FINAL
2023 SITE INSPECTION REPORT
UNDERGROUND STORAGE TANK
SITES CTU006; CTU007; CTU008; AND CTU011, CTU012, CTU013
FORMER GENERAL MITCHELL AIR RESERVE STATION, WISCONSIN

MIDWEST GROUP
BASE REALIGNMENT AND CLOSURE (BRAC) ENVIRONMENTAL CONSTRUCTION OPTIMIZATION SERVICES (BECOS) CONTRACT

Contract Number: FA890316D0053
Task Order: FA890321F1088

Prepared for:

Air Force Civil Engineer Center
2261 Hughes Avenue, Suite 155
Joint Base San Antonio
Lackland, TX 78236-9853

Prepared by:

CTI-URS
Environmental Services, LLC

6565 Americas Parkway NE, Suite 200
Albuquerque, NM 87110

May 2024

This page intentionally left blank.

EXECUTIVE SUMMARY

Former General Mitchell Air Reserve Station (ARS) is located approximately 7 miles south of downtown Milwaukee, Wisconsin, on the southern portion of Milwaukee Mitchell International Airport (MMIA), is approximately 102 acres, and operated from 1952 to 1995. The MMIA is owned and operated by Milwaukee County. The ARS was formerly operated concurrently with MMIA.

General Mitchell ARS officially closed on 2 February 2008 as part of the 2005 Base Realignment and Closure (BRAC) Commission, and all personnel in the 440th Airlift Wing at General Mitchell ARS were transferred to Pope Air Force Base (AFB) in North Carolina. Currently, the former General Mitchell ARS is home to Milwaukee County's MKE Regional Business Park. The MKE Regional Business Park leases hangar and office space in support of MMIA and other customers.

The projected future land use of the facility is for development of an air cargo facility (South Cargo Logistics Hub). The South Cargo Logistics Hub project will be handled by real estate firm CBRE and developed by investment company Crow Holdings on behalf of the MMIA. Phase 1 of the proposed project will consist of a 288,000-square foot (ft^2) building with 74 docks, 99 trailer stalls, and 305 car parking stalls. Sigma has been coordinating Phase I/II Environmental Site Assessments in conjunction with the project development. Project delivery is expected in the second half of 2024. Land use will remain commercial/industrial.

Site Investigation activities were conducted between 30 January 2023 and 20 February 2023 at four former underground storage tank (UST) sites to confirm the presence and nature, or absence, in soil, groundwater, and soil vapor of contaminants of potential concern (COPC) at concentrations exceeding Project Screening Levels (PSLs). Contamination was documented during tank removal activities conducted in 1994, 1995, and 1998. As part of the SI, data were collected to determine if the four former UST sites can be closed with the Wisconsin Department of Natural Resources (WDNR), or if additional actions are necessary to address any impacts above PSLs prior to closure. The COPCs include volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and/or lead. The four former UST locations include:

- CTU006 (UST 212)
- CTU007 (UST 215 (Tank 2)
- CTU008 (UST 219)
- CTU011, CTU012, and CTU013 (UST 8002)

The SI included the following investigation activities:

- Soil sampling at 33 sample locations.
- Installation and sampling of 13 temporary groundwater monitoring wells.
- Installation and sampling of 6 soil vapor probes.

Soil, groundwater, and soil vapor sample results were compared to PSLs to identify COPC exceedances. The PSLs are WDNR NR 720 Non-Industrial and Industrial Direct Contact and Soil-to-Groundwater Pathway Residual Contaminant Levels (RCLs) for soil, NR 140 Enforcement Standards (ESs) and

Preventive Action Limits (PALs) for groundwater, and Residential, Small Commercial, and Large Commercial Building Vapor Risk Screening Levels (VRSLs) for soil vapor.

The results of the SI indicate that each of the four sites have soil impacted above PSLs that require further action to achieve case closure without continuing obligations. Soil vapor sample results from sites CTU006 and CTU008 indicate detections of VOCs, but none at concentrations above the VRSLs. At all but site CTU007, groundwater sample results indicate COPC concentrations greater than the PSLs.

Soil removal with post-excavation confirmation sampling to demonstrate that remaining soil is below applicable NR 720 RCLS is recommended at each of the four sites. For sites CTU006 and CTU011, soil excavation and sampling activities can be coordinated with planned development of the South Cargo Logistics Hub. For sites CTU007 and CTU008, additional soil sampling and analysis for PAHs is recommended to refine the extent of soil impacts and define the volume of soil to be removed at each site. As part of soil removal, confirmation samples should be collected from the bottom and sidewalls of the excavations.

Except for site CTU007, additional groundwater sampling of existing temporary groundwater and/or the installation and sampling of additional temporary groundwater monitoring wells is recommended at each site for closure without obligations.

Following completion of post-excavation confirmation sampling demonstrating remaining soil is below applicable NR720 non-industrial RCLs and additional groundwater sampling demonstrating concentrations below the applicable ES, Pending the results of confirmation sampling and additional groundwater sampling, a site closure package (WDNR Case Closure Request Form 4400-202 and supporting attachments) should be prepared for each site in support of case closure without continuing obligations or inclusion in the BRRTs registry.

TABLE OF CONTENTS

EXECUTIVE SUMMARY **ES-1**
TABLE OF CONTENTS ..... **i**
LIST OF FIGURES ..... **ii**
LIST OF TABLES ..... **iii**
LIST OF APPENDICES ..... **iii**
LIST OF ABBREVIATIONS AND ACRONYMS ..... **iv**
1.0 INTRODUCTION **1-1**
1.1 Project Purpose and Scope 1-1
1.2 History and Background 1-2
1.2.1 Former General Mitchell ARS 1-2
1.2.2 Site CTU006 (UST 212) 1-2
1.2.3 Site CTU007 (UST 215) 1-3
1.2.4 Site CTU008 (UST 219) 1-3
1.2.5 Sites CTU011, CTU012, and CTU013 (UST 8002) 1-4
2.0 ENVIRONMENTAL SETTING **2-1**
2.1 Meteorology 2-1
2.2 Topography 2-1
2.3 Geology 2-1
2.4 Soils and Overburden Geology 2-1
2.5 Hydrogeology 2-1
2.6 Release Profile 2-2
2.7 Contaminant Migration Pathways 2-2
2.8 Exposure Pathways and Potential Receptors 2-2
3.0 SITE INVESTIGATION **3-1**
3.1 Field Activities and Analytical Protocol 3-1
3.1.1 Utility Clearance 3-1
3.1.2 Field Instruments and Equipment 3-1
3.1.3 Soil Boring Advancement/Abandonment and Soil Sample Collection 3-1
3.1.4 Borehole Abandonment 3-3
3.1.5 Temporary Monitoring Well Installation 3-3
3.1.6 Well Purging 3-3
3.1.7 Static Water Level Measurements 3-4
3.1.8 Groundwater Sampling 3-4
3.1.9 Vapor Intrusion Sampling 3-4
3.1.10 Surveying 3-5
3.1.11 Decontamination 3-5
3.1.12 IDW Management 3-5
3.1.13 Field Quality Control 3-5

3.2 Data Validation and Usability Summary....3-5
3.3 Variations from the UFP-QAPP....3-8
4.0 INVESTIGATION RESULTS....4-1
4.1 Site CTU006....4-1
4.1.1 Subsurface Soil....4-1
4.1.2 Groundwater....4-1
4.1.3 Soil Vapor....4-2
4.2 Site CTU007....4-2
4.2.1 Subsurface Soil....4-2
4.2.2 Groundwater....4-4
4.3 Site CTU008....4-4
4.3.1 Subsurface Soil....4-4
4.3.2 Groundwater....4-5
4.3.3 Soil Vapor....4-5
4.4 Site CTU011....4-6
4.4.1 Subsurface Soil....4-6
4.4.2 Groundwater....4-6
5.0 SUMMARY....5-1
5.1 Investigation Activities....5-1
5.2 Investigation Results....5-1
5.3 Recommendations....5-2
5.3.1 Site CTU006 (UST 212)....5-2
5.3.2 Site CTU007 (UST 215)....5-3
5.3.3 Site CTU008 (UST 219)....5-3
5.3.4 Site CTU011....5-4
6.0 REFERENCES....6-1

LIST OF FIGURES

Figure 1 Installation Location Map
Figure 2 Overall Site Map
Figure 3 Site CTU006 Soil and Soil Vapor Exceedances
Figure 4 Site CTU007 Soil Exceedances
Figure 5 Site CTU008 Soil and Soil Vapor Exceedances
Figure 6 Site CTU011 Soil Exceedances
Figure 7 Site CTU006 Groundwater Exceedances
Figure 8 Site CTU007 Groundwater Exceedances
Figure 9 Site CTU008 Groundwater Exceedances
Figure 10 Site CTU011 Groundwater Exceedances

LIST OF TABLES

Table 1 Historical Soil Sample Analytical Results
Table 2 Soil Boring Summary
Table 3 Soil Sampling Summary
Table 4 Monitoring Well Summary
Table 5 Groundwater Sampling Summary
Table 6 Soil Vapor Sampling Summary
Table 7 Soil Sample Analytical Results for VOCs
Table 8 Soil Sample Analytical Results for Lead and PAHs
Table 9 Groundwater Sample Analytical Results for VOCs
Table 10 Groundwater Sample Analytical Results for Lead and PAHs
Table 11 Soil Vapor Sample Analytical Results for VOCs

LIST OF APPENDICES

Appendix A Field Documentation
Appendix B Laboratory Reports
Appendix C Data Validation Report

LIST OF ABBREVIATIONS AND ACRONYMS

%	percent
AFB	Air Force Base
AFCEC	Air Force Civil Engineering Center
AFRTC	Air Force Reserve Training Center
ARS	Air Reserve Station
bgs	below ground surface
BRAC	Base Realignment and Closure
COPC	constituent of potential concern
CUES	CTI-URS Environmental Services, LLC
DPT	direct-push technology
DRO	diesel range organics
ES	Enforcement Standard
ft	foot or feet
ft^2	square feet
GPS	Global Positioning System
GRO	gasoline range organics
IDW	investigation-derived waste
ILHR	Wisconsin Department of Industry, Labor, and Human Relations
LCS	laboratory control sample
mg/kg	milligrams per kilogram
MMIA	Milwaukee Mitchell International Airport
MS	matrix spike
MS/MSD	matrix spike/matrix spike duplicate
ORP	oxidation-reduction potential
OWS	oil-water separator
PAH	polycyclic aromatic hydrocarbon
PAL	Preventive Action Limit
PID	photoionization detector
PSL	Project Screening Level
RCL	Residual Contaminant Level
RTW	Reserve Training Wing
SI	Site Inspection
SOP	standard operating procedure
TCG	Troop Carrier Group
TO	Task Order
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
U.S.	United States
UFP-QAPP	Uniform Federal Policy – Quality Assurance Project Plan
USAF	United States Air Force

USEPA	United States Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound
VRSL	Vapor Risk Screening Level
WAC	Wisconsin Administrative Code
WDNR	Wisconsin Department of Natural Resources

This page intentionally left blank.

1.0 INTRODUCTION

This Site Inspection (SI) Report presents the results of investigation activities conducted between 30 January 2023 and 20 February 2023 at four former underground storage tank (UST) locations, located at the former General Mitchell Air Reserve Station (ARS) in Wisconsin, including:

- CTU006 (UST 212)
- CTU007 (UST 215 [Tank 2])
- CTU008 (UST 219)
- CTU011, CTU012, and CTU013 (UST 8002)

This SI report has been prepared under a contract between the United States (U.S.) Air Force Civil Engineer Center (AFCEC) and CTI-URS Environmental Services, LLC (CUES); Contract No. FA890316-D-0053, Task Order (TO): FA890321-F-1088. The data presented in this report were collected and evaluated in accordance with the *Final Uniform Federal Policy – Quality Assurance Project Plan, Preliminary Assessment/Site Inspection, Sites CTU006; CTU007; CTU008 and CTU011, CTU012, CTU013, General Mitchell Air Reserve Station, Wisconsin* (CUES, 2022).

1.1 Project Purpose and Scope

The purpose of the SI at each of the four former UST sites is to confirm the presence and nature, or absence, in soil, groundwater, and soil vapor of contaminants of potential concern (COPC) at concentrations exceeding the Project Screening Levels (PSLs). Contamination was documented during tank removal activities conducted in 1994, 1995, and 1998. As part of the SI, data were collected to determine if the four former UST sites can be closed with the Wisconsin Department of Natural Resources (WDNR), or if additional actions are necessary to address any impacts above PSLs prior to closure. The SI included the following investigation activities:

- Soil sampling activities were conducted at 33 sample locations to evaluate the presence or absence of UST- related COPCs in soil and to characterize surface and subsurface conditions.
- At select boring locations, 13 temporary groundwater monitoring wells were installed and sampled to characterize the extent of COPCs impact to groundwater and evaluate residual impacts from the former USTs.
- A total of 6 soil vapor probes close to the source of contamination were installed to determine if soil vapors were present and have potentially migrated near buildings.
- Soil, groundwater, and soil vapor sample results were compared to PSLs to identify COPC exceedances. The PSLs are WDNR NR 720 Non-Industrial and Industrial Direct Contact and Soil-to-Groundwater Pathway Residual Contaminant Levels (RCLs) for soil, NR 140 Enforcement Standards (ESs) and Preventive Action Limits (PALs) for groundwater, and Residential, Small Commercial, and Large Commercial Building Vapor Risk Screening Levels (VRSLs) for soil vapor.
- For soils, locations that exceed Non-Industrial Direct Contact RCLs were compared to Industrial Direct Contact RCLs. Only those locations with COPC concentrations exceeding Industrial RCLs will be used to determine soil impacts that require additional action.

- For groundwater, only ES exceedances are used to determine if there are groundwater impacts that require additional action.

1.2 History and Background

1.2.1 Former General Mitchell ARS

Former General Mitchell ARS is located approximately 7 miles south of downtown Milwaukee, Wisconsin, on the southern portion of Milwaukee Mitchell International Airport (MMIA) (**Figure 1**). The base was initially established in February 1952 by the U.S. Air Force (USAF) as General Billy Mitchell Field when the 924th Reserve Training Wing (RTW) was activated. The 924th RTW was redesignated as the 438th Fighter Bomber in July 1952 and then redesignated again to the 247th Air Force Reserve Training Center (AFRTC). In November 1957, the 247th AFRTC was deactivated when the 440th Troop Carrier Wing was transferred to MMIA where C-119 aircraft were assigned to the wing. The C-119 aircraft were replaced in 1971 by C-130A aircraft.

The 440th Tactical Airlift Wing was developed from the 440th Troop Carrier Group (TCG) which began in Baer Field, Indiana in 1943. The TCG was deactivated in October 1945 and was reactivated in August 1947 as a reserve organization (440th TCG), and then expanded in 1949. The mission of the 440th TAG was to combat-airlift support, paratroop and equipment drops, airlift of troops and equipment to forward areas, and aeromedical evacuation (SAIC, 1991).

General Mitchell ARS officially closed on 2 February 2008 as part of the 2005 Base Realignment and Closure (BRAC) Commission, and all personnel in the 440th Airlift Wing at General Mitchell ARS were transferred to Pope Air Force Base (AFB) in North Carolina. The projected future land use of the facility is for development of an air cargo facility (South Cargo Logistics Hub). The South Cargo Logistics Hub project will be handled by real estate firm CBRE and developed by investment company Crow Holdings on behalf of the MMIA. Phase 1 of the proposed project will consist of a 288,000-ft^2 building with 74 docks, 99 trailer stalls, and 305 car parking stalls. Sigma has been coordinating Phase I/II Environmental Site Assessments in conjunction with the project development. Project delivery is expected in the second half of 2024. Land use will remain commercial/industrial. Currently, the former General Mitchell ARS is home to Milwaukee County's MKE Regional Business Park. The MKE Regional Business Park leases hangar and office space in support of MMIA and other customers.

