31		ug/L		115	70 - 130	4	30
Toluene	ND		2.00	2.21		ug/L		110	70 - 130	8	30

Eurofins Buffalo

# QC Sample Results

Client: AECOM  
 Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-201032-4 MSD

Client Sample ID: BW-01-082522-MSD

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 864366

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	ND		2.00	2.50		ug/L		125	70 - 130	13	30
trans-1,3-Dichloropropene	ND		2.00	1.79		ug/L		90	70 - 130	10	30
Trichloroethene	ND		2.00	2.27		ug/L		113	70 - 130	13	30
Trichlorofluoromethane	ND		2.00	2.59		ug/L		129	70 - 130	4	30
Vinyl chloride	ND		2.00	2.48		ug/L		124	70 - 130	7	30
Xylenes, Total	ND		6.00	6.18		ug/L		103	70 - 130	3	30

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichlorobenzene-d4	104		70 - 130
4-Bromofluorobenzene	93		70 - 130



# QC Association Summary

Client: AECOM  
Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

## GC/MS VOA

### Analysis Batch: 864366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-201032-1	SW-01-082522	Total/NA	Water	524.2	
480-201032-2	SPRING-082522	Total/NA	Water	524.2	
480-201032-2 - DL	SPRING-082522	Total/NA	Water	524.2	
480-201032-3	FD-082522	Total/NA	Water	524.2	
480-201032-3 - DL	FD-082522	Total/NA	Water	524.2	
480-201032-4	BW-01-082522	Total/NA	Water	524.2	
480-201032-5	TB-082522	Total/NA	Water	524.2	
MB 460-864366/8	Method Blank	Total/NA	Water	524.2	
LCS 460-864366/4	Lab Control Sample	Total/NA	Water	524.2	
480-201032-4 MS	BW-01-082522-MS	Total/NA	Water	524.2	
480-201032-4 MSD	BW-01-082522-MSD	Total/NA	Water	524.2	

# Lab Chronicle

Client: AECOM  
Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

## Client Sample ID: SW-01-082522

Lab Sample ID: 480-201032-1

Date Collected: 08/25/22 08:15

Matrix: Water

Date Received: 08/25/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	864366	KLB	EET EDI	09/02/22 00:46

## Client Sample ID: SPRING-082522

Lab Sample ID: 480-201032-2

Date Collected: 08/25/22 10:30

Matrix: Water

Date Received: 08/25/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	864366	KLB	EET EDI	09/02/22 01:07
Total/NA	Analysis	524.2	DL	5	864366	KLB	EET EDI	09/02/22 06:13

## Client Sample ID: FD-082522

Lab Sample ID: 480-201032-3

Date Collected: 08/25/22 00:00

Matrix: Water

Date Received: 08/25/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	864366	KLB	EET EDI	09/02/22 01:29
Total/NA	Analysis	524.2	DL	5	864366	KLB	EET EDI	09/02/22 06:35

## Client Sample ID: BW-01-082522

Lab Sample ID: 480-201032-4

Date Collected: 08/25/22 12:15

Matrix: Water

Date Received: 08/25/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	864366	KLB	EET EDI	09/02/22 01:50

## Client Sample ID: TB-082522

Lab Sample ID: 480-201032-5

Date Collected: 08/25/22 00:00

Matrix: Water

Date Received: 08/25/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	864366	KLB	EET EDI	09/01/22 23:42

### Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

# Accreditation/Certification Summary

Client: AECOM

Job ID: 480-201032-1

Project/Site: 60583042 - Wyoming County FTC

## Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-22
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-23
Massachusetts	State	M-NJ312	06-30-23
New Jersey	NELAP	12028	06-30-23
New York	NELAP	11452	04-01-23
Pennsylvania	NELAP	68-00522	02-28-23
Rhode Island	State	LAO00376	12-31-22
USDA	US Federal Programs	P330-20-00244	11-03-23

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# Method Summary

Client: AECOM

Job ID: 480-201032-1

Project/Site: 60583042 - Wyoming County FTC

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Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	EET EDI

---

**Protocol References:**

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

**Laboratory References:**

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900



# Sample Summary

Client: AECOM  
Project/Site: 60583042 - Wyoming County FTC

Job ID: 480-201032-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-201032-1	SW-01-082522	Water	08/25/22 08:15	08/25/22 14:00
480-201032-2	SPRING-082522	Water	08/25/22 10:30	08/25/22 14:00
480-201032-3	FD-082522	Water	08/25/22 00:00	08/25/22 14:00
480-201032-4	BW-01-082522	Water	08/25/22 12:15	08/25/22 14:00
480-201032-5	TB-082522	Water	08/25/22 00:00	08/25/22 14:00

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## Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-201032-1

**Login Number: 201032**

**List Number: 1**

**Creator: Yeager, Brian A**

**List Source: Eurofins Buffalo**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	



## Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-201032-1

**Login Number: 201032**

**List Number: 2**

**Creator: Meyers, Gary**

**List Source: Eurofins Edison**

**List Creation: 08/26/22 04:43 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1979967
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



## Memorandum

To Colin Wasteneys Page 1

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CC

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Subject Analytical Data Review  
Wyoming County Fire Training Center Site  
May 2023 Groundwater Sampling Event

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From Ann Marie Kropovitch

---

Date July 18, 2023

---

Four water samples, one field duplicate, one matrix spike/matrix spike duplicate (MS/MSD) pair, one field blank, and one trip blank were collected from the Wyoming County Fire Training Center Site on May 25, 2023 by AECOM and sent to Eurofins Laboratories, Inc. (Buffalo, NY) for analysis. The samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC). The samples were analyzed for volatile organic compounds (VOCs) by USEPA Method 8260C and Per- and Polyfluoroalkyl Substances (PFAS) by USEPA Method 537 Modified. The PFAS analysis was performed by Eurofins (Sacramento, CA). The analytical results were provided in Eurofins report number 480-209285-1. Not all samples were analyzed for all parameters.

In accordance with the *Site Management Plan*, a limited data review was performed on all samples for completeness of deliverables, and for compliance with method criteria, which includes reporting limits (RL), holding times, method blanks, surrogate recoveries, internal standard recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries (%R), and laboratory control sample (LCS) recoveries.

All samples were analyzed within holding times, with compliant surrogate, internal standard, MS/MSD, and LCS recoveries with the following exceptions:

- The relative response factor of the continuing calibration exceeded the QC limit and showed a low bias for VOC 1,1,2,2-tetrachloroethane. The result for this compound in associated field QC sample TB-05252023 was qualified 'UJ'.
- The %R of VOC cis-1,2-dichloroethene (cis-1,2-DCE) in the MSD performed on sample MW-07-05252023 was below the QC limit. The %Rs of this compound were acceptable in the MS and LCS samples. The result for cis-1,2-DCE in sample MW-07-05252023 has been qualified 'J'.

The relative percent differences between the parent sample MW-02-052523/FD-052523-MW were acceptable (i.e., < 25%), therefore no data qualification was necessary.

All data are usable as reported.

## Memorandum

To Colin Wasteneys Page 1

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CC

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Subject Analytical Data Review  
Wyoming County Fire Training Center Site  
May 2023 Groundwater Sampling Event

---

From Ann Marie Kropovitch

---

Date July 19, 2023

---

Two water samples, one field duplicate, one matrix spike/matrix spike duplicate (MS/MSD) pair, and one trip blank were collected from the Wyoming County Fire Training Center Site on May 25-26, 2023 by AECOM and sent to Eurofins Laboratories, Inc. (Edison, NJ) for analysis. The samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC). The samples were analyzed for volatile organic compounds (VOCs) by USEPA Method 524.2. The analytical results were provided in Eurofins report number 480-209286-1.

In accordance with the *Site Management Plan*, a limited data review was performed on all samples for completeness of deliverables, and for compliance with method criteria, which includes reporting limits (RL), holding times, method blanks, surrogate recoveries, internal standard recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries (%R), and laboratory control sample (LCS) recoveries.

All samples were analyzed within holding times, with compliant surrogate, internal standard, MS/MSD, and LCS recoveries with the following exception:

- The relative response factor of the continuing calibration exceeded the QC limit and showed a low bias for VOCS bromomethane and dichlorodifluoromethane. The results for these compounds in all samples were qualified 'UJ.'
- The %Rs of the LCS/LCSD was below the lower QC limit for VOCs 1,2,4-trichlorobenzene, 1,2-dibromo-3-chloropropane, 2-hexanone, bromomethane, and hexachlorobutadiene. The results for these compounds in all samples have been qualified 'UJ.'
- The %Rs of bromomethane and chloromethane were below the QC limit in the MS/MSD performed on sample BW-01-05262023. The results for these compounds in sample BW-01-05262023 were qualified 'UJ'.
- VOC diethyl ether (ethyl ether) was detected in the trip blank at a concentration greater than the method detection limit (MDL) but less than the reporting limit (RL). Since the results for this compound were less than the RL in associated samples BW-01-05262023, FD-05252023 (SW-01-05252023), and SW-01-05252023, the results for diethyl ether (ethyl ether) in these samples have been qualified 'U' at the RL.

The relative percent differences between the parent sample SW-01-05252023/FD-05252023 were acceptable (i.e., < 25%), therefore no data qualification was necessary.

All data are usable as reported.

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Colin Wasteneys  
AECOM  
50 Lakefront Boulevard  
Suite 111  
Buffalo, New York 14202

Generated 6/27/2023 6:35:57 PM

## JOB DESCRIPTION

60691198 - Wyoming County FTC

## JOB NUMBER

480-209285-1


# Eurofins Buffalo

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

## Authorization



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# Definitions/Glossary

Client: AECOM

Job ID: 480-209285-1

Project/Site: 60691198 - Wyoming County FTC

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Job ID: 480-209285-1

### Laboratory: Eurofins Buffalo

#### Narrative

#### Job Narrative 480-209285-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/26/2023 2:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 4.1° C and 5.7° C.

#### GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-671660 recovered outside acceptance criteria, low biased, for 1,1,2,2-Tetrachloroethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported. The associated sample is impacted: TB-05252023 (480-209285-7).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-671660 recovered above the upper control limit for Chloromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TB-05252023 (480-209285-7).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-671660 recovered outside control limits for the following analytes: Methylcyclohexane, Dichlorobromomethane, Chloromethane, Trichloroethene and 1,2-Dichloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated sample is impacted: TB-05252023 (480-209285-7).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-02-052523 (480-209285-1), FD-052523-MW (480-209285-2), MW-07-05252023 (480-209285-4), MW-07-05252023 MS (480-209285-4[MS]), MW-07-05252023 MSD (480-209285-4[MSD]) and MW-15-05252023 (480-209285-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 671910 recovered above the upper control limit for Chloromethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-02-052523 (480-209285-1), FD-052523-MW (480-209285-2), MW-07-05252023 (480-209285-4), MW-15-05252023 (480-209285-5) and MW-12-05252023 (480-209285-6).

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-671910 were outside control limits for one or more analytes. .

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### LCMS

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-681248.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



# Detection Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Client Sample ID: MW-02-052523

## Lab Sample ID: 480-209285-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.6		2.0	1.6	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	1.2	J	2.0	0.76	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	170		2.0	1.6	ug/L	2		8260C	Total/NA
Tetrachloroethene	42		2.0	0.72	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	1.9	J	2.0	1.8	ug/L	2		8260C	Total/NA
Trichloroethene	110		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	2.4		2.0	1.8	ug/L	2		8260C	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.77	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	21		4.5	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	21		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.78	J	1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	31		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.4	J	1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	30		1.8	0.77	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	64		1.8	0.45	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: FD-052523-MW

## Lab Sample ID: 480-209285-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.6		2.0	1.6	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	1.1	J	2.0	0.76	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	160		2.0	1.6	ug/L	2		8260C	Total/NA
Tetrachloroethene	43		2.0	0.72	ug/L	2		8260C	Total/NA
Trichloroethene	110		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	2.5		2.0	1.8	ug/L	2		8260C	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.80	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	22		4.5	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	21		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.84	J	1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	32		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.5	J	1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	27		1.8	0.77	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	65		1.8	0.44	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: FB-052523-MW

## Lab Sample ID: 480-209285-3

No Detections.

## Client Sample ID: MW-07-05252023

## Lab Sample ID: 480-209285-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	65		4.0	3.3	ug/L	4		8260C	Total/NA
1,1-Dichloroethane	12		4.0	1.5	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	180	J	4.0	3.2	ug/L	4		8260C	Total/NA
Tetrachloroethene	80		4.0	1.4	ug/L	4		8260C	Total/NA
Trichloroethene	6.5		4.0	1.8	ug/L	4		8260C	Total/NA

## Client Sample ID: MW-15-05252023

## Lab Sample ID: 480-209285-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	40		2.0	1.6	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	5.5		2.0	0.76	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	32		2.0	1.6	ug/L	2		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

# Detection Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Client Sample ID: MW-15-05252023 (Continued)

Lab Sample ID: 480-209285-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	130		2.0	0.72	ug/L	2		8260C	Total/NA
Trichloroethene	5.5		2.0	0.92	ug/L	2		8260C	Total/NA

## Client Sample ID: MW-12-05252023

Lab Sample ID: 480-209285-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	17		1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	2.2		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	28		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	9.8		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	2.5		1.0	0.46	ug/L	1		8260C	Total/NA

## Client Sample ID: TB-05252023

Lab Sample ID: 480-209285-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

**Client Sample ID: MW-02-052523**

**Lab Sample ID: 480-209285-1**

Date Collected: 05/25/23 12:08

Matrix: Water

Date Received: 05/26/23 14:05

**Method: SW846 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>3.6</b>		2.0	1.6	ug/L			06/05/23 19:03	2
1,1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/05/23 19:03	2
1,1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/05/23 19:03	2
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			06/05/23 19:03	2
<b>1,1-Dichloroethane</b>	<b>1.2 J</b>		2.0	0.76	ug/L			06/05/23 19:03	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/05/23 19:03	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			06/05/23 19:03	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			06/05/23 19:03	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			06/05/23 19:03	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			06/05/23 19:03	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/05/23 19:03	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/05/23 19:03	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			06/05/23 19:03	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			06/05/23 19:03	2
2-Hexanone	ND		10	2.5	ug/L			06/05/23 19:03	2
2-Butanone (MEK)	ND		20	2.6	ug/L			06/05/23 19:03	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			06/05/23 19:03	2
Acetone	ND		20	6.0	ug/L			06/05/23 19:03	2
Benzene	ND		2.0	0.82	ug/L			06/05/23 19:03	2
Bromodichloromethane	ND		2.0	0.78	ug/L			06/05/23 19:03	2
Bromoform	ND		2.0	0.52	ug/L			06/05/23 19:03	2
Bromomethane	ND		2.0	1.4	ug/L			06/05/23 19:03	2
Carbon disulfide	ND		2.0	0.38	ug/L			06/05/23 19:03	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/05/23 19:03	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/05/23 19:03	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/05/23 19:03	2
Chloroethane	ND		2.0	0.64	ug/L			06/05/23 19:03	2
Chloroform	ND		2.0	0.68	ug/L			06/05/23 19:03	2
Chloromethane	ND		2.0	0.70	ug/L			06/05/23 19:03	2
<b>cis-1,2-Dichloroethene</b>	<b>170</b>		2.0	1.6	ug/L			06/05/23 19:03	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/05/23 19:03	2
Cyclohexane	ND		2.0	0.36	ug/L			06/05/23 19:03	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			06/05/23 19:03	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/05/23 19:03	2
Isopropylbenzene	ND		2.0	1.6	ug/L			06/05/23 19:03	2
Methyl acetate	ND		5.0	2.6	ug/L			06/05/23 19:03	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			06/05/23 19:03	2
Methylcyclohexane	ND		2.0	0.32	ug/L			06/05/23 19:03	2
Methylene Chloride	ND		2.0	0.88	ug/L			06/05/23 19:03	2
Styrene	ND		2.0	1.5	ug/L			06/05/23 19:03	2
<b>Tetrachloroethene</b>	<b>42</b>		2.0	0.72	ug/L			06/05/23 19:03	2
Toluene	ND		2.0	1.0	ug/L			06/05/23 19:03	2
<b>trans-1,2-Dichloroethene</b>	<b>1.9 J</b>		2.0	1.8	ug/L			06/05/23 19:03	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			06/05/23 19:03	2
<b>Trichloroethene</b>	<b>110</b>		2.0	0.92	ug/L			06/05/23 19:03	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			06/05/23 19:03	2
<b>Vinyl chloride</b>	<b>2.4</b>		2.0	1.8	ug/L			06/05/23 19:03	2
Xylenes, Total	ND		4.0	1.3	ug/L			06/05/23 19:03	2

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

**Client Sample ID: MW-02-052523**

**Lab Sample ID: 480-209285-1**

Date Collected: 05/25/23 12:08

Matrix: Water

Date Received: 05/26/23 14:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		06/05/23 19:03	2
Toluene-d8 (Surr)	101		80 - 120		06/05/23 19:03	2
4-Bromofluorobenzene (Surr)	103		73 - 120		06/05/23 19:03	2
Dibromofluoromethane (Surr)	107		75 - 123		06/05/23 19:03	2

## Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	ND		4.5	2.3	ng/L		06/08/23 04:41	06/13/23 01:43	1
8:2 FTS	ND		1.8	0.42	ng/L		06/08/23 04:41	06/13/23 01:43	1
NEtFOSAA	ND		4.5	1.2	ng/L		06/08/23 04:41	06/13/23 01:43	1
NMeFOSAA	ND		4.5	1.1	ng/L		06/08/23 04:41	06/13/23 01:43	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.77</b>	<b>J</b>	1.8	0.18	ng/L		06/08/23 04:41	06/13/23 01:43	1
<b>Perfluorobutanoic acid (PFBA)</b>	<b>21</b>		4.5	2.2	ng/L		06/08/23 04:41	06/13/23 01:43	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.29	ng/L		06/08/23 04:41	06/13/23 01:43	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.28	ng/L		06/08/23 04:41	06/13/23 01:43	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.50	ng/L		06/08/23 04:41	06/13/23 01:43	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.17	ng/L		06/08/23 04:41	06/13/23 01:43	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>21</b>		1.8	0.23	ng/L		06/08/23 04:41	06/13/23 01:43	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>0.78</b>	<b>J</b>	1.8	0.52	ng/L		06/08/23 04:41	06/13/23 01:43	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>31</b>		1.8	0.53	ng/L		06/08/23 04:41	06/13/23 01:43	1
<b>Perfluorononanoic acid (PFNA)</b>	<b>1.4</b>	<b>J</b>	1.8	0.25	ng/L		06/08/23 04:41	06/13/23 01:43	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.89	ng/L		06/08/23 04:41	06/13/23 01:43	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.49	ng/L		06/08/23 04:41	06/13/23 01:43	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>30</b>		1.8	0.77	ng/L		06/08/23 04:41	06/13/23 01:43	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>64</b>		1.8	0.45	ng/L		06/08/23 04:41	06/13/23 01:43	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.66	ng/L		06/08/23 04:41	06/13/23 01:43	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	1.2	ng/L		06/08/23 04:41	06/13/23 01:43	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.0	ng/L		06/08/23 04:41	06/13/23 01:43	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	93		25 - 150	06/08/23 04:41	06/13/23 01:43	1
13C2 PFDoA	83		25 - 150	06/08/23 04:41	06/13/23 01:43	1
13C2 PFHxA	96		25 - 150	06/08/23 04:41	06/13/23 01:43	1
13C2 PFTeDA	70		25 - 150	06/08/23 04:41	06/13/23 01:43	1
13C2 PFUnA	99		25 - 150	06/08/23 04:41	06/13/23 01:43	1
13C3 PFBS	96		25 - 150	06/08/23 04:41	06/13/23 01:43	1
13C4 PFBA	112		25 - 150	06/08/23 04:41	06/13/23 01:43	1
13C4 PFHpA	100		25 - 150	06/08/23 04:41	06/13/23 01:43	1
13C4 PFOA	96		25 - 150	06/08/23 04:41	06/13/23 01:43	1
13C4 PFOS	96		25 - 150	06/08/23 04:41	06/13/23 01:43	1
13C5 PFNA	97		25 - 150	06/08/23 04:41	06/13/23 01:43	1
13C5 PFPeA	111		25 - 150	06/08/23 04:41	06/13/23 01:43	1
13C8 FOSA	98		25 - 150	06/08/23 04:41	06/13/23 01:43	1
18O2 PFHxS	103		25 - 150	06/08/23 04:41	06/13/23 01:43	1
d3-NMeFOSAA	97		25 - 150	06/08/23 04:41	06/13/23 01:43	1
d5-NEtFOSAA	98		25 - 150	06/08/23 04:41	06/13/23 01:43	1
M2-6:2 FTS	91		25 - 150	06/08/23 04:41	06/13/23 01:43	1
M2-8:2 FTS	102		25 - 150	06/08/23 04:41	06/13/23 01:43	1

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# Client Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

**Client Sample ID: FD-052523-MW**

**Lab Sample ID: 480-209285-2**

Date Collected: 05/25/23 00:00

Matrix: Water

Date Received: 05/26/23 14:05

**Method: SW846 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>3.6</b>		2.0	1.6	ug/L			06/05/23 19:27	2
1,1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/05/23 19:27	2
1,1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/05/23 19:27	2
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			06/05/23 19:27	2
<b>1,1-Dichloroethane</b>	<b>1.1 J</b>		2.0	0.76	ug/L			06/05/23 19:27	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/05/23 19:27	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			06/05/23 19:27	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			06/05/23 19:27	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			06/05/23 19:27	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			06/05/23 19:27	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/05/23 19:27	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/05/23 19:27	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			06/05/23 19:27	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			06/05/23 19:27	2
2-Hexanone	ND		10	2.5	ug/L			06/05/23 19:27	2
2-Butanone (MEK)	ND		20	2.6	ug/L			06/05/23 19:27	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			06/05/23 19:27	2
Acetone	ND		20	6.0	ug/L			06/05/23 19:27	2
Benzene	ND		2.0	0.82	ug/L			06/05/23 19:27	2
Bromodichloromethane	ND		2.0	0.78	ug/L			06/05/23 19:27	2
Bromoform	ND		2.0	0.52	ug/L			06/05/23 19:27	2
Bromomethane	ND		2.0	1.4	ug/L			06/05/23 19:27	2
Carbon disulfide	ND		2.0	0.38	ug/L			06/05/23 19:27	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/05/23 19:27	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/05/23 19:27	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/05/23 19:27	2
Chloroethane	ND		2.0	0.64	ug/L			06/05/23 19:27	2
Chloroform	ND		2.0	0.68	ug/L			06/05/23 19:27	2
Chloromethane	ND		2.0	0.70	ug/L			06/05/23 19:27	2
<b>cis-1,2-Dichloroethene</b>	<b>160</b>		2.0	1.6	ug/L			06/05/23 19:27	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/05/23 19:27	2
Cyclohexane	ND		2.0	0.36	ug/L			06/05/23 19:27	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			06/05/23 19:27	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/05/23 19:27	2
Isopropylbenzene	ND		2.0	1.6	ug/L			06/05/23 19:27	2
Methyl acetate	ND		5.0	2.6	ug/L			06/05/23 19:27	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			06/05/23 19:27	2
Methylcyclohexane	ND		2.0	0.32	ug/L			06/05/23 19:27	2
Methylene Chloride	ND		2.0	0.88	ug/L			06/05/23 19:27	2
Styrene	ND		2.0	1.5	ug/L			06/05/23 19:27	2
<b>Tetrachloroethene</b>	<b>43</b>		2.0	0.72	ug/L			06/05/23 19:27	2
Toluene	ND		2.0	1.0	ug/L			06/05/23 19:27	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			06/05/23 19:27	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			06/05/23 19:27	2
<b>Trichloroethene</b>	<b>110</b>		2.0	0.92	ug/L			06/05/23 19:27	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			06/05/23 19:27	2
<b>Vinyl chloride</b>	<b>2.5</b>		2.0	1.8	ug/L			06/05/23 19:27	2
Xylenes, Total	ND		4.0	1.3	ug/L			06/05/23 19:27	2

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

**Client Sample ID: FD-052523-MW**

**Lab Sample ID: 480-209285-2**

Date Collected: 05/25/23 00:00

Matrix: Water

Date Received: 05/26/23 14:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		06/05/23 19:27	2
Toluene-d8 (Surr)	99		80 - 120		06/05/23 19:27	2
4-Bromofluorobenzene (Surr)	105		73 - 120		06/05/23 19:27	2
Dibromofluoromethane (Surr)	102		75 - 123		06/05/23 19:27	2

## Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	ND		4.5	2.3	ng/L		06/08/23 04:41	06/13/23 01:53	1
8:2 FTS	ND		1.8	0.42	ng/L		06/08/23 04:41	06/13/23 01:53	1
NEtFOSAA	ND		4.5	1.2	ng/L		06/08/23 04:41	06/13/23 01:53	1
NMeFOSAA	ND		4.5	1.1	ng/L		06/08/23 04:41	06/13/23 01:53	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.80</b>	<b>J</b>	1.8	0.18	ng/L		06/08/23 04:41	06/13/23 01:53	1
<b>Perfluorobutanoic acid (PFBA)</b>	<b>22</b>		4.5	2.2	ng/L		06/08/23 04:41	06/13/23 01:53	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.29	ng/L		06/08/23 04:41	06/13/23 01:53	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.28	ng/L		06/08/23 04:41	06/13/23 01:53	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.50	ng/L		06/08/23 04:41	06/13/23 01:53	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.17	ng/L		06/08/23 04:41	06/13/23 01:53	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>21</b>		1.8	0.23	ng/L		06/08/23 04:41	06/13/23 01:53	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>0.84</b>	<b>J</b>	1.8	0.52	ng/L		06/08/23 04:41	06/13/23 01:53	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>32</b>		1.8	0.53	ng/L		06/08/23 04:41	06/13/23 01:53	1
<b>Perfluorononanoic acid (PFNA)</b>	<b>1.5</b>	<b>J</b>	1.8	0.25	ng/L		06/08/23 04:41	06/13/23 01:53	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.89	ng/L		06/08/23 04:41	06/13/23 01:53	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.49	ng/L		06/08/23 04:41	06/13/23 01:53	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>27</b>		1.8	0.77	ng/L		06/08/23 04:41	06/13/23 01:53	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>65</b>		1.8	0.44	ng/L		06/08/23 04:41	06/13/23 01:53	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.66	ng/L		06/08/23 04:41	06/13/23 01:53	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	1.2	ng/L		06/08/23 04:41	06/13/23 01:53	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	1.0	ng/L		06/08/23 04:41	06/13/23 01:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	85		25 - 150	06/08/23 04:41	06/13/23 01:53	1
13C2 PFDoA	75		25 - 150	06/08/23 04:41	06/13/23 01:53	1
13C2 PFHxA	109		25 - 150	06/08/23 04:41	06/13/23 01:53	1
13C2 PFTeDA	76		25 - 150	06/08/23 04:41	06/13/23 01:53	1
13C2 PFUnA	98		25 - 150	06/08/23 04:41	06/13/23 01:53	1
13C3 PFBS	89		25 - 150	06/08/23 04:41	06/13/23 01:53	1
13C4 PFBA	98		25 - 150	06/08/23 04:41	06/13/23 01:53	1
13C4 PFHpA	110		25 - 150	06/08/23 04:41	06/13/23 01:53	1
13C4 PFOA	101		25 - 150	06/08/23 04:41	06/13/23 01:53	1
13C4 PFOS	104		25 - 150	06/08/23 04:41	06/13/23 01:53	1
13C5 PFNA	98		25 - 150	06/08/23 04:41	06/13/23 01:53	1
13C5 PFPeA	117		25 - 150	06/08/23 04:41	06/13/23 01:53	1
13C8 FOSA	92		25 - 150	06/08/23 04:41	06/13/23 01:53	1
18O2 PFHxS	102		25 - 150	06/08/23 04:41	06/13/23 01:53	1
d3-NMeFOSAA	94		25 - 150	06/08/23 04:41	06/13/23 01:53	1
d5-NEtFOSAA	91		25 - 150	06/08/23 04:41	06/13/23 01:53	1
M2-6:2 FTS	97		25 - 150	06/08/23 04:41	06/13/23 01:53	1
M2-8:2 FTS	92		25 - 150	06/08/23 04:41	06/13/23 01:53	1

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# Client Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

**Client Sample ID: FB-052523-MW**

**Lab Sample ID: 480-209285-3**

Date Collected: 05/25/23 12:28

Matrix: Water

Date Received: 05/26/23 14:05

**Method: EPA 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	ND		4.4	2.2	ng/L		06/08/23 04:41	06/13/23 02:04	1
8:2 FTS	ND		1.8	0.41	ng/L		06/08/23 04:41	06/13/23 02:04	1
NEtFOSAA	ND		4.4	1.2	ng/L		06/08/23 04:41	06/13/23 02:04	1
NMeFOSAA	ND		4.4	1.1	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.18	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluorobutanoic acid (PFBA)	ND		4.4	2.1	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.28	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.27	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.49	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.8	0.17	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.22	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.50	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.51	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.24	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.87	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.48	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.75	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.43	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.65	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	1.2	ng/L		06/08/23 04:41	06/13/23 02:04	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.97	ng/L		06/08/23 04:41	06/13/23 02:04	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	94		25 - 150				06/08/23 04:41	06/13/23 02:04	1
13C2 PFDoA	96		25 - 150				06/08/23 04:41	06/13/23 02:04	1
13C2 PFHxA	102		25 - 150				06/08/23 04:41	06/13/23 02:04	1
13C2 PFTeDA	75		25 - 150				06/08/23 04:41	06/13/23 02:04	1
13C2 PFUnA	107		25 - 150				06/08/23 04:41	06/13/23 02:04	1
13C3 PFBS	109		25 - 150				06/08/23 04:41	06/13/23 02:04	1
13C4 PFBA	116		25 - 150				06/08/23 04:41	06/13/23 02:04	1
13C4 PFHpA	106		25 - 150				06/08/23 04:41	06/13/23 02:04	1
13C4 PFOA	104		25 - 150				06/08/23 04:41	06/13/23 02:04	1
13C4 PFOS	107		25 - 150				06/08/23 04:41	06/13/23 02:04	1
13C5 PFNA	100		25 - 150				06/08/23 04:41	06/13/23 02:04	1
13C5 PFPeA	115		25 - 150				06/08/23 04:41	06/13/23 02:04	1
13C8 FOSA	100		25 - 150				06/08/23 04:41	06/13/23 02:04	1
18O2 PFHxS	102		25 - 150				06/08/23 04:41	06/13/23 02:04	1
d3-NMeFOSAA	100		25 - 150				06/08/23 04:41	06/13/23 02:04	1
d5-NEtFOSAA	97		25 - 150				06/08/23 04:41	06/13/23 02:04	1
M2-6:2 FTS	106		25 - 150				06/08/23 04:41	06/13/23 02:04	1
M2-8:2 FTS	115		25 - 150				06/08/23 04:41	06/13/23 02:04	1

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

**Client Sample ID: MW-07-05252023**

**Lab Sample ID: 480-209285-4**

Date Collected: 05/25/23 13:33

Matrix: Water

Date Received: 05/26/23 14:05

**Method: SW846 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>65</b>		4.0	3.3	ug/L			06/05/23 19:50	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			06/05/23 19:50	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			06/05/23 19:50	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			06/05/23 19:50	4
<b>1,1-Dichloroethane</b>	<b>12</b>		4.0	1.5	ug/L			06/05/23 19:50	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			06/05/23 19:50	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			06/05/23 19:50	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			06/05/23 19:50	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			06/05/23 19:50	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			06/05/23 19:50	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			06/05/23 19:50	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			06/05/23 19:50	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			06/05/23 19:50	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			06/05/23 19:50	4
2-Hexanone	ND		20	5.0	ug/L			06/05/23 19:50	4
2-Butanone (MEK)	ND		40	5.3	ug/L			06/05/23 19:50	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			06/05/23 19:50	4
Acetone	ND		40	12	ug/L			06/05/23 19:50	4
Benzene	ND		4.0	1.6	ug/L			06/05/23 19:50	4
Bromodichloromethane	ND		4.0	1.6	ug/L			06/05/23 19:50	4
Bromoform	ND		4.0	1.0	ug/L			06/05/23 19:50	4
Bromomethane	ND		4.0	2.8	ug/L			06/05/23 19:50	4
Carbon disulfide	ND		4.0	0.76	ug/L			06/05/23 19:50	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			06/05/23 19:50	4
Chlorobenzene	ND		4.0	3.0	ug/L			06/05/23 19:50	4
Dibromochloromethane	ND		4.0	1.3	ug/L			06/05/23 19:50	4
Chloroethane	ND		4.0	1.3	ug/L			06/05/23 19:50	4
Chloroform	ND		4.0	1.4	ug/L			06/05/23 19:50	4
Chloromethane	ND		4.0	1.4	ug/L			06/05/23 19:50	4
<b>cis-1,2-Dichloroethene</b>	<b>180</b>	J	4.0	3.2	ug/L			06/05/23 19:50	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			06/05/23 19:50	4
Cyclohexane	ND		4.0	0.72	ug/L			06/05/23 19:50	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			06/05/23 19:50	4
Ethylbenzene	ND		4.0	3.0	ug/L			06/05/23 19:50	4
Isopropylbenzene	ND		4.0	3.2	ug/L			06/05/23 19:50	4
Methyl acetate	ND		10	5.2	ug/L			06/05/23 19:50	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			06/05/23 19:50	4
Methylcyclohexane	ND		4.0	0.64	ug/L			06/05/23 19:50	4
Methylene Chloride	ND		4.0	1.8	ug/L			06/05/23 19:50	4
Styrene	ND		4.0	2.9	ug/L			06/05/23 19:50	4
<b>Tetrachloroethene</b>	<b>80</b>		4.0	1.4	ug/L			06/05/23 19:50	4
Toluene	ND		4.0	2.0	ug/L			06/05/23 19:50	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			06/05/23 19:50	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			06/05/23 19:50	4
<b>Trichloroethene</b>	<b>6.5</b>		4.0	1.8	ug/L			06/05/23 19:50	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			06/05/23 19:50	4
Vinyl chloride	ND		4.0	3.6	ug/L			06/05/23 19:50	4
Xylenes, Total	ND		8.0	2.6	ug/L			06/05/23 19:50	4

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# Client Sample Results

Client: AECOM

Job ID: 480-209285-1

Project/Site: 60691198 - Wyoming County FTC

**Client Sample ID: MW-07-05252023**

**Lab Sample ID: 480-209285-4**

**Date Collected: 05/25/23 13:33**

**Matrix: Water**

**Date Received: 05/26/23 14:05**

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		06/05/23 19:50	4
Toluene-d8 (Surr)	97		80 - 120		06/05/23 19:50	4
4-Bromofluorobenzene (Surr)	103		73 - 120		06/05/23 19:50	4
Dibromofluoromethane (Surr)	102		75 - 123		06/05/23 19:50	4

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

**Client Sample ID: MW-15-05252023**

**Lab Sample ID: 480-209285-5**

Date Collected: 05/25/23 14:32

Matrix: Water

Date Received: 05/26/23 14:05

**Method: SW846 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>40</b>		2.0	1.6	ug/L			06/05/23 20:13	2
1,1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/05/23 20:13	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/05/23 20:13	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			06/05/23 20:13	2
<b>1,1-Dichloroethane</b>	<b>5.5</b>		2.0	0.76	ug/L			06/05/23 20:13	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/05/23 20:13	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			06/05/23 20:13	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			06/05/23 20:13	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			06/05/23 20:13	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			06/05/23 20:13	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/05/23 20:13	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/05/23 20:13	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			06/05/23 20:13	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			06/05/23 20:13	2
2-Hexanone	ND		10	2.5	ug/L			06/05/23 20:13	2
2-Butanone (MEK)	ND		20	2.6	ug/L			06/05/23 20:13	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			06/05/23 20:13	2
Acetone	ND		20	6.0	ug/L			06/05/23 20:13	2
Benzene	ND		2.0	0.82	ug/L			06/05/23 20:13	2
Bromodichloromethane	ND		2.0	0.78	ug/L			06/05/23 20:13	2
Bromoform	ND		2.0	0.52	ug/L			06/05/23 20:13	2
Bromomethane	ND		2.0	1.4	ug/L			06/05/23 20:13	2
Carbon disulfide	ND		2.0	0.38	ug/L			06/05/23 20:13	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/05/23 20:13	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/05/23 20:13	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/05/23 20:13	2
Chloroethane	ND		2.0	0.64	ug/L			06/05/23 20:13	2
Chloroform	ND		2.0	0.68	ug/L			06/05/23 20:13	2
Chloromethane	ND		2.0	0.70	ug/L			06/05/23 20:13	2
<b>cis-1,2-Dichloroethene</b>	<b>32</b>		2.0	1.6	ug/L			06/05/23 20:13	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/05/23 20:13	2
Cyclohexane	ND		2.0	0.36	ug/L			06/05/23 20:13	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			06/05/23 20:13	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/05/23 20:13	2
Isopropylbenzene	ND		2.0	1.6	ug/L			06/05/23 20:13	2
Methyl acetate	ND		5.0	2.6	ug/L			06/05/23 20:13	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			06/05/23 20:13	2
Methylcyclohexane	ND		2.0	0.32	ug/L			06/05/23 20:13	2
Methylene Chloride	ND		2.0	0.88	ug/L			06/05/23 20:13	2
Styrene	ND		2.0	1.5	ug/L			06/05/23 20:13	2
<b>Tetrachloroethene</b>	<b>130</b>		2.0	0.72	ug/L			06/05/23 20:13	2
Toluene	ND		2.0	1.0	ug/L			06/05/23 20:13	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			06/05/23 20:13	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			06/05/23 20:13	2
<b>Trichloroethene</b>	<b>5.5</b>		2.0	0.92	ug/L			06/05/23 20:13	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			06/05/23 20:13	2
Vinyl chloride	ND		2.0	1.8	ug/L			06/05/23 20:13	2
Xylenes, Total	ND		4.0	1.3	ug/L			06/05/23 20:13	2

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# Client Sample Results

Client: AECOM

Job ID: 480-209285-1

Project/Site: 60691198 - Wyoming County FTC

**Client Sample ID: MW-15-05252023**

**Lab Sample ID: 480-209285-5**

**Date Collected: 05/25/23 14:32**

**Matrix: Water**

**Date Received: 05/26/23 14:05**

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		06/05/23 20:13	2
Toluene-d8 (Surr)	99		80 - 120		06/05/23 20:13	2
4-Bromofluorobenzene (Surr)	100		73 - 120		06/05/23 20:13	2
Dibromofluoromethane (Surr)	106		75 - 123		06/05/23 20:13	2

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

**Client Sample ID: MW-12-05252023**

**Lab Sample ID: 480-209285-6**

Date Collected: 05/25/23 15:32

Matrix: Water

Date Received: 05/26/23 14:05

**Method: SW846 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>17</b>		1.0	0.82	ug/L			06/05/23 20:36	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/05/23 20:36	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/05/23 20:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/05/23 20:36	1
<b>1,1-Dichloroethane</b>	<b>2.2</b>		1.0	0.38	ug/L			06/05/23 20:36	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/05/23 20:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/05/23 20:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/05/23 20:36	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/05/23 20:36	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/05/23 20:36	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/05/23 20:36	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/05/23 20:36	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/05/23 20:36	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/05/23 20:36	1
2-Hexanone	ND		5.0	1.2	ug/L			06/05/23 20:36	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/05/23 20:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/05/23 20:36	1
Acetone	ND		10	3.0	ug/L			06/05/23 20:36	1
Benzene	ND		1.0	0.41	ug/L			06/05/23 20:36	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/05/23 20:36	1
Bromoform	ND		1.0	0.26	ug/L			06/05/23 20:36	1
Bromomethane	ND		1.0	0.69	ug/L			06/05/23 20:36	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/05/23 20:36	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/05/23 20:36	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/05/23 20:36	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/05/23 20:36	1
Chloroethane	ND		1.0	0.32	ug/L			06/05/23 20:36	1
Chloroform	ND		1.0	0.34	ug/L			06/05/23 20:36	1
Chloromethane	ND		1.0	0.35	ug/L			06/05/23 20:36	1
<b>cis-1,2-Dichloroethene</b>	<b>28</b>		1.0	0.81	ug/L			06/05/23 20:36	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/05/23 20:36	1
Cyclohexane	ND		1.0	0.18	ug/L			06/05/23 20:36	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/05/23 20:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/05/23 20:36	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/05/23 20:36	1
Methyl acetate	ND		2.5	1.3	ug/L			06/05/23 20:36	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/05/23 20:36	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/05/23 20:36	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/05/23 20:36	1
Styrene	ND		1.0	0.73	ug/L			06/05/23 20:36	1
<b>Tetrachloroethene</b>	<b>9.8</b>		1.0	0.36	ug/L			06/05/23 20:36	1
Toluene	ND		1.0	0.51	ug/L			06/05/23 20:36	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/05/23 20:36	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/05/23 20:36	1
<b>Trichloroethene</b>	<b>2.5</b>		1.0	0.46	ug/L			06/05/23 20:36	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/05/23 20:36	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/05/23 20:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/05/23 20:36	1

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# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

**Client Sample ID: MW-12-05252023**

**Lab Sample ID: 480-209285-6**

**Date Collected: 05/25/23 15:32**

**Matrix: Water**

**Date Received: 05/26/23 14:05**

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		06/05/23 20:36	1
Toluene-d8 (Surr)	98		80 - 120		06/05/23 20:36	1
4-Bromofluorobenzene (Surr)	99		73 - 120		06/05/23 20:36	1
Dibromofluoromethane (Surr)	108		75 - 123		06/05/23 20:36	1

# Client Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

**Client Sample ID: TB-05252023**

**Lab Sample ID: 480-209285-7**

Date Collected: 05/25/23 00:00

Matrix: Water

Date Received: 05/26/23 14:05

**Method: SW846 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/02/23 18:43	1
1,1,1,2-Tetrachloroethane	ND	UJ	1.0	0.21	ug/L			06/02/23 18:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/02/23 18:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/02/23 18:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/02/23 18:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/02/23 18:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/02/23 18:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/02/23 18:43	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/02/23 18:43	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/02/23 18:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/02/23 18:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/02/23 18:43	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/02/23 18:43	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/02/23 18:43	1
2-Hexanone	ND		5.0	1.2	ug/L			06/02/23 18:43	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/02/23 18:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/02/23 18:43	1
Acetone	ND		10	3.0	ug/L			06/02/23 18:43	1
Benzene	ND		1.0	0.41	ug/L			06/02/23 18:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/02/23 18:43	1
Bromoform	ND		1.0	0.26	ug/L			06/02/23 18:43	1
Bromomethane	ND		1.0	0.69	ug/L			06/02/23 18:43	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/02/23 18:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/02/23 18:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/02/23 18:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/02/23 18:43	1
Chloroethane	ND		1.0	0.32	ug/L			06/02/23 18:43	1
Chloroform	ND		1.0	0.34	ug/L			06/02/23 18:43	1
Chloromethane	ND		1.0	0.35	ug/L			06/02/23 18:43	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/02/23 18:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/02/23 18:43	1
Cyclohexane	ND		1.0	0.18	ug/L			06/02/23 18:43	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/02/23 18:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/02/23 18:43	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/02/23 18:43	1
Methyl acetate	ND		2.5	1.3	ug/L			06/02/23 18:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/02/23 18:43	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/02/23 18:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/02/23 18:43	1
Styrene	ND		1.0	0.73	ug/L			06/02/23 18:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/02/23 18:43	1
Toluene	ND		1.0	0.51	ug/L			06/02/23 18:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/02/23 18:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/02/23 18:43	1
Trichloroethene	ND		1.0	0.46	ug/L			06/02/23 18:43	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/02/23 18:43	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/02/23 18:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/02/23 18:43	1

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

**Client Sample ID: TB-05252023**

**Lab Sample ID: 480-209285-7**

**Date Collected: 05/25/23 00:00**

**Matrix: Water**

**Date Received: 05/26/23 14:05**

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		06/02/23 18:43	1
Toluene-d8 (Surr)	83		80 - 120		06/02/23 18:43	1
4-Bromofluorobenzene (Surr)	106		73 - 120		06/02/23 18:43	1
Dibromofluoromethane (Surr)	110		75 - 123		06/02/23 18:43	1

# Surrogate Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

**Method: 8260C - Volatile Organic Compounds by GC/MS**

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	TOL	BFB	DBFM
		(77-120)	(80-120)	(73-120)	(75-123)
480-209285-1	MW-02-052523	104	101	103	107
480-209285-2	FD-052523-MW	102	99	105	102
480-209285-4	MW-07-05252023	106	97	103	102
480-209285-4 MS	MW-07-05252023 MS	104	101	99	105
480-209285-4 MSD	MW-07-05252023 MSD	98	100	98	102
480-209285-5	MW-15-05252023	102	99	100	106
480-209285-6	MW-12-05252023	100	98	99	108
480-209285-7	TB-05252023	98	83	106	110
LCS 480-671660/6	Lab Control Sample	101	86	107	112
LCS 480-671910/6	Lab Control Sample	104	105	109	102
MB 480-671660/8	Method Blank	98	82	107	109
MB 480-671910/8	Method Blank	104	107	102	104

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)



# Isotope Dilution Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDA (25-150)	PFDoA (25-150)	PFHxA (25-150)	PFTDA (25-150)	PFUnA (25-150)	C3PFBS (25-150)	PFBA (25-150)	C4PFHA (25-150)
480-209285-1	MW-02-052523	93	83	96	70	99	96	112	100
480-209285-2	FD-052523-MW	85	75	109	76	98	89	98	110
480-209285-3	FB-052523-MW	94	96	102	75	107	109	116	106
LCS 320-681248/2-A	Lab Control Sample	92	100	99	81	102	103	108	104
LCSD 320-681248/3-A	Lab Control Sample Dup	94	91	105	86	102	104	108	103
MB 320-681248/1-A	Method Blank	87	89	101	81	113	92	117	100

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOA (25-150)	PFOS (25-150)	PFNA (25-150)	PFPeA (25-150)	PFOSA (25-150)	PFHxS (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
480-209285-1	MW-02-052523	96	96	97	111	98	103	97	98
480-209285-2	FD-052523-MW	101	104	98	117	92	102	94	91
480-209285-3	FB-052523-MW	104	107	100	115	100	102	100	97
LCS 320-681248/2-A	Lab Control Sample	90	92	90	115	97	96	107	103
LCSD 320-681248/3-A	Lab Control Sample Dup	98	100	96	106	92	100	112	102
MB 320-681248/1-A	Method Blank	96	92	88	106	94	98	109	103

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
480-209285-1	MW-02-052523	91	102
480-209285-2	FD-052523-MW	97	92
480-209285-3	FB-052523-MW	106	115
LCS 320-681248/2-A	Lab Control Sample	86	94
LCSD 320-681248/3-A	Lab Control Sample Dup	93	103
MB 320-681248/1-A	Method Blank	89	109

### Surrogate Legend

- PFDA = 13C2 PFDA
- PFDoA = 13C2 PFDoA
- PFHxA = 13C2 PFHxA
- PFTDA = 13C2 PFTeDA
- PFUnA = 13C2 PFUnA
- C3PFBS = 13C3 PFBS
- PFBA = 13C4 PFBA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFOS = 13C4 PFOS
- PFNA = 13C5 PFNA
- PFPeA = 13C5 PFPeA
- PFOSA = 13C8 FOSA
- PFHxS = 18O2 PFHxS
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS

# QC Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-671660/8**  
**Matrix: Water**  
**Analysis Batch: 671660**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/02/23 10:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/02/23 10:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/02/23 10:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/02/23 10:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/02/23 10:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/02/23 10:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/02/23 10:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/02/23 10:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/02/23 10:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/02/23 10:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/02/23 10:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/02/23 10:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/02/23 10:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/02/23 10:52	1
2-Hexanone	ND		5.0	1.2	ug/L			06/02/23 10:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/02/23 10:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/02/23 10:52	1
Acetone	ND		10	3.0	ug/L			06/02/23 10:52	1
Benzene	ND		1.0	0.41	ug/L			06/02/23 10:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/02/23 10:52	1
Bromoform	ND		1.0	0.26	ug/L			06/02/23 10:52	1
Bromomethane	ND		1.0	0.69	ug/L			06/02/23 10:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/02/23 10:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/02/23 10:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/02/23 10:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/02/23 10:52	1
Chloroethane	ND		1.0	0.32	ug/L			06/02/23 10:52	1
Chloroform	ND		1.0	0.34	ug/L			06/02/23 10:52	1
Chloromethane	ND		1.0	0.35	ug/L			06/02/23 10:52	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/02/23 10:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/02/23 10:52	1
Cyclohexane	ND		1.0	0.18	ug/L			06/02/23 10:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/02/23 10:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/02/23 10:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/02/23 10:52	1
Methyl acetate	ND		2.5	1.3	ug/L			06/02/23 10:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/02/23 10:52	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/02/23 10:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/02/23 10:52	1
Styrene	ND		1.0	0.73	ug/L			06/02/23 10:52	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/02/23 10:52	1
Toluene	ND		1.0	0.51	ug/L			06/02/23 10:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/02/23 10:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/02/23 10:52	1
Trichloroethene	ND		1.0	0.46	ug/L			06/02/23 10:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/02/23 10:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/02/23 10:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/02/23 10:52	1

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# QC Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-671660/8**  
**Matrix: Water**  
**Analysis Batch: 671660**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		06/02/23 10:52	1
Toluene-d8 (Surr)	82		80 - 120		06/02/23 10:52	1
4-Bromofluorobenzene (Surr)	107		73 - 120		06/02/23 10:52	1
Dibromofluoromethane (Surr)	109		75 - 123		06/02/23 10:52	1

**Lab Sample ID: LCS 480-671660/6**  
**Matrix: Water**  
**Analysis Batch: 671660**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	25.0	19.9		ug/L		80	76 - 120
1,1,2-Trichloroethane	25.0	21.6		ug/L		86	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.0		ug/L		104	61 - 148
1,1-Dichloroethane	25.0	27.5		ug/L		110	77 - 120
1,1-Dichloroethene	25.0	30.7		ug/L		123	66 - 127
1,2,4-Trichlorobenzene	25.0	25.4		ug/L		102	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.8		ug/L		87	56 - 134
1,2-Dibromoethane	25.0	22.8		ug/L		91	77 - 120
1,2-Dichlorobenzene	25.0	23.4		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	27.7		ug/L		111	75 - 120
1,2-Dichloropropane	25.0	30.1	*+	ug/L		121	76 - 120
1,3-Dichlorobenzene	25.0	23.9		ug/L		96	77 - 120
1,4-Dichlorobenzene	25.0	23.0		ug/L		92	80 - 120
2-Hexanone	125	115		ug/L		92	65 - 127
2-Butanone (MEK)	125	148		ug/L		118	57 - 140
4-Methyl-2-pentanone (MIBK)	125	117		ug/L		94	71 - 125
Acetone	125	154		ug/L		123	56 - 142
Benzene	25.0	26.7		ug/L		107	71 - 124
Bromodichloromethane	25.0	32.0	*+	ug/L		128	80 - 122
Bromoform	25.0	26.2		ug/L		105	61 - 132
Bromomethane	25.0	29.4		ug/L		118	55 - 144
Carbon disulfide	25.0	29.6		ug/L		119	59 - 134
Carbon tetrachloride	25.0	31.3		ug/L		125	72 - 134
Chlorobenzene	25.0	24.0		ug/L		96	80 - 120
Dibromochloromethane	25.0	25.8		ug/L		103	75 - 125
Chloroethane	25.0	25.6		ug/L		102	69 - 136
Chloroform	25.0	28.4		ug/L		114	73 - 127
Chloromethane	25.0	32.9	*+	ug/L		131	68 - 124
cis-1,2-Dichloroethene	25.0	29.0		ug/L		116	74 - 124
cis-1,3-Dichloropropene	25.0	30.1		ug/L		120	74 - 124
Cyclohexane	25.0	28.8		ug/L		115	59 - 135
Dichlorodifluoromethane	25.0	32.7		ug/L		131	59 - 135
Ethylbenzene	25.0	23.5		ug/L		94	77 - 123
Isopropylbenzene	25.0	23.4		ug/L		94	77 - 122
Methyl acetate	50.0	54.5		ug/L		109	74 - 133
Methyl tert-butyl ether	25.0	27.3		ug/L		109	77 - 120
Methylcyclohexane	25.0	35.1	*+	ug/L		141	68 - 134

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# QC Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-671660/6**  
**Matrix: Water**  
**Analysis Batch: 671660**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Chloride	25.0	28.5		ug/L		114	75 - 124
Styrene	25.0	24.3		ug/L		97	80 - 120
Tetrachloroethene	25.0	26.5		ug/L		106	74 - 122
Toluene	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	30.0		ug/L		120	73 - 127
trans-1,3-Dichloropropene	25.0	23.6		ug/L		95	80 - 120
Trichloroethene	25.0	37.7	*+	ug/L		151	74 - 123
Trichlorofluoromethane	25.0	33.3		ug/L		133	62 - 150
Vinyl chloride	25.0	31.5		ug/L		126	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
Toluene-d8 (Surr)	86		80 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	112		75 - 123

**Lab Sample ID: MB 480-671910/8**  
**Matrix: Water**  
**Analysis Batch: 671910**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/05/23 17:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/05/23 17:19	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/05/23 17:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/05/23 17:19	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/05/23 17:19	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/05/23 17:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/05/23 17:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/05/23 17:19	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/05/23 17:19	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/05/23 17:19	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/05/23 17:19	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/05/23 17:19	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/05/23 17:19	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/05/23 17:19	1
2-Hexanone	ND		5.0	1.2	ug/L			06/05/23 17:19	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/05/23 17:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/05/23 17:19	1
Acetone	ND		10	3.0	ug/L			06/05/23 17:19	1
Benzene	ND		1.0	0.41	ug/L			06/05/23 17:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/05/23 17:19	1
Bromoform	ND		1.0	0.26	ug/L			06/05/23 17:19	1
Bromomethane	ND		1.0	0.69	ug/L			06/05/23 17:19	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/05/23 17:19	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/05/23 17:19	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/05/23 17:19	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/05/23 17:19	1
Chloroethane	ND		1.0	0.32	ug/L			06/05/23 17:19	1

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# QC Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-671910/8**  
**Matrix: Water**  
**Analysis Batch: 671910**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.34	ug/L			06/05/23 17:19	1
Chloromethane	ND		1.0	0.35	ug/L			06/05/23 17:19	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/05/23 17:19	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/05/23 17:19	1
Cyclohexane	ND		1.0	0.18	ug/L			06/05/23 17:19	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/05/23 17:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/05/23 17:19	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/05/23 17:19	1
Methyl acetate	ND		2.5	1.3	ug/L			06/05/23 17:19	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/05/23 17:19	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/05/23 17:19	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/05/23 17:19	1
Styrene	ND		1.0	0.73	ug/L			06/05/23 17:19	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/05/23 17:19	1
Toluene	ND		1.0	0.51	ug/L			06/05/23 17:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/05/23 17:19	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/05/23 17:19	1
Trichloroethene	ND		1.0	0.46	ug/L			06/05/23 17:19	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/05/23 17:19	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/05/23 17:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/05/23 17:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		06/05/23 17:19	1
Toluene-d8 (Surr)	107		80 - 120		06/05/23 17:19	1
4-Bromofluorobenzene (Surr)	102		73 - 120		06/05/23 17:19	1
Dibromofluoromethane (Surr)	104		75 - 123		06/05/23 17:19	1

**Lab Sample ID: LCS 480-671910/6**  
**Matrix: Water**  
**Analysis Batch: 671910**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	26.0		ug/L		104	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.7		ug/L		103	76 - 120
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	31.2		ug/L		125	61 - 148
1,1-Dichloroethane	25.0	25.8		ug/L		103	77 - 120
1,1-Dichloroethene	25.0	24.1		ug/L		96	66 - 127
1,2,4-Trichlorobenzene	25.0	24.0		ug/L		96	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	20.8		ug/L		83	56 - 134
1,2-Dibromoethane	25.0	24.4		ug/L		98	77 - 120
1,2-Dichlorobenzene	25.0	25.9		ug/L		104	80 - 124
1,2-Dichloroethane	25.0	24.5		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	24.7		ug/L		99	76 - 120
1,3-Dichlorobenzene	25.0	27.0		ug/L		108	77 - 120
1,4-Dichlorobenzene	25.0	26.0		ug/L		104	80 - 120
2-Hexanone	125	122		ug/L		98	65 - 127

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# QC Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-671910/6**  
**Matrix: Water**  
**Analysis Batch: 671910**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	125	121		ug/L		97	57 - 140
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	71 - 125
Acetone	125	140		ug/L		112	56 - 142
Benzene	25.0	25.0		ug/L		100	71 - 124
Bromodichloromethane	25.0	23.3		ug/L		93	80 - 122
Bromoform	25.0	23.9		ug/L		96	61 - 132
Bromomethane	25.0	27.5		ug/L		110	55 - 144
Carbon disulfide	25.0	25.9		ug/L		104	59 - 134
Carbon tetrachloride	25.0	24.8		ug/L		99	72 - 134
Chlorobenzene	25.0	26.3		ug/L		105	80 - 120
Dibromochloromethane	25.0	25.3		ug/L		101	75 - 125
Chloroethane	25.0	26.9		ug/L		107	69 - 136
Chloroform	25.0	24.7		ug/L		99	73 - 127
Chloromethane	25.0	30.6		ug/L		122	68 - 124
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	74 - 124
cis-1,3-Dichloropropene	25.0	21.7		ug/L		87	74 - 124
Cyclohexane	25.0	28.0		ug/L		112	59 - 135
Dichlorodifluoromethane	25.0	31.4		ug/L		125	59 - 135
Ethylbenzene	25.0	27.7		ug/L		111	77 - 123
Isopropylbenzene	25.0	28.0		ug/L		112	77 - 122
Methyl acetate	50.0	38.9		ug/L		78	74 - 133
Methyl tert-butyl ether	25.0	23.1		ug/L		92	77 - 120
Methylcyclohexane	25.0	27.2		ug/L		109	68 - 134
Methylene Chloride	25.0	24.1		ug/L		96	75 - 124
Styrene	25.0	26.6		ug/L		107	80 - 120
Tetrachloroethene	25.0	26.2		ug/L		105	74 - 122
Toluene	25.0	25.7		ug/L		103	80 - 122
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	73 - 127
trans-1,3-Dichloropropene	25.0	21.9		ug/L		87	80 - 120
Trichloroethene	25.0	25.3		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	31.0		ug/L		124	62 - 150
Vinyl chloride	25.0	29.4		ug/L		118	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
Toluene-d8 (Surr)	105		80 - 120
4-Bromofluorobenzene (Surr)	109		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

**Lab Sample ID: 480-209285-4 MS**  
**Matrix: Water**  
**Analysis Batch: 671910**

**Client Sample ID: MW-07-05252023 MS**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	65		100	165		ug/L		99	73 - 126
1,1,1,2-Tetrachloroethane	ND		100	97.6		ug/L		98	76 - 120
1,1,2-Trichloroethane	ND		100	104		ug/L		104	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	127		ug/L		127	61 - 148

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# QC Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-209285-4 MS

Client Sample ID: MW-07-05252023 MS

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 671910

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	12		100	116		ug/L		104	77 - 120
1,1-Dichloroethene	ND		100	101		ug/L		101	66 - 127
1,2,4-Trichlorobenzene	ND		100	98.5		ug/L		98	79 - 122
1,2-Dibromo-3-Chloropropane	ND		100	75.6		ug/L		76	56 - 134
1,2-Dibromoethane	ND		100	102		ug/L		102	77 - 120
1,2-Dichlorobenzene	ND		100	106		ug/L		106	80 - 124
1,2-Dichloroethane	ND		100	108		ug/L		108	75 - 120
1,2-Dichloropropane	ND		100	99.3		ug/L		99	76 - 120
1,3-Dichlorobenzene	ND		100	107		ug/L		107	77 - 120
1,4-Dichlorobenzene	ND		100	107		ug/L		107	78 - 124
2-Hexanone	ND		500	513		ug/L		103	65 - 127
2-Butanone (MEK)	ND		500	464		ug/L		93	57 - 140
4-Methyl-2-pentanone (MIBK)	ND		500	488		ug/L		98	71 - 125
Acetone	ND		500	578		ug/L		116	56 - 142
Benzene	ND		100	104		ug/L		104	71 - 124
Bromodichloromethane	ND		100	93.1		ug/L		93	80 - 122
Bromoform	ND		100	72.1		ug/L		72	61 - 132
Bromomethane	ND		100	119		ug/L		119	55 - 144
Carbon disulfide	ND		100	106		ug/L		106	59 - 134
Carbon tetrachloride	ND		100	98.0		ug/L		98	72 - 134
Chlorobenzene	ND		100	111		ug/L		111	80 - 120
Dibromochloromethane	ND		100	88.3		ug/L		88	75 - 125
Chloroethane	ND		100	102		ug/L		102	69 - 136
Chloroform	ND		100	108		ug/L		108	73 - 127
Chloromethane	ND		100	118		ug/L		118	68 - 124
cis-1,2-Dichloroethene	180	F1	100	257		ug/L		82	74 - 124
cis-1,3-Dichloropropene	ND		100	83.7		ug/L		84	74 - 124
Cyclohexane	ND		100	111		ug/L		111	59 - 135
Dichlorodifluoromethane	ND	F1	100	136	F1	ug/L		136	59 - 135
Ethylbenzene	ND		100	114		ug/L		114	77 - 123
Isopropylbenzene	ND		100	117		ug/L		117	77 - 122
Methyl acetate	ND		200	149		ug/L		74	74 - 133
Methyl tert-butyl ether	ND		100	94.6		ug/L		95	77 - 120
Methylcyclohexane	ND		100	110		ug/L		110	68 - 134
Methylene Chloride	ND		100	103		ug/L		103	75 - 124
Styrene	ND		100	109		ug/L		109	80 - 120
Tetrachloroethene	80		100	183		ug/L		103	74 - 122
Toluene	ND		100	111		ug/L		111	80 - 122
trans-1,2-Dichloroethene	ND		100	108		ug/L		108	73 - 127
trans-1,3-Dichloropropene	ND		100	83.2		ug/L		83	80 - 120
Trichloroethene	6.5		100	112		ug/L		106	74 - 123
Trichlorofluoromethane	ND		100	128		ug/L		128	62 - 150
Vinyl chloride	ND		100	110		ug/L		110	65 - 133

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120

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# QC Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-209285-4 MS**  
**Matrix: Water**  
**Analysis Batch: 671910**

**Client Sample ID: MW-07-05252023 MS**  
**Prep Type: Total/NA**

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
<i>Dibromofluoromethane (Surr)</i>	105		75 - 123

**Lab Sample ID: 480-209285-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 671910**

**Client Sample ID: MW-07-05252023 MSD**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
1,1,1-Trichloroethane	65		100	152		ug/L		86	73 - 126	8	15	
1,1,2,2-Tetrachloroethane	ND		100	105		ug/L		105	76 - 120	7	15	
1,1,2-Trichloroethane	ND		100	104		ug/L		104	76 - 122	0	15	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	125		ug/L		125	61 - 148	1	20	
1,1-Dichloroethane	12		100	112		ug/L		100	77 - 120	4	20	
1,1-Dichloroethene	ND		100	97.8		ug/L		98	66 - 127	3	16	
1,2,4-Trichlorobenzene	ND		100	101		ug/L		101	79 - 122	2	20	
1,2-Dibromo-3-Chloropropane	ND		100	76.7		ug/L		77	56 - 134	1	15	
1,2-Dibromoethane	ND		100	98.5		ug/L		99	77 - 120	3	15	
1,2-Dichlorobenzene	ND		100	110		ug/L		110	80 - 124	3	20	
1,2-Dichloroethane	ND		100	104		ug/L		104	75 - 120	4	20	
1,2-Dichloropropane	ND		100	93.6		ug/L		94	76 - 120	6	20	
1,3-Dichlorobenzene	ND		100	109		ug/L		109	77 - 120	2	20	
1,4-Dichlorobenzene	ND		100	108		ug/L		108	78 - 124	2	20	
2-Hexanone	ND		500	529		ug/L		106	65 - 127	3	15	
2-Butanone (MEK)	ND		500	472		ug/L		94	57 - 140	2	20	
4-Methyl-2-pentanone (MIBK)	ND		500	492		ug/L		98	71 - 125	1	35	
Acetone	ND		500	589		ug/L		118	56 - 142	2	15	
Benzene	ND		100	97.3		ug/L		97	71 - 124	6	13	
Bromodichloromethane	ND		100	91.5		ug/L		92	80 - 122	2	15	
Bromoform	ND		100	78.9		ug/L		79	61 - 132	9	15	
Bromomethane	ND		100	114		ug/L		114	55 - 144	5	15	
Carbon disulfide	ND		100	98.3		ug/L		98	59 - 134	8	15	
Carbon tetrachloride	ND		100	91.9		ug/L		92	72 - 134	6	15	
Chlorobenzene	ND		100	106		ug/L		106	80 - 120	5	25	
Dibromochloromethane	ND		100	91.8		ug/L		92	75 - 125	4	15	
Chloroethane	ND		100	97.3		ug/L		97	69 - 136	5	15	
Chloroform	ND		100	99.3		ug/L		99	73 - 127	8	20	
Chloromethane	ND		100	108		ug/L		108	68 - 124	8	15	
cis-1,2-Dichloroethene	180	F1	100	244	F1	ug/L		69	74 - 124	5	15	
cis-1,3-Dichloropropene	ND		100	82.7		ug/L		83	74 - 124	1	15	
Cyclohexane	ND		100	104		ug/L		104	59 - 135	7	20	
Dichlorodifluoromethane	ND	F1	100	120		ug/L		120	59 - 135	12	20	
Ethylbenzene	ND		100	109		ug/L		109	77 - 123	4	15	
Isopropylbenzene	ND		100	114		ug/L		114	77 - 122	3	20	
Methyl acetate	ND		200	153		ug/L		76	74 - 133	3	20	
Methyl tert-butyl ether	ND		100	92.5		ug/L		92	77 - 120	2	37	
Methylcyclohexane	ND		100	100		ug/L		100	68 - 134	9	20	
Methylene Chloride	ND		100	96.5		ug/L		96	75 - 124	6	15	
Styrene	ND		100	106		ug/L		106	80 - 120	3	20	
Tetrachloroethene	80		100	176		ug/L		96	74 - 122	4	20	

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# QC Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-209285-4 MSD**

**Client Sample ID: MW-07-05252023 MSD**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 671910**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	ND		100	106		ug/L		106	80 - 122	4	15
trans-1,2-Dichloroethene	ND		100	102		ug/L		102	73 - 127	7	20
trans-1,3-Dichloropropene	ND		100	81.0		ug/L		81	80 - 120	3	15
Trichloroethene	6.5		100	104		ug/L		98	74 - 123	8	16
Trichlorofluoromethane	ND		100	115		ug/L		115	62 - 150	10	20
Vinyl chloride	ND		100	105		ug/L		105	65 - 133	5	15

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	98		77 - 120
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

## Method: 537 (modified) - Fluorinated Alkyl Substances

**Lab Sample ID: MB 320-681248/1-A**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 682484**

**Prep Batch: 681248**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	ND		5.0	2.5	ng/L		06/08/23 04:41	06/13/23 00:42	1
8:2 FTS	ND		2.0	0.46	ng/L		06/08/23 04:41	06/13/23 00:42	1
NEtFOSAA	ND		5.0	1.3	ng/L		06/08/23 04:41	06/13/23 00:42	1
NMeFOSAA	ND		5.0	1.2	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluorobutanoic acid (PFBA)	ND		5.0	2.4	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.19	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.57	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.98	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.73	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	1.3	ng/L		06/08/23 04:41	06/13/23 00:42	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		06/08/23 04:41	06/13/23 00:42	1

Isotope Dilution	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	87		25 - 150	06/08/23 04:41	06/13/23 00:42	1
13C2 PFDoA	89		25 - 150	06/08/23 04:41	06/13/23 00:42	1
13C2 PFHxA	101		25 - 150	06/08/23 04:41	06/13/23 00:42	1
13C2 PFTeDA	81		25 - 150	06/08/23 04:41	06/13/23 00:42	1
13C2 PFUnA	113		25 - 150	06/08/23 04:41	06/13/23 00:42	1

Eurofins Buffalo

# QC Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: MB 320-681248/1-A**  
**Matrix: Water**  
**Analysis Batch: 682484**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 681248**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C3 PFBS	92		25 - 150	06/08/23 04:41	06/13/23 00:42	1
13C4 PFBA	117		25 - 150	06/08/23 04:41	06/13/23 00:42	1
13C4 PFHpA	100		25 - 150	06/08/23 04:41	06/13/23 00:42	1
13C4 PFOA	96		25 - 150	06/08/23 04:41	06/13/23 00:42	1
13C4 PFOS	92		25 - 150	06/08/23 04:41	06/13/23 00:42	1
13C5 PFNA	88		25 - 150	06/08/23 04:41	06/13/23 00:42	1
13C5 PFPeA	106		25 - 150	06/08/23 04:41	06/13/23 00:42	1
13C8 FOSA	94		25 - 150	06/08/23 04:41	06/13/23 00:42	1
18O2 PFHxS	98		25 - 150	06/08/23 04:41	06/13/23 00:42	1
d3-NMeFOSAA	109		25 - 150	06/08/23 04:41	06/13/23 00:42	1
d5-NEtFOSAA	103		25 - 150	06/08/23 04:41	06/13/23 00:42	1
M2-6:2 FTS	89		25 - 150	06/08/23 04:41	06/13/23 00:42	1
M2-8:2 FTS	109		25 - 150	06/08/23 04:41	06/13/23 00:42	1

**Lab Sample ID: LCS 320-681248/2-A**  
**Matrix: Water**  
**Analysis Batch: 682484**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 681248**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
6:2 FTS	38.1	41.2		ng/L		108	59 - 175
8:2 FTS	38.4	36.0		ng/L		94	75 - 135
NEtFOSAA	40.0	37.5		ng/L		94	76 - 136
NMeFOSAA	40.0	38.0		ng/L		95	76 - 136
Perfluorobutanesulfonic acid (PFBS)	35.5	35.8		ng/L		101	67 - 127
Perfluorobutanoic acid (PFBA)	40.0	43.5		ng/L		109	76 - 136
Perfluorodecanesulfonic acid (PFDS)	38.6	40.9		ng/L		106	71 - 131
Perfluorodecanoic acid (PFDA)	40.0	42.7		ng/L		107	76 - 136
Perfluorododecanoic acid (PFDoA)	40.0	36.9		ng/L		92	71 - 131
Perfluoroheptanesulfonic acid (PFHpS)	38.2	35.8		ng/L		94	76 - 136
Perfluoroheptanoic acid (PFHpA)	40.0	41.9		ng/L		105	72 - 132
Perfluorohexanesulfonic acid (PFHxS)	36.5	37.6		ng/L		103	59 - 119
Perfluorohexanoic acid (PFHxA)	40.0	40.9		ng/L		102	73 - 133
Perfluorononanoic acid (PFNA)	40.0	42.9		ng/L		107	75 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	37.6		ng/L		94	73 - 133
Perfluorooctanesulfonic acid (PFOS)	37.2	36.3		ng/L		98	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	44.0		ng/L		110	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	38.6		ng/L		97	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	34.3		ng/L		86	70 - 130
Perfluorotridecanoic acid (PFTTrDA)	40.0	35.1		ng/L		88	71 - 131
Perfluoroundecanoic acid (PFUnA)	40.0	41.9		ng/L		105	68 - 128

Eurofins Buffalo

# QC Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	92		25 - 150
13C2 PFDoA	100		25 - 150
13C2 PFHxA	99		25 - 150
13C2 PFTeDA	81		25 - 150
13C2 PFUnA	102		25 - 150
13C3 PFBS	103		25 - 150
13C4 PFBA	108		25 - 150
13C4 PFHpA	104		25 - 150
13C4 PFOA	90		25 - 150
13C4 PFOS	92		25 - 150
13C5 PFNA	90		25 - 150
13C5 PFPeA	115		25 - 150
13C8 FOSA	97		25 - 150
18O2 PFHxS	96		25 - 150
d3-NMeFOSAA	107		25 - 150
d5-NEtFOSAA	103		25 - 150
M2-6:2 FTS	86		25 - 150
M2-8:2 FTS	94		25 - 150

**Lab Sample ID: LCSD 320-681248/3-A**  
**Matrix: Water**  
**Analysis Batch: 682484**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 681248**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
6:2 FTS	38.1	42.1		ng/L		111	59 - 175	2	30	
8:2 FTS	38.4	35.6		ng/L		93	75 - 135	1	30	
NEtFOSAA	40.0	39.5		ng/L		99	76 - 136	5	30	
NMeFOSAA	40.0	39.2		ng/L		98	76 - 136	3	30	
Perfluorobutanesulfonic acid (PFBS)	35.5	35.0		ng/L		99	67 - 127	2	30	
Perfluorobutanoic acid (PFBA)	40.0	38.9		ng/L		97	76 - 136	11	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	38.4		ng/L		100	71 - 131	6	30	
Perfluorodecanoic acid (PFDA)	40.0	41.8		ng/L		104	76 - 136	2	30	
Perfluorododecanoic acid (PFDoA)	40.0	41.7		ng/L		104	71 - 131	12	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.2	34.5		ng/L		91	76 - 136	4	30	
Perfluoroheptanoic acid (PFHpA)	40.0	40.3		ng/L		101	72 - 132	4	30	
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.6		ng/L		100	59 - 119	3	30	
Perfluorohexanoic acid (PFHxA)	40.0	37.9		ng/L		95	73 - 133	8	30	
Perfluorononanoic acid (PFNA)	40.0	43.0		ng/L		107	75 - 135	0	30	
Perfluorooctanesulfonamide (FOSA)	40.0	38.9		ng/L		97	73 - 133	4	30	
Perfluorooctanesulfonic acid (PFOS)	37.2	36.4		ng/L		98	70 - 130	0	30	
Perfluorooctanoic acid (PFOA)	40.0	40.0		ng/L		100	70 - 130	10	30	
Perfluoropentanoic acid (PFPeA)	40.0	38.5		ng/L		96	71 - 131	0	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	38.8		ng/L		97	70 - 130	12	30	
Perfluorotridecanoic acid (PFTTrDA)	40.0	38.9		ng/L		97	71 - 131	10	30	