Figure 1 shows the location of the former ARS on MMIA. The ARS is located along the southern border of the airport's property line, directly west of runway 19-R and 1-L and east of South Howell Avenue and includes approximately 102 acres consisting mostly of concrete/asphalt drive pads, buildings, and aircraft hangars. **Figure 2** shows the locations of Sites CTU006, CTU007, CTU008, and CTU011, CTU012, and CTU013 at the former General Mitchell ARS. The Site locations are spread out across the former ARS property, residing approximately in the property's center and along the north and south borders.

1.2.2 Site CTU006 (UST 212)

Site CTU006 is centrally located in the former General Mitchell ARS property and is the location of former 1,000-gallon UST 212 that contained diesel fuel for an emergency generator. UST 212 was located between Buildings 212 and 209 which are in the center of the former General Mitchell ARS property, west

of the main concrete drive pad. UST 212 was installed in 1982 and removed in October 1995 after the tank was determined to be out of compliance for the lack of leak detection on the piping. The Wisconsin Department of Industry, Labor, and Human Relations (ILHR) (presently known as the Wisconsin Department of Workforce Development since 1996) regulated this tank system under regulation ILHR 10 which requires leak detection for tank and pipes by 1992. With the tank being out of compliance and also no longer needed, it was decided to remove the tank entirely, which occurred in October 1995.

During the excavation for UST 212 removal, soil impacts were encountered in a small area along the UST piping that runs to the generator, but no soil was removed or tested outside of obtaining photoionization detector (PID) measurements (AFCEC, 2021). The tank excavation depth was 10 feet (ft), and the piping excavation depth was between 2 and 3 ft deep. No groundwater was encountered while excavating and the soil was recorded as a fine sand (Tony's Cement Works (TCW), 1995). Historical soil boring locations (S1 through S3) and corresponding data are shown on **Figure 3** and in **Table 1**.

1.2.3 Site CTU007 (UST 215)

Site CTU007 is located near the northwestern corner of the General Mitchell ARS property (TCW, 1995). There were three tanks previously in this area, which is centrally located on the former General Mitchell ARS. The tanks contained back-up fuel for the central heat plant (Building 215) and included two 15,000-gallon tanks (Tank 2 (UST 215) and Tank 3), and one 20,000-gallon tank (Tank 1). The two 15,000-gallon tanks (Tank 2 and Tank 3) were placed south of former Building 215 and north of 5th Avenue below a grassy area and the 20,000-gallon tank (Tank 1) was placed in line with the other two tanks, but south of 5th Avenue below a grassy area. Tanks 2 and 3 were installed in 1956 and Tank 1 was installed in 1982, all three tanks were removed in March 1998 (Stiles Environmental, Inc., 1998). The tanks were removed for the same reason stated for UST 212 (requirements under regulation ILHR 10 were not met due to lack of leak detection in the tank's piping). The tank closure reports for Tanks 1 and 3 concluded clean closure and recommended no further investigation (Stiles Environmental, Inc., 1998). Historical soil boring locations (3N, 3E, and 3W and 1N, 1E, 1S, and 1W) and corresponding data are shown on **Figure 4** and in **Table 1**.

Discolored soils and a noticeable petroleum-like odor was observed during the excavation of Tank 2 in the area of the tank's piping run. Soil samples were collected in this area and analytical results indicated concentrations of diesel range organics (DRO) to be 48 milligrams per kilogram (mg/kg). It was recommended in the Tank Closure Report for Tank 2 (UST 215) that approximately 250 cubic yards (cy) of impacted soil in the area of the piping run be removed in order for the site to meet cleanup criteria and WDNR requirements (Stiles Environmental, Inc., 1998). No additional soil has yet been excavated at this site and the excavation in March 1998 was backfilled using clean fill (#2). Groundwater was encountered during this excavation.

1.2.4 Site CTU008 (UST 219)

Site CTU008 is located along the northern border of the General Mitchell ARS property line and was the location of a 6,000-gallon UST (UST 219) that contained diesel fuel for vehicles. The tank was installed in 1976 near the northern border of the former General Mitchell property line, directly east of Building 219

in a grassy area. The tank was removed in October 1995 for the same reason stated for USTs 212 and 215 (requirements under regulation ILHR 10 were not met due to lack of leak detection in the tank's piping).

The excavation depth was 11 ft in the tank area and between 2 and 3 ft along the piping length during the tank removal process. Groundwater was encountered during excavation between approximately 10 and 11 ft. Impacted soil was observed at the bottom of the excavation, 11 ft below ground surface (bgs), and no discoloration was observed on the sides of the excavation. A groundwater grab sample was collected at this time. Soil in this area was noted as sand with traces of fines and gravel. The soil sample collected near the east end of UST 219 had an elevated PID reading which indicates that a leak may have occurred in this area. The laboratory analysis of this sample (S-1) indicated a concentration of benzene at 31 micrograms per kilogram (ug/kg) which exceeds the current soil-to-groundwater pathway RCL of 5.1 ug/kg. Other volatile organic compounds (VOCs) were detected but at concentrations below their respective RCL (TCW, 1995). Historical soil boring locations (S1 through S4) and corresponding data are shown on **Figure 5** and in **Table 1**.

1.2.5 Sites CTU011, CTU012, and CTU013 (UST 8002)

Sites CTU011, CTU012, and CTU013 are located in the Petroleum, Oil, and Lubricants (POL) area, which is in the southeastern corner of the former General Mitchell ARS property. This site contained a UST system (UST 8002) comprised of:

- Three 5,000-gallon fuel USTs (one tank stored leaded gasoline, one tank held unleaded gasoline, and a third tank held diesel fuel;
- JP-4 fuel piping that ran from each tank to a fueling island/dispenser that was south of the USTs; and,
- One 550-gallon oil-water separator (OWS) UST that was installed in 1982.

The entire UST system was removed in September and October 1994 due to the same reason stated for USTs 212, 215, and 219 (requirements under regulation ILHR 10 were not met due to lack of leak detection in the tank's piping).

During the UST system removal, petroleum impacted soil was observed (soil staining and strong odor) under the southern edge of the concrete drive pad in the site's area on 18 August 1994. A PID was used to screen and select the soil sample interval for laboratory analysis of DRO and gasoline range organics (GRO). The soil sample analytical results indicated a DRO concentration of 46 mg/kg and a GRO concentration of 2,400 mg/kg with the historical generic RCL for GRO and DRO being 100 mg/kg (for coarse-grained soil; 250 mg/kg for fine-grained soil). There are currently no RCLs for GRO or DRO in Wisconsin. According to historical documentation, it was believed that a prior spill occurred in this area and impacted the gravel fill below the concrete pad and the native clay soils below the gravel fill. Over-excavation of the observed impacted area was conducted in September 1994, but the extents of impact were not explored. More impacted soil (petroleum odors and staining) was found in the excavation of the four USTs and the abandonment of approximately 100 ft of the JP-4 underground pipeline. The majority of petroleum impacted soil was believed to be removed at the time of over-excavation with a total of approximately 5,800 tons of soil removed and disposed (Harenda Enterprise, Inc., 1994). Historical soil boring locations (E91 through E96; P-75-1 through P-78-1; P-80-3, P-79-2, and P-81-1 through P-83-1) and corresponding data are shown on **Figure 6** and in **Table 1**.

2.0 ENVIRONMENTAL SETTING

The Former General Mitchell ARS (former ARS) is approximately 102 acres and operated from 1952 to 1995. The former ARS is situated on the southern portion of the MMIA property, located 7 miles south of downtown Milwaukee. MMIA is owned and operated by Milwaukee County. The ARS was formerly operated concurrently with MMIA. Individual site areas which are the subject of this SI are approximately 1,000 to 3,500 square feet (ft^2).

2.1 Meteorology

The average annual rainfall is approximately 30 inches per year.

2.2 Topography

The approximate elevation of the former ARS is approximately 700 ft mean sea level (msl). The former installation, including the former UST areas, are relatively flat.

2.3 Geology

The surficial geology consists of glacial diamicton belonging to the Oak Creek Formation which has a minimum thickness of approximately 100 ft in the MMIA vicinity. The Oak Creek Formation is approximately 90 percent (%) silt and clay. Discontinuous sandy lenses are present throughout the formation and between glacial till deposits. Bedrock is comprised of the Niagara Dolomite and is expected to occur between 100 ft and 150 ft bgs (AMEC, 2017).

2.4 Soils and Overburden Geology

The distribution of soil types in southern Wisconsin is linked to the distribution and texture of glacial sediments (especially till deposits). Overburden material consist of fill material up to 15 ft thick, as well as unconsolidated glacial drift (Oak Creek till) with a combined thickness of 100 ft or more (AMEC, 2017). Soils throughout the installation consist of very dense, poorly graded fine to coarse sand with varying amounts of clay, silt, and gravel. Areas of mainly clay soil may make identification of the water table difficult. Fill soil (topsoil) is present in unpaved areas.

2.5 Hydrogeology

Areas of perched groundwater and unconfined shallow water table conditions exist across the former ARS. Shallow, perched groundwater is typically found in thin, discontinuous lenses that can consist of mixtures of silty sand, lean clay, or gravelly sand (AMEC, 2017). The discontinuous nature of the lenses tends to restrict the horizontal and vertical movement of perched groundwater. Perched groundwater typically occurs within 15 ft of the ground surface. Recent work at the MMIA Fire Department encountered shallow unconfined groundwater at depths between 3 and 15 ft bgs. Overall shallow groundwater flow is generally to the east-northeast across the MMIA. Average horizontal hydraulic gradients of approximately 0.002 ft/ft were measured in monitoring wells installed in other areas of the former ARS (AMEC, 2017). Productive groundwater zones are not found within the Oak Creek Formation but tend to occur at the weathered bedrock interface and within the bedrock underlying the region.

2.6 Release Profile

The former USTs at each site were removed due to the tanks being out of compliance by lacking a leak detection mechanism for the piping. All USTs previously held fuel of some sort.

Contaminants of Potential Concern – COPCs at each site include VOCs and polynuclear aromatic hydrocarbons (PAHs). Lead is an additional COPC at Site CTU011.

Media of Potential Concern – Soil, groundwater, and soil vapor.

Potential and Confirmed Releases

- Site CTU006 (UST 212) is considered a potential release site based on soil characteristics observed during the removal of UST 212. During the UST removal, soil contamination was encountered in a small area along the UST piping. No soil has been removed (AFCEC, 2021).
- Site CTU007 (UST 215) is considered a potential release site based on soil characteristics observed during the removal of Tank 2. Evidence of soil contamination was observed during the Tank 2 removal along the UST piping run, but no soil was removed at the time (AFCEC, 2021).
- Site CTU008 (UST 219) is considered a potential release site based on soil characteristics observed during the removal of UST 219. Evidence of contaminated soil was encountered but no soil was removed at the time (AFCEC, 2021).
- CTU011, CTU012, and CTU013 (UST 8002) is the location of a confirmed release. JP-4 jet fuel spills (16 April 1991 and 12 November 1993) and an acetic acid spill (7 April 1993) were reported in this area prior to the removal of the three USTs and distribution lines in September and October 1994. Contamination was discovered around the USTs, distribution lines, and under the former concrete drive pads during the removal process. Overexcavation of the affected area occurred in September and October 1994 when approximately 5,800 tons of impacted soil was removed (AFCEC, 2021).

2.7 Contaminant Migration Pathways

Contaminants are sorbed to the soil matrix near the release locations. Migration of dissolved-phase contaminants deeper in the soil column can occur over time, potentially reaching shallow groundwater. Gravity-driven migration of non-aqueous phase liquids, if present in the unsaturated zone, can also transport contaminants downward. Dissolved-phase contaminants can migrate vertically and horizontally in groundwater. Vertical migration can result in transport of contaminants to deeper groundwater if downward vertical gradients are present. When petroleum-related contaminants are exposed on the ground surface, transport to, and discharge into nearby surface water bodies (ditches, creeks) or storm water outfall locations can occur. Dissolved-phase transport of contaminants via groundwater to surface water features can also occur. Vapor-phase contaminants, if present, can migrate in soil and shallow groundwater beneath buildings and can enter buildings through vapor intrusion.

2.8 Exposure Pathways and Potential Receptors

Exposure pathways include direct contact with contaminated soil and groundwater via inhalation, ingestion, and dermal contact, or via inhalation of vapor-phase VOCs or particulates. As access to the sites are

restricted, direct contact exposure to the general public is unlikely but construction worker exposure is possible. Buildings are present nearby USTs 212 and 219 and the vapor intrusion pathway is possible at these locations. Potable water to the area is supplied by the City of Milwaukee, therefore, exposure (i.e., ingestion) to contaminated groundwater is unlikely.

This page intentionally left blank.

3.0 SITE INVESTIGATION

3.1 Field Activities and Analytical Protocol

SI field activities were completed between 30 January and 20 February 2023. The SI field activities included:

- Field mobilization and demobilization;
- Third-party utility locate;
- Drilling and the collection of soil samples;
- Installation of temporary monitoring wells;
- Groundwater sampling;
- Vapor intrusion sampling; and
- Investigation-derived waste (IDW) management.

Field activities were conducted in accordance with the Final Uniform Federal Policy – Quality Assurance Project Plan (UFP-QAPP) Preliminary Assessment/Site Inspection, Sites CTU006; CTU007; CTU008 and CTU011, CTU012, CTU013 (CUES, 2022). Field data were recorded on the appropriate field forms. Daily health and safety briefings, daily field reports, and daily quality control reports were also completed. Changes and the circumstances for any deviation from the UFP-QAPP were also noted in the field forms. Field documentation is provided in **Appendix A**.

3.1.1 Utility Clearance

Wisconsin's utility safety notification system (Digger's Hotline) was contacted prior to the commencement of drilling activities. To assist with utility location, utility maps showing the locations of utilities at the four sites were requested from the MMIA. Staff from Milwaukee County's electric and water departments met CUES staff on site and proposed boring locations were cleared or moved so they did not conflict with underground utilities. Underground utility lines were also located and marked out by a third-party utility locator at each proposed boring location prior to the commencement of drilling activities.

3.1.2 Field Instruments and Equipment

Multiparameter water quality meters and turbidity meters used as part of groundwater sample collection were calibrated daily prior to use. A water level indicator was used to measure depths to water after wells were constructed. Peristaltic water pumps were used to purge and collect water. A Global Positioning System (GPS) unit was utilized to collect coordinates of each boring and well. A PID was used to field screen soil samples for volatile contaminants. Calibration information was recorded on field forms and is available in **Appendix A**.