Eurofins Buffalo

# QC Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCSD 320-681248/3-A**  
**Matrix: Water**  
**Analysis Batch: 682484**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 681248**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoroundecanoic acid (PFUnA)	40.0	42.5		ng/L		106	68 - 128	1	30
	<b>LCS</b>	<b>D</b>	<b>Qualifier</b>						
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>LCS</b>	<b>Qualifier</b>						
13C2 PFDA	94								25 - 150
13C2 PFDoA	91								25 - 150
13C2 PFHxA	105								25 - 150
13C2 PFTeDA	86								25 - 150
13C2 PFUnA	102								25 - 150
13C3 PFBS	104								25 - 150
13C4 PFBA	108								25 - 150
13C4 PFHpA	103								25 - 150
13C4 PFOA	98								25 - 150
13C4 PFOS	100								25 - 150
13C5 PFNA	96								25 - 150
13C5 PFPeA	106								25 - 150
13C8 FOSA	92								25 - 150
18O2 PFHxS	100								25 - 150
d3-NMeFOSAA	112								25 - 150
d5-NEtFOSAA	102								25 - 150
M2-6:2 FTS	93								25 - 150
M2-8:2 FTS	103								25 - 150

# QC Association Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## GC/MS VOA

### Analysis Batch: 671660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209285-7	TB-05252023	Total/NA	Water	8260C	
MB 480-671660/8	Method Blank	Total/NA	Water	8260C	
LCS 480-671660/6	Lab Control Sample	Total/NA	Water	8260C	

### Analysis Batch: 671910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209285-1	MW-02-052523	Total/NA	Water	8260C	
480-209285-2	FD-052523-MW	Total/NA	Water	8260C	
480-209285-4	MW-07-05252023	Total/NA	Water	8260C	
480-209285-5	MW-15-05252023	Total/NA	Water	8260C	
480-209285-6	MW-12-05252023	Total/NA	Water	8260C	
MB 480-671910/8	Method Blank	Total/NA	Water	8260C	
LCS 480-671910/6	Lab Control Sample	Total/NA	Water	8260C	
480-209285-4 MS	MW-07-05252023 MS	Total/NA	Water	8260C	
480-209285-4 MSD	MW-07-05252023 MSD	Total/NA	Water	8260C	

## LCMS

### Prep Batch: 681248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209285-1	MW-02-052523	Total/NA	Water	3535	
480-209285-2	FD-052523-MW	Total/NA	Water	3535	
480-209285-3	FB-052523-MW	Total/NA	Water	3535	
MB 320-681248/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-681248/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-681248/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 682484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209285-1	MW-02-052523	Total/NA	Water	537 (modified)	681248
480-209285-2	FD-052523-MW	Total/NA	Water	537 (modified)	681248
480-209285-3	FB-052523-MW	Total/NA	Water	537 (modified)	681248
MB 320-681248/1-A	Method Blank	Total/NA	Water	537 (modified)	681248
LCS 320-681248/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	681248
LCSD 320-681248/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	681248

# Lab Chronicle

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

**Client Sample ID: MW-02-052523**

**Lab Sample ID: 480-209285-1**

Date Collected: 05/25/23 12:08

Matrix: Water

Date Received: 05/26/23 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	671910	ATG	EET BUF	06/05/23 19:03
Total/NA	Prep	3535			681248	EJR	EET SAC	06/08/23 04:41
Total/NA	Analysis	537 (modified)		1	682484	S1C	EET SAC	06/13/23 01:43

**Client Sample ID: FD-052523-MW**

**Lab Sample ID: 480-209285-2**

Date Collected: 05/25/23 00:00

Matrix: Water

Date Received: 05/26/23 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	671910	ATG	EET BUF	06/05/23 19:27
Total/NA	Prep	3535			681248	EJR	EET SAC	06/08/23 04:41
Total/NA	Analysis	537 (modified)		1	682484	S1C	EET SAC	06/13/23 01:53

**Client Sample ID: FB-052523-MW**

**Lab Sample ID: 480-209285-3**

Date Collected: 05/25/23 12:28

Matrix: Water

Date Received: 05/26/23 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			681248	EJR	EET SAC	06/08/23 04:41
Total/NA	Analysis	537 (modified)		1	682484	S1C	EET SAC	06/13/23 02:04

**Client Sample ID: MW-07-05252023**

**Lab Sample ID: 480-209285-4**

Date Collected: 05/25/23 13:33

Matrix: Water

Date Received: 05/26/23 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		4	671910	ATG	EET BUF	06/05/23 19:50

**Client Sample ID: MW-15-05252023**

**Lab Sample ID: 480-209285-5**

Date Collected: 05/25/23 14:32

Matrix: Water

Date Received: 05/26/23 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	671910	ATG	EET BUF	06/05/23 20:13

**Client Sample ID: MW-12-05252023**

**Lab Sample ID: 480-209285-6**

Date Collected: 05/25/23 15:32

Matrix: Water

Date Received: 05/26/23 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	671910	ATG	EET BUF	06/05/23 20:36

# Lab Chronicle

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

**Client Sample ID: TB-05252023**

**Lab Sample ID: 480-209285-7**

**Date Collected: 05/25/23 00:00**

**Matrix: Water**

**Date Received: 05/26/23 14:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	671660	LCH	EET BUF	06/02/23 18:43

**Laboratory References:**

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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# Accreditation/Certification Summary

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

## Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-24

## Laboratory: Eurofins Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11666	04-01-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	6:2 FTS
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	NETFOSAA
537 (modified)	3535	Water	NMeFOSAA
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (FOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTrDA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)



# Method Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209285-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
3535	Solid-Phase Extraction (SPE)	SW846	EET SAC
5030C	Purge and Trap	SW846	EET BUF

#### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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# Sample Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC


Job ID: 480-209285-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-209285-1	MW-02-052523	Water	05/25/23 12:08	05/26/23 14:05
480-209285-2	FD-052523-MW	Water	05/25/23 00:00	05/26/23 14:05
480-209285-3	FB-052523-MW	Water	05/25/23 12:28	05/26/23 14:05
480-209285-4	MW-07-05252023	Water	05/25/23 13:33	05/26/23 14:05
480-209285-5	MW-15-05252023	Water	05/25/23 14:32	05/26/23 14:05
480-209285-6	MW-12-05252023	Water	05/25/23 15:32	05/26/23 14:05
480-209285-7	TB-05252023	Water	05/25/23 00:00	05/26/23 14:05

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# Chain of Custody Record



<b>Client Information</b> Client Contact: Colin Wasteneys Company: AECOM Address: 50 Lakefront Boulevard Suite 111 City: Buffalo State: NY Zip: 14202 Phone: 148096 Email: colin.wasteneys@aecom.com Project Name: 60583042 - Wyoming County FTC Site:		Lab PM: Schove, John R E-Mail: John.Schove@et.eurofins.com Carrier Tracking No(s): 480-185563-36054 1 State of Origin:	
Due Date Requested: TAT Requested (days): <b>STANDARD</b> Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: 148096 WO #: 48005402 Project #: 48005402 SSO#:		Analysis Requested  480-209285 Chain of Custody	
<b>Sample Identification</b> MW-02-052523 FD-052523-MW <del>MW-07-05252023</del> MW-07-05252023 MS MW-07-05252023 MSD MW-15-05252023 MW-12-05252023 TB-05252023		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - Trizma Y - EDTA Z - other (specify)	
<b>Possible Hazard Identification</b> <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV, Other (specify)		Special Instructions/Note: Total Number of Containers: 5, 5, 2, 3, 3, 3, 3, 2	
Empty Kit Relinquished by: Robert J. Murphy Relinquished by: Robert J. Murphy Relinquished by:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:	
Date/Time: 5/25/23 1405 Date/Time: 5/26/23 1405 Date/Time:		Method of Shipment: DROP OFF Received by: [Signature] Received by: [Signature] Received by:	
Custody Seal No.: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooler Temperature(s) and Other Remarks: SIT # 1 FCE	





# Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-209285-1

**Login Number: 209285**

**List Source: Eurofins Buffalo**

**List Number: 1**

**Creator: Sabuda, Brendan D**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.7 4.1 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



# Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-209285-1

**Login Number: 209285**

**List Number: 2**

**Creator: Simmons, Jason C**

**List Source: Eurofins Sacramento**

**List Creation: 06/01/23 01:51 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





# ANALYTICAL REPORT

## PREPARED FOR

Attn: Colin Wasteneys  
AECOM  
50 Lakefront Boulevard  
Suite 111  
Buffalo, New York 14202

Generated 6/9/2023 10:51:42 AM

## JOB DESCRIPTION

60691198 - Wyoming County FTC

## JOB NUMBER

480-209286-1



# Eurofins Buffalo

## Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

## Authorization



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# Definitions/Glossary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

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## Job ID: 480-209286-1

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### Laboratory: Eurofins Buffalo

#### Narrative

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#### Job Narrative 480-209286-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/26/2023 2:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.7° C.

#### GC/MS VOA

Method 524.2: The continuing calibration verification (CCV) associated with batch 460-913660 recovered outside acceptance criteria, low biased, for Bromomethane and Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 524.2: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-913660 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane 2-Hexanone, 1,2,4-Trichlorobenzene, Bromomethane and Hexachlorobutadiene(biased low).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



# Detection Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

## Client Sample ID: SW-01-05252023

## Lab Sample ID: 480-209286-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethyl ether	0.18	J	0.50	0.14	ug/L	1	1	524.2	Total/NA

## Client Sample ID: FD-05252023

## Lab Sample ID: 480-209286-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethyl ether	0.16	J	0.50	0.14	ug/L	1	1	524.2	Total/NA

## Client Sample ID: SPRING-052523

## Lab Sample ID: 480-209286-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	38		0.50	0.17	ug/L	1	1	524.2	Total/NA
1,1-Dichloroethane	4.5		0.50	0.14	ug/L	1	1	524.2	Total/NA
1,1-Dichloroethene	0.63		0.50	0.19	ug/L	1	1	524.2	Total/NA
2-Butanone (MEK)	3.7		2.5	1.1	ug/L	1	1	524.2	Total/NA
Tetrachloroethene	33		0.50	0.14	ug/L	1	1	524.2	Total/NA
trans-1,2-Dichloroethene	0.44	J	0.50	0.13	ug/L	1	1	524.2	Total/NA
Trichloroethene	5.1		0.50	0.11	ug/L	1	1	524.2	Total/NA
cis-1,2-Dichloroethene - DL	40		2.5	0.70	ug/L	5	1	524.2	Total/NA

## Client Sample ID: BW-01-05262023

## Lab Sample ID: 480-209286-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethyl ether	0.16	J	0.50	0.14	ug/L	1	1	524.2	Total/NA

## Client Sample ID: TB-05252023+25262023

## Lab Sample ID: 480-209286-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethyl ether	0.16	J	0.50	0.14	ug/L	1	1	524.2	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

**Client Sample ID: SW-01-05252023**

**Lab Sample ID: 480-209286-1**

Date Collected: 05/25/23 10:10

Matrix: Water

Date Received: 05/26/23 14:05

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			06/06/23 13:36	1
1,1,1-Trichloroethane	ND		0.50	0.17	ug/L			06/06/23 13:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			06/06/23 13:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			06/06/23 13:36	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			06/06/23 13:36	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			06/06/23 13:36	1
1,1-Dichloroethene	ND		0.50	0.19	ug/L			06/06/23 13:36	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			06/06/23 13:36	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			06/06/23 13:36	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			06/06/23 13:36	1
1,2,4-Trichlorobenzene	ND	UJ	0.50	0.10	ug/L			06/06/23 13:36	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			06/06/23 13:36	1
1,2-Dibromo-3-Chloropropane	ND	UJ	0.50	0.35	ug/L			06/06/23 13:36	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			06/06/23 13:36	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			06/06/23 13:36	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			06/06/23 13:36	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/06/23 13:36	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			06/06/23 13:36	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			06/06/23 13:36	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			06/06/23 13:36	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			06/06/23 13:36	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			06/06/23 13:36	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			06/06/23 13:36	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			06/06/23 13:36	1
2-Hexanone	ND	UJ	2.5	1.1	ug/L			06/06/23 13:36	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			06/06/23 13:36	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			06/06/23 13:36	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			06/06/23 13:36	1
Acetone	ND		3.0	2.9	ug/L			06/06/23 13:36	1
Acrylonitrile	ND		0.50	0.37	ug/L			06/06/23 13:36	1
Allyl chloride	ND		0.50	0.10	ug/L			06/06/23 13:36	1
Benzene	ND		0.50	0.11	ug/L			06/06/23 13:36	1
Bromobenzene	ND		0.50	0.070	ug/L			06/06/23 13:36	1
Bromochloromethane	ND		0.50	0.10	ug/L			06/06/23 13:36	1
Bromoform	ND		0.50	0.080	ug/L			06/06/23 13:36	1
Bromomethane	ND	UJ	0.50	0.31	ug/L			06/06/23 13:36	1
Carbon disulfide	ND		0.50	0.10	ug/L			06/06/23 13:36	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			06/06/23 13:36	1
Chlorobenzene	ND		0.50	0.10	ug/L			06/06/23 13:36	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			06/06/23 13:36	1
Chloroethane	ND		0.50	0.23	ug/L			06/06/23 13:36	1
Chloroform	ND		0.50	0.12	ug/L			06/06/23 13:36	1
Chloromethane	ND		0.50	0.18	ug/L			06/06/23 13:36	1
cis-1,2-Dichloroethene	ND		0.50	0.14	ug/L			06/06/23 13:36	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			06/06/23 13:36	1
Dibromomethane	ND		0.50	0.10	ug/L			06/06/23 13:36	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			06/06/23 13:36	1
Dichlorodifluoromethane	ND	UJ	0.50	0.30	ug/L			06/06/23 13:36	1
Ethyl ether	ND		0.50	0.50	ug/L			06/06/23 13:36	1

Euromins Buffalo

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

**Client Sample ID: SW-01-05252023**

**Lab Sample ID: 480-209286-1**

**Date Collected: 05/25/23 10:10**

**Matrix: Water**

**Date Received: 05/26/23 14:05**

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50	0.090	ug/L			06/06/23 13:36	1
Hexachlorobutadiene	ND	UJ	0.50	0.19	ug/L			06/06/23 13:36	1
Iodomethane	ND		0.50	0.033	ug/L			06/06/23 13:36	1
Isopropylbenzene	ND		0.50	0.14	ug/L			06/06/23 13:36	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			06/06/23 13:36	1
Methylene Chloride	ND		0.50	0.42	ug/L			06/06/23 13:36	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			06/06/23 13:36	1
Naphthalene	ND		0.50	0.080	ug/L			06/06/23 13:36	1
n-Butylbenzene	ND		0.50	0.14	ug/L			06/06/23 13:36	1
N-Propylbenzene	ND		0.50	0.14	ug/L			06/06/23 13:36	1
o-Xylene	ND		0.50	0.090	ug/L			06/06/23 13:36	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			06/06/23 13:36	1
Styrene	ND		0.50	0.090	ug/L			06/06/23 13:36	1
t-Butanol	ND		10	2.5	ug/L			06/06/23 13:36	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			06/06/23 13:36	1
Tetrachloroethene	ND		0.50	0.14	ug/L			06/06/23 13:36	1
Toluene	ND		0.50	0.11	ug/L			06/06/23 13:36	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/06/23 13:36	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			06/06/23 13:36	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			06/06/23 13:36	1
Trichloroethene	ND		0.50	0.11	ug/L			06/06/23 13:36	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			06/06/23 13:36	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			06/06/23 13:36	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/06/23 13:36	1
Xylenes, Total	ND		0.50	0.32	ug/L			06/06/23 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	97		70 - 130		06/06/23 13:36	1
4-Bromofluorobenzene	113		70 - 130		06/06/23 13:36	1

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

**Client Sample ID: FD-05252023**

**Lab Sample ID: 480-209286-2**

Date Collected: 05/25/23 00:00

Matrix: Water

Date Received: 05/26/23 14:05

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			06/06/23 13:59	1
1,1,1-Trichloroethane	ND		0.50	0.17	ug/L			06/06/23 13:59	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			06/06/23 13:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			06/06/23 13:59	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			06/06/23 13:59	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			06/06/23 13:59	1
1,1-Dichloroethene	ND		0.50	0.19	ug/L			06/06/23 13:59	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			06/06/23 13:59	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			06/06/23 13:59	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			06/06/23 13:59	1
1,2,4-Trichlorobenzene	ND	UJ	0.50	0.10	ug/L			06/06/23 13:59	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			06/06/23 13:59	1
1,2-Dibromo-3-Chloropropane	ND	UJ	0.50	0.35	ug/L			06/06/23 13:59	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			06/06/23 13:59	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			06/06/23 13:59	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			06/06/23 13:59	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/06/23 13:59	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			06/06/23 13:59	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			06/06/23 13:59	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			06/06/23 13:59	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			06/06/23 13:59	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			06/06/23 13:59	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			06/06/23 13:59	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			06/06/23 13:59	1
2-Hexanone	ND	UJ	2.5	1.1	ug/L			06/06/23 13:59	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			06/06/23 13:59	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			06/06/23 13:59	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			06/06/23 13:59	1
Acetone	ND		3.0	2.9	ug/L			06/06/23 13:59	1
Acrylonitrile	ND		0.50	0.37	ug/L			06/06/23 13:59	1
Allyl chloride	ND		0.50	0.10	ug/L			06/06/23 13:59	1
Benzene	ND		0.50	0.11	ug/L			06/06/23 13:59	1
Bromobenzene	ND		0.50	0.070	ug/L			06/06/23 13:59	1
Bromochloromethane	ND		0.50	0.10	ug/L			06/06/23 13:59	1
Bromoform	ND		0.50	0.080	ug/L			06/06/23 13:59	1
Bromomethane	ND	UJ	0.50	0.31	ug/L			06/06/23 13:59	1
Carbon disulfide	ND		0.50	0.10	ug/L			06/06/23 13:59	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			06/06/23 13:59	1
Chlorobenzene	ND		0.50	0.10	ug/L			06/06/23 13:59	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			06/06/23 13:59	1
Chloroethane	ND		0.50	0.23	ug/L			06/06/23 13:59	1
Chloroform	ND		0.50	0.12	ug/L			06/06/23 13:59	1
Chloromethane	ND		0.50	0.18	ug/L			06/06/23 13:59	1
cis-1,2-Dichloroethene	ND		0.50	0.14	ug/L			06/06/23 13:59	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			06/06/23 13:59	1
Dibromomethane	ND		0.50	0.10	ug/L			06/06/23 13:59	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			06/06/23 13:59	1
Dichlorodifluoromethane	ND	UJ	0.50	0.30	ug/L			06/06/23 13:59	1
Ethyl ether	ND		0.50	0.50	ug/L			06/06/23 13:59	1

Eurolins Buffalo



# Client Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

**Client Sample ID: FD-05252023**

**Lab Sample ID: 480-209286-2**

**Date Collected: 05/25/23 00:00**

**Matrix: Water**

**Date Received: 05/26/23 14:05**

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50	0.090	ug/L			06/06/23 13:59	1
Hexachlorobutadiene	ND	UJ	0.50	0.19	ug/L			06/06/23 13:59	1
Iodomethane	ND		0.50	0.033	ug/L			06/06/23 13:59	1
Isopropylbenzene	ND		0.50	0.14	ug/L			06/06/23 13:59	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			06/06/23 13:59	1
Methylene Chloride	ND		0.50	0.42	ug/L			06/06/23 13:59	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			06/06/23 13:59	1
Naphthalene	ND		0.50	0.080	ug/L			06/06/23 13:59	1
n-Butylbenzene	ND		0.50	0.14	ug/L			06/06/23 13:59	1
N-Propylbenzene	ND		0.50	0.14	ug/L			06/06/23 13:59	1
o-Xylene	ND		0.50	0.090	ug/L			06/06/23 13:59	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			06/06/23 13:59	1
Styrene	ND		0.50	0.090	ug/L			06/06/23 13:59	1
t-Butanol	ND		10	2.5	ug/L			06/06/23 13:59	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			06/06/23 13:59	1
Tetrachloroethene	ND		0.50	0.14	ug/L			06/06/23 13:59	1
Toluene	ND		0.50	0.11	ug/L			06/06/23 13:59	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/06/23 13:59	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			06/06/23 13:59	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			06/06/23 13:59	1
Trichloroethene	ND		0.50	0.11	ug/L			06/06/23 13:59	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			06/06/23 13:59	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			06/06/23 13:59	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/06/23 13:59	1
Xylenes, Total	ND		0.50	0.32	ug/L			06/06/23 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	96		70 - 130		06/06/23 13:59	1
4-Bromofluorobenzene	115		70 - 130		06/06/23 13:59	1

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

**Client Sample ID: SPRING-052523**

**Lab Sample ID: 480-209286-3**

Date Collected: 05/25/23 10:30

Matrix: Water

Date Received: 05/26/23 14:05

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			06/06/23 16:38	1
<b>1,1,1-Trichloroethane</b>	<b>38</b>		0.50	0.17	ug/L			06/06/23 16:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			06/06/23 16:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			06/06/23 16:38	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			06/06/23 16:38	1
<b>1,1-Dichloroethane</b>	<b>4.5</b>		0.50	0.14	ug/L			06/06/23 16:38	1
<b>1,1-Dichloroethene</b>	<b>0.63</b>		0.50	0.19	ug/L			06/06/23 16:38	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			06/06/23 16:38	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			06/06/23 16:38	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			06/06/23 16:38	1
1,2,4-Trichlorobenzene	ND	UJ	0.50	0.10	ug/L			06/06/23 16:38	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			06/06/23 16:38	1
1,2-Dibromo-3-Chloropropane	ND	UJ	0.50	0.35	ug/L			06/06/23 16:38	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			06/06/23 16:38	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			06/06/23 16:38	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			06/06/23 16:38	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/06/23 16:38	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			06/06/23 16:38	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			06/06/23 16:38	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			06/06/23 16:38	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			06/06/23 16:38	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			06/06/23 16:38	1
<b>2-Butanone (MEK)</b>	<b>3.7</b>		2.5	1.1	ug/L			06/06/23 16:38	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			06/06/23 16:38	1
2-Hexanone	ND	UJ	2.5	1.1	ug/L			06/06/23 16:38	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			06/06/23 16:38	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			06/06/23 16:38	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			06/06/23 16:38	1
Acetone	ND		3.0	2.9	ug/L			06/06/23 16:38	1
Acrylonitrile	ND		0.50	0.37	ug/L			06/06/23 16:38	1
Allyl chloride	ND		0.50	0.10	ug/L			06/06/23 16:38	1
Benzene	ND		0.50	0.11	ug/L			06/06/23 16:38	1
Bromobenzene	ND		0.50	0.070	ug/L			06/06/23 16:38	1
Bromochloromethane	ND		0.50	0.10	ug/L			06/06/23 16:38	1
Bromoform	ND		0.50	0.080	ug/L			06/06/23 16:38	1
Bromomethane	ND	UJ	0.50	0.31	ug/L			06/06/23 16:38	1
Carbon disulfide	ND		0.50	0.10	ug/L			06/06/23 16:38	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			06/06/23 16:38	1
Chlorobenzene	ND		0.50	0.10	ug/L			06/06/23 16:38	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			06/06/23 16:38	1
Chloroethane	ND		0.50	0.23	ug/L			06/06/23 16:38	1
Chloroform	ND		0.50	0.12	ug/L			06/06/23 16:38	1
Chloromethane	ND		0.50	0.18	ug/L			06/06/23 16:38	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			06/06/23 16:38	1
Dibromomethane	ND		0.50	0.10	ug/L			06/06/23 16:38	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			06/06/23 16:38	1
Dichlorodifluoromethane	ND	UJ	0.50	0.30	ug/L			06/06/23 16:38	1
Ethyl ether	ND		0.50	0.14	ug/L			06/06/23 16:38	1
Ethylbenzene	ND		0.50	0.090	ug/L			06/06/23 16:38	1

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# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

**Client Sample ID: SPRING-052523**

**Lab Sample ID: 480-209286-3**

Date Collected: 05/25/23 10:30

Matrix: Water

Date Received: 05/26/23 14:05

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND	UJ	0.50	0.19	ug/L			06/06/23 16:38	1
Iodomethane	ND		0.50	0.033	ug/L			06/06/23 16:38	1
Isopropylbenzene	ND		0.50	0.14	ug/L			06/06/23 16:38	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			06/06/23 16:38	1
Methylene Chloride	ND		0.50	0.42	ug/L			06/06/23 16:38	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			06/06/23 16:38	1
Naphthalene	ND		0.50	0.080	ug/L			06/06/23 16:38	1
n-Butylbenzene	ND		0.50	0.14	ug/L			06/06/23 16:38	1
N-Propylbenzene	ND		0.50	0.14	ug/L			06/06/23 16:38	1
o-Xylene	ND		0.50	0.090	ug/L			06/06/23 16:38	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			06/06/23 16:38	1
Styrene	ND		0.50	0.090	ug/L			06/06/23 16:38	1
t-Butanol	ND		10	2.5	ug/L			06/06/23 16:38	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			06/06/23 16:38	1
<b>Tetrachloroethene</b>	<b>33</b>		0.50	0.14	ug/L			06/06/23 16:38	1
Toluene	ND		0.50	0.11	ug/L			06/06/23 16:38	1
<b>trans-1,2-Dichloroethene</b>	<b>0.44</b>	<b>J</b>	0.50	0.13	ug/L			06/06/23 16:38	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			06/06/23 16:38	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			06/06/23 16:38	1
<b>Trichloroethene</b>	<b>5.1</b>		0.50	0.11	ug/L			06/06/23 16:38	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			06/06/23 16:38	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			06/06/23 16:38	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/06/23 16:38	1
Xylenes, Total	ND		0.50	0.32	ug/L			06/06/23 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	92		70 - 130		06/06/23 16:38	1
4-Bromofluorobenzene	108		70 - 130		06/06/23 16:38	1