3.1.3 Soil Boring Advancement/Abandonment and Soil Sample Collection

To identify the presence or absence of COPCs at the former UST sites and to characterize subsurface conditions, 33 soil borings were advanced to the top of the water table (approximately 10 ft bgs) with a maximum depth of 15 ft bgs using direct-push technology (DPT). Soil borings were completed to obtain soil samples with 2.25-inch outer diameter (OD) by 5-ft long macro core and subsequently over-drilled using 4.25–inch inner diameter (ID) Hollow Stem Augers (HSA) to accommodate the installation of

monitoring wells. Separate soil borings were completed to accommodate soil vapor sampling as described in Section 3.1.9. Soil sample locations were distributed across the former UST sites (**Figures 3 through 6**):

- A total of six soil borings (CTU006-SB01 through CTU006-SB06) were advanced to depths ranging from 4.5 ft to 15 ft bgs at Site CTU006, including one boring within the former UST area. A seventh proposed soil boring (CTU006-SB07) hit refusal at 2 ft bgs due to concrete just below the ground surface. The drill rig was moved 10 ft northwest of the original boring location, but the rig encountered concrete at 1 ft bgs. The seventh proposed boring was not completed. Soil borings CTU006-SB01 and CTU006-SB04 were converted to temporary monitoring wells CTU006-TW01 and CTU006-TW02, respectively, as described in Section 3.1.5. A third temporary monitoring well (CTU006-TW03) at soil boring CTU006-SB07 was proposed but was not installed due to the soil boring not being completed.
- A total of seven soil borings (CTU007-SB01 through CTU007-SB07) were advanced to depths ranging from 10 ft to 15 ft bgs at site CTU007, including three borings within the three former USTs and four additional borings located immediately adjacent to the former USTs. Soil borings CTU007-SB01, CTU007-SB03, and CTU007-SB06 were converted to temporary monitoring wells CTU007-TW01, CTU007-TW02, and CTU007-TW03, respectively, as described in Section 3.1.5.
- A total of eight soil borings (CTU008-SB01 through CTU008-SB08) were advanced to depths ranging from 10 ft to 15 ft bgs.at site CTU008, including one boring within the former UST footprint and seven additional borings located north, south, east, and west of the former UST. Soil borings CTU008-SB01, CTU008-SB02, and CTU008-SB06 were converted to temporary monitoring wells CTU008-TW01, CTU008-TW02, and CTU008-TW03, respectively, as described in Section 3.1.5.
- A total of 12 soil borings (CTU011-SB01 through CTU011-SB012) were advanced to depths ranging from 10 ft to 15 ft bgs.at site CTU011, including 5 borings within the former UST footprints, 3 borings along the fuel line conveyance, 1 boring at the former fuel island, 1 boring at the OWS, and 2 borings north of the former USTs. Soil borings CTU011-SB01, CTU011-SB02, CTU011-SB06, CTU011-SB07, and CTU011-SB10 were converted to temporary monitoring wells CTU011-TW01, CTU011-TW02, CTU011-TW03, CTU011-TW04, and CTU011-TW05, respectively, as described in Section 3.1.5.

Soil sample locations were distributed within these areas and biased toward intervals exhibiting impacts (e.g., soil staining, elevated PID measurement). A soil boring summary is included in **Table 2**. Soil sample locations are illustrated on **Figures 3 through 6**.

DPT soil cores were collected continuously, logged, classified using the Unified Soil Classification System, and geologically interpreted. These data were record on soil boring logs as included in **Appendix A**. Two discrete soil samples were collected from each boring during initial soil sampling conducted during the field event to evaluate COPC concentration distribution. A soil sample summary is included in **Table 3**. Soil samples were submitted to Eurofins Environment Testing America – Denver for analysis of VOCs using United States Environmental Protection Agency (USEPA) Method 8260B, PAHs using USEPA Method 8270 with Select Ion Monitoring, and/or lead using USEPA Method 6020B.

3.1.4 Borehole Abandonment

Soil borings that were not completed as monitoring wells were abandoned with bentonite chips following soil sampling activities.

3.1.5 Temporary Monitoring Well Installation

At select soil boring locations, temporary groundwater monitoring wells (CTU006-TW01, CTU006-TW02, CTU007-TW01, CTU007-TW02, CTU007-TW03, CTU008-TW01, CTU008-TW02, CTU008-TW03, CTU011-TW01, CTU011-TW02, CTU011-TW03, CTU011-TW04, CTU011-TW05) were installed inside 4.25-inch ID HSAs (over-drilled DPT borings as described in Section 3.1.3). Temporary monitoring wells were installed consistent with QAPP **Worksheet #14/16** (Monitoring Well Installation) and **Worksheet #21**, Standard Operating Procedure (SOP) 7, and in accordance with Wisconsin Administrative Code (WAC), Chapter NR 141. Temporary monitoring wells were constructed as water table wells such that the well screens intersect the water table.

Temporary monitoring wells were constructed using 2-inch inside diameter Schedule 40 polyvinyl chloride casing that are flush threaded and have a threaded end cap with O-ring seal installed. Several well screens are 5 ft long, but most are 10 ft long, 2-inch inside diameter factory-cut 0.01-inch slotted pipe. Well screen and riser were placed in a manner to avoid threaded sections of riser being present at the top of casing elevation. Filter packs consisting of 10/20 mesh, commercially available (Red Flint Sand and Gravel, LLC), clean silica sand with uniform sorting, were installed in the annulus around the well screen at a minimum of 0.5 ft below the well cap to a minimum height of 2 ft above the top of screen. An annular seal was placed above the filter pack and consists of a minimum of 2 ft of bentonite. Following placement, the annular seal was allowed to hydrate for a minimum of 12 hours prior to grout installation. After hydration of the annular seal, a high solids-bentonite grout was used to fill the boring annulus from the top of the bentonite seal to within approximately 1 to 2 ft of ground surface. The grout was allowed to cure for a minimum of 24 hours prior to installation of the concrete pad and vaults.

The temporary monitoring wells were completed as flush-mount wells with well pad construction consisting of a 2-ft by 2-ft by 4 inches thick concrete pad with 8-inch diameter bolt-down manhole. The concrete was sloped away from the protective casing to promote surface drainage away from the well. The top of well casing was cut using a rotary tool to ensure the top of the riser is smooth, even, and parallel to ground surface. The top of riser was capped with watertight, lockable compression well caps with keyed alike padlocks. A temporary monitoring well summary is included in **Table 4**. Temporary monitoring well construction documentation is provided in **Appendix A**.

3.1.6 Well Purging

The temporary monitoring wells were not developed. A minimum of 24 hours following monitoring well installation and surface completion activities, each temporary monitoring well was purged in conjunction with sampling, as described in Section 3.1.8, to remove sediment from the well. Wells were purged until water quality parameters (temperature, specific conductance, dissolved oxygen, and oxidation-reduction potential [ORP]) stabilized and turbidity had stabilized or was below 10 nephelometric turbidity units.

3.1.7 Static Water Level Measurements

Prior to initiating groundwater sampling activities, static water levels were obtained from the newly installed temporary monitoring wells at each site. Water level measurements were measured from the top of well casing to an accuracy of 0.01 ft using an electronic water level indicator. Water level measurements are provided in **Appendix A**.

3.1.8 Groundwater Sampling

Groundwater samples were collected from newly installed temporary monitoring wells using peristaltic pumps. Wells were purged and sampled using low flow purge and sampling techniques. During purging, water quality parameters (specific conductance, temperature, DO, and turbidity) were measured and recorded at regular intervals that were sufficient in duration so that at least one volume of the flow-through cell (flow cell) had been purged. Water quality parameter measurements were obtained during purging of the monitoring wells using a continuous flow cell water quality monitoring unit equipped to measure multiple parameters. The flow cell was attached to the discharge of the pumped well with a polyethylene hose. Turbidity was measured using a turbidity meter. Water quality meters and the turbidity meter were calibrated in accordance with the manufacturer's procedures.

For slowly recharging wells (CTU008-TW03 and CTU011-TW05), the parameters did not stabilize before the well casing was emptied, even when using low flow rates. In this case, purging was considered complete when one well volume (well casing plus filter pack volume) had been purged from the wells and the wells went dry. Sampling was completed about 2 weeks later when the wells had sufficiently recharged to allow samples to be collected. The depth to the water level in the well was measured and recorded immediately prior to sample collection.

Prior to sample collection, the flow-through cell was disconnected, and the sample bottle was filled directly from the pump tubing. The samples, field duplicates, and matrix spike/matrix spike duplicate samples (MS/MSD) were filled simultaneously. **Table 5** summarizes the number of groundwater samples collected by site. Groundwater purging and sampling forms are included in **Appendix A**.

3.1.9 Vapor Intrusion Sampling

Soil vapor sampling was conducted via a soil vapor probe within temporary vapor wells. The vapor probe was installed using DPT to advance a soil boring to a depth of 10 ft bgs. The soil vapor probes were constructed within the open soil borings. The vapor filter was connected to tubing and placed approximately 3 inches from the bottom of the boring. The bottom of the borehole was filled with 6 inches of 20/40 mesh silica sand. The annulus surrounding the prepacked screen interval and 2 ft above the top of the screen was filled with 20/40 mesh silica sand. Above the filter pack, the annulus was sealed with a minimum of 2 ft of 8/20 mesh granular sodium bentonite consisting of 1 ft of dry granular bentonite to prevent the infiltration of hydrated bentonite followed by 1 ft of hydrated bentonite. Hydrated granular bentonite was placed to a depth of 2 ft bgs. The annulus from 0 to 2 ft bgs was filled with Rapid Set® concrete to complete the surface seal. **Table 6** summarizes the number of soil vapor samples collected at sites CTU006 and CTU008. **Figures 3 and 5** indicate soil vapor probe locations. Soil vapor probe sampling data forms are provided in **Appendix A**.

3.1.10 Surveying

Horizontal (X and Y) coordinates of soil samples, temporary monitoring wells, and soil vapor locations were recorded using a handheld GPS unit which used the WGS 1984 coordinate system. The GPS coordinates for each soil sample, temporary monitoring well, and soil vapor location were collected after drilling and well installation efforts had concluded. Horizontal coordinates for CTU006-SP04, CTU008-SP08, CTU011-SB01, CTU011SB02, and CTU011-SB02 were not recorded due to snow cover, and satellite connectivity issues in some areas of the site at the time of horizontal coordinate recording. The horizontal coordinates for soil samples, temporary monitoring wells, and soil vapor locations can be found on **Table 2**.

3.1.11 Decontamination

Decontamination of field equipment was conducted in accordance with SOP 15, *Equipment Decontamination* (CUES, 2022). Reusable equipment that came into contact with samples for chemical analysis was decontaminated between collection of samples. Cleaning consisted of scraping and scrubbing to remove encrusted materials, if necessary, followed by an Alconox and water wash and then a potable water rinse. Following decontamination, clean equipment was allowed to air dry prior to obtaining the next sample. Liquid IDW from decontamination activities was collected in a 55-gallon drum.

3.1.12 IDW Management

Waste management activities during the SI included the characterization and staging of the following:

- Soil cuttings;
- Purge water; and,
- Decontamination water.

Soil cuttings, purge water, and decontamination water were containerized in Department of Transportation approved 55-gallon drums with "Analysis Pending" labels placed on the outside of the drum. The drums were staged in the designated accumulation area. Solid wastes, such as used gloves, were placed in plastic bags, and disposed of as ordinary solid waste.

3.1.13 Field Quality Control

A total of 10 equipment blanks were collected during the SI. A total of 7 field blanks were collected during the sampling event.

Field duplicates were collected at a frequency of 10%, i.e., 1 field duplicate per 10 primary field samples. Nine field duplicates were collected during the SI sampling event.

Additional sample volume for MS/MSDs are typically collected at a frequency of 5% i.e., 1 MS/MSD pair per 20 primary field samples. Five MS/MSD pair aliquots were collected during the SI sampling event.

3.2 Data Validation and Usability Summary

Stage 2B data validation was performed by CTI-URS on 100% of the data, per the UFP-QAPP. In summary, data completeness as a percentage of usable results was calculated as 100% for PAHs, and 100% for metals, and 99.9% for VOCs, meeting the 90% completeness goal of the UFP-QAPP. Based on the

data validation, precision, accuracy, representativeness, comparability, and sensitivity are acceptable for metals and PAHs, and these data are useable for their intended purpose. A large percentage of VOC data in soils from sites CTU006, CTU011, and ST10 is impacted by potential low analytical bias, and these data should be considered estimates with potential low bias. Based on data validation and the objectives of the site inspection, the data are sufficient to determine the existence and type of soil impacts at the General Mitchell ARS UST sites. The data validation report is included in **Appendix C**.

Systemic trends and data usability limitations are summarized below.

X-Qualified Data: 0.12% of VOC results and 0.12% of PAH results were X-qualified during data validation, requiring a review from the project team to determine usability. Of these, the VOC results were rejected, and the PAH results were determined to be usable as quantitative estimates.

- Six non-detect VOC results were initially X qualified and ultimately rejected as unusable due to extremely low recovery in associated matrix spikes (MS). Five of the rejected results are from the shallow interval of SB04 at site CTU007, and one result is from the deeper interval of SB12 at site CTU011. While the rejected results should not be used, sufficient usable data remains to determine the existence and type of soil impacts.
- Two detected PAH results were initially X qualified but ultimately deemed usable as quantitative estimates, due to a failed instrument performance check in the associated tune. The results are fluoranthene and pyrene from the deepest interval of SB05 at site CTU007. These results were reported from a ten-fold dilution of the sample, necessitated by detections exceeding the upper calibration range of the instrument in the undiluted sample. Despite the failed performance check associated with the dilution, the presence of these target analytes in high concentrations is confirmed by raw data from the undiluted sample; therefore, the results are usable as estimates with quantitative uncertainty.

Precision: 5.4% of PAH results, 0.14% of VOC results, and no (0%) metals results were qualified due to potential sampling or analytical imprecision.

- There is evidence of heterogenic distribution of PAHs in impacted areas. Of the 6 soil field duplicate pairs analyzed for PAHs, 68 results from 4 pairs containing high concentrations of PAHs were qualified due to high relative percent difference between primary and field duplicate results. This indicates the PAHs are not uniformly distributed within the affected areas of the site, as expected due to the nature of the source material.
- Remaining qualifiers were applied due to high relative percent difference between laboratory control sample (LCS) and LCS duplicate pairs, MS/MSD pairs, and imprecision between results for two VOC targets in one field duplicate pair. No trends or patterns were identified, and the results are usable as quantitative estimates with the qualifiers applied during data validation.

Accuracy: 46% of VOC results, 6.6% of PAH results, and no (0%) metals results were qualified due to potential high or low bias.

- There is a broad trend of potential low bias affecting 100% of the soil VOC results from sites CTU006, CTU011, and ST10, due to labels affixed to pre-weighed sample vials. Additionally, all

VOC aliquots of soil samples from site CTU006 were received by the laboratory at an elevated temperature of 14 degrees Celsius, which may have further impacted the VOC results from soil samples collected at this site. VOC results from these sites are quantitatively uncertain, and non-detect results cannot be confirmed with certainty.

- There is evidence of systemic low bias in PAH results from soil samples containing high levels of PAH, likely due to matrix-specific effects. PAHs were detected at concentrations above the Limit of Quantitation (LOQ) in 17 results from 3 of 4 samples submitted for MS/MSD analysis, and 11 of the 17 results were qualified due to low MS/MSD recoveries. PAH recoveries did not indicate bias in MS/MSDs performed on any trace results or non-detect results.
- 2.5% of PAH results were qualified as potentially biased high, due to high surrogate compound recoveries, affecting 3 groundwater samples and 2 soil samples from 3 different sites. The laboratory cited chromatographic interference in the soil samples, indicating matrix-specific effects. For the remaining 3 groundwater samples, the analytical system may be the source of bias, as surrogate recoveries were not acceptable in the associated LCS and 2 field-originating blanks analyzed in the same batch; the laboratory performed re-training to QSM Table B-22 because these 5 samples were not reanalyzed despite a lack of obvious chromatographic interference and despite surrogate failure in the associated LCS.
- 2.2% of PAH results were qualified as potentially biased low, due to low surrogate compound recoveries, affecting 2 groundwater samples from 2 different sites. The analytical system may be the source of bias, as surrogate recoveries were not acceptable in the associated LCS and 2 field-originating blanks analyzed in the same batch; the laboratory performed re-training to QSM table B-22 because these 5 samples were not reanalyzed despite a lack of obvious chromatographic interference and despite surrogate failure in the associated LCS.
- 1.7% of PAH results were qualified as potentially biased high, due to detections in associated laboratory, field, or equipment source blanks. Of the 29 qualified results, 10 were also qualified due to high surrogate recoveries. Qualified results from two samples exceed one or more regulatory criteria, as discussed below.
    - Two of the qualified results, benzo(a)pyrene and benzo(b)fluoranthene from the groundwater field duplicate collected at TW01 in site CTU011, exceeded the PAL, but did not exceed the ES. PAHs were not detected in the primary sample from this location, which was analyzed in a separate batch. There is evidence that exceedances of the PAL in PAH results from this sample are due to laboratory blank contamination.
    - Three of the qualified results, benzo(a)pyrene, benzo(b)fluoranthene, and chrysene from the groundwater sample collected at TW01 in site CTU006, exceeded both the PAL and ES. The results in this sample are similar to (less than twice the concentration of) the detections in the associated laboratory blank, and there is evidence that the exceedances of the PAL and ES are due to laboratory blank contamination.
- Remaining qualifiers were applied due to low calibration verification standard recoveries or trace VOC detections in field or equipment source blanks. No additional trends or patterns were identified, and the results are usable as quantitative estimates with the qualifiers applied during data validation.

Comparability: 1.0% of VOC results, 0.12% of PAH results, and no (0%) metals results were qualified due to issues related to comparability.

- 1.0% of VOC results were qualified as due to a closing calibration verification standard performed 1 hour and 28 minutes after the 12-hour window, due to a mechanical error which stopped the run during the ending tune. One soil sample from the deeper interval at soil boring 08 in site CTU008 was reported from the analytical batch because there was not sufficient sample remaining for reanalysis. Closing continuing calibration verification standards (CCVs) exhibited acceptable performance throughout the data set, and the VOC results from this sample are unlikely to be affected by the late closing calibration verification standard.
- 0.12% of PAH results, two results, were qualified as quantitatively uncertain due to high percent breakdown of the performance check compound, as discussed in the "X-Qualified Data" subsection above. The presence of these target analytes in high concentrations is confirmed by raw data from the undiluted sample; therefore, the results are usable as estimates with quantitative uncertainty.

Trace Concentrations, not otherwise qualified: 17% of PAH results, 3.1% of metals results, and 0.83% of VOC results were detected below the limit of quantitation and were not qualified for any additional reason. These results are usable as quantitative estimates.

Completeness: The data set is substantially complete; 99.9% of VOC results, 100% of PAH results, and 100% of metals results are valid i.e., not rejected.

Representativeness: No additional issues affecting the representativeness of sample results were identified.

Sensitivity: Laboratory quantitation limits for undiluted samples were sufficient to meet the project quantitation limit goals in the UFP-QAPP, and dilutions were only performed when necessitated by high concentrations of target analytes.

3.3 Variations from the UFP-QAPP

A number of variations from the UFP-QAPP occurred during the SI sampling event. The parameters pH and ORP were not collected during groundwater sampling due to the water quality monitoring instrumentation not having these parameter settings. Groundwater samples from temporary monitoring wells CTU008-TW03 and CTU011-TW05 could not be collected within 24 hours of well purging as required in the QAPP due to slow groundwater recharge. Other variations from the UFP-QAPP include 8 of 10 planned equipment blanks were collected from new, unused tubing or acetate liners and these blanks were assessed as equipment source blanks rather than equipment rinsate blanks. One trip blank was prepared in the field in the field by pouring analyte-free water into a pre-weighted vial, similar to a field blank. Target analytes were not detected in this field blank; therefore, it was assessed as a trip blank. The laboratory did not routinely reanalyze samples when surrogate recovery was unacceptable and there was no obvious evidence of matrix interference, which is a requirement of the QSM and UFP-QAPP **Worksheet #28**. The utilized laboratory has initiated re-training per necessary requirements.

4.0 INVESTIGATION RESULTS

The following sections provide a discussion of the findings and comparison of the analytical results from the SI sampling events to the PSLs defined in Section 1.1. Analytical results for VOCs, Lead and PAHs in soils are summarized in **Table 7** and **Table 8**, respectively. Analytical results for VOCs, Lead and PAHs in groundwater are summarized in **Table 9** and **Table 10**, respectively. Analytical results for VOCs in soil vapor are summarized in **Table 11**. Laboratory reports are included in **Appendix B**.

4.1 Site CTU006

During the 2023 SI, 12 soil samples, 2 groundwater samples, and 3 soil vapor samples were collected for analyses of VOCs and PAHs at site CTU006 as described in Sections 3.1.3, 3.1.8, and 3.1.9. These sample results are summarized in the following subsections.

4.1.1 Subsurface Soil

As shown on the boring logs included in **Appendix** A, soils beneath site CTU006 consist primarily of well graded sand (SW) and lean clay (CL). Soil sample locations and analytical results exhibiting COPC concentrations above the RCL are shown on **Figure 3**.

Analytical results indicate no VOC exceedances of PSLs in any of the subsurface samples (CTU006-SB01 through CTU006-SB06) at site CTU006. PAH concentrations exceeded the PSLs as follows:

- CTU006-SB04-01 (1 to 2 ft bgs):
  - Benzo(a)pyrene exceeded the Non-Industrial RCL (115 micrograms per kilogram [µg/kg]) with a concentration of 240 µg/kg but was below the Industrial RCL.
  - Chrysene exceeded only the Soil-to-Groundwater Pathway RCL (144 µg/kg) with a concentration of 240 µg/kg.
- CTU006-SB05-02 (2 to 3 ft bgs):
  - Benzo(a)pyrene exceeded the Non-Industrial RCL (115 µg/kg) with a concentration of 420 µg/kg but was below the Industrial RCL.
  - Benzo(b)fluoranthene exceeded only the Soil-to-Groundwater Pathway RCL (478.1 µg/kg) with a concentration of 500 µg/kg.
  - Chrysene exceeded only the Soil-to-Groundwater Pathway RCL (144 µg/kg) with a concentration of 460 µg/kg.

4.1.2 Groundwater

Groundwater sample locations and analytical results exhibiting COPC concentrations exceeding the PSLs are shown on **Figure 7**. No VOC or PAH concentrations exceeded PSLs in the groundwater sample collected from temporary monitoring well CTU006-TW02. No VOC concentrations exceeded PSLs in the groundwater sample collected from temporary monitoring well CTU006-TW01. PAH concentrations exceeded the PSLs at CTU006-TW01 as follows:

- CTU006-TW01:
  - Benzo(a)pyrene exceeded the ES (0.2 micrograms per liter (µg/L)) with a concentration of 0.37 µg/L.

- Benzo(b)fluoranthene exceeded the ES (0.2 µg/L) with a concentration of 0.41 µg/L.
- Chrysene exceeded the ES of (0.2 µg/L) with a concentration of 0.47 µg/L.

4.1.3 Soil Vapor

No VOCs were detected above the PSLs in any of the three samples(CTU006-VP01, CTU006-VP02, and CTU006-VP03) at site CTU006. Soil vapor sample locations exhibiting COPC concentrations and analytical results are shown on **Figure 3**.

4.2 Site CTU007

During the SI, 14 soil samples and 3 groundwater samples were collected at site CTU007 for analyses of VOCs and PAHs as described in Sections 3.1.3 and 3.1.8. A summary of the analytical results per media is provided in the following subsections.

4.2.1 Subsurface Soil

As shown on the boring logs included in **Appendix A**, soils beneath site CTU007 consist primarily of well graded gravel (GW), well graded sand (SW), and lean clay (CL). Soil sample locations and analytical results exhibiting COPC concentrations above the PSLs are shown on **Figure 4**.

No VOCs were detected above the PSLs in any of the subsurface soil samples collected at site CTU007. PAH concentrations exceeded the PSLs as follows:

- CTU007-SB01-01 (0.5 to 1.5 ft bgs):
  - Benzo(a)pyrene exceeded the Non-Industrial RCL (115 µg/kg) with a concentration of 140 µg/kg but did not exceed the Industrial RCL.
  - Chrysene exceeded only the Soil-to-Groundwater Pathway RCL (144 µg/kg) with a concentration of 200 µg/kg.
- CTU007-SB01-02 (1.5 to 2.5 ft bgs):
  - Benzo(a)anthracene exceeded the Non-Industrial RCL (1,140 µg/kg) with a concentration of 3,000 µg/kg but did not exceed the Industrial RCL.
  - Benzo(a)pyrene exceeded the Industrial RCL (2,110 µg/kg) with a concentration of 2,300 µg/kg.
  - Benzo(b)fluoranthene exceeded the Non-Industrial RCL (1,150 µg/kg) with a concentration of 3,100 µg/kg but did not exceed the Industrial RCL.
  - Chrysene exceeded only the Soil-to-Groundwater Pathway RCL (144 µg/kg) with a concentration of 3,000 µg/kg.
  - Dibenz(a,h)anthracene exceed the Non-Industrial RCL (115 µg/kg) with a concentration of 290 µg/kg but did not exceed the Industrial RCL.
  - Indeno(1,2,3-cd)pyrene exceeded the Non-Industrial RCL (1,150 µg/kg) with a concentration of 1,200 µg/kg but did not exceed the Industrial RCL.
- CTU007-SB02-02 (1.5 to 2.5 ft bgs):
  - Benzo(a)anthracene exceeded the Non-Industrial RCL (1,140 µg/kg) with a concentration of 1,800 µg/kg but did not exceed the Industrial RCL.

  - Benzo(a)pyrene exceeded the Non-Industrial RCL (115 µg/kg) with a concentration of 1,500 µg/kg but did not exceed the Industrial RCL.
  - Benzo(b)fluoranthene exceeded the Non-Industrial RCL (1,150 µg/kg) with a concentration of 2,000 µg/kg but did not exceed the Industrial RCL.
  - Chrysene exceeded only the Soil-to-Groundwater Pathway RCL (144 µg/kg) with a concentration of 1,800 µg/kg.
  - Dibenz(a,h)anthracene exceeded the Non-Industrial RCL (115 µg/kg) with a concentration of 190 µg/kg but did not exceed the Industrial RCL.
- CTU007-SB03-01 (0.5 to 1.5 ft bgs):
  - Benzo(a)pyrene exceeded the Non-Industrial RCL (115 µg/kg) with a concentration of 150 µg/kg but did not exceed the Industrial RCL.
- CTU007-SB04-01 (0.5 to 1.5 ft bgs):
  - Benzo(a)pyrene exceeded the Non-Industrial RCL (115 µg/kg) with a concentration of 390 µg/kg but did not exceed the Industrial RCL.
  - Benzo(b)fluoranthene exceeded only the Soil-to-Groundwater Pathway RCL (478 µg/kg) with a concentration of 540 µg/kg.
  - Chrysene exceeded only the Soil-to-Groundwater Pathway RCL (144 µg/kg) with a concentration of 400 µg/kg.
- CTU007-SB04-02 (1.5 to 2.5 ft bgs):
  - Benzo(a)anthracene exceeded the Non-Industrial RCL (1,140 µg/kg) with a concentration of 2,200 µg/kg but did not exceed the Industrial RCL.
  - Benzo(a)pyrene exceeded the Non-Industrial RCL (115 µg/kg) with a concentration of 1,300 µg/kg but did not exceed the Industrial RCL.
  - Benzo(b)fluoranthene exceeded the Non-Industrial RCL (1,150 µg/kg) with a concentration of 1,900 µg/kg but did not exceed the Industrial RCL.
  - Chrysene exceeded only the Soil-to-Groundwater Pathway RCL (144 µg/kg) with a concentration of 2,300 µg/kg.
  - Dibenz(a,h)anthracene exceeded the Non-Industrial RCL (115 µg/kg) with a concentration of 270 µg/kg but did not exceed the Industrial RCL.
- CTU007-SB05-01 (0.5 to 1.5 ft bgs):
  - Benzo(a)pyrene exceeded the Non-Industrial RCL (115 µg/kg) with a concentration of 160 µg/kg but did not exceed the Industrial RCL.
  - Chrysene exceeded only the Soil-to-Groundwater Pathway RCL (144 µg/kg) with a concentration of 170 µg/kg.
- CTU007-SB05-02 (1.5 to 2.5 ft bgs):
  - Benzo(a)pyrene exceeded the Non-Industrial RCL (115 µg/kg) with a concentration of 310 µg/kg but did not exceed the Industrial RCL.
  - Chrysene exceeded only the Soil-to-Groundwater Pathway RCL (144 µg/kg) with a concentration of 310 µg/kg.
- CTU007-SB06-02 (1.5 to 2.5 ft bgs):

  - Benzo(a)pyrene exceeded the Non-Industrial RCL (115 µg/kg) with a concentration of 120 µg/kg but did not exceed the Industrial RCL.

4.2.2 Groundwater

As shown on **Figure 8**, no COPC concentrations exceeded PSLs in any of the groundwater samples collected at site CTU007.

4.3 Site CTU008

The SI activities at site CTU008 included 16 soil samples, 3 groundwater samples, and 3 soil vapor samples collected for analyses of VOCs and PAHs as described in Sections 3.1.3, 3.1.8, and 3.1.9. A summary of the analytical results per media is provided in the following subsections.

4.3.1 Subsurface Soil

As shown on the boring logs included in **Appendix A**, soils beneath site CTU008 consist primarily of well graded sand (SW) and lean clay (CL). Soil sample locations and analytical results exhibiting COPC concentrations above the PSLs are shown on **Figure 5**.

Analytical results indicate that concentrations of VOCs and PAHs were below PSLs in four of the subsurface samples collected (CTU008-SB01-01, CTU008-SB01-02, CTU008-SB06-02, and CTU008-SB07-01). VOC and PAH concentrations exceeded the PSLs as follows:

- CTU008-SB02-01 (1.0 to 2.0 ft bgs):
  - Benzo(a)pyrene exceeded the Non-Industrial RCL (115 µg/L) with a concentration of 160 µg/L but did not exceed the Industrial RCL.
  - Chrysene exceeded only the Soil-to-Groundwater Pathway RCL (144 µg/L) with a concentration of 150 µg/L.
- CTU008-SB03-01 (1.0 to 2.0 ft bgs):
  - Benzo(a)pyrene exceeded the Non-Industrial RCL (115 µg/L) with a concentration of 250 µg/L but did not exceed the Industrial RCL.
  - Chrysene exceeded only the Soil-to-Groundwater Pathway RCL (144 µg/L) with a concentration of 220 µg/L.
- CTU008-SB05-01 (2.0 to 3.0 ft bgs):
  - 1,2,4-Trimethylbenzene exceeded the Industrial RCL (219,000 µg/kg) with a concentration of 350,000 µg/kg.
  - 1,3,5-Trimethylbenzene exceeded only the Soil-to-Groundwater Pathway RCL (1,378 µg/kg) with a concentration of 120,000 µg/kg.
  - Ethylbenzene exceeded the Industrial RCL (35,400 µg/kg) with a concentration of 50,000 µg/kg.
  - Hexane exceeded only the Soil-to-Groundwater Pathway RCL (8,465 µg/kg) with a concentration of 36,000 µg/kg.
  - Toluene exceeded only the Soil-to-Groundwater Pathway RCL (1,107 µg/kg) with a concentration of 29,000 µg/kg.