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>40</b>		2.5	0.70	ug/L			06/06/23 17:01	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	93		70 - 130		06/06/23 17:01	5
4-Bromofluorobenzene	115		70 - 130		06/06/23 17:01	5

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

**Client Sample ID: BW-01-05262023**

**Lab Sample ID: 480-209286-4**

Date Collected: 05/26/23 12:10

Matrix: Water

Date Received: 05/26/23 14:05

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			06/06/23 14:22	1
1,1,1-Trichloroethane	ND		0.50	0.17	ug/L			06/06/23 14:22	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			06/06/23 14:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			06/06/23 14:22	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			06/06/23 14:22	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			06/06/23 14:22	1
1,1-Dichloroethene	ND		0.50	0.19	ug/L			06/06/23 14:22	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			06/06/23 14:22	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			06/06/23 14:22	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			06/06/23 14:22	1
1,2,4-Trichlorobenzene	ND	UJ	0.50	0.10	ug/L			06/06/23 14:22	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			06/06/23 14:22	1
1,2-Dibromo-3-Chloropropane	ND	UJ	0.50	0.35	ug/L			06/06/23 14:22	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			06/06/23 14:22	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			06/06/23 14:22	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			06/06/23 14:22	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/06/23 14:22	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			06/06/23 14:22	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			06/06/23 14:22	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			06/06/23 14:22	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			06/06/23 14:22	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			06/06/23 14:22	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			06/06/23 14:22	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			06/06/23 14:22	1
2-Hexanone	ND	UJ	2.5	1.1	ug/L			06/06/23 14:22	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			06/06/23 14:22	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			06/06/23 14:22	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			06/06/23 14:22	1
Acetone	ND		3.0	2.9	ug/L			06/06/23 14:22	1
Acrylonitrile	ND		0.50	0.37	ug/L			06/06/23 14:22	1
Allyl chloride	ND		0.50	0.10	ug/L			06/06/23 14:22	1
Benzene	ND		0.50	0.11	ug/L			06/06/23 14:22	1
Bromobenzene	ND		0.50	0.070	ug/L			06/06/23 14:22	1
Bromochloromethane	ND		0.50	0.10	ug/L			06/06/23 14:22	1
Bromoform	ND		0.50	0.080	ug/L			06/06/23 14:22	1
Bromomethane	ND	UJ	0.50	0.31	ug/L			06/06/23 14:22	1
Carbon disulfide	ND		0.50	0.10	ug/L			06/06/23 14:22	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			06/06/23 14:22	1
Chlorobenzene	ND		0.50	0.10	ug/L			06/06/23 14:22	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			06/06/23 14:22	1
Chloroethane	ND		0.50	0.23	ug/L			06/06/23 14:22	1
Chloroform	ND		0.50	0.12	ug/L			06/06/23 14:22	1
Chloromethane	ND	UJ	0.50	0.18	ug/L			06/06/23 14:22	1
cis-1,2-Dichloroethene	ND		0.50	0.14	ug/L			06/06/23 14:22	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			06/06/23 14:22	1
Dibromomethane	ND		0.50	0.10	ug/L			06/06/23 14:22	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			06/06/23 14:22	1
Dichlorodifluoromethane	ND	UJ	0.50	0.30	ug/L			06/06/23 14:22	1
Ethyl ether	ND		0.50	0.50	ug/L			06/06/23 14:22	1

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# Client Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

**Client Sample ID: BW-01-05262023**

**Lab Sample ID: 480-209286-4**

**Date Collected: 05/26/23 12:10**

**Matrix: Water**

**Date Received: 05/26/23 14:05**

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50	0.090	ug/L			06/06/23 14:22	1
Hexachlorobutadiene	ND	UJ	0.50	0.19	ug/L			06/06/23 14:22	1
Iodomethane	ND		0.50	0.033	ug/L			06/06/23 14:22	1
Isopropylbenzene	ND		0.50	0.14	ug/L			06/06/23 14:22	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			06/06/23 14:22	1
Methylene Chloride	ND		0.50	0.42	ug/L			06/06/23 14:22	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			06/06/23 14:22	1
Naphthalene	ND		0.50	0.080	ug/L			06/06/23 14:22	1
n-Butylbenzene	ND		0.50	0.14	ug/L			06/06/23 14:22	1
N-Propylbenzene	ND		0.50	0.14	ug/L			06/06/23 14:22	1
o-Xylene	ND		0.50	0.090	ug/L			06/06/23 14:22	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			06/06/23 14:22	1
Styrene	ND		0.50	0.090	ug/L			06/06/23 14:22	1
t-Butanol	ND		10	2.5	ug/L			06/06/23 14:22	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			06/06/23 14:22	1
Tetrachloroethene	ND		0.50	0.14	ug/L			06/06/23 14:22	1
Toluene	ND		0.50	0.11	ug/L			06/06/23 14:22	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/06/23 14:22	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			06/06/23 14:22	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			06/06/23 14:22	1
Trichloroethene	ND		0.50	0.11	ug/L			06/06/23 14:22	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			06/06/23 14:22	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			06/06/23 14:22	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/06/23 14:22	1
Xylenes, Total	ND		0.50	0.32	ug/L			06/06/23 14:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	97		70 - 130		06/06/23 14:22	1
4-Bromofluorobenzene	118		70 - 130		06/06/23 14:22	1

# Client Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

**Client Sample ID: TB-05252023+25262023**

**Lab Sample ID: 480-209286-5**

Date Collected: 05/26/23 00:00

Matrix: Water

Date Received: 05/26/23 14:05

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			06/06/23 12:51	1
1,1,1-Trichloroethane	ND		0.50	0.17	ug/L			06/06/23 12:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			06/06/23 12:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			06/06/23 12:51	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			06/06/23 12:51	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			06/06/23 12:51	1
1,1-Dichloroethene	ND		0.50	0.19	ug/L			06/06/23 12:51	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			06/06/23 12:51	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			06/06/23 12:51	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			06/06/23 12:51	1
1,2,4-Trichlorobenzene	ND	UJ	0.50	0.10	ug/L			06/06/23 12:51	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			06/06/23 12:51	1
1,2-Dibromo-3-Chloropropane	ND	UJ	0.50	0.35	ug/L			06/06/23 12:51	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			06/06/23 12:51	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			06/06/23 12:51	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			06/06/23 12:51	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/06/23 12:51	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			06/06/23 12:51	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			06/06/23 12:51	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			06/06/23 12:51	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			06/06/23 12:51	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			06/06/23 12:51	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			06/06/23 12:51	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			06/06/23 12:51	1
2-Hexanone	ND	UJ	2.5	1.1	ug/L			06/06/23 12:51	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			06/06/23 12:51	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			06/06/23 12:51	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			06/06/23 12:51	1
Acetone	ND		3.0	2.9	ug/L			06/06/23 12:51	1
Acrylonitrile	ND		0.50	0.37	ug/L			06/06/23 12:51	1
Allyl chloride	ND		0.50	0.10	ug/L			06/06/23 12:51	1
Benzene	ND		0.50	0.11	ug/L			06/06/23 12:51	1
Bromobenzene	ND		0.50	0.070	ug/L			06/06/23 12:51	1
Bromochloromethane	ND		0.50	0.10	ug/L			06/06/23 12:51	1
Bromoform	ND		0.50	0.080	ug/L			06/06/23 12:51	1
Bromomethane	ND	UJ	0.50	0.31	ug/L			06/06/23 12:51	1
Carbon disulfide	ND		0.50	0.10	ug/L			06/06/23 12:51	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			06/06/23 12:51	1
Chlorobenzene	ND		0.50	0.10	ug/L			06/06/23 12:51	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			06/06/23 12:51	1
Chloroethane	ND		0.50	0.23	ug/L			06/06/23 12:51	1
Chloroform	ND		0.50	0.12	ug/L			06/06/23 12:51	1
Chloromethane	ND		0.50	0.18	ug/L			06/06/23 12:51	1
cis-1,2-Dichloroethene	ND		0.50	0.14	ug/L			06/06/23 12:51	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			06/06/23 12:51	1
Dibromomethane	ND		0.50	0.10	ug/L			06/06/23 12:51	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			06/06/23 12:51	1
Dichlorodifluoromethane	ND	UJ	0.50	0.30	ug/L			06/06/23 12:51	1
Ethyl ether	0.16	J	0.50	0.14	ug/L			06/06/23 12:51	1

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# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

**Client Sample ID: TB-05252023+25262023**

**Lab Sample ID: 480-209286-5**

**Date Collected: 05/26/23 00:00**

**Matrix: Water**

**Date Received: 05/26/23 14:05**

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50	0.090	ug/L			06/06/23 12:51	1
Hexachlorobutadiene	ND	UJ	0.50	0.19	ug/L			06/06/23 12:51	1
Iodomethane	ND		0.50	0.033	ug/L			06/06/23 12:51	1
Isopropylbenzene	ND		0.50	0.14	ug/L			06/06/23 12:51	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			06/06/23 12:51	1
Methylene Chloride	ND		0.50	0.42	ug/L			06/06/23 12:51	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			06/06/23 12:51	1
Naphthalene	ND		0.50	0.080	ug/L			06/06/23 12:51	1
n-Butylbenzene	ND		0.50	0.14	ug/L			06/06/23 12:51	1
N-Propylbenzene	ND		0.50	0.14	ug/L			06/06/23 12:51	1
o-Xylene	ND		0.50	0.090	ug/L			06/06/23 12:51	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			06/06/23 12:51	1
Styrene	ND		0.50	0.090	ug/L			06/06/23 12:51	1
t-Butanol	ND		10	2.5	ug/L			06/06/23 12:51	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			06/06/23 12:51	1
Tetrachloroethene	ND		0.50	0.14	ug/L			06/06/23 12:51	1
Toluene	ND		0.50	0.11	ug/L			06/06/23 12:51	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/06/23 12:51	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			06/06/23 12:51	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			06/06/23 12:51	1
Trichloroethene	ND		0.50	0.11	ug/L			06/06/23 12:51	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			06/06/23 12:51	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			06/06/23 12:51	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/06/23 12:51	1
Xylenes, Total	ND		0.50	0.32	ug/L			06/06/23 12:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	98		70 - 130		06/06/23 12:51	1
4-Bromofluorobenzene	115		70 - 130		06/06/23 12:51	1

# Surrogate Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

**Method: 524.2 - Volatile Organic Compounds (GC/MS)**

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCZ	BFB
		(70-130)	(70-130)
480-209286-1	SW-01-05252023	97	113
480-209286-2	FD-05252023	96	115
480-209286-3	SPRING-052523	92	108
480-209286-3 - DL	SPRING-052523	93	115
480-209286-4	BW-01-05262023	97	118
480-209286-4 MS	BW-01-05262023 MS	96	110
480-209286-4 MSD	BW-01-05262023 MSD	96	115
480-209286-5	TB-05252023+25262023	98	115
LCS 460-913660/4	Lab Control Sample	83	98
LCSD 460-913660/5	Lab Control Sample Dup	81	96
MB 460-913660/8	Method Blank	86	101

### Surrogate Legend

DCZ = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene



# QC Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 460-913660/8**  
**Matrix: Water**  
**Analysis Batch: 913660**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			06/06/23 09:26	1
1,1,1-Trichloroethane	ND		0.50	0.17	ug/L			06/06/23 09:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			06/06/23 09:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			06/06/23 09:26	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			06/06/23 09:26	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			06/06/23 09:26	1
1,1-Dichloroethene	ND		0.50	0.19	ug/L			06/06/23 09:26	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			06/06/23 09:26	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			06/06/23 09:26	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			06/06/23 09:26	1
1,2,4-Trichlorobenzene	ND		0.50	0.10	ug/L			06/06/23 09:26	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			06/06/23 09:26	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.35	ug/L			06/06/23 09:26	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			06/06/23 09:26	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			06/06/23 09:26	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			06/06/23 09:26	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			06/06/23 09:26	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			06/06/23 09:26	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			06/06/23 09:26	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			06/06/23 09:26	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			06/06/23 09:26	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			06/06/23 09:26	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			06/06/23 09:26	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			06/06/23 09:26	1
2-Hexanone	ND		2.5	1.1	ug/L			06/06/23 09:26	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			06/06/23 09:26	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			06/06/23 09:26	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			06/06/23 09:26	1
Acetone	ND		3.0	2.9	ug/L			06/06/23 09:26	1
Acrylonitrile	ND		0.50	0.37	ug/L			06/06/23 09:26	1
Allyl chloride	ND		0.50	0.10	ug/L			06/06/23 09:26	1
Benzene	ND		0.50	0.11	ug/L			06/06/23 09:26	1
Bromobenzene	ND		0.50	0.070	ug/L			06/06/23 09:26	1
Bromochloromethane	ND		0.50	0.10	ug/L			06/06/23 09:26	1
Bromoform	ND		0.50	0.080	ug/L			06/06/23 09:26	1
Bromomethane	ND		0.50	0.31	ug/L			06/06/23 09:26	1
Carbon disulfide	ND		0.50	0.10	ug/L			06/06/23 09:26	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			06/06/23 09:26	1
Chlorobenzene	ND		0.50	0.10	ug/L			06/06/23 09:26	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			06/06/23 09:26	1
Chloroethane	ND		0.50	0.23	ug/L			06/06/23 09:26	1
Chloroform	ND		0.50	0.12	ug/L			06/06/23 09:26	1
Chloromethane	ND		0.50	0.18	ug/L			06/06/23 09:26	1
cis-1,2-Dichloroethene	ND		0.50	0.14	ug/L			06/06/23 09:26	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			06/06/23 09:26	1
Dibromomethane	ND		0.50	0.10	ug/L			06/06/23 09:26	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			06/06/23 09:26	1
Dichlorodifluoromethane	ND		0.50	0.30	ug/L			06/06/23 09:26	1

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# QC Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 460-913660/8**  
**Matrix: Water**  
**Analysis Batch: 913660**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	ND		0.50	0.14	ug/L			06/06/23 09:26	1
Ethylbenzene	ND		0.50	0.090	ug/L			06/06/23 09:26	1
Hexachlorobutadiene	ND		0.50	0.19	ug/L			06/06/23 09:26	1
Iodomethane	ND		0.50	0.033	ug/L			06/06/23 09:26	1
Isopropylbenzene	ND		0.50	0.14	ug/L			06/06/23 09:26	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			06/06/23 09:26	1
Methylene Chloride	ND		0.50	0.42	ug/L			06/06/23 09:26	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			06/06/23 09:26	1
Naphthalene	ND		0.50	0.080	ug/L			06/06/23 09:26	1
n-Butylbenzene	ND		0.50	0.14	ug/L			06/06/23 09:26	1
N-Propylbenzene	ND		0.50	0.14	ug/L			06/06/23 09:26	1
o-Xylene	ND		0.50	0.090	ug/L			06/06/23 09:26	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			06/06/23 09:26	1
Styrene	ND		0.50	0.090	ug/L			06/06/23 09:26	1
t-Butanol	ND		10	2.5	ug/L			06/06/23 09:26	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			06/06/23 09:26	1
Tetrachloroethene	ND		0.50	0.14	ug/L			06/06/23 09:26	1
Toluene	ND		0.50	0.11	ug/L			06/06/23 09:26	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			06/06/23 09:26	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			06/06/23 09:26	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			06/06/23 09:26	1
Trichloroethene	ND		0.50	0.11	ug/L			06/06/23 09:26	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			06/06/23 09:26	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			06/06/23 09:26	1
Vinyl chloride	ND		0.50	0.25	ug/L			06/06/23 09:26	1
Xylenes, Total	ND		0.50	0.32	ug/L			06/06/23 09:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	86		70 - 130		06/06/23 09:26	1
4-Bromofluorobenzene	101		70 - 130		06/06/23 09:26	1

**Lab Sample ID: LCS 460-913660/4**  
**Matrix: Water**  
**Analysis Batch: 913660**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	2.00	1.49		ug/L		75	70 - 130
1,1,1-Trichloroethane	2.00	1.86		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	2.00	1.56		ug/L		78	70 - 130
1,1,2-Trichloroethane	2.00	1.89		ug/L		94	70 - 130
1,1-Dichloroethane	2.00	1.96		ug/L		98	70 - 130
1,1-Dichloroethene	2.00	2.17		ug/L		109	70 - 130
1,1-Dichloropropene	2.00	2.15		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	2.00	1.43		ug/L		72	70 - 130
1,2,3-Trichloropropane	2.00	1.43		ug/L		71	70 - 130
1,2,4-Trichlorobenzene	2.00	1.37	*	ug/L		69	70 - 130
1,2,4-Trimethylbenzene	2.00	1.59		ug/L		80	70 - 130
1,2-Dibromo-3-Chloropropane	2.00	1.37	*	ug/L		69	70 - 130

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# QC Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 460-913660/4**  
**Matrix: Water**  
**Analysis Batch: 913660**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	2.00	1.69		ug/L		84	70 - 130
1,2-Dichlorobenzene	2.00	1.46		ug/L		73	70 - 130
1,2-Dichloroethane	2.00	1.86		ug/L		93	70 - 130
1,2-Dichloropropane	2.00	1.89		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	2.00	1.63		ug/L		82	70 - 130
1,3-Dichlorobenzene	2.00	1.43		ug/L		72	70 - 130
1,3-Dichloropropane	2.00	1.74		ug/L		87	70 - 130
1,4-Dichlorobenzene	2.00	1.49		ug/L		74	70 - 130
2,2-Dichloropropane	2.00	1.98		ug/L		99	70 - 130
2-Butanone (MEK)	10.0	8.90		ug/L		89	70 - 130
2-Chlorotoluene	2.00	1.62		ug/L		81	70 - 130
2-Hexanone	10.0	6.50	*-	ug/L		65	70 - 130
4-Chlorotoluene	2.00	1.66		ug/L		83	70 - 130
4-Isopropyltoluene	2.00	1.57		ug/L		79	70 - 130
4-Methyl-2-pentanone (MIBK)	10.0	8.75		ug/L		88	70 - 130
Acetone	10.0	8.43		ug/L		84	70 - 130
Benzene	2.00	2.03		ug/L		102	70 - 130
Bromobenzene	2.00	1.53		ug/L		76	70 - 130
Bromochloromethane	2.00	1.82		ug/L		91	70 - 130
Bromoform	2.00	1.47		ug/L		73	70 - 130
Bromomethane	2.00	0.831	*-	ug/L		42	70 - 130
Carbon disulfide	2.00	1.86		ug/L		93	70 - 130
Carbon tetrachloride	2.00	1.83		ug/L		91	70 - 130
Chlorobenzene	2.00	1.60		ug/L		80	70 - 130
Chlorodibromomethane	2.00	1.64		ug/L		82	70 - 130
Chloroethane	2.00	2.09		ug/L		104	70 - 130
Chloroform	2.00	1.84		ug/L		92	70 - 130
Chloromethane	2.00	2.29		ug/L		114	70 - 130
cis-1,2-Dichloroethene	2.00	1.90		ug/L		95	70 - 130
cis-1,3-Dichloropropene	2.00	1.93		ug/L		96	70 - 130
Dibromomethane	2.00	1.94		ug/L		97	70 - 130
Dichlorobromomethane	2.00	1.81		ug/L		91	70 - 130
Dichlorodifluoromethane	2.00	1.51		ug/L		76	70 - 130
Ethylbenzene	2.00	1.70		ug/L		85	70 - 130
Hexachlorobutadiene	2.00	1.31	*-	ug/L		65	70 - 130
Isopropylbenzene	2.00	1.66		ug/L		83	70 - 130
Methyl tert-butyl ether	2.00	1.97		ug/L		98	70 - 130
Methylene Chloride	2.00	2.00		ug/L		100	70 - 130
Naphthalene	2.00	1.49		ug/L		74	70 - 130
n-Butylbenzene	2.00	1.67		ug/L		83	70 - 130
N-Propylbenzene	2.00	1.66		ug/L		83	70 - 130
sec-Butylbenzene	2.00	1.62		ug/L		81	70 - 130
Styrene	2.00	1.62		ug/L		81	70 - 130
tert-Butylbenzene	2.00	1.73		ug/L		87	70 - 130
Tetrachloroethene	2.00	1.65		ug/L		82	70 - 130
Toluene	2.00	1.93		ug/L		96	70 - 130
trans-1,2-Dichloroethene	2.00	1.99		ug/L		99	70 - 130
trans-1,3-Dichloropropene	2.00	1.66		ug/L		83	70 - 130
Trichloroethene	2.00	1.93		ug/L		97	70 - 130

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# QC Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 460-913660/4**  
**Matrix: Water**  
**Analysis Batch: 913660**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichlorofluoromethane	2.00	1.78		ug/L		89	70 - 130
Vinyl chloride	2.00	1.65		ug/L		82	70 - 130
Xylenes, Total	6.00	4.96		ug/L		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	83		70 - 130
4-Bromofluorobenzene	98		70 - 130

**Lab Sample ID: LCSD 460-913660/5**  
**Matrix: Water**  
**Analysis Batch: 913660**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	2.00	1.67		ug/L		83	70 - 130	11	30
1,1,1-Trichloroethane	2.00	1.99		ug/L		99	70 - 130	7	30
1,1,2,2-Tetrachloroethane	2.00	1.53		ug/L		77	70 - 130	2	30
1,1,2-Trichloroethane	2.00	1.75		ug/L		88	70 - 130	7	30
1,1-Dichloroethane	2.00	1.99		ug/L		99	70 - 130	1	30
1,1-Dichloroethene	2.00	2.34		ug/L		117	70 - 130	8	30
1,1-Dichloropropene	2.00	2.15		ug/L		108	70 - 130	0	30
1,2,3-Trichlorobenzene	2.00	1.45		ug/L		73	70 - 130	1	30
1,2,3-Trichloropropane	2.00	1.47		ug/L		74	70 - 130	3	30
1,2,4-Trichlorobenzene	2.00	1.46		ug/L		73	70 - 130	6	30
1,2,4-Trimethylbenzene	2.00	1.66		ug/L		83	70 - 130	4	30
1,2-Dibromo-3-Chloropropane	2.00	1.51		ug/L		75	70 - 130	10	30
1,2-Dibromoethane	2.00	1.86		ug/L		93	70 - 130	10	30
1,2-Dichlorobenzene	2.00	1.53		ug/L		77	70 - 130	5	30
1,2-Dichloroethane	2.00	1.97		ug/L		99	70 - 130	6	30
1,2-Dichloropropane	2.00	1.91		ug/L		95	70 - 130	1	30
1,3,5-Trimethylbenzene	2.00	1.73		ug/L		87	70 - 130	6	30
1,3-Dichlorobenzene	2.00	1.48		ug/L		74	70 - 130	3	30
1,3-Dichloropropane	2.00	1.72		ug/L		86	70 - 130	1	30
1,4-Dichlorobenzene	2.00	1.51		ug/L		75	70 - 130	1	30
2,2-Dichloropropane	2.00	2.07		ug/L		103	70 - 130	4	30
2-Butanone (MEK)	10.0	9.13		ug/L		91	70 - 130	2	30
2-Chlorotoluene	2.00	1.67		ug/L		84	70 - 130	3	30
2-Hexanone	10.0	6.56	*	ug/L		66	70 - 130	1	30
4-Chlorotoluene	2.00	1.71		ug/L		85	70 - 130	3	30
4-Isopropyltoluene	2.00	1.65		ug/L		83	70 - 130	5	30
4-Methyl-2-pentanone (MIBK)	10.0	7.89		ug/L		79	70 - 130	10	30
Acetone	10.0	8.54		ug/L		85	70 - 130	1	30
Benzene	2.00	2.11		ug/L		105	70 - 130	4	30
Bromobenzene	2.00	1.60		ug/L		80	70 - 130	5	30
Bromochloromethane	2.00	1.78		ug/L		89	70 - 130	2	30
Bromoform	2.00	1.58		ug/L		79	70 - 130	8	30
Bromomethane	2.00	0.746	*	ug/L		37	70 - 130	11	30
Carbon disulfide	2.00	1.93		ug/L		97	70 - 130	4	30
Carbon tetrachloride	2.00	2.00		ug/L		100	70 - 130	9	30

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# QC Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 460-913660/5**  
**Matrix: Water**  
**Analysis Batch: 913660**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene	2.00	1.64		ug/L		82	70 - 130	2	30
Chlorodibromomethane	2.00	1.70		ug/L		85	70 - 130	4	30
Chloroethane	2.00	2.07		ug/L		104	70 - 130	1	30
Chloroform	2.00	1.91		ug/L		96	70 - 130	4	30
Chloromethane	2.00	2.19		ug/L		109	70 - 130	4	30
cis-1,2-Dichloroethene	2.00	2.03		ug/L		102	70 - 130	7	30
cis-1,3-Dichloropropene	2.00	1.85		ug/L		93	70 - 130	4	30
Dibromomethane	2.00	1.89		ug/L		94	70 - 130	3	30
Dichlorobromomethane	2.00	1.73		ug/L		86	70 - 130	5	30
Dichlorodifluoromethane	2.00	1.57		ug/L		78	70 - 130	4	30
Ethylbenzene	2.00	1.73		ug/L		86	70 - 130	2	30
Hexachlorobutadiene	2.00	1.63		ug/L		81	70 - 130	22	30
Isopropylbenzene	2.00	1.72		ug/L		86	70 - 130	3	30
Methyl tert-butyl ether	2.00	2.01		ug/L		100	70 - 130	2	30
Methylene Chloride	2.00	2.06		ug/L		103	70 - 130	3	30
Naphthalene	2.00	1.58		ug/L		79	70 - 130	6	30
n-Butylbenzene	2.00	1.69		ug/L		84	70 - 130	1	30
N-Propylbenzene	2.00	1.70		ug/L		85	70 - 130	2	30
sec-Butylbenzene	2.00	1.69		ug/L		84	70 - 130	4	30
Styrene	2.00	1.67		ug/L		84	70 - 130	3	30
tert-Butylbenzene	2.00	1.66		ug/L		83	70 - 130	4	30
Tetrachloroethene	2.00	1.65		ug/L		82	70 - 130	0	30
Toluene	2.00	1.70		ug/L		85	70 - 130	13	30
trans-1,2-Dichloroethene	2.00	2.18		ug/L		109	70 - 130	9	30
trans-1,3-Dichloropropene	2.00	1.65		ug/L		82	70 - 130	1	30
Trichloroethene	2.00	2.07		ug/L		103	70 - 130	7	30
Trichlorofluoromethane	2.00	1.92		ug/L		96	70 - 130	8	30
Vinyl chloride	2.00	1.67		ug/L		84	70 - 130	1	30
Xylenes, Total	6.00	5.04		ug/L		84	70 - 130	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichlorobenzene-d4	81		70 - 130
4-Bromofluorobenzene	96		70 - 130

**Lab Sample ID: 480-209286-4 MS**  
**Matrix: Water**  
**Analysis Batch: 913660**

**Client Sample ID: BW-01-05262023 MS**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		2.00	2.00		ug/L		100	70 - 130
1,1,1-Trichloroethane	ND		2.00	2.26		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	ND		2.00	2.23		ug/L		112	70 - 130
1,1,2-Trichloroethane	ND		2.00	2.14		ug/L		107	70 - 130
1,1-Dichloroethane	ND		2.00	2.11		ug/L		105	70 - 130
1,1-Dichloroethene	ND		2.00	2.34		ug/L		117	70 - 130
1,1-Dichloropropene	ND		2.00	2.22		ug/L		111	70 - 130
1,2,3-Trichlorobenzene	ND		2.00	1.65		ug/L		82	70 - 130
1,2,3-Trichloropropane	ND		2.00	2.28		ug/L		114	70 - 130

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# QC Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-209286-4 MS**

**Client Sample ID: BW-01-05262023 MS**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 913660**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,4-Trichlorobenzene	ND	*-	2.00	1.70		ug/L		85	70 - 130
1,2,4-Trimethylbenzene	ND		2.00	2.14		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	ND	*-	2.00	1.77		ug/L		89	70 - 130
1,2-Dibromoethane	ND		2.00	2.25		ug/L		112	70 - 130
1,2-Dichlorobenzene	ND		2.00	1.81		ug/L		90	70 - 130
1,2-Dichloroethane	ND		2.00	2.16		ug/L		108	70 - 130
1,2-Dichloropropane	ND		2.00	2.08		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	ND		2.00	2.08		ug/L		104	70 - 130
1,3-Dichlorobenzene	ND		2.00	1.89		ug/L		95	70 - 130
1,3-Dichloropropane	ND		2.00	2.16		ug/L		108	70 - 130
1,4-Dichlorobenzene	ND		2.00	1.82		ug/L		91	70 - 130
2,2-Dichloropropane	ND		2.00	2.11		ug/L		106	70 - 130
2-Butanone (MEK)	ND		10.0	10.0		ug/L		100	70 - 130
2-Chlorotoluene	ND		2.00	1.99		ug/L		100	70 - 130
2-Hexanone	ND	*-	10.0	8.65		ug/L		87	70 - 130
4-Chlorotoluene	ND		2.00	2.10		ug/L		105	70 - 130
4-Isopropyltoluene	ND		2.00	2.04		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		10.0	10.6		ug/L		106	70 - 130
Acetone	ND		10.0	9.28		ug/L		93	70 - 130
Benzene	ND		2.00	2.27		ug/L		113	70 - 130
Bromobenzene	ND		2.00	1.90		ug/L		95	70 - 130
Bromochloromethane	ND		2.00	2.16		ug/L		108	70 - 130
Bromoform	ND		2.00	1.86		ug/L		93	70 - 130
Bromomethane	ND	F1 *-	2.00	0.314	J F1	ug/L		16	70 - 130
Carbon disulfide	ND		2.00	2.35		ug/L		117	70 - 130
Carbon tetrachloride	ND		2.00	1.95		ug/L		97	70 - 130
Chlorobenzene	ND		2.00	2.06		ug/L		103	70 - 130
Chlorodibromomethane	ND		2.00	2.12		ug/L		106	70 - 130
Chloroethane	ND		2.00	2.20		ug/L		110	70 - 130
Chloroform	ND		2.00	2.10		ug/L		105	70 - 130
Chloromethane	ND	F1	2.00	1.41		ug/L		70	70 - 130
cis-1,2-Dichloroethene	ND		2.00	2.34		ug/L		117	70 - 130
cis-1,3-Dichloropropene	ND		2.00	2.06		ug/L		103	70 - 130
Dibromomethane	ND		2.00	2.17		ug/L		108	70 - 130
Dichlorobromomethane	ND		2.00	2.04		ug/L		102	70 - 130
Dichlorodifluoromethane	ND		2.00	1.52		ug/L		76	70 - 130
Ethylbenzene	ND		2.00	2.01		ug/L		101	70 - 130
Hexachlorobutadiene	ND	*-	2.00	1.70		ug/L		85	70 - 130
Isopropylbenzene	ND		2.00	2.02		ug/L		101	70 - 130
Methyl tert-butyl ether	ND		2.00	2.14		ug/L		107	70 - 130
Methylene Chloride	ND		2.00	2.18		ug/L		109	70 - 130
Naphthalene	ND		2.00	1.73		ug/L		87	70 - 130
n-Butylbenzene	ND		2.00	2.06		ug/L		103	70 - 130
N-Propylbenzene	ND		2.00	2.09		ug/L		104	70 - 130
sec-Butylbenzene	ND		2.00	2.05		ug/L		102	70 - 130
Styrene	ND		2.00	2.11		ug/L		105	70 - 130
tert-Butylbenzene	ND		2.00	2.17		ug/L		108	70 - 130
Tetrachloroethene	ND		2.00	1.82		ug/L		91	70 - 130
Toluene	ND		2.00	2.12		ug/L		106	70 - 130

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# QC Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-209286-4 MS**

**Client Sample ID: BW-01-05262023 MS**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 913660**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	ND		2.00	2.23		ug/L		111	70 - 130
trans-1,3-Dichloropropene	ND		2.00	1.77		ug/L		89	70 - 130
Trichloroethene	ND		2.00	2.18		ug/L		109	70 - 130
Trichlorofluoromethane	ND		2.00	1.80		ug/L		90	70 - 130
Vinyl chloride	ND		2.00	1.62		ug/L		81	70 - 130
Xylenes, Total	ND		6.00	6.17		ug/L		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichlorobenzene-d4	96		70 - 130
4-Bromofluorobenzene	110		70 - 130

**Lab Sample ID: 480-209286-4 MSD**

**Client Sample ID: BW-01-05262023 MSD**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 913660**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		2.00	1.97		ug/L		98	70 - 130	2	30
1,1,1-Trichloroethane	ND		2.00	2.24		ug/L		112	70 - 130	1	30
1,1,1,2-Tetrachloroethane	ND		2.00	2.04		ug/L		102	70 - 130	9	30
1,1,1-Trichloroethane	ND		2.00	2.21		ug/L		111	70 - 130	3	30
1,1-Dichloroethane	ND		2.00	2.15		ug/L		108	70 - 130	2	30
1,1-Dichloroethene	ND		2.00	2.37		ug/L		119	70 - 130	1	30
1,1-Dichloropropene	ND		2.00	2.33		ug/L		117	70 - 130	5	30
1,2,3-Trichlorobenzene	ND		2.00	1.86		ug/L		93	70 - 130	12	30
1,2,3-Trichloropropane	ND		2.00	2.06		ug/L		103	70 - 130	10	30
1,2,4-Trichlorobenzene	ND	*	2.00	1.84		ug/L		92	70 - 130	8	30
1,2,4-Trimethylbenzene	ND		2.00	2.18		ug/L		109	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	ND	*	2.00	2.25		ug/L		113	70 - 130	24	30
1,2-Dibromoethane	ND		2.00	2.13		ug/L		107	70 - 130	5	30
1,2-Dichlorobenzene	ND		2.00	1.88		ug/L		94	70 - 130	4	30
1,2-Dichloroethane	ND		2.00	2.08		ug/L		104	70 - 130	3	30
1,2-Dichloropropane	ND		2.00	2.14		ug/L		107	70 - 130	3	30
1,3,5-Trimethylbenzene	ND		2.00	2.14		ug/L		107	70 - 130	3	30
1,3-Dichlorobenzene	ND		2.00	1.91		ug/L		95	70 - 130	1	30
1,3-Dichloropropane	ND		2.00	2.26		ug/L		113	70 - 130	5	30
1,4-Dichlorobenzene	ND		2.00	1.89		ug/L		94	70 - 130	4	30
2,2-Dichloropropane	ND		2.00	2.08		ug/L		104	70 - 130	2	30
2-Butanone (MEK)	ND		10.0	10.9		ug/L		109	70 - 130	9	30
2-Chlorotoluene	ND		2.00	2.12		ug/L		106	70 - 130	6	30
2-Hexanone	ND	*	10.0	9.03		ug/L		90	70 - 130	4	30
4-Chlorotoluene	ND		2.00	2.17		ug/L		108	70 - 130	3	30
4-Isopropyltoluene	ND		2.00	2.11		ug/L		105	70 - 130	3	30
4-Methyl-2-pentanone (MIBK)	ND		10.0	10.9		ug/L		109	70 - 130	3	30
Acetone	ND		10.0	9.84		ug/L		98	70 - 130	6	30
Benzene	ND		2.00	2.21		ug/L		110	70 - 130	3	30
Bromobenzene	ND		2.00	1.91		ug/L		96	70 - 130	1	30
Bromochloromethane	ND		2.00	1.99		ug/L		99	70 - 130	8	30
Bromoform	ND		2.00	2.03		ug/L		102	70 - 130	9	30

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# QC Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-209286-4 MSD

Client Sample ID: BW-01-05262023 MSD

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 913660

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	ND	F1 *-	2.00	0.352	J F1	ug/L		18	70 - 130	11	30
Carbon disulfide	ND		2.00	2.31		ug/L		116	70 - 130	2	30
Carbon tetrachloride	ND		2.00	2.05		ug/L		102	70 - 130	5	30
Chlorobenzene	ND		2.00	2.00		ug/L		100	70 - 130	3	30
Chlorodibromomethane	ND		2.00	2.15		ug/L		108	70 - 130	2	30
Chloroethane	ND		2.00	2.14		ug/L		107	70 - 130	3	30
Chloroform	ND		2.00	2.12		ug/L		106	70 - 130	1	30
Chloromethane	ND	F1	2.00	1.34	F1	ug/L		67	70 - 130	5	30
cis-1,2-Dichloroethene	ND		2.00	2.20		ug/L		110	70 - 130	6	30
cis-1,3-Dichloropropene	ND		2.00	2.00		ug/L		100	70 - 130	3	30
Dibromomethane	ND		2.00	2.18		ug/L		109	70 - 130	0	30
Dichlorobromomethane	ND		2.00	2.18		ug/L		109	70 - 130	6	30
Dichlorodifluoromethane	ND		2.00	1.45		ug/L		72	70 - 130	5	30
Ethylbenzene	ND		2.00	2.01		ug/L		101	70 - 130	0	30
Hexachlorobutadiene	ND	*-	2.00	1.79		ug/L		90	70 - 130	6	30
Isopropylbenzene	ND		2.00	2.06		ug/L		103	70 - 130	2	30
Methyl tert-butyl ether	ND		2.00	2.21		ug/L		111	70 - 130	3	30
Methylene Chloride	ND		2.00	2.25		ug/L		112	70 - 130	3	30
Naphthalene	ND		2.00	2.05		ug/L		102	70 - 130	17	30
n-Butylbenzene	ND		2.00	2.27		ug/L		113	70 - 130	10	30
N-Propylbenzene	ND		2.00	2.13		ug/L		107	70 - 130	2	30
sec-Butylbenzene	ND		2.00	2.13		ug/L		107	70 - 130	4	30
Styrene	ND		2.00	2.11		ug/L		106	70 - 130	0	30
tert-Butylbenzene	ND		2.00	2.18		ug/L		109	70 - 130	1	30
Tetrachloroethene	ND		2.00	1.85		ug/L		93	70 - 130	2	30
Toluene	ND		2.00	2.07		ug/L		104	70 - 130	2	30
trans-1,2-Dichloroethene	ND		2.00	2.26		ug/L		113	70 - 130	1	30
trans-1,3-Dichloropropene	ND		2.00	1.98		ug/L		99	70 - 130	11	30
Trichloroethene	ND		2.00	2.25		ug/L		112	70 - 130	3	30
Trichlorofluoromethane	ND		2.00	1.84		ug/L		92	70 - 130	2	30
Vinyl chloride	ND		2.00	1.54		ug/L		77	70 - 130	5	30
Xylenes, Total	ND		6.00	5.96		ug/L		99	70 - 130	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichlorobenzene-d4	96		70 - 130
4-Bromofluorobenzene	115		70 - 130



# QC Association Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

## GC/MS VOA

### Analysis Batch: 913660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-209286-1	SW-01-05252023	Total/NA	Water	524.2	
480-209286-2	FD-05252023	Total/NA	Water	524.2	
480-209286-3	SPRING-052523	Total/NA	Water	524.2	
480-209286-3 - DL	SPRING-052523	Total/NA	Water	524.2	
480-209286-4	BW-01-05262023	Total/NA	Water	524.2	
480-209286-5	TB-05252023+25262023	Total/NA	Water	524.2	
MB 460-913660/8	Method Blank	Total/NA	Water	524.2	
LCS 460-913660/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 460-913660/5	Lab Control Sample Dup	Total/NA	Water	524.2	
480-209286-4 MS	BW-01-05262023 MS	Total/NA	Water	524.2	
480-209286-4 MSD	BW-01-05262023 MSD	Total/NA	Water	524.2	

# Lab Chronicle

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

**Client Sample ID: SW-01-05252023**

**Lab Sample ID: 480-209286-1**

Date Collected: 05/25/23 10:10

Matrix: Water

Date Received: 05/26/23 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	913660	SZD	EET EDI	06/06/23 13:36

**Client Sample ID: FD-05252023**

**Lab Sample ID: 480-209286-2**

Date Collected: 05/25/23 00:00

Matrix: Water

Date Received: 05/26/23 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	913660	SZD	EET EDI	06/06/23 13:59

**Client Sample ID: SPRING-052523**

**Lab Sample ID: 480-209286-3**

Date Collected: 05/25/23 10:30

Matrix: Water

Date Received: 05/26/23 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	913660	SZD	EET EDI	06/06/23 16:38
Total/NA	Analysis	524.2	DL	5	913660	SZD	EET EDI	06/06/23 17:01

**Client Sample ID: BW-01-05262023**

**Lab Sample ID: 480-209286-4**

Date Collected: 05/26/23 12:10

Matrix: Water

Date Received: 05/26/23 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	913660	SZD	EET EDI	06/06/23 14:22

**Client Sample ID: TB-05252023+25262023**

**Lab Sample ID: 480-209286-5**

Date Collected: 05/26/23 00:00

Matrix: Water

Date Received: 05/26/23 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	913660	SZD	EET EDI	06/06/23 12:51

**Laboratory References:**

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

# Accreditation/Certification Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

## Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	01-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-24
Georgia	State	12028 (NJ)	06-30-23
Massachusetts	State	M-NJ312	06-30-23
New Jersey	NELAP	12028	06-30-23
New York	NELAP	11452	04-01-24
Pennsylvania	NELAP	68-00522	03-01-24
Rhode Island	State	LAO00376	12-30-23
USDA	US Federal Programs	P330-20-00244	11-03-23

# Method Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-209286-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	EET EDI

**Protocol References:**

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

**Laboratory References:**

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900



# Sample Summary

Client: AECOM

Job ID: 480-209286-1

Project/Site: 60691198 - Wyoming County FTC

---

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
480-209286-1	SW-01-05252023	Water	05/25/23 10:10	05/26/23 14:05
480-209286-2	FD-05252023	Water	05/25/23 00:00	05/26/23 14:05
480-209286-3	SPRING-052523	Water	05/25/23 10:30	05/26/23 14:05
480-209286-4	BW-01-05262023	Water	05/26/23 12:10	05/26/23 14:05
480-209286-5	TB-05252023+25262023	Water	05/26/23 00:00	05/26/23 14:05

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# Chain of Custody Record

10 Hazelwood Drive  
Amherst, NY 14228-2298  
Phone 716-691-2600 Fax 716-691-7991

<b>Client Information</b>		Lab PM Schove, John R		Carrier Tracking No(s)		COC No 480-185562-33245 1	
Client Contact Collin Wasteneys		E-Mail John.Schove@et.eurofins.com		State of Origin		Page Page 1 of 1	
Company AECOM		PWISID		Job #		Job #	
Address 50 Lakefront Boulevard Suite 111		Due Date Requested:		Analysis Requested		Preservation Codes:	
City Buffalo		TAT Requested (days): STANDARD		524 2 Preserved - Standard Analyte list		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)	
State/Zip NY - 14202		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Field Filtered Sample (Yes or No)		Matrix	
Phone 148096		PO #		Perform MS/MSD (Yes or No)		W - Water S - Solid O - Wastewater BT - Tissue (A, AN)	
Email collin.wasteneys@aecom.com		WO #		S24 2 Preserved - Standard Analyte list		Total Number of Containers	
Project Name 60583042 - Wyoming County FTC		Project # 48005402		A		Special Instructions/Note:	
Site SSOW#		SSOW#		3		3	
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
SW-01-05252023		5/25/23		1010		G Water	
FD-05252023		5/25/23		-		G Water	
SPRING-052523		5/25/23		1630		G Water	
BW-01-05262023		5/26/23		1210		G Water	
BW-01-05262023 MS		5/26/23		1210		G Water	
BW-01-05262023 MSD		5/26/23		1210		G Water	
TB-05252023 + 05262023		5/26/23		-		G Water	
Matrix		Preservation Code:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
MATERIAL SPIKE		G		3		3	
MATERIAL SPIKE DUPLICATE		G		3		3	
TRIP BLANK		G		1		1	
<b>Possible Hazard Identification</b>		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Special Instructions/QC Requirements:	
Deliverable Requested 1, II, III, IV, Other (specify)		Empty Kit Relinquished by		Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months		Special Instructions/QC Requirements:	
Relinquished by		Date		Method of Shipment		Date/Time	
Relinquished by		5/26/23		DROPP OFF		5/26/23 1405	
Relinquished by		Date/Time		Company		Company	
Relinquished by		Date/Time		Company		Company	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No:		Cooler Temperature(s) °C and Other Remarks		517 # ICE	



## Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-209286-1

**Login Number: 209286**

**List Source: Eurofins Buffalo**

**List Number: 1**

**Creator: Sabuda, Brendan D**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.7 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



## Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-209286-1

**Login Number: 209286**

**List Number: 2**

**Creator: Armbruster, Chris**

**List Source: Eurofins Edison**

**List Creation: 06/01/23 01:18 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Memorandum

To Colin Wasteney Page 1

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CC

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Subject Analytical Data Review  
Wyoming County Fire Training Center Site  
July 2024 Groundwater Sampling Event

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From Ann Marie Kropovitch

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Date August 27, 2024

---

Three water samples, one field duplicate, and one trip blank were collected from the Wyoming County Fire Training Center Site on July 5, 2024 by AECOM and sent to Eurofins Laboratories, Inc. (Edison, NJ) for analysis. The samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC). The samples were analyzed for volatile organic compounds (VOCs) by USEPA Method 524.2. The analytical results were provided in Eurofins report number 480-221389-1.

In accordance with the *Site Management Plan*, a limited data review was performed on all samples for completeness of deliverables, and for compliance with method criteria, which includes reporting limits (RL), holding times, method blanks, surrogate recoveries, internal standard recoveries, and laboratory control sample (LCS) recoveries (%R).

All samples were analyzed within holding times, with compliant surrogate, internal standard, MS/MSD, and LCS recoveries with the following exceptions:

- The relative response factor of the continuing calibration exceeded the QC limit and showed a low bias for VOC idomethane. The results for this compound in all samples were qualified 'UJ.'
- The %Rs of the LCS/LCSD was above the QC limit for VOCs for acrylonitrile and tert-butyl alcohol. Since these compounds were not detected in the samples, and the %Rs in the LCS/LCSD are indicating a high bias, no qualification was added to the sample results.
- VOCs chloroform and total trihalomethanes were detected in the trip blank at a concentration greater than the method detection limit (MDL) but less than the reporting limit (RL). Since these compounds were not detected in the associated samples, no qualification of the sample results was necessary.

The relative percent differences between the parent sample SW-01-07052024/FD-07052024 were acceptable (i.e., < 25%), therefore no data qualification was necessary.

All data are usable as reported.



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Colin Wasteneys  
AECOM  
50 Lakefront Boulevard  
Suite 111  
Buffalo, New York 14202

Generated 7/18/2024 3:22:30 PM

## JOB DESCRIPTION

60691198 - Wyoming County FTC

## JOB NUMBER

480-221389-1

# Eurofins Buffalo

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

## Authorization



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7/18/2024 3:22:30 PM

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# Definitions/Glossary

Client: AECOM

Job ID: 480-221389-1

Project/Site: 60691198 - Wyoming County FTC

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: AECOM  
Project: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

**Job ID: 480-221389-1**

**Eurofins Buffalo**

## Job Narrative 480-221389-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The samples were received on 7/5/2024 12:35 PM. Unless otherwise noted below, the samples arrived in good condition. The temperature of the cooler at receipt time was 8.6°C.

### GC/MS VOA

Method 524.2\_Preserved: The continuing calibration verification (CCV) associated with batch 460-985552 recovered outside acceptance criteria for Iodomethane (biased low), t-Butanol and Acrylonitrile (biased high). A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 524.2\_Preserved: The laboratory control sample duplicate (LCSD) for analytical batch 460-985552 recovered outside control limits for the following analytes: Acrylonitrile and t-Butanol. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Buffalo

# Detection Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

## Client Sample ID: SW-01-07052024

Lab Sample ID: 480-221389-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.5		3.0	2.9	ug/L	1		524.2	Total/NA

## Client Sample ID: SPRING-07052024

Lab Sample ID: 480-221389-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.8		0.50	0.17	ug/L	1		524.2	Total/NA
1,1-Dichloroethane	1.5		0.50	0.14	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethane	3.2		0.50	0.14	ug/L	1		524.2	Total/NA
Tetrachloroethene	3.3		0.50	0.14	ug/L	1		524.2	Total/NA
Trichloroethene	1.6		0.50	0.11	ug/L	1		524.2	Total/NA

## Client Sample ID: BW-07052024

Lab Sample ID: 480-221389-3

No Detections.