  - Naphthalene exceeded the Non-Industrial RCL (658 µg/kg) with a concentration of 9,000 µg/kg but did not exceed the Industrial RCL.
  - m-Xylene & p-Xylene exceeded the Industrial RCL (388,000 µg/kg) with a concentration of 450,000 µg/kg.
  - o-Xylene exceeded only the Soil-to-Groundwater Pathway RCL (3,960 µg/kg) with a concentration of 190,000 µg/kg
- CTU008-SB05-02 (6.0 to 7.0 ft bgs):
  - 1,2,4-Trimethylbenzene exceeded only the Soil-to-Groundwater Pathway RCL (1,378 µg/kg) with a concentration of 22,000 µg/kg.
  - 1,3,5-Trimethylbenzene exceeded only the Soil-to-Groundwater Pathway RCL (1,378 µg/kg) with a concentration of 7,400 µg/kg.
  - Ethylbenzene exceeded only the Soil-to-Groundwater Pathway RCL (1,570 µg/kg) with a concentration of 7,500 µg/kg.
  - Hexane exceeded only the Soil-to-Groundwater Pathway RCL (8,465 µg/kg) with a concentration of 9,200 µg/kg.
  - Toluene exceeded only the Soil-to-Groundwater Pathway RCL (1,107 µg/kg) with a concentration of 1,900 µg/kg.
  - Naphthalene exceeded the Non-Industrial RCL (658 µg/kg) with a concentration of 8,400 µg/kg but did not exceed the Industrial RCL.
  - m-Xylene & p-Xylene exceeded only the Soil-to-Groundwater Pathway RCL (3,960 µg/kg) with a concentration of 32,000 µg/kg.
  - o-Xylene exceeded only the Soil-to-Groundwater Pathway RCL (3,960 µg/kg) with a concentration of 15,000 µg/kg.
- CTU008-SB08-01 (6.5 to 7.5 ft bgs):
  - Benzo(a)pyrene exceeded the Non-Industrial RCL (115 µg/kg) with a concentration of 120 µg/kg but did not exceed the Industrial RCL.

4.3.2 Groundwater

Groundwater sample locations and analytical results exhibiting COPC concentrations above the PSLs are shown on **Figure 9**. No PAH concentrations exceeded PSLs in any of the three groundwater samples (CTU008-TW01, CTU008-TW02, and CTU008-TW03) collected at site CTU008. VOC concentrations exceeded the PSLs as follows:

- CTU008-TW01:
  - Benzene exceeded the PAL (0.5 µg/L) with a concentration of 0.71 µg/L but did not exceed the ES.

4.3.3 Soil Vapor

No VOC concentrations exceeded PSLs in any of the three sample locations (CTU008-VP01, CTU008-VP02, and CTU008-VP03) at site CTU008. Soil vapor sample locations exhibiting COPC concentrations and analytical results are shown on **Figure 5**.

4.4 Site CTU011

The SI activities at site CTU011 included 24 soil samples and 5 groundwater samples collected for analyses of VOCs, PAHs, and lead as described in Sections 3.1.3 and 3.1.8. This is the only site at which soil and groundwater sample were analyzed for lead as former UST 8002 reportedly contained leaded gasoline. A summary of the analytical results per media is provided in the following subsections.

4.4.1 Subsurface Soil

As shown on the boring logs included in **Appendix A**, soils beneath site CTU011 consist primarily of well graded sand (SW) and lean clay (CL). Soil sample locations and analytical results exhibiting COPC concentrations above the PSLs are shown on **Figure 6**.

No lead or VOC concentrations exceeded the PSLs in any of the soil samples collected at site CTU011 but were below the RCL. PAH concentrations exceeded the PSLs as follows:

- CTU011-SB04-01 (1.0 to 2.0 ft bgs):
  - Benzo(a)pyrene exceeded the Non-Industrial RCL (115 µg/kg) with a concentration of 370 µg/kg but did not exceed the Industrial RCL.
  - Benzo(b)fluoranthene exceeded only the Soil-to-Groundwater Pathway RCL (478 µg/kg) with a concentration of 530 µg/kg.
  - Chrysene exceeded only the Soil-to-Groundwater Pathway RCL (144 µg/L) with a concentration of 360 µg/kg.

4.4.2 Groundwater

Groundwater sample locations and analytical results with COPC concentrations exceeding the PSLs are shown on **Figure 10**.

Concentrations of VOCs, PAHs, and lead exceeded the PSLs as follows:

- CTU011-TW01
  - Bromomethane exceeded the PAL (1 µg/L) with a concentration of 3.0 µg/L, but did not exceed the ES
  - Benzo(a)pyrene exceeded the PAL (0.02 µg/L) with a concentration of 0.041 µg/L but did not exceed the ES.
  - Benzo(b)fluoranthene exceeded the PAL (0.02 µg/L) with a concentration of 0.071 µg/L but did not exceed the ES.
- CTU011-TW04
  - Lead exceeded the PAL (1.5 µg/L) with a concentration of 1.7 µg/L but did not exceed the ES.

5.0 SUMMARY

5.1 Investigation Activities

During the 2023 SI, investigation activities were conducted at four former UST locations between 30 January 2023 and 20 February 2023. The primary objective of the investigation was to collect data necessary to determine if historical diesel and fuel storage at the four former UST sites resulted in COPC releases that have adversely affected environmental media and to determine if the four former UST sites can be closed with the WDNR, or if additional actions are necessary to address any impacts above PSLs prior to closure. The SI included the following investigation activities:

- Soil sampling activities were conducted at 33 sample locations to evaluate the presence or absence of UST related COPCs in soil and to characterize surface and subsurface conditions.
- At select boring locations, 13 temporary groundwater monitoring wells were installed and sampled to characterize the extent of COPCs impact to groundwater and evaluate residual impacts from the former USTs.
- A total of 6 soil vapor probes close to the source of contamination were installed to determine if soil vapors were present and have potentially migrated near buildings.
- PSL criteria consisted of the following:
  - Soil sample results were compared to WDNR NR 720 RCLs to identify COPC exceedances.
  - Groundwater sample results were compared to WDNR NR 140 ESs and PALs to identify COPC exceedances.
  - Soil vapor sample results were compared to WDNR VRSLs to identify COPC exceedance.

5.2 Investigation Results

Soil sample results indicate PAH concentrations above the PSLs at each of the four sites as follows:

- At site CTU006, Benzo(a)pyrene was reported above the Non-Industrial RCL (but below the Industrial RCL; Chrysene, and Benzo(b)fluoranthene were reported above only the Soil to Groundwater Pathway RCL.
- At site CTU007, only one sample (CTU007-SB01-02) detected Benzo(a)pyrene at a concentration above the Industrial RCL. Concentrations of other PAHs (Benzo(b)fluoranthene, Benzo(a)anthracene, Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene were reported above the Non-Industrial RCL, but below the Industrial RCL. Chrysene was reported above only the Soil to Groundwater Pathway RCL.
- Ethylbenzene, 1,2,4-Trimethylbenzene, and m&p-Xylene were detected at concentrations above the Industrial RCL in one sample (CTU008-SB05-01) at site CTU008. Concentrations of PAHs (Benzo(a)pyrene, Chrysene, 1,2,4-Trimethylbenzene, Ethylbenzene, Hexane, Toluene, Naphthalene, m-Xylene & p-Xylene, o-Xylene, and 1,3,5-Trimethylbenzene) detected in other samples either exceeded the Non-Industrial RCL (but not the Industrial RCL), or only the Soil to Groundwater Pathway RCL.

- At CTU011, PAHs were detected at concentrations above RCLs in only one sample (CTU011-SB04-01). Benzo(a)pyrene was detected above the Non-Industrial RCL, but below the Industrial RCL. Benzo(b)fluoranthene, and Chrysene were detected above only the Soil to Groundwater Pathway RCL.

Soil vapor sample results from sites CTU006 and CTU008 indicate detections of VOCs, but none at concentrations above the VRSL.

No COPC concentrations exceeded PSLs in any of the groundwater samples collected at site CTU007. Groundwater sample results indicate COPC concentrations above the PSLs at sites CTU006, CTU008, and CTU011 as follows:

- Both Benzo(a)pyrene, and Benzo(b)fluoranthene were detected at concentrations above the ES in groundwater sampled at site CTU006 (CTU006-TW01).
- At site CTU008, Benzene slightly exceeded the PAL (CTU008-TW01), at a concentration well below the ES.
- Concentrations of Bromoethane, Benzo(a)pyrene, Benzo(b)fluoranthene, and Lead were detected above the PAL in groundwater at CTU011, but none exceeded the ES.

5.3 Recommendations

5.3.1 Site CTU006 (UST 212)

Site CTU006 has soil PAH concentrations exceeding the NR 720 RCLs for non-industrial direct contact and pathway-to-groundwater in 2 samples out of 12 **(Figure 3)**. No soil vapor exceedances were exhibited at CTU006. Groundwater in 1 of 2 temporary wells exhibited ES exceedances for PAHs **(Figure 7)**. This site is also in the footprint of Phase I of the planned development of the South Cargo Logistics Hub. Based on these data, the following is recommended for closure without continuing obligations.

- Soil excavation to remove the soil exceedances followed by post-excavation confirmation sampling to demonstrate that remaining soil is below applicable NR 720 RCLs. Soil excavation and sampling activities can be coordinated with the upcoming redevelopment.
- Additional quarterly sampling of existing temporary groundwater monitoring well CTU006-TW01 to confirm the SI sampling results and establish concentration trends to demonstrate that groundwater is below the applicable ES.
- Installation, development, and sampling of an additional NR141-compliant temporary groundwater monitoring well to demonstrate that groundwater is below the applicable ES.

Following completion of post-excavation confirmation sampling demonstrating remaining soil is below applicable NR720 RCLs and additional groundwater sampling demonstrating concentrations below the applicable ES, a site closure package (WDNR Case Closure Request Form 4400-202 and supporting attachments) should be prepared in support of case closure without continuing obligations or inclusion in the BRRTs registry.

5.3.2 Site CTU007 (UST 215)

Soil PAH concentrations exceeding the NR 720 RCLs for non-industrial direct contact and pathway-to-groundwater are present in boring locations aligned with Tank 1 and Tank 2 at Site CTU007 **(Figure 4)**. Site CTU007 groundwater samples exhibited no groundwater ES or PAL exceedances **(Figure 8)**. Based on these data, the following is recommended:

- Additional soil sampling to define the extent of PAH contamination and determine the volume of soil to be removed.
- Soil removal with post-excavation confirmation sampling of the base and sidewalls of the excavation to demonstrate that remaining soil is below applicable NR 720 RCLs.

Further groundwater assessment is not necessary unless field observations indicate contamination in areas away from the temporary well locations near the water table.

Following completion of excavation and further groundwater sampling, a site closure package (WDNR Case Closure Request Form 4400-202 and supporting attachments) should be prepared in support of case closure without continuing obligations or inclusion in the BRRTs registry.

Following completion of post-excavation confirmation sampling demonstrating remaining soil is below applicable NR 720 RCLs, a site closure package (WDNR Case Closure Request Form 4400-202 and supporting attachments) should be prepared in support of case closure without continuing obligations or inclusion in the BRRTs registry.

5.3.3 Site CTU008 (UST 219)

Soil at CTU008 has VOC concentrations exceeding the NR 720 RCLs for non-industrial direct contact and pathway-to-groundwater localized at the former dispenser location **(Figure 5)**. No exceedances were observed in soil vapor samples. Groundwater samples exhibited VOC PAL exceedances in two of three temporary wells for benzene and xylenes; results were below the ES **(Figure 9)**. Based on these data, the following is recommended:

- Additional soil sampling to define the extent of VOC contamination and determine the volume of soil to be removed.
- Soil removal with post-excavation confirmation sampling of the base and sidewalls of the excavation to demonstrate that remaining soil is below applicable NR 720 RCLs.
- Additional groundwater sampling at existing temporary groundwater monitoring well CTU008-TW01 to confirm the SI sampling results below the applicable ES.
- Installation, development, and sampling of an additional NR141-compliant temporary groundwater monitoring well near the dispenser (CTU008-SB05) to demonstrate that groundwater is below the applicable ES.

Following completion of post-excavation confirmation sampling demonstrating remaining soil is below applicable NR 720 RCLs and additional groundwater sampling demonstrating concentrations below the applicable ES, a site closure package (WDNR Case Closure Request Form 4400-202 and supporting

attachments) should be prepared in support of case closure without continuing obligations or inclusion in the BRRTs registry.

5.3.4 Site CTU011

Soil PAH concentrations exceeding the NR 720 RCLs for non-industrial direct contact and pathway-to-groundwater are present in 1 of 24 samples, located near the former 5,000-gallon UST **(Figure 6)**. Groundwater concentrations of lead exceeded the NR 140 PAL, but below the ES, in temporary well CTU011-TW04 and concentrations of VOCs (bromomethane) and PAHs exceeded NR 140 PALs in temporary well CTU008-TW01. Minimal groundwater PAH PAL exceedances were exhibited in 2 of 5 wells, however, there were no ES exceedances **Figure 10)** This site is also in the footprint of Phase I of the planned development of the South Cargo Logistics Hub. Based on these data, the following is recommended:

- Soil excavation to remove the single soil exceedance followed by post-excavation confirmation sampling to demonstrate that remaining soil is below applicable NR 720 RCLs. Soil excavation and sampling activities can be coordinated with the upcoming redevelopment.
- Additional sampling of existing temporary groundwater monitoring wells CTU011-TW01 and CTU011-TW04 to confirm the SI sampling results and establish concentration trends to demonstrate that groundwater is below the applicable ES.

Following completion of post-excavation confirmation sampling demonstrating remaining soil is below applicable NR 720 RCLs and additional groundwater sampling demonstrating concentrations below the applicable ES, a site closure package (WDNR Case Closure Request Form 4400-202 and supporting attachments) should be prepared in support of case closure without continuing obligations or inclusion in the BRRTs registry.

6.0 REFERENCES

Air Force Civil Engineering Center (AFCEC), 2021. *Statement of Work for Architect-Engineering (A-E) Services to Support Underground Storage Tank (UST) Preliminary Assessment/Site Inspection (PA/SI)*. Former General Mitchell Air Reserve Station. July 2021.

Amec Foster Wheeler Environment and Infrastructure, Inc. (AMEC), 2017. *Final Site Investigation of Potential Perfluorinated Compound (PFC) Release Areas at Multiple United States Air Force Base Realignment and Closure (BRAC) Installations. Installation-Specific Work Plan.* Former General Mitchell Air Reserve Station. May 2017.

CTI-URS Environmental Services, LLC (CUES), 2022. *Final Uniform Federal Policy – Quality Assurance Project Plan, Preliminary Assessment/Site Inspection, Sites CTU006; CTU007; CTU008 and CTU011, CTU012, CTU013.* General Mitchell Air Reserve Station, Wisconsin. December 2022.

Harenda Enterprises (Harenda), 1994. *Phase One Site Assessment Report for Underground Storage Tank Removed at 440th Airlift Support Group, 300 East College Avenue, Milwaukee, WI, 53097*. Former General Mitchell Air Reserve Station. November 1994.

Science Applications International Corporation (SAIC), 1991. *Final Remedial Investigation Report, Volume I*. Former General Mitchell Air Reserve Station. October 1991.

Stiles Environmental, Inc., 1998. *Tank Closure Reports, Tank #1, Tank #2, and Tank #3.* Former General Mitchell Air Reserve Station. March 1998.

Tony's Cement Works (TCW), 1995. *Underground Storage Tank Removal*. General Mitchell International Airport, Milwaukee, Wisconsin. November 1995.

This page intentionally left blank.

FIGURES

This page intentionally left blank.

LEGEND

FORMER GENERAL MITCHELL ARS PROPERTY LINE

NOTES:

1. THE FORMER GENERAL MITCHELL ARS PROPERTY LINE IS APPROXIMATE AND IS OBTAINED FROM HISTORICAL DOCUMENTATION.

N

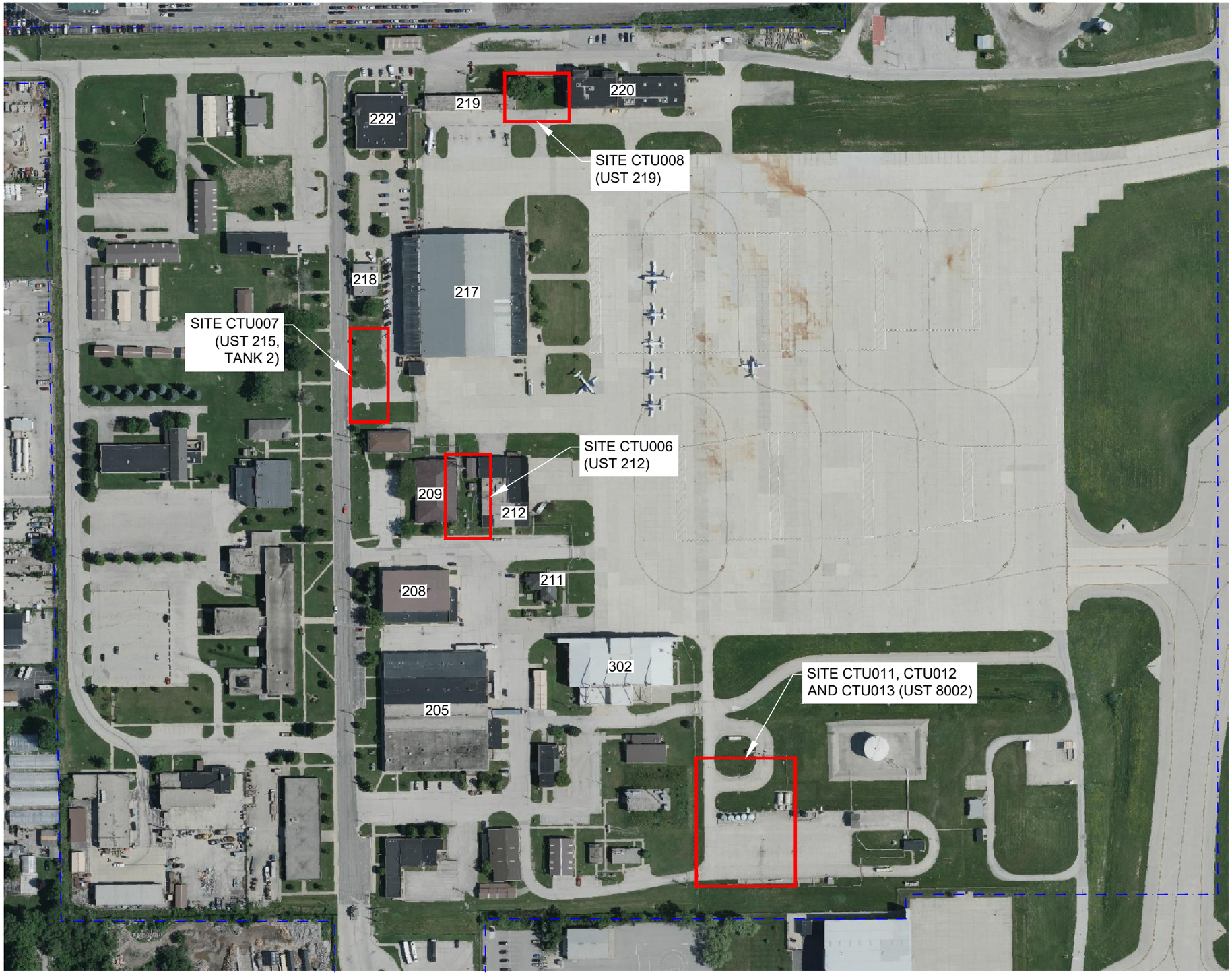
0 1500 3000 Feet

CTI-URS
Environmental Services, LLC

INSTALLATION LOCATION MAP

PRELIMINARY ASSESSMENT AND SITE INSPECTION
FORMER GENERAL MITCHELL AIR RESERVE STATION
MILWAUKEE, WISCONSIN

Drawn By:	Date:	
RAB	MARCH 2022	FIGURE 01
Reviewed By:	Project No.:	
JB	1215010024	



LEGEND

- FORMER GENERAL MITCHELL ARS PROPERTY LINE
- SITE BOUNDARY
- 217 BUILDING IDENTIFIER

NOTES:

1. THE FORMER GENERAL MITCHELL ARS PROPERTY LINE IS APPROXIMATE AND IS OBTAINED FROM HISTORICAL DOCUMENTATION.

N

0 200 400 Feet

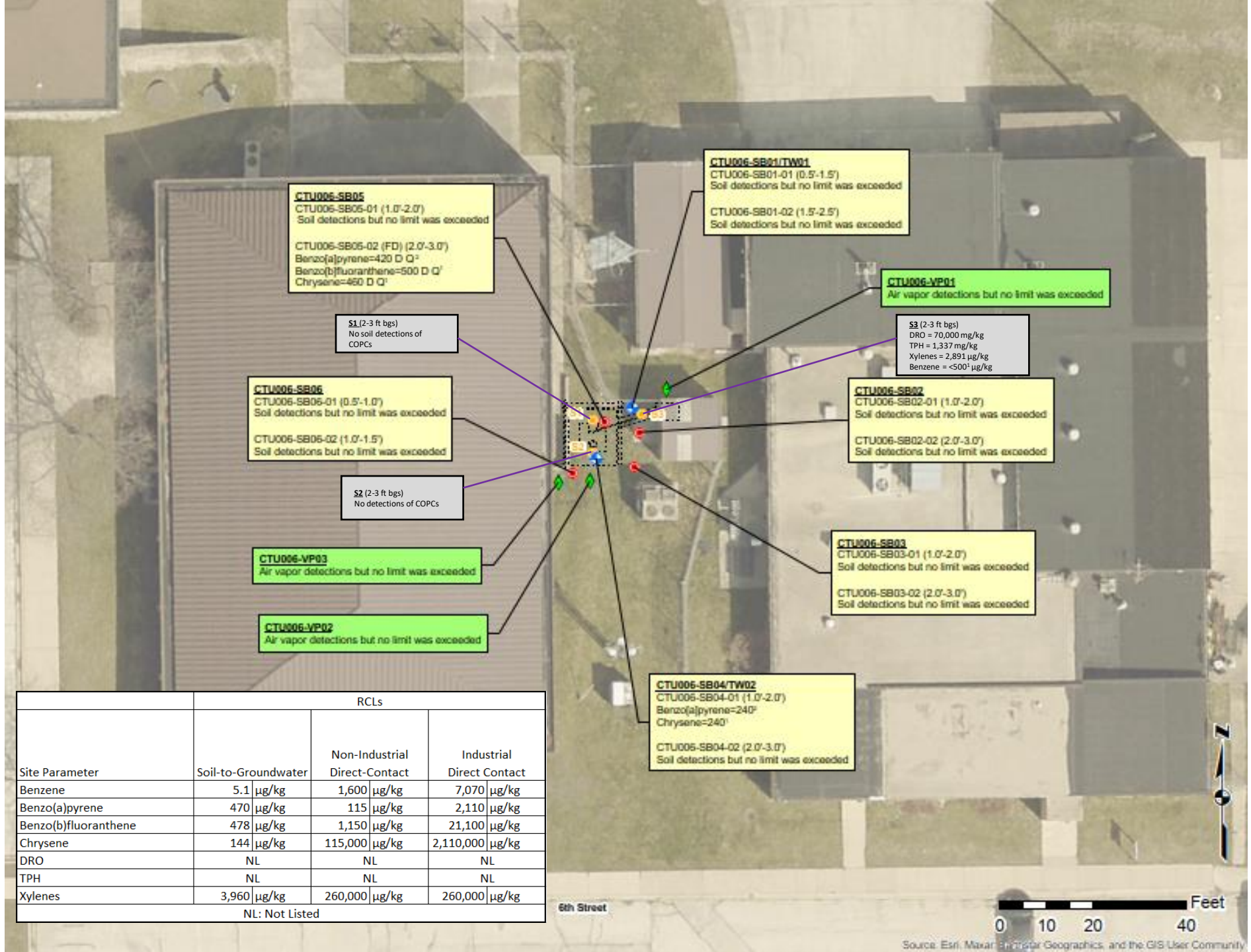
CTI-URS
Environmental Services, LLC

OVERALL SITE MAP

PRELIMINARY ASSESSMENT AND SITE INSPECTION
FORMER GENERAL MITCHELL AIR RESERVE STATION
MILWAUKEE, WISCONSIN

Drawn By:	Date:	
RAB	MARCH 2022	FIGURE 02
Reviewed By:	Project No.:	
JB	1215010024	

FIGURE 3
SITE CTU006 SOIL AND SOIL VAPOR EXCEEDANCES AND HISTORICAL DATA



	RCLs					
Site Parameter	Soil-to-Groundwater		Non-Industrial Direct-Contact		Industrial Direct Contact	
Benzene	5.1	µg/kg	1,600	µg/kg	7,070	µg/kg
Benzo(a)pyrene	470	µg/kg	115	µg/kg	2,110	µg/kg
Benzo(b)fluoranthene	478	µg/kg	1,150	µg/kg	21,100	µg/kg
Chrysene	144	µg/kg	115,000	µg/kg	2,110,000	µg/kg
DRO	NL		NL		NL	
TPH	NL		NL		NL	
Xylenes	3,960	µg/kg	260,000	µg/kg	260,000	µg/kg
NL: Not Listed						

Legend

- Soil Boring
  Soil Samples Obtained February 2023
- Historical Soil Boring
  soil samples obtained October 1995
- Temporary Vapor Well
  vapor samples obtained February 2023
- Soil Boring/Temporary Monitoring Well
- Former UST Associated Features (Site 6)

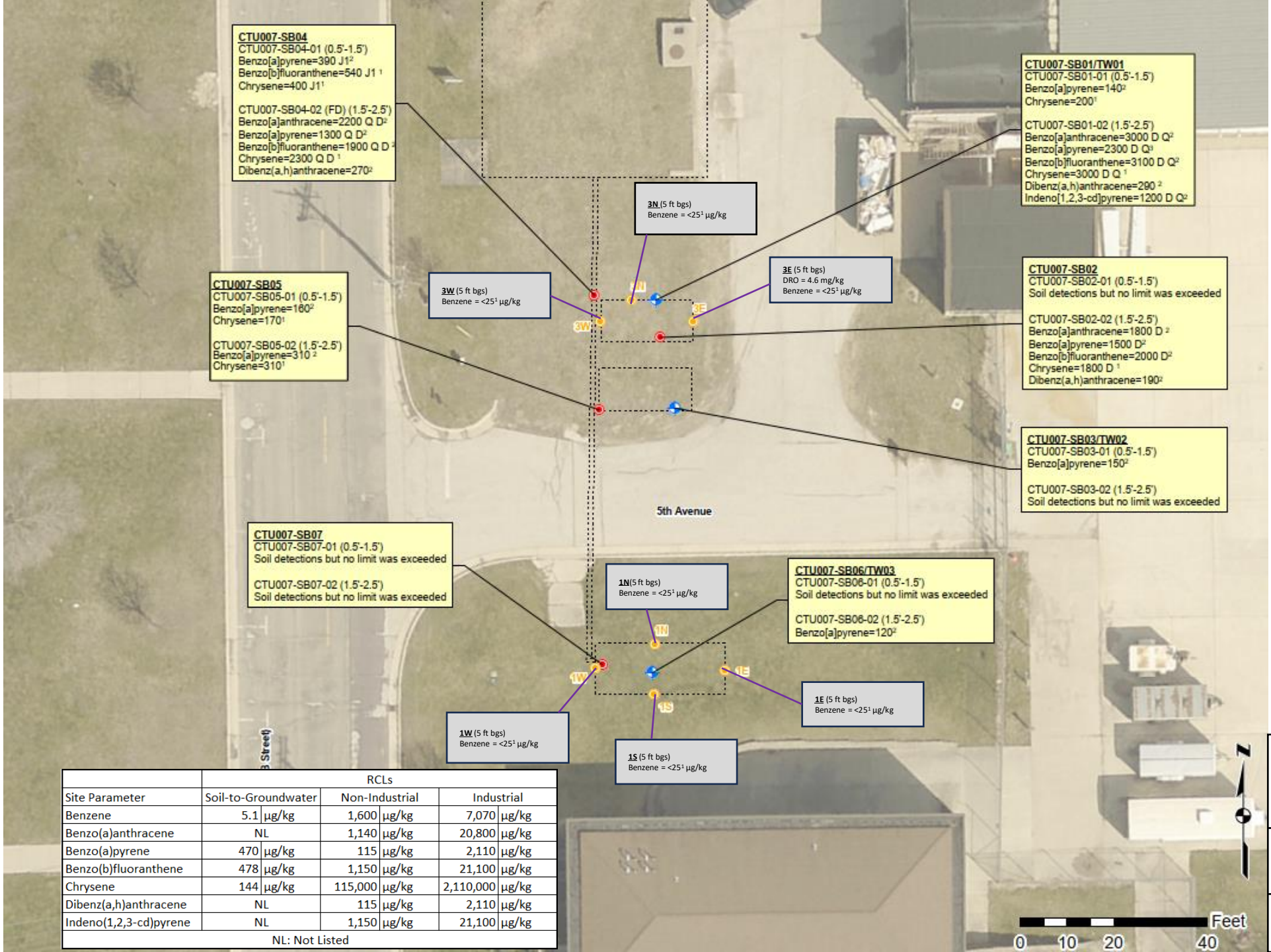
Notes:
1. Soil samples were analyzed for VOCs
   Vapor results were tested for VOCs
2. Locations are approximate
3. Only RCL exceedances are shown for February 2023 SI Data
   [1] Exceeds WDNR Soil-to-Groundwater Pathway RCL
   [2] Exceeds WDNR Non-Industrial Direct Contact RCL
4. All detections of Constituents of Potential Concern (COPC) are shown for historical data (see also Table 1);
   [1] Exceeds WDNR Soil-to-Groundwater Pathway RCL ("less than" concentrations indicate potential exceedance due to high reporting limits)
5. If a field duplicate (FD) sample was obtained the higher value was used for presentation
6. Soil units are in µg/kg (micrograms per kilogram) unless specified
7. Vapor units are in µg/m^3 (micrograms per cubic meter)
8. Yellow shaded background indicates February 2023 SI soil results
   Green shaded background indicates February 2023 vapor results
   Gray shaded background indicates historical soil results
9. Laboratory Qualifiers:
   J = Estimated value (+/- indicates bias)/ Value is below the Reporting Limit/LOQ
   D = Field duplicate imprecision
   Q = Ion transition ratio is outside of the acceptance criteria

DRO – Diesel Range Organics
TPH – Total Petroleum Hydrocarbons
GRO – Gasoline Range Organics
bgs – below ground surface
mg/kg – milligram per kilogram

CTI-URS
Environmental Services, LLC

Approved By:	Date:
Project No.:	

FIGURE 4
SITE CTU007 SOIL EXCEEDANCES AND HISTORICAL DATA



Legend

- Soil Boring — Soil samples obtained February 2023
- Historical Soil Boring — Soil samples obtained March 1998
- Soil Boring/Temporary Monitoring Well
- Former UST Associated Features (Site 7)