## Client Sample ID: FD-07052024

Lab Sample ID: 480-221389-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.5		3.0	2.9	ug/L	1		524.2	Total/NA

## Client Sample ID: TRIP BLANK

Lab Sample ID: 480-221389-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.21	J	0.50	0.12	ug/L	1		524.2	Total/NA
Trihalomethanes, Total	0.21	J	0.50	0.080	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo



# Client Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

**Client Sample ID: SW-01-07052024**

**Lab Sample ID: 480-221389-1**

Date Collected: 07/05/24 08:15

Matrix: Water

Date Received: 07/05/24 12:35

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			07/17/24 09:19	1
1,1,1-Trichloroethane	ND		0.50	0.17	ug/L			07/17/24 09:19	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			07/17/24 09:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			07/17/24 09:19	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			07/17/24 09:19	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			07/17/24 09:19	1
1,1-Dichloroethene	ND		0.50	0.19	ug/L			07/17/24 09:19	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			07/17/24 09:19	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			07/17/24 09:19	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			07/17/24 09:19	1
1,2,4-Trichlorobenzene	ND		0.50	0.10	ug/L			07/17/24 09:19	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			07/17/24 09:19	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.35	ug/L			07/17/24 09:19	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			07/17/24 09:19	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			07/17/24 09:19	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			07/17/24 09:19	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/17/24 09:19	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			07/17/24 09:19	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			07/17/24 09:19	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			07/17/24 09:19	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			07/17/24 09:19	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			07/17/24 09:19	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			07/17/24 09:19	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			07/17/24 09:19	1
2-Hexanone	ND		2.5	1.1	ug/L			07/17/24 09:19	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			07/17/24 09:19	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			07/17/24 09:19	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			07/17/24 09:19	1
<b>Acetone</b>	<b>8.5</b>		3.0	2.9	ug/L			07/17/24 09:19	1
Acrylonitrile	ND		0.50	0.37	ug/L			07/17/24 09:19	1
Allyl chloride	ND		0.50	0.10	ug/L			07/17/24 09:19	1
Benzene	ND		0.50	0.11	ug/L			07/17/24 09:19	1
Bromobenzene	ND		0.50	0.070	ug/L			07/17/24 09:19	1
Bromochloromethane	ND		0.50	0.10	ug/L			07/17/24 09:19	1
Bromoform	ND		0.50	0.080	ug/L			07/17/24 09:19	1
Bromomethane	ND		0.50	0.31	ug/L			07/17/24 09:19	1
Carbon disulfide	ND		0.50	0.10	ug/L			07/17/24 09:19	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			07/17/24 09:19	1
Chlorobenzene	ND		0.50	0.10	ug/L			07/17/24 09:19	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			07/17/24 09:19	1
Chloroethane	ND		0.50	0.23	ug/L			07/17/24 09:19	1
Chloroform	ND		0.50	0.12	ug/L			07/17/24 09:19	1
Chloromethane	ND		0.50	0.18	ug/L			07/17/24 09:19	1
cis-1,2-Dichloroethene	ND		0.50	0.14	ug/L			07/17/24 09:19	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			07/17/24 09:19	1
Dibromomethane	ND		0.50	0.10	ug/L			07/17/24 09:19	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			07/17/24 09:19	1
Dichlorodifluoromethane	ND		0.50	0.30	ug/L			07/17/24 09:19	1
Ethyl ether	ND		0.50	0.14	ug/L			07/17/24 09:19	1

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

**Client Sample ID: SW-01-07052024**

**Lab Sample ID: 480-221389-1**

Date Collected: 07/05/24 08:15

Matrix: Water

Date Received: 07/05/24 12:35

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50	0.090	ug/L			07/17/24 09:19	1
Hexachlorobutadiene	ND		0.50	0.19	ug/L			07/17/24 09:19	1
Iodomethane	ND	UJ	0.50	0.033	ug/L			07/17/24 09:19	1
Isopropylbenzene	ND		0.50	0.14	ug/L			07/17/24 09:19	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			07/17/24 09:19	1
Methylene Chloride	ND		0.50	0.42	ug/L			07/17/24 09:19	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			07/17/24 09:19	1
Naphthalene	ND		0.50	0.080	ug/L			07/17/24 09:19	1
n-Butylbenzene	ND		0.50	0.14	ug/L			07/17/24 09:19	1
N-Propylbenzene	ND		0.50	0.14	ug/L			07/17/24 09:19	1
o-Xylene	ND		0.50	0.090	ug/L			07/17/24 09:19	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			07/17/24 09:19	1
Styrene	ND		0.50	0.090	ug/L			07/17/24 09:19	1
t-Butanol	ND		10	2.5	ug/L			07/17/24 09:19	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			07/17/24 09:19	1
Tetrachloroethene	ND		0.50	0.14	ug/L			07/17/24 09:19	1
Toluene	ND		0.50	0.11	ug/L			07/17/24 09:19	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/17/24 09:19	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			07/17/24 09:19	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			07/17/24 09:19	1
Trichloroethene	ND		0.50	0.11	ug/L			07/17/24 09:19	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			07/17/24 09:19	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			07/17/24 09:19	1
Vinyl chloride	ND		0.50	0.25	ug/L			07/17/24 09:19	1
Xylenes, Total	ND		0.50	0.32	ug/L			07/17/24 09:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	111		70 - 130		07/17/24 09:19	1
4-Bromofluorobenzene	98		70 - 130		07/17/24 09:19	1

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

**Client Sample ID: SPRING-07052024**

**Lab Sample ID: 480-221389-2**

Date Collected: 07/05/24 08:40

Matrix: Water

Date Received: 07/05/24 12:35

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			07/17/24 09:42	1
<b>1,1,1-Trichloroethane</b>	<b>2.8</b>		0.50	0.17	ug/L			07/17/24 09:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			07/17/24 09:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			07/17/24 09:42	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			07/17/24 09:42	1
<b>1,1-Dichloroethane</b>	<b>1.5</b>		0.50	0.14	ug/L			07/17/24 09:42	1
1,1-Dichloroethene	ND		0.50	0.19	ug/L			07/17/24 09:42	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			07/17/24 09:42	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			07/17/24 09:42	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			07/17/24 09:42	1
1,2,4-Trichlorobenzene	ND		0.50	0.10	ug/L			07/17/24 09:42	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			07/17/24 09:42	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.35	ug/L			07/17/24 09:42	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			07/17/24 09:42	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			07/17/24 09:42	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			07/17/24 09:42	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/17/24 09:42	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			07/17/24 09:42	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			07/17/24 09:42	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			07/17/24 09:42	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			07/17/24 09:42	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			07/17/24 09:42	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			07/17/24 09:42	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			07/17/24 09:42	1
2-Hexanone	ND		2.5	1.1	ug/L			07/17/24 09:42	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			07/17/24 09:42	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			07/17/24 09:42	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			07/17/24 09:42	1
Acetone	ND		3.0	2.9	ug/L			07/17/24 09:42	1
Acrylonitrile	ND		0.50	0.37	ug/L			07/17/24 09:42	1
Allyl chloride	ND		0.50	0.10	ug/L			07/17/24 09:42	1
Benzene	ND		0.50	0.11	ug/L			07/17/24 09:42	1
Bromobenzene	ND		0.50	0.070	ug/L			07/17/24 09:42	1
Bromochloromethane	ND		0.50	0.10	ug/L			07/17/24 09:42	1
Bromoform	ND		0.50	0.080	ug/L			07/17/24 09:42	1
Bromomethane	ND		0.50	0.31	ug/L			07/17/24 09:42	1
Carbon disulfide	ND		0.50	0.10	ug/L			07/17/24 09:42	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			07/17/24 09:42	1
Chlorobenzene	ND		0.50	0.10	ug/L			07/17/24 09:42	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			07/17/24 09:42	1
Chloroethane	ND		0.50	0.23	ug/L			07/17/24 09:42	1
Chloroform	ND		0.50	0.12	ug/L			07/17/24 09:42	1
Chloromethane	ND		0.50	0.18	ug/L			07/17/24 09:42	1
<b>cis-1,2-Dichloroethene</b>	<b>3.2</b>		0.50	0.14	ug/L			07/17/24 09:42	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			07/17/24 09:42	1
Dibromomethane	ND		0.50	0.10	ug/L			07/17/24 09:42	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			07/17/24 09:42	1
Dichlorodifluoromethane	ND		0.50	0.30	ug/L			07/17/24 09:42	1
Ethyl ether	ND		0.50	0.14	ug/L			07/17/24 09:42	1

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# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

**Client Sample ID: SPRING-07052024**

**Lab Sample ID: 480-221389-2**

Date Collected: 07/05/24 08:40

Matrix: Water

Date Received: 07/05/24 12:35

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50	0.090	ug/L			07/17/24 09:42	1
Hexachlorobutadiene	ND		0.50	0.19	ug/L			07/17/24 09:42	1
Iodomethane	ND	UJ	0.50	0.033	ug/L			07/17/24 09:42	1
Isopropylbenzene	ND		0.50	0.14	ug/L			07/17/24 09:42	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			07/17/24 09:42	1
Methylene Chloride	ND		0.50	0.42	ug/L			07/17/24 09:42	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			07/17/24 09:42	1
Naphthalene	ND		0.50	0.080	ug/L			07/17/24 09:42	1
n-Butylbenzene	ND		0.50	0.14	ug/L			07/17/24 09:42	1
N-Propylbenzene	ND		0.50	0.14	ug/L			07/17/24 09:42	1
o-Xylene	ND		0.50	0.090	ug/L			07/17/24 09:42	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			07/17/24 09:42	1
Styrene	ND		0.50	0.090	ug/L			07/17/24 09:42	1
t-Butanol	ND		10	2.5	ug/L			07/17/24 09:42	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			07/17/24 09:42	1
<b>Tetrachloroethene</b>	<b>3.3</b>		0.50	0.14	ug/L			07/17/24 09:42	1
Toluene	ND		0.50	0.11	ug/L			07/17/24 09:42	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/17/24 09:42	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			07/17/24 09:42	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			07/17/24 09:42	1
<b>Trichloroethene</b>	<b>1.6</b>		0.50	0.11	ug/L			07/17/24 09:42	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			07/17/24 09:42	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			07/17/24 09:42	1
Vinyl chloride	ND		0.50	0.25	ug/L			07/17/24 09:42	1
Xylenes, Total	ND		0.50	0.32	ug/L			07/17/24 09:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		70 - 130		07/17/24 09:42	1
4-Bromofluorobenzene	96		70 - 130		07/17/24 09:42	1

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

**Client Sample ID: BW-07052024**

**Lab Sample ID: 480-221389-3**

Date Collected: 07/05/24 11:30

Matrix: Water

Date Received: 07/05/24 12:35

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			07/17/24 10:05	1
1,1,1-Trichloroethane	ND		0.50	0.17	ug/L			07/17/24 10:05	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			07/17/24 10:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			07/17/24 10:05	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			07/17/24 10:05	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			07/17/24 10:05	1
1,1-Dichloroethene	ND		0.50	0.19	ug/L			07/17/24 10:05	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			07/17/24 10:05	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			07/17/24 10:05	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			07/17/24 10:05	1
1,2,4-Trichlorobenzene	ND		0.50	0.10	ug/L			07/17/24 10:05	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			07/17/24 10:05	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.35	ug/L			07/17/24 10:05	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			07/17/24 10:05	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			07/17/24 10:05	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			07/17/24 10:05	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/17/24 10:05	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			07/17/24 10:05	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			07/17/24 10:05	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			07/17/24 10:05	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			07/17/24 10:05	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			07/17/24 10:05	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			07/17/24 10:05	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			07/17/24 10:05	1
2-Hexanone	ND		2.5	1.1	ug/L			07/17/24 10:05	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			07/17/24 10:05	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			07/17/24 10:05	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			07/17/24 10:05	1
Acetone	ND		3.0	2.9	ug/L			07/17/24 10:05	1
Acrylonitrile	ND		0.50	0.37	ug/L			07/17/24 10:05	1
Allyl chloride	ND		0.50	0.10	ug/L			07/17/24 10:05	1
Benzene	ND		0.50	0.11	ug/L			07/17/24 10:05	1
Bromobenzene	ND		0.50	0.070	ug/L			07/17/24 10:05	1
Bromochloromethane	ND		0.50	0.10	ug/L			07/17/24 10:05	1
Bromoform	ND		0.50	0.080	ug/L			07/17/24 10:05	1
Bromomethane	ND		0.50	0.31	ug/L			07/17/24 10:05	1
Carbon disulfide	ND		0.50	0.10	ug/L			07/17/24 10:05	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			07/17/24 10:05	1
Chlorobenzene	ND		0.50	0.10	ug/L			07/17/24 10:05	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			07/17/24 10:05	1
Chloroethane	ND		0.50	0.23	ug/L			07/17/24 10:05	1
Chloroform	ND		0.50	0.12	ug/L			07/17/24 10:05	1
Chloromethane	ND		0.50	0.18	ug/L			07/17/24 10:05	1
cis-1,2-Dichloroethene	ND		0.50	0.14	ug/L			07/17/24 10:05	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			07/17/24 10:05	1
Dibromomethane	ND		0.50	0.10	ug/L			07/17/24 10:05	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			07/17/24 10:05	1
Dichlorodifluoromethane	ND		0.50	0.30	ug/L			07/17/24 10:05	1
Ethyl ether	ND		0.50	0.14	ug/L			07/17/24 10:05	1

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# Client Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

**Client Sample ID: BW-07052024**

**Lab Sample ID: 480-221389-3**

**Date Collected: 07/05/24 11:30**

**Matrix: Water**

**Date Received: 07/05/24 12:35**

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50	0.090	ug/L			07/17/24 10:05	1
Hexachlorobutadiene	ND		0.50	0.19	ug/L			07/17/24 10:05	1
Iodomethane	ND	UJ	0.50	0.033	ug/L			07/17/24 10:05	1
Isopropylbenzene	ND		0.50	0.14	ug/L			07/17/24 10:05	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			07/17/24 10:05	1
Methylene Chloride	ND		0.50	0.42	ug/L			07/17/24 10:05	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			07/17/24 10:05	1
Naphthalene	ND		0.50	0.080	ug/L			07/17/24 10:05	1
n-Butylbenzene	ND		0.50	0.14	ug/L			07/17/24 10:05	1
N-Propylbenzene	ND		0.50	0.14	ug/L			07/17/24 10:05	1
o-Xylene	ND		0.50	0.090	ug/L			07/17/24 10:05	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			07/17/24 10:05	1
Styrene	ND		0.50	0.090	ug/L			07/17/24 10:05	1
t-Butanol	ND		10	2.5	ug/L			07/17/24 10:05	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			07/17/24 10:05	1
Tetrachloroethene	ND		0.50	0.14	ug/L			07/17/24 10:05	1
Toluene	ND		0.50	0.11	ug/L			07/17/24 10:05	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/17/24 10:05	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			07/17/24 10:05	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			07/17/24 10:05	1
Trichloroethene	ND		0.50	0.11	ug/L			07/17/24 10:05	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			07/17/24 10:05	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			07/17/24 10:05	1
Vinyl chloride	ND		0.50	0.25	ug/L			07/17/24 10:05	1
Xylenes, Total	ND		0.50	0.32	ug/L			07/17/24 10:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	111		70 - 130		07/17/24 10:05	1
4-Bromofluorobenzene	99		70 - 130		07/17/24 10:05	1

# Client Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

**Client Sample ID: FD-07052024**

**Lab Sample ID: 480-221389-4**

Date Collected: 07/05/24 00:00

Matrix: Water

Date Received: 07/05/24 12:35

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			07/17/24 10:28	1
1,1,1-Trichloroethane	ND		0.50	0.17	ug/L			07/17/24 10:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			07/17/24 10:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			07/17/24 10:28	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			07/17/24 10:28	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			07/17/24 10:28	1
1,1-Dichloroethene	ND		0.50	0.19	ug/L			07/17/24 10:28	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			07/17/24 10:28	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			07/17/24 10:28	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			07/17/24 10:28	1
1,2,4-Trichlorobenzene	ND		0.50	0.10	ug/L			07/17/24 10:28	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			07/17/24 10:28	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.35	ug/L			07/17/24 10:28	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			07/17/24 10:28	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			07/17/24 10:28	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			07/17/24 10:28	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/17/24 10:28	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			07/17/24 10:28	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			07/17/24 10:28	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			07/17/24 10:28	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			07/17/24 10:28	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			07/17/24 10:28	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			07/17/24 10:28	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			07/17/24 10:28	1
2-Hexanone	ND		2.5	1.1	ug/L			07/17/24 10:28	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			07/17/24 10:28	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			07/17/24 10:28	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			07/17/24 10:28	1
<b>Acetone</b>	<b>7.5</b>		3.0	2.9	ug/L			07/17/24 10:28	1
Acrylonitrile	ND		0.50	0.37	ug/L			07/17/24 10:28	1
Allyl chloride	ND		0.50	0.10	ug/L			07/17/24 10:28	1
Benzene	ND		0.50	0.11	ug/L			07/17/24 10:28	1
Bromobenzene	ND		0.50	0.070	ug/L			07/17/24 10:28	1
Bromochloromethane	ND		0.50	0.10	ug/L			07/17/24 10:28	1
Bromoform	ND		0.50	0.080	ug/L			07/17/24 10:28	1
Bromomethane	ND		0.50	0.31	ug/L			07/17/24 10:28	1
Carbon disulfide	ND		0.50	0.10	ug/L			07/17/24 10:28	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			07/17/24 10:28	1
Chlorobenzene	ND		0.50	0.10	ug/L			07/17/24 10:28	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			07/17/24 10:28	1
Chloroethane	ND		0.50	0.23	ug/L			07/17/24 10:28	1
Chloroform	ND		0.50	0.12	ug/L			07/17/24 10:28	1
Chloromethane	ND		0.50	0.18	ug/L			07/17/24 10:28	1
cis-1,2-Dichloroethene	ND		0.50	0.14	ug/L			07/17/24 10:28	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			07/17/24 10:28	1
Dibromomethane	ND		0.50	0.10	ug/L			07/17/24 10:28	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			07/17/24 10:28	1
Dichlorodifluoromethane	ND		0.50	0.30	ug/L			07/17/24 10:28	1
Ethyl ether	ND		0.50	0.14	ug/L			07/17/24 10:28	1

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# Client Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

**Client Sample ID: FD-07052024**

**Lab Sample ID: 480-221389-4**

**Date Collected: 07/05/24 00:00**

**Matrix: Water**

**Date Received: 07/05/24 12:35**

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50	0.090	ug/L			07/17/24 10:28	1
Hexachlorobutadiene	ND		0.50	0.19	ug/L			07/17/24 10:28	1
Iodomethane	ND	UJ	0.50	0.033	ug/L			07/17/24 10:28	1
Isopropylbenzene	ND		0.50	0.14	ug/L			07/17/24 10:28	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			07/17/24 10:28	1
Methylene Chloride	ND		0.50	0.42	ug/L			07/17/24 10:28	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			07/17/24 10:28	1
Naphthalene	ND		0.50	0.080	ug/L			07/17/24 10:28	1
n-Butylbenzene	ND		0.50	0.14	ug/L			07/17/24 10:28	1
N-Propylbenzene	ND		0.50	0.14	ug/L			07/17/24 10:28	1
o-Xylene	ND		0.50	0.090	ug/L			07/17/24 10:28	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			07/17/24 10:28	1
Styrene	ND		0.50	0.090	ug/L			07/17/24 10:28	1
t-Butanol	ND		10	2.5	ug/L			07/17/24 10:28	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			07/17/24 10:28	1
Tetrachloroethene	ND		0.50	0.14	ug/L			07/17/24 10:28	1
Toluene	ND		0.50	0.11	ug/L			07/17/24 10:28	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/17/24 10:28	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			07/17/24 10:28	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			07/17/24 10:28	1
Trichloroethene	ND		0.50	0.11	ug/L			07/17/24 10:28	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			07/17/24 10:28	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			07/17/24 10:28	1
Vinyl chloride	ND		0.50	0.25	ug/L			07/17/24 10:28	1
Xylenes, Total	ND		0.50	0.32	ug/L			07/17/24 10:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	110		70 - 130		07/17/24 10:28	1
4-Bromofluorobenzene	96		70 - 130		07/17/24 10:28	1



# Client Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 480-221389-5**

Date Collected: 07/05/24 00:00

Matrix: Water

Date Received: 07/05/24 12:35

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			07/17/24 08:56	1
1,1,1-Trichloroethane	ND		0.50	0.17	ug/L			07/17/24 08:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			07/17/24 08:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			07/17/24 08:56	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			07/17/24 08:56	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			07/17/24 08:56	1
1,1-Dichloroethene	ND		0.50	0.19	ug/L			07/17/24 08:56	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			07/17/24 08:56	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			07/17/24 08:56	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			07/17/24 08:56	1
1,2,4-Trichlorobenzene	ND		0.50	0.10	ug/L			07/17/24 08:56	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			07/17/24 08:56	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.35	ug/L			07/17/24 08:56	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			07/17/24 08:56	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			07/17/24 08:56	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			07/17/24 08:56	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/17/24 08:56	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			07/17/24 08:56	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			07/17/24 08:56	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			07/17/24 08:56	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			07/17/24 08:56	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			07/17/24 08:56	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			07/17/24 08:56	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			07/17/24 08:56	1
2-Hexanone	ND		2.5	1.1	ug/L			07/17/24 08:56	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			07/17/24 08:56	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			07/17/24 08:56	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			07/17/24 08:56	1
Acetone	ND		3.0	2.9	ug/L			07/17/24 08:56	1
Acrylonitrile	ND		0.50	0.37	ug/L			07/17/24 08:56	1
Allyl chloride	ND		0.50	0.10	ug/L			07/17/24 08:56	1
Benzene	ND		0.50	0.11	ug/L			07/17/24 08:56	1
Bromobenzene	ND		0.50	0.070	ug/L			07/17/24 08:56	1
Bromochloromethane	ND		0.50	0.10	ug/L			07/17/24 08:56	1
Bromoform	ND		0.50	0.080	ug/L			07/17/24 08:56	1
Bromomethane	ND		0.50	0.31	ug/L			07/17/24 08:56	1
Carbon disulfide	ND		0.50	0.10	ug/L			07/17/24 08:56	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			07/17/24 08:56	1
Chlorobenzene	ND		0.50	0.10	ug/L			07/17/24 08:56	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			07/17/24 08:56	1
Chloroethane	ND		0.50	0.23	ug/L			07/17/24 08:56	1
<b>Chloroform</b>	<b>0.21</b>	<b>J</b>	0.50	0.12	ug/L			07/17/24 08:56	1
Chloromethane	ND		0.50	0.18	ug/L			07/17/24 08:56	1
cis-1,2-Dichloroethene	ND		0.50	0.14	ug/L			07/17/24 08:56	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			07/17/24 08:56	1
Dibromomethane	ND		0.50	0.10	ug/L			07/17/24 08:56	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			07/17/24 08:56	1
Dichlorodifluoromethane	ND		0.50	0.30	ug/L			07/17/24 08:56	1
Ethyl ether	ND		0.50	0.14	ug/L			07/17/24 08:56	1

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# Client Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 480-221389-5**

Date Collected: 07/05/24 00:00

Matrix: Water

Date Received: 07/05/24 12:35

**Method: EPA-DW 524.2 - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.50	0.090	ug/L			07/17/24 08:56	1
Hexachlorobutadiene	ND		0.50	0.19	ug/L			07/17/24 08:56	1
Iodomethane	ND	UJ	0.50	0.033	ug/L			07/17/24 08:56	1
Isopropylbenzene	ND		0.50	0.14	ug/L			07/17/24 08:56	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			07/17/24 08:56	1
Methylene Chloride	ND		0.50	0.42	ug/L			07/17/24 08:56	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			07/17/24 08:56	1
Naphthalene	ND		0.50	0.080	ug/L			07/17/24 08:56	1
n-Butylbenzene	ND		0.50	0.14	ug/L			07/17/24 08:56	1
N-Propylbenzene	ND		0.50	0.14	ug/L			07/17/24 08:56	1
o-Xylene	ND		0.50	0.090	ug/L			07/17/24 08:56	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			07/17/24 08:56	1
Styrene	ND		0.50	0.090	ug/L			07/17/24 08:56	1
t-Butanol	ND		10	2.5	ug/L			07/17/24 08:56	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			07/17/24 08:56	1
Tetrachloroethene	ND		0.50	0.14	ug/L			07/17/24 08:56	1
Toluene	ND		0.50	0.11	ug/L			07/17/24 08:56	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/17/24 08:56	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			07/17/24 08:56	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			07/17/24 08:56	1
Trichloroethene	ND		0.50	0.11	ug/L			07/17/24 08:56	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			07/17/24 08:56	1
<b>Trihalomethanes, Total</b>	<b>0.21</b>	<b>J</b>	0.50	0.080	ug/L			07/17/24 08:56	1
Vinyl chloride	ND		0.50	0.25	ug/L			07/17/24 08:56	1
Xylenes, Total	ND		0.50	0.32	ug/L			07/17/24 08:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		70 - 130		07/17/24 08:56	1
4-Bromofluorobenzene	93		70 - 130		07/17/24 08:56	1

# Surrogate Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCZ	BFB
		(70-130)	(70-130)
480-221389-1	SW-01-07052024	111	98
480-221389-2	SPRING-07052024	107	96
480-221389-3	BW-07052024	111	99
480-221389-4	FD-07052024	110	96
480-221389-5	TRIP BLANK	107	93
LCS 460-985552/14	Lab Control Sample	107	93
LCSD 460-985552/15	Lab Control Sample Dup	110	92
MB 460-985552/8	Method Blank	107	96