Notes:
1. Soil samples were analyzed for VOCs
2. Locations are approximate
3. Only RCL exceedances are shown for February 2023 SI Data
   [1] Exceeds WDNR Soil-to-Groundwater Pathway RCL
   [2] Exceeds WDNR Non-Industrial Direct Contact RCL
   [3] Exceeds WDNR Industrial Direct Contact RCL
4. All detections of Constituents of Potential Concern (COPC) are shown for historical data (see also Table 1); [1] Exceeds WDNR Soil-to-Groundwater Pathway RCL ("less than" concentrations indicate potential exceedance due to high reporting limits)
5. If a field duplicate (FD) sample was obtained the higher value was used for presentation
6. Soil units are in µg/kg (micrograms per kilogram) unless specified
7. Yellow shaded background indicates February 2023 SI soil results
   Gray shaded background indicates historical soil results
8. Laboratory Qualifiers:
   J = Estimated value (+/- indicates bias)/ Value is below the Reporting Limit/LOQ
   D = Field duplicate imprecision
   Q = Ion transition ratio is outside of the acceptance criteria

DRO – Diesel Range Organics
TPH – Total Petroleum Hydrocarbons
GRO – Gasoline Range Organics
bgs – below ground surface
mg/kg – milligram per kilogram

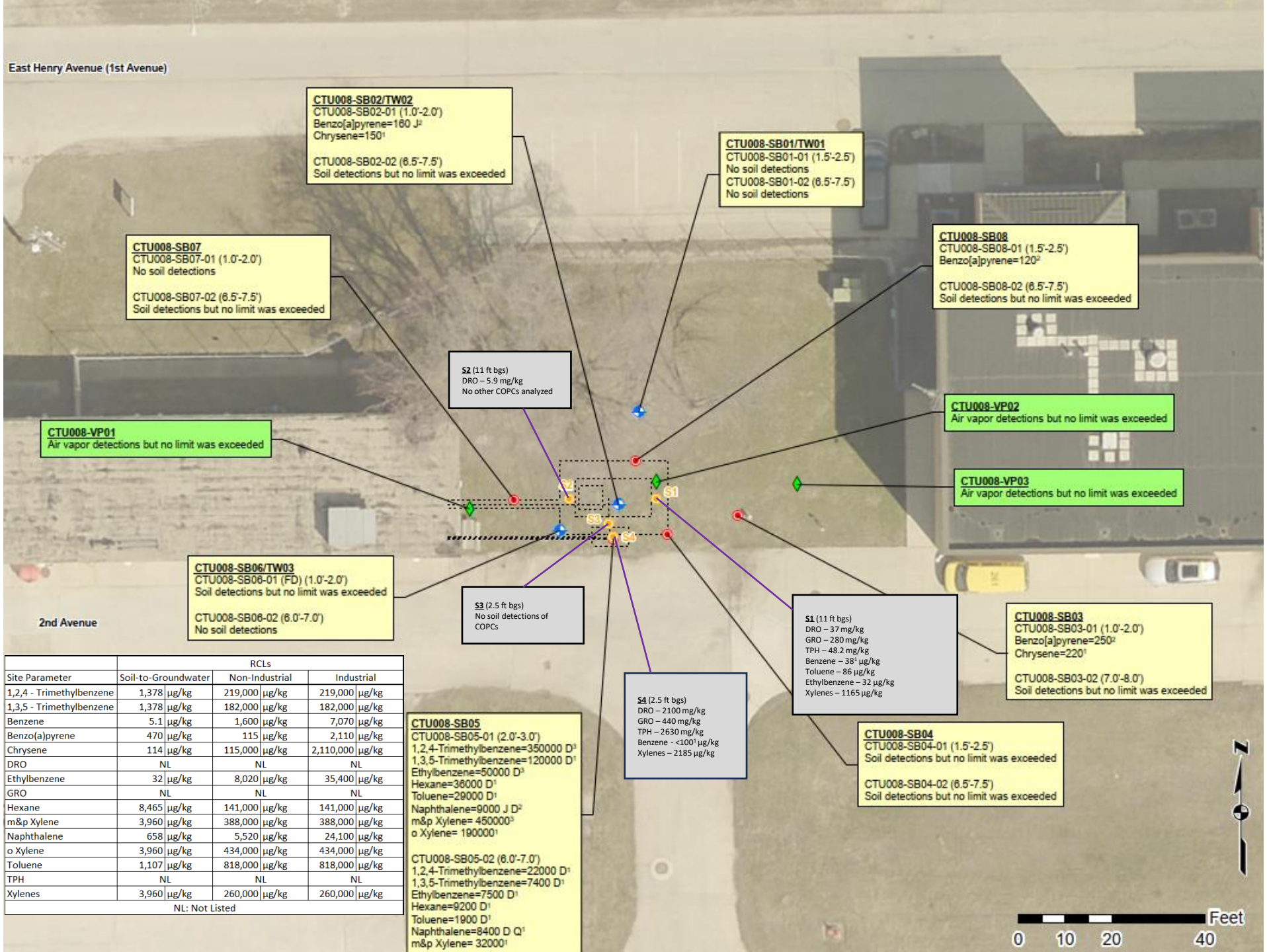
	RCLs					
Site Parameter	Soil-to-Groundwater		Non-Industrial		Industrial	
Benzene	5.1	µg/kg	1,600	µg/kg	7,070	µg/kg
Benzo(a)anthracene	NL		1,140	µg/kg	20,800	µg/kg
Benzo(a)pyrene	470	µg/kg	115	µg/kg	2,110	µg/kg
Benzo(b)fluoranthene	478	µg/kg	1,150	µg/kg	21,100	µg/kg
Chrysene	144	µg/kg	115,000	µg/kg	2,110,000	µg/kg
Dibenz(a,h)anthracene	NL		115	µg/kg	2,110	µg/kg
Indeno(1,2,3-cd)pyrene	NL		1,150	µg/kg	21,100	µg/kg

NL: Not Listed

CTI-URS
Environmental Services, LLC

Approved By:	Date:
Project No.:	

FIGURE 5
SITE CTU008 SOIL AND SOIL VAPOR EXCEEDANCES AND HISTORICAL DATA



	RCLs					
Site Parameter	Soil-to-Groundwater		Non-Industrial		Industrial	
1,2,4 - Trimethylbenzene	1,378	µg/kg	219,000	µg/kg	219,000	µg/kg
1,3,5 - Trimethylbenzene	1,378	µg/kg	182,000	µg/kg	182,000	µg/kg
Benzene	5.1	µg/kg	1,600	µg/kg	7,070	µg/kg
Benzo(a)pyrene	470	µg/kg	115	µg/kg	2,110	µg/kg
Chrysene	114	µg/kg	115,000	µg/kg	2,110,000	µg/kg
DRO	NL		NL		NL	
Ethylbenzene	32	µg/kg	8,020	µg/kg	35,400	µg/kg
GRO	NL		NL		NL	
Hexane	8,465	µg/kg	141,000	µg/kg	141,000	µg/kg
m&p Xylene	3,960	µg/kg	388,000	µg/kg	388,000	µg/kg
Naphthalene	658	µg/kg	5,520	µg/kg	24,100	µg/kg
o Xylene	3,960	µg/kg	434,000	µg/kg	434,000	µg/kg
Toluene	1,107	µg/kg	818,000	µg/kg	818,000	µg/kg
TPH	NL		NL		NL	
Xylenes	3,960	µg/kg	260,000	µg/kg	260,000	µg/kg

NL: Not Listed

Legend

- Soil Boring
  soil samples obtained January 2023
- Historical Soil Boring
  soil samples obtained October 1995
- Temporary Vapor Well
  vapor samples obtained January 2023
- Soil Boring/Temporary Monitoring Well
- Former UST Associated Features (Site 8)

Notes:

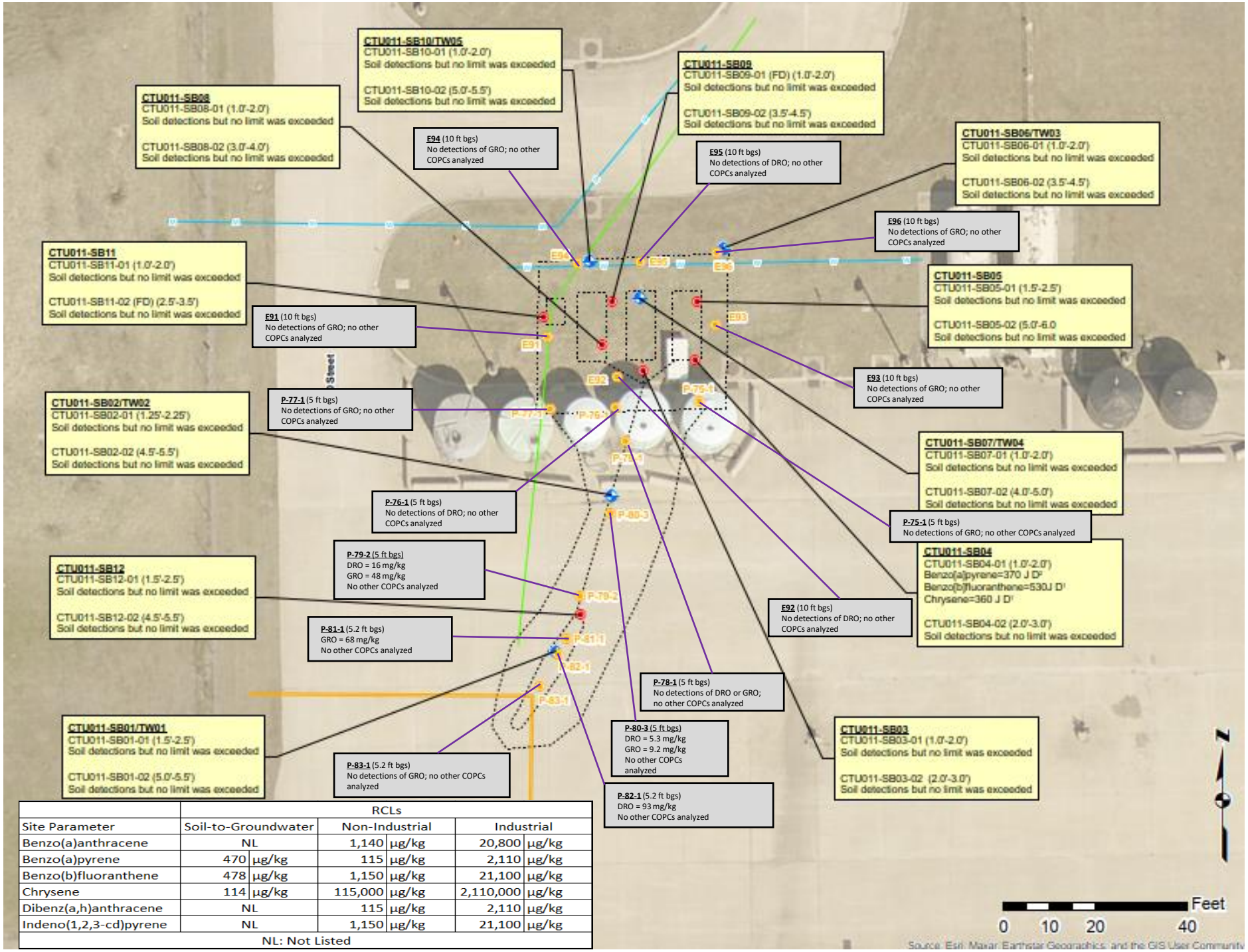
1. Soil samples were analyzed for VOCs
   Vapor results were tested for VOCs
2. Locations are approximate
3. Only RCL exceedances are shown for February 2023 SI Data
   [1] Exceeds WDNR Soil-to-Groundwater Pathway RCL
   [2] Exceeds WDNR Non-Industrial Direct Contact RCL
   [3] Exceeds WDNR Industrial Direct Contact RCL
4. All detections of Constituents of Potential Concern (COPC) are shown for historical data (see also Table 1);
   [1] Exceeds WDNR Soil-to-Groundwater Pathway RCL ("less than" concentrations indicate potential exceedance due to high reporting limits)
5. If a field duplicate (FD) sample was obtained the higher value was used for presentation
6. Soil units are in µg/kg (micrograms per kilogram) unless specified
7. Vapor units are in µg/m^3 (micrograms per kilogram)
8. Yellow shaded background indicates February 2023 SI soil results
   Green shaded background indicates vapor results
   Gray shaded background indicates historical soil results
9. Laboratory Qualifiers:
   J = Estimated value (+/- indicates bias)/ Value is below the Reporting Limit/LOQ
   D = Field duplicate imprecision
   Q = Ion transition ratio is outside of the acceptance criteria

DRO – Diesel Range Organics
TPH – Total Petroleum Hydrocarbons
GRO – Gasoline Range Organics
bgs – below ground surface
mg/kg – milligram per kilogram

CTI-URS
Environmental Services, LLC

Approved By:	Date:
Project No.:	

FIGURE 6
SITE CTU011 SOIL EXCEEDANCES AND HISTORICAL DATA



Site Parameter	RCLs Soil-to-Groundwater		Non-Industrial		Industrial	
Benzo(a)anthracene	NL		1,140	µg/kg	20,800	µg/kg
Benzo(a)pyrene	470	µg/kg	115	µg/kg	2,110	µg/kg
Benzo(b)fluoranthene	478	µg/kg	1,150	µg/kg	21,100	µg/kg
Chrysene	114	µg/kg	115,000	µg/kg	2,110,000	µg/kg
Dibenz(a,h)anthracene	NL		115	µg/kg	2,110	µg/kg
Indeno(1,2,3-cd)pyrene	NL		1,150	µg/kg	21,100	µg/kg

NL: Not Listed

Legend

- Soil Boring
  Soil Samples Obtained February 2023
- Historical Soil Boring
  soil samples obtained September 1994
- Soil Boring/Temporary Monitoring Well
- 4" PVC Water Line
- Communications Line
- SD Line
- Water Main
- Former UST Associated Features (Site 11)

Notes:
1. Soil samples were analyzed for VOCs
2. Locations are approximate
3. Only RCL exceedances are shown for February 2023 SI Data
   [1] Exceeds WDNR Soil-to-Groundwater Pathway RCL
   [2] Exceeds WDNR Non-Industrial Direct Contact RCL
   [3] Exceeds WDNR Industrial Direct Contact RCL
4. All detections of Constituents of Potential Concern (COPC) are shown for historical data (see also Table 1);
   [1] Exceeds WDNR Soil-to-Groundwater Pathway RCL ("less than" concentrations indicate potential exceedance due to high reporting limits)
5. If a field duplicate (FD) sample was obtained the higher value was used for presentation
6. Soil units are in µg/kg (micrograms per kilogram) unless specified
7. Yellow shaded background indicates February 2023 SI soil results
   Gray shaded background indicates historical soil results
8. Laboratory Qualifiers:
   J = Estimated value (+/- indicates bias)/ Value is below the Reporting Limit/LOQ
   D = Field duplicate imprecision

DRO – Diesel Range Organics
GRO – Gasoline Range Organics
bgs – below ground surface
mg/kg – milligram per kilogram

CTI-URS
Environmental Services, LLC

Approved By:	Date:
Project No.:	

FIGURE 7
SITE CTU006 GROUNDWATER EXCEEDANCES

Milwaukee Mitchell International Airport
Milwaukee, Wisconsin

Legend

- Soil Boring
- Historical Soil Boring
- Temporary Vapor Well
- Soil Boring/Temporary Monitoring Well
- Former UST Associated Features (Site 6)

Notes:
1. Water samples were tested for VOCs, PAHs.
2. Locations are approximate.
3. Only ES (**Bold**) or PAL (*Italicized/Underlined*) exceedances are shown.
4. If a field duplicate (FD) sample was obtained the higher value was used for presentation.
5. Water units are in ug/L (micrograms per Liter).
6. Blue shaded background indicates groundwater results.
7. Laboratory Flags:
   J=Estimated value (+/- indicates bias)/Value is below the Reporting Limit/LOQ
   B=Detected in Equipment Blank
8. Groundwater samples were obtained on February 8, 2023.