#### Surrogate Legend

DCZ = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene

# QC Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 460-985552/8**  
**Matrix: Water**  
**Analysis Batch: 985552**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.12	ug/L			07/17/24 08:32	1
1,1,1-Trichloroethane	ND		0.50	0.17	ug/L			07/17/24 08:32	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.15	ug/L			07/17/24 08:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.14	ug/L			07/17/24 08:32	1
1,1,2-Trichloroethane	ND		0.50	0.090	ug/L			07/17/24 08:32	1
1,1-Dichloroethane	ND		0.50	0.14	ug/L			07/17/24 08:32	1
1,1-Dichloroethene	ND		0.50	0.19	ug/L			07/17/24 08:32	1
1,1-Dichloropropene	ND		0.50	0.18	ug/L			07/17/24 08:32	1
1,2,3-Trichlorobenzene	ND		0.50	0.10	ug/L			07/17/24 08:32	1
1,2,3-Trichloropropane	ND		0.50	0.14	ug/L			07/17/24 08:32	1
1,2,4-Trichlorobenzene	ND		0.50	0.10	ug/L			07/17/24 08:32	1
1,2,4-Trimethylbenzene	ND		0.50	0.10	ug/L			07/17/24 08:32	1
1,2-Dibromo-3-Chloropropane	ND		0.50	0.35	ug/L			07/17/24 08:32	1
1,2-Dibromoethane	ND		0.50	0.13	ug/L			07/17/24 08:32	1
1,2-Dichlorobenzene	ND		0.50	0.11	ug/L			07/17/24 08:32	1
1,2-Dichloroethane	ND		0.50	0.11	ug/L			07/17/24 08:32	1
1,2-Dichloropropane	ND		0.50	0.11	ug/L			07/17/24 08:32	1
1,3,5-Trimethylbenzene	ND		0.50	0.12	ug/L			07/17/24 08:32	1
1,3-Dichlorobenzene	ND		0.50	0.090	ug/L			07/17/24 08:32	1
1,3-Dichloropropane	ND		0.50	0.090	ug/L			07/17/24 08:32	1
1,4-Dichlorobenzene	ND		0.50	0.090	ug/L			07/17/24 08:32	1
2,2-Dichloropropane	ND		0.50	0.15	ug/L			07/17/24 08:32	1
2-Butanone (MEK)	ND		2.5	1.1	ug/L			07/17/24 08:32	1
2-Chlorotoluene	ND		0.50	0.10	ug/L			07/17/24 08:32	1
2-Hexanone	ND		2.5	1.1	ug/L			07/17/24 08:32	1
4-Chlorotoluene	ND		0.50	0.11	ug/L			07/17/24 08:32	1
4-Isopropyltoluene	ND		0.50	0.13	ug/L			07/17/24 08:32	1
4-Methyl-2-pentanone (MIBK)	ND		2.5	1.0	ug/L			07/17/24 08:32	1
Acetone	ND		3.0	2.9	ug/L			07/17/24 08:32	1
Acrylonitrile	ND		0.50	0.37	ug/L			07/17/24 08:32	1
Allyl chloride	ND		0.50	0.10	ug/L			07/17/24 08:32	1
Benzene	ND		0.50	0.11	ug/L			07/17/24 08:32	1
Bromobenzene	ND		0.50	0.070	ug/L			07/17/24 08:32	1
Bromochloromethane	ND		0.50	0.10	ug/L			07/17/24 08:32	1
Bromoform	ND		0.50	0.080	ug/L			07/17/24 08:32	1
Bromomethane	ND		0.50	0.31	ug/L			07/17/24 08:32	1
Carbon disulfide	ND		0.50	0.10	ug/L			07/17/24 08:32	1
Carbon tetrachloride	ND		0.50	0.17	ug/L			07/17/24 08:32	1
Chlorobenzene	ND		0.50	0.10	ug/L			07/17/24 08:32	1
Chlorodibromomethane	ND		0.50	0.15	ug/L			07/17/24 08:32	1
Chloroethane	ND		0.50	0.23	ug/L			07/17/24 08:32	1
Chloroform	ND		0.50	0.12	ug/L			07/17/24 08:32	1
Chloromethane	ND		0.50	0.18	ug/L			07/17/24 08:32	1
cis-1,2-Dichloroethene	ND		0.50	0.14	ug/L			07/17/24 08:32	1
cis-1,3-Dichloropropene	ND		0.50	0.18	ug/L			07/17/24 08:32	1
Dibromomethane	ND		0.50	0.10	ug/L			07/17/24 08:32	1
Dichlorobromomethane	ND		0.50	0.090	ug/L			07/17/24 08:32	1
Dichlorodifluoromethane	ND		0.50	0.30	ug/L			07/17/24 08:32	1

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# QC Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 460-985552/8**  
**Matrix: Water**  
**Analysis Batch: 985552**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	ND		0.50	0.14	ug/L			07/17/24 08:32	1
Ethylbenzene	ND		0.50	0.090	ug/L			07/17/24 08:32	1
Hexachlorobutadiene	ND		0.50	0.19	ug/L			07/17/24 08:32	1
Iodomethane	ND		0.50	0.033	ug/L			07/17/24 08:32	1
Isopropylbenzene	ND		0.50	0.14	ug/L			07/17/24 08:32	1
Methyl tert-butyl ether	ND		0.50	0.24	ug/L			07/17/24 08:32	1
Methylene Chloride	ND		0.50	0.42	ug/L			07/17/24 08:32	1
m-Xylene & p-Xylene	ND		1.0	0.24	ug/L			07/17/24 08:32	1
Naphthalene	ND		0.50	0.080	ug/L			07/17/24 08:32	1
n-Butylbenzene	ND		0.50	0.14	ug/L			07/17/24 08:32	1
N-Propylbenzene	ND		0.50	0.14	ug/L			07/17/24 08:32	1
o-Xylene	ND		0.50	0.090	ug/L			07/17/24 08:32	1
sec-Butylbenzene	ND		0.50	0.15	ug/L			07/17/24 08:32	1
Styrene	ND		0.50	0.090	ug/L			07/17/24 08:32	1
t-Butanol	ND		10	2.5	ug/L			07/17/24 08:32	1
tert-Butylbenzene	ND		0.50	0.16	ug/L			07/17/24 08:32	1
Tetrachloroethene	ND		0.50	0.14	ug/L			07/17/24 08:32	1
Toluene	ND		0.50	0.11	ug/L			07/17/24 08:32	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			07/17/24 08:32	1
trans-1,3-Dichloropropene	ND		0.50	0.13	ug/L			07/17/24 08:32	1
trans-1,4-Dichloro-2-butene	ND		0.50	0.28	ug/L			07/17/24 08:32	1
Trichloroethene	ND		0.50	0.11	ug/L			07/17/24 08:32	1
Trichlorofluoromethane	ND		0.50	0.27	ug/L			07/17/24 08:32	1
Trihalomethanes, Total	ND		0.50	0.080	ug/L			07/17/24 08:32	1
Vinyl chloride	ND		0.50	0.25	ug/L			07/17/24 08:32	1
Xylenes, Total	ND		0.50	0.32	ug/L			07/17/24 08:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene-d4	107		70 - 130		07/17/24 08:32	1
4-Bromofluorobenzene	96		70 - 130		07/17/24 08:32	1

**Lab Sample ID: LCS 460-985552/14**  
**Matrix: Water**  
**Analysis Batch: 985552**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	2.00	1.84		ug/L		92	70 - 130
1,1,1-Trichloroethane	2.00	1.91		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.24		ug/L		112	70 - 130
1,1,2-Trichloroethane	2.00	2.13		ug/L		106	70 - 130
1,1-Dichloroethane	2.00	2.22		ug/L		111	70 - 130
1,1-Dichloroethene	2.00	2.01		ug/L		100	70 - 130
1,1-Dichloropropene	2.00	2.03		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	2.00	2.09		ug/L		104	70 - 130
1,2,3-Trichloropropane	2.00	2.09		ug/L		104	70 - 130
1,2,4-Trichlorobenzene	2.00	1.98		ug/L		99	70 - 130
1,2,4-Trimethylbenzene	2.00	1.96		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	2.00	1.96		ug/L		98	70 - 130

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# QC Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 460-985552/14**  
**Matrix: Water**  
**Analysis Batch: 985552**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	2.00	1.92		ug/L		96	70 - 130
1,2-Dichlorobenzene	2.00	2.10		ug/L		105	70 - 130
1,2-Dichloroethane	2.00	2.05		ug/L		103	70 - 130
1,2-Dichloropropane	2.00	2.23		ug/L		112	70 - 130
1,3,5-Trimethylbenzene	2.00	1.95		ug/L		97	70 - 130
1,3-Dichlorobenzene	2.00	2.19		ug/L		110	70 - 130
1,3-Dichloropropane	2.00	2.31		ug/L		116	70 - 130
1,4-Dichlorobenzene	2.00	2.20		ug/L		110	70 - 130
2,2-Dichloropropane	2.00	1.93		ug/L		97	70 - 130
2-Butanone (MEK)	10.0	11.7		ug/L		117	70 - 130
2-Chlorotoluene	2.00	2.09		ug/L		105	70 - 130
2-Hexanone	10.0	11.6		ug/L		116	70 - 130
4-Chlorotoluene	2.00	2.05		ug/L		102	70 - 130
4-Isopropyltoluene	2.00	1.90		ug/L		95	70 - 130
4-Methyl-2-pentanone (MIBK)	10.0	11.1		ug/L		111	70 - 130
Acetone	10.0	12.1		ug/L		121	70 - 130
Benzene	2.00	2.22		ug/L		111	70 - 130
Bromobenzene	2.00	2.09		ug/L		104	70 - 130
Bromochloromethane	2.00	2.06		ug/L		103	70 - 130
Bromoform	2.00	1.80		ug/L		90	70 - 130
Bromomethane	2.00	1.56		ug/L		78	70 - 130
Carbon disulfide	2.00	1.94		ug/L		97	70 - 130
Carbon tetrachloride	2.00	1.82		ug/L		91	70 - 130
Chlorobenzene	2.00	2.02		ug/L		101	70 - 130
Chlorodibromomethane	2.00	1.86		ug/L		93	70 - 130
Chloroethane	2.00	2.23		ug/L		112	70 - 130
Chloroform	2.00	2.22		ug/L		111	70 - 130
Chloromethane	2.00	2.34		ug/L		117	70 - 130
cis-1,2-Dichloroethene	2.00	2.12		ug/L		106	70 - 130
cis-1,3-Dichloropropene	2.00	1.69		ug/L		84	70 - 130
Dibromomethane	2.00	2.08		ug/L		104	70 - 130
Dichlorobromomethane	2.00	1.96		ug/L		98	70 - 130
Dichlorodifluoromethane	2.00	1.99		ug/L		100	70 - 130
Ethylbenzene	2.00	1.99		ug/L		100	70 - 130
Hexachlorobutadiene	2.00	1.81		ug/L		90	70 - 130
Isopropylbenzene	2.00	1.98		ug/L		99	70 - 130
Methyl tert-butyl ether	2.00	2.20		ug/L		110	70 - 130
Methylene Chloride	2.00	2.14		ug/L		107	70 - 130
Naphthalene	2.00	2.15		ug/L		108	70 - 130
n-Butylbenzene	2.00	1.98		ug/L		99	70 - 130
N-Propylbenzene	2.00	1.99		ug/L		100	70 - 130
sec-Butylbenzene	2.00	1.93		ug/L		97	70 - 130
Styrene	2.00	1.90		ug/L		95	70 - 130
tert-Butylbenzene	2.00	1.90		ug/L		95	70 - 130
Tetrachloroethene	2.00	2.07		ug/L		103	70 - 130
Toluene	2.00	1.92		ug/L		96	70 - 130
trans-1,2-Dichloroethene	2.00	2.03		ug/L		102	70 - 130
trans-1,3-Dichloropropene	2.00	1.72		ug/L		86	70 - 130
Trichloroethene	2.00	2.08		ug/L		104	70 - 130

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# QC Sample Results

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 460-985552/14**  
**Matrix: Water**  
**Analysis Batch: 985552**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichlorofluoromethane	2.00	1.85		ug/L		92	70 - 130
Vinyl chloride	2.00	2.53		ug/L		127	70 - 130
Xylenes, Total	6.00	5.96		ug/L		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichlorobenzene-d4	107		70 - 130
4-Bromofluorobenzene	93		70 - 130

**Lab Sample ID: LCSD 460-985552/15**  
**Matrix: Water**  
**Analysis Batch: 985552**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	2.00	1.92		ug/L		96	70 - 130	4	30
1,1,1-Trichloroethane	2.00	1.89		ug/L		95	70 - 130	1	30
1,1,2,2-Tetrachloroethane	2.00	2.30		ug/L		115	70 - 130	3	30
1,1,2-Trichloroethane	2.00	2.14		ug/L		107	70 - 130	1	30
1,1-Dichloroethane	2.00	2.15		ug/L		108	70 - 130	3	30
1,1-Dichloroethene	2.00	1.94		ug/L		97	70 - 130	3	30
1,1-Dichloropropene	2.00	2.02		ug/L		101	70 - 130	1	30
1,2,3-Trichlorobenzene	2.00	2.24		ug/L		112	70 - 130	7	30
1,2,3-Trichloropropane	2.00	2.10		ug/L		105	70 - 130	0	30
1,2,4-Trichlorobenzene	2.00	2.14		ug/L		107	70 - 130	8	30
1,2,4-Trimethylbenzene	2.00	1.94		ug/L		97	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	2.00	2.04		ug/L		102	70 - 130	4	30
1,2-Dibromoethane	2.00	1.97		ug/L		98	70 - 130	2	30
1,2-Dichlorobenzene	2.00	2.15		ug/L		107	70 - 130	2	30
1,2-Dichloroethane	2.00	2.04		ug/L		102	70 - 130	1	30
1,2-Dichloropropane	2.00	2.24		ug/L		112	70 - 130	0	30
1,3,5-Trimethylbenzene	2.00	1.90		ug/L		95	70 - 130	3	30
1,3-Dichlorobenzene	2.00	2.23		ug/L		112	70 - 130	2	30
1,3-Dichloropropane	2.00	2.31		ug/L		115	70 - 130	0	30
1,4-Dichlorobenzene	2.00	2.30		ug/L		115	70 - 130	5	30
2,2-Dichloropropane	2.00	1.91		ug/L		95	70 - 130	1	30
2-Butanone (MEK)	10.0	12.8		ug/L		128	70 - 130	9	30
2-Chlorotoluene	2.00	2.02		ug/L		101	70 - 130	4	30
2-Hexanone	10.0	12.2		ug/L		122	70 - 130	5	30
4-Chlorotoluene	2.00	1.99		ug/L		100	70 - 130	3	30
4-Isopropyltoluene	2.00	1.92		ug/L		96	70 - 130	1	30
4-Methyl-2-pentanone (MIBK)	10.0	11.9		ug/L		119	70 - 130	7	30
Acetone	10.0	12.2		ug/L		122	70 - 130	1	30
Benzene	2.00	2.23		ug/L		112	70 - 130	1	30
Bromobenzene	2.00	2.06		ug/L		103	70 - 130	1	30
Bromochloromethane	2.00	1.98		ug/L		99	70 - 130	4	30
Bromoform	2.00	1.82		ug/L		91	70 - 130	1	30
Bromomethane	2.00	2.07		ug/L		104	70 - 130	28	30
Carbon disulfide	2.00	1.92		ug/L		96	70 - 130	1	30
Carbon tetrachloride	2.00	1.76		ug/L		88	70 - 130	3	30

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# QC Sample Results

Client: AECOM  
 Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

## Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 460-985552/15**  
**Matrix: Water**  
**Analysis Batch: 985552**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorobenzene	2.00	2.01		ug/L		100	70 - 130	1	30
Chlorodibromomethane	2.00	1.89		ug/L		95	70 - 130	2	30
Chloroethane	2.00	2.34		ug/L		117	70 - 130	5	30
Chloroform	2.00	2.12		ug/L		106	70 - 130	5	30
Chloromethane	2.00	2.44		ug/L		122	70 - 130	4	30
cis-1,2-Dichloroethene	2.00	2.15		ug/L		108	70 - 130	2	30
cis-1,3-Dichloropropene	2.00	1.83		ug/L		91	70 - 130	8	30
Dibromomethane	2.00	2.09		ug/L		105	70 - 130	1	30
Dichlorobromomethane	2.00	1.91		ug/L		95	70 - 130	3	30
Dichlorodifluoromethane	2.00	2.00		ug/L		100	70 - 130	0	30
Ethylbenzene	2.00	2.02		ug/L		101	70 - 130	1	30
Hexachlorobutadiene	2.00	1.98		ug/L		99	70 - 130	9	30
Isopropylbenzene	2.00	1.94		ug/L		97	70 - 130	2	30
Methyl tert-butyl ether	2.00	2.31		ug/L		116	70 - 130	5	30
Methylene Chloride	2.00	2.13		ug/L		107	70 - 130	0	30
Naphthalene	2.00	2.37		ug/L		118	70 - 130	10	30
n-Butylbenzene	2.00	1.98		ug/L		99	70 - 130	0	30
N-Propylbenzene	2.00	2.02		ug/L		101	70 - 130	2	30
sec-Butylbenzene	2.00	1.98		ug/L		99	70 - 130	3	30
Styrene	2.00	1.86		ug/L		93	70 - 130	2	30
tert-Butylbenzene	2.00	1.88		ug/L		94	70 - 130	1	30
Tetrachloroethene	2.00	2.00		ug/L		100	70 - 130	3	30
Toluene	2.00	1.98		ug/L		99	70 - 130	3	30
trans-1,2-Dichloroethene	2.00	2.05		ug/L		102	70 - 130	1	30
trans-1,3-Dichloropropene	2.00	1.77		ug/L		89	70 - 130	3	30
Trichloroethene	2.00	2.05		ug/L		103	70 - 130	1	30
Trichlorofluoromethane	2.00	1.83		ug/L		91	70 - 130	1	30
Vinyl chloride	2.00	2.54		ug/L		127	70 - 130	0	30
Xylenes, Total	6.00	5.89		ug/L		98	70 - 130	1	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichlorobenzene-d4	110		70 - 130
4-Bromofluorobenzene	92		70 - 130



# QC Association Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

## GC/MS VOA

### Analysis Batch: 985552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221389-1	SW-01-07052024	Total/NA	Water	524.2	
480-221389-2	SPRING-07052024	Total/NA	Water	524.2	
480-221389-3	BW-07052024	Total/NA	Water	524.2	
480-221389-4	FD-07052024	Total/NA	Water	524.2	
480-221389-5	TRIP BLANK	Total/NA	Water	524.2	
MB 460-985552/8	Method Blank	Total/NA	Water	524.2	
LCS 460-985552/14	Lab Control Sample	Total/NA	Water	524.2	
LCSD 460-985552/15	Lab Control Sample Dup	Total/NA	Water	524.2	

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# Lab Chronicle

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

**Client Sample ID: SW-01-07052024**

**Lab Sample ID: 480-221389-1**

Date Collected: 07/05/24 08:15

Matrix: Water

Date Received: 07/05/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	985552	SZD	EET EDI	07/17/24 09:19

**Client Sample ID: SPRING-07052024**

**Lab Sample ID: 480-221389-2**

Date Collected: 07/05/24 08:40

Matrix: Water

Date Received: 07/05/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	985552	SZD	EET EDI	07/17/24 09:42

**Client Sample ID: BW-07052024**

**Lab Sample ID: 480-221389-3**

Date Collected: 07/05/24 11:30

Matrix: Water

Date Received: 07/05/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	985552	SZD	EET EDI	07/17/24 10:05

**Client Sample ID: FD-07052024**

**Lab Sample ID: 480-221389-4**

Date Collected: 07/05/24 00:00

Matrix: Water

Date Received: 07/05/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	985552	SZD	EET EDI	07/17/24 10:28

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 480-221389-5**

Date Collected: 07/05/24 00:00

Matrix: Water

Date Received: 07/05/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	524.2		1	985552	SZD	EET EDI	07/17/24 08:56

**Laboratory References:**

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

# Accreditation/Certification Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

## Laboratory: Eurofins Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	09-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-02-25
Georgia	State	12028 (NJ)	07-01-25
Massachusetts	State	M-NJ312	07-01-25
New Jersey	NELAP	12028	06-30-25
New York	NELAP	11452	04-01-25
Pennsylvania	NELAP	68-00522	02-28-25
Rhode Island	State	LAO00376	12-31-24
USDA	US Federal Programs	525-24-149-77606	05-21-27

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# Method Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	EET EDI

**Protocol References:**

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

**Laboratory References:**

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900



# Sample Summary

Client: AECOM  
Project/Site: 60691198 - Wyoming County FTC

Job ID: 480-221389-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-221389-1	SW-01-07052024	Water	07/05/24 08:15	07/05/24 12:35
480-221389-2	SPRING-07052024	Water	07/05/24 08:40	07/05/24 12:35
480-221389-3	BW-07052024	Water	07/05/24 11:30	07/05/24 12:35
480-221389-4	FD-07052024	Water	07/05/24 00:00	07/05/24 12:35
480-221389-5	TRIP BLANK	Water	07/05/24 00:00	07/05/24 12:35

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**Eurofins Buffalo**  
 10 Hazelwood Drive  
 Amherst, NY 14228-2298  
 Phone: 716-691-2600 Fax: 716-691-7991

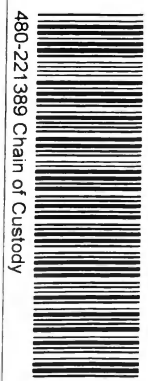
**Chain of Custody Record**



<b>Client Information</b>	Client Contact: Colin Wasteneys Company: AECOM	Lab PM: Schove, John R E-Mail: John.Schove@et.eurofins.com	Carrier Tracking No(s):	COC No: 480-197411-33245.1 Page 1 of 1
Address: 50 Lakefront Boulevard Suite 111 City: Buffalo State, Zip: NY, 14202	Phone: 585-317-6137	State of Origin:	Job #:	Preservation Codes: A - HCL
Due Date Requested: 5/19	TAT Requested (days): PLS PD	Analysis Requested:	Special Instructions/Note:	

Project Name: 60583042 - Wyoming County FTC	Project #: 48005402	Project #:	Project #:
Site: S50W#	SSOW#:	WO #:	SSOW#:
Email: colin.wasteneys@aecom.com	colin.wasteneys@aecom.com	Project #:	Project #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Sewage, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note:
SW-01-07052024	7/5/24	0815	G	Water	X	A	3	
Sprins-07052024		0840		Water	X		3	
Bw-07052024		1130		Water	X		3	
FD-07052024				Water	X		3	
CRP Blank				Water	X		1	



480-221389 Chain of Custody

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished by: *John Schove* Date/Time: 7/5/24 1235 Company: AECOM

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No

Custody Seal No.: \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks: 8.10 #1 IFE

# Chain of Custody Record



Environment Testing



<b>Client Information (Sub Contract Lab)</b>		Lab Piv: Schove, John R	Carrier Tracking No(s):	COC No: 480-88351-1
Client Contact: Shipping/Receiving		E-Mail: John.Schove@et.eurofins.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast, 777 New Durham Road,		Accreditations Required (See note): NELAP New York	Job #: 480-221389-1	Preservation Codes:
Address: 777 New Durham Road,		Due Date Requested: 7/18/2024	Analysis Requested:	
City: Edison		TAT Requested (days):	Total Number of Containers	
State Zip: NJ 08817		PO #:	524.2 Preserved/ 524.2	
Phone: 732-549-3900(Tel) 732-549-3679(Fax)		WO #:	Perform MS/MSD (Yes or No)	
Email:		Project #: 48005402	Field Filtered Sample (Yes or No)	
Client Contact: 60691198 Wyoming County FTC		SSOW#:	Special Instructions/Note:	
Site:			Other	

Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, A=air)	Preservation Code	524.2 Preserved/ 524.2	Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	Total Number of Containers	Special Instructions/Note:
SW-01-07052024 (480-221389-1)		7/5/24	08:15 Eastern	Water	Water		X	X	X	3	
SPRING-07052024 (480-221389-2)		7/5/24	08:40 Eastern	Water	Water		X	X	X	3	
BW-07052024 (480-221389-3)		7/5/24	11:30 Eastern	Water	Water		X	X	X	3	
FD-07052024 (480-221389-4)		7/5/24	Eastern	Water	Water		X	X	X	3	
TRIP BLANK (480-221389-5)		7/5/24	Eastern	Water	Water		X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing Northeast, LLC.

**Possible Hazard Identification**  
 Unconfirmed

Deliverable Requested I, II, III, IV Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: [Signature] Date: 7/19/24 16:00 Company: [Signature] Company

Relinquished by: [Signature] Date/Time: 7/19/24 16:00 Company: [Signature] Company

Relinquished by: [Signature] Date/Time: [Signature] Company

Custody Seal No. 257998  
 Yes A No

Received by: [Signature] Date/Time: 7/10/24 10:40 Company: FEI/EL Company

Received by: [Signature] Date/Time: [Signature] Company

Received by: [Signature] Date/Time: [Signature] Company

Cooler Temperature(s) °C and Other Remarks: 1.3/1.7°C IR9

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For Months

Special Instructions/QC Requirements:



# Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-221389-1

**Login Number: 221389**

**List Source: Eurofins Buffalo**

**List Number: 1**

**Creator: Yeager, Brian A**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AECOM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	





# Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-221389-1

**Login Number: 221389**

**List Number: 2**

**Creator: Armbruster, Chris**

**List Source: Eurofins Edison**

**List Creation: 07/10/24 12:19 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	257998
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.3/1.7°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