1 inch = 20 feet

AECOM
1555 N. RiverCenter Drive, Suite 214
Milwaukee, Wi 53212
PH: 414-944-6080
www.aecom.com

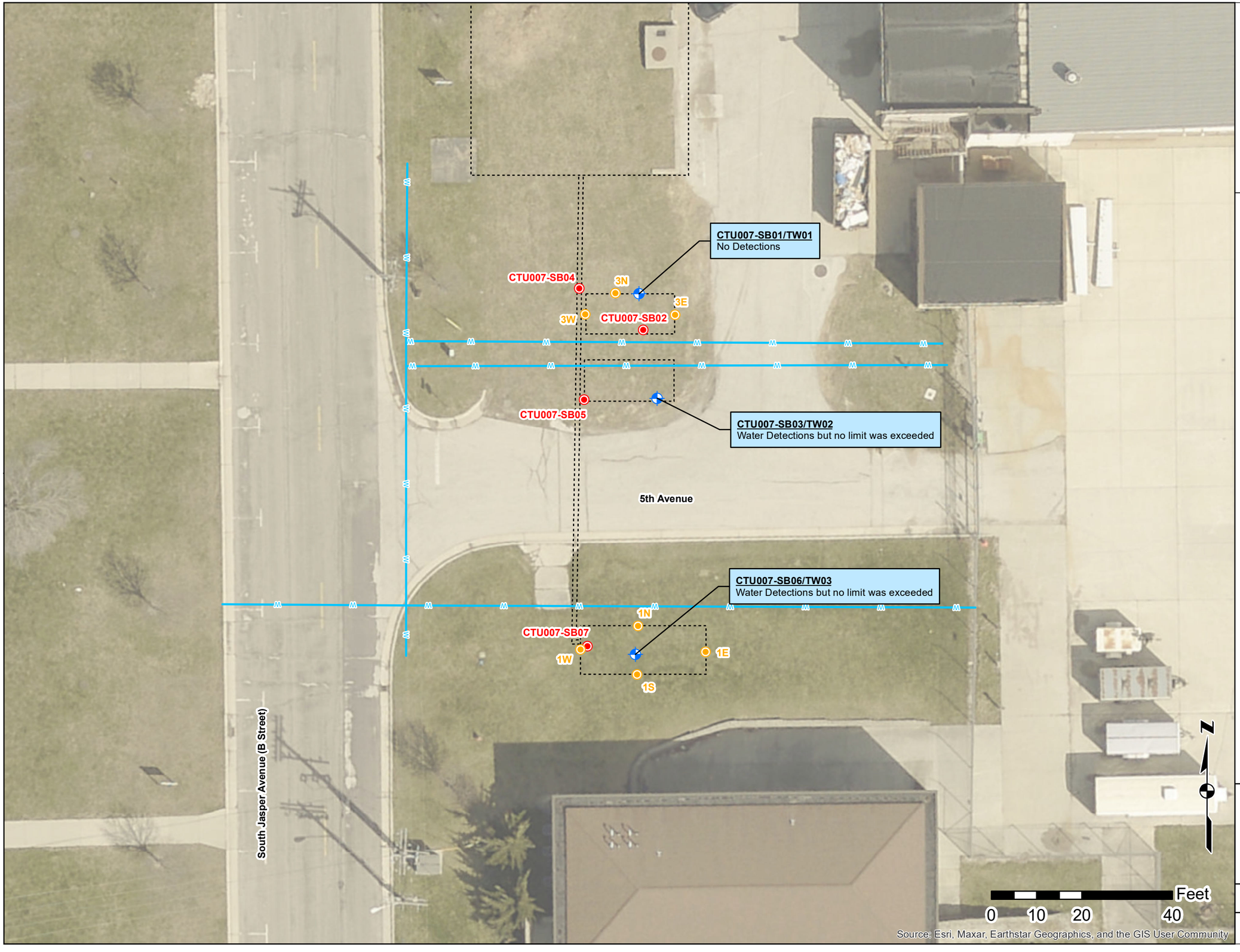
APPROVED BY: TAS	DATE: 9/29/2023

Project No.: 60676873

C:\data\Projects\Airport_Milw\mxd\Site6_GW.mxd

FIGURE 8
SITE CTU007 GROUNDWATER EXCEEDANCES

Milwaukee Mitchell International Airport
Milwaukee, Wisconsin



Legend

- Soil Boring
- Historical Soil Boring
- Soil Boring/Temporary Monitoring Well
- Water Main
- Former UST Associated Features (Site 7)

Notes:
1. Water samples were tested for VOCs, PAHs.
2. Locations are approximate.
3. If a field duplicate (FD) sample was obtained the higher value was used for presentation.
4. Water units are in ug/L (micrograms per Liter).
5. Blue shaded background indicates groundwater results.
6. Groundwater samples were obtained on February 8, 2023.

1 inch = 20 feet

AECOM
1555 N. RiverCenter Drive, Suite 214
Milwaukee, Wi 53212
PH: 414-944-6080
www.aecom.com

APPROVED BY: TAS	DATE: 9/29/2023

Project No.: 60676873

C:\data\Projects\Airport_Milw\mxd\Site7_GW.mxd

FIGURE 9
SITE CTU008 GROUNDWATER EXCEEDANCES

Milwaukee Mitchell International Airport
Milwaukee, Wisconsin

East Henry Avenue (1st Avenue)

CTU008-SB01/TW01
Benzene=*0.71 J*
m&p-Xylene=1.5 J
o-Xylene=0.79 J

CTU008-SB02/TW02
m&p-Xylene=0.99 J

CTU008-SB08
CTU008-VP02
CTU008-SB07
S2
S1
CTU008-VP01
CTU008-VP03
S3
CTU008-SB03
S4
CTU008-SB04
CTU008-SB05

CTU008-SB06/TW03 (FD)
Water Detections but no limit was exceeded

2nd Avenue

N

0 10 20 40 Feet

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

Legend

- Soil Boring
- Historical Soil Boring
- Temporary Vapor Well
- Soil Boring/Temporary Monitoring Well
- Former UST Associated Features (Site 8)

Notes:
1. Water samples were tested for VOCs, PAHs.
2. Locations are approximate.
3. Only ES (**Bold**) or PAL (*Italicized/Underlined*) exceedances are shown.
4. If a field duplicate (FD) sample was obtained the higher value was used for presentation.
5. Water units are in ug/L (micrograms per Liter).
6. Blue shaded background indicates groundwater results.
7. Laboratory Flags:
   J=Estimated value (+/- indicates bias)/Value is below the Reporting Limit/LOQ
8. Groundwater samples were obtained on February 7 and 20, 2023.

1 inch = 20 feet

AECOM
1555 N. RiverCenter Drive, Suite 214
Milwaukee, Wi 53212
PH: 414-944-6080
www.aecom.com

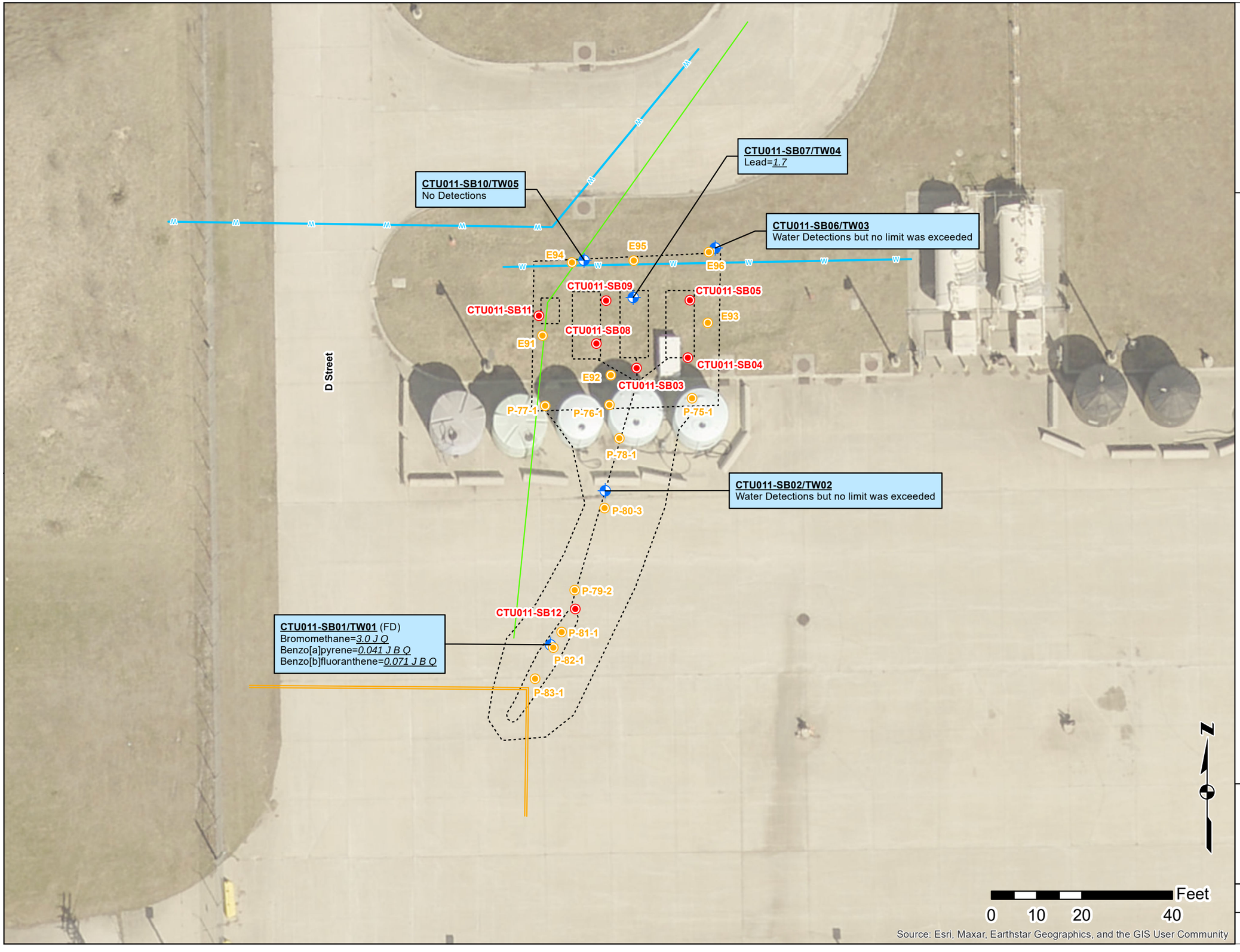
APPROVED BY: TAS	DATE: 9/29/2023

Project No.: 60676873

C:\data\Projects\Airport_Milw\mxd\Site8_GW.mxd

FIGURE 10
SITE CTU011 GROUNDWATER EXCEEDANCES

Milwaukee Mitchell International Airport
Milwaukee, Wisconsin



Legend

- Soil Boring
- Historical Soil Boring
- Soil Boring/Temporary Monitoring Well
- 4" PVC Water Line
- Communications Line
- SD Line
- Water Main
- Former UST Associated Features (Site 11)

Notes:
1. Water samples were tested for lead and VOCs.
2. Locations are approximate.
3. Only ES (**Bold**) or PAL (*Italicized/Underlined*) exceedances are shown.
4. If a field duplicate (FD) sample was obtained the higher value was used for presentation.
5. Water units are in ug/L (micrograms per Liter).
6. Blue shaded background indicates groundwater results.
7. Laboratory Flags:
   J=Estimated value (+/- indicates bias)/Value is below the Reporting Limit/LOQ
   B=Detected in Equipment Blank
   Q=Ion transition ratio is outside of the acceptance criteria
8. Groundwater samples were obtained on February 7 and 20, 2023.

1 inch = 20 feet

AECOM
1555 N. RiverCenter Drive, Suite 214
Milwaukee, Wi 53212
PH: 414-944-6080
www.aecom.com

APPROVED BY: TAS	DATE: 9/29/2023

Project No.: 60676873

C:\data\Projects\Airport_Milwlmxd\Site11_GW.mxd

TABLES

This page intentionally left blank.

Table 1
Historical Soil Sample Analytical Results
Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:				Diesel Range Organics (DRO)	Total Petroleum Hydrocarbon (TPH)	Gasoline Range Organics (GRO)	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl-tert-butyl-ether	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Xylenes, -m, -p	Xylene-o
WDNR Soil-Groundwater RCL[1]				NL	NL	NL	5.1	1,107	1,570	3,960	27	1,378	1,378	3,960	3,960
WDNR Direct Contact, Non-Industrial RCL[2]				NL	NL	NL	1,600	818,000	8,020	260,000	63,800	182,000	219,000	388,000	434,000
WDNR Direct Contact, Industrial RCL[3]				NL	NL	NL	7,070	818,000	35,400	260,000	282,000	182,000	219,000	388,000	434,000
Units:				mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Sample Location	Sample ID	Sample Date	Sample Depth Interval (ft bgs)	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Site CTU006 (UST 3)	S1	Oct-95	10	<10	<20	N/A	<2.0	<2.0	<2.0	<2.0	N/A	N/A	N/A	N/A	N/A
	S2	Oct-95	10	<10	<20	N/A	<2.0	<2.0	<2.0	<2.0	N/A	N/A	N/A	N/A	N/A
	S3	Oct-95	2.5	70,000	1,337	N/A	<500	<500	<500	2,891	N/A	N/A	N/A	N/A	N/A
Site CTU007 (UST 3)	1N	Mar-98	5	<4.2	N/A	N/A	<25	<25	<25	N/A	<25	<25	<25	<25	<25
	1S	Mar-98	5	<4.3	N/A	N/A	<25	<25	<25	N/A	<25	<25	<25	<25	<25
	1E	Mar-98	5	<4.2	N/A	N/A	<25	<25	<25	N/A	<25	<25	<25	<25	<25
	1W	Mar-98	5	<4.0	N/A	N/A	<25	<25	<25	N/A	<25	<25	<25	<25	<25
	3W	Mar-98	5	<4.2	N/A	N/A	<25	<25	<25	N/A	<25	<25	<25	<25	<25
	3N	Mar-98	5	<4.0	N/A	N/A	<25	<25	<25	N/A	<25	<25	<25	<25	<25
	3E	Mar-98	5	4.6	N/A	N/A	<25	<25	<25	N/A	<25	<25	<25	<25	<25
Site CTU008 (UST 4)	S1	Oct-95	11	37	48.2	280	38	86	32	1,165	N/A	N/A	N/A	N/A	N/A
	S2	Oct-95	11	5.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	S3	Oct-95	2.5	<10	<20	<10	<2.0	<2.0	<2.0	<6.0	N/A	N/A	N/A	N/A	N/A
	S4	Nov-95	2.5	2,100	2,630	440	<100	<100	<100	2,185	N/A	N/A	N/A	N/A	N/A
Site CTU011 (UST 4)	P-75-1	Sep-94	5	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	P-76-1	Sep-94	5	<4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	P-77-1	Sep-94	5	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	P-78-1	Sep-94	5	<4	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	P-79-2	Sep-94	5	16	N/A	48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	P-80-3	Sep-94	5	5.3	N/A	9.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	P-81-1	Sep-94	5.2	N/A	N/A	68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	P-82-1	Sep-94	5.2	93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	P-83-1	Sep-94	5.2	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	E91	Sep-94	10	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	E92	Sep-94	10	<4.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	E93	Sep-94	10	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	E94	Sep-94	10	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	E95	Sep-94	10	<4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	E96	Sep-94	10	N/A	N/A	<5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

FD - Field Duplicate

ft bgs - Feet below ground surface

mg/kg - milligrams per kilogram

µg/kg - micrograms per kilogram

N/A - not analyzed

NL - Not listed

WDNR – Wisconsin Department of Natural Resources

1 WDNR Chapter NR 720, Soil Residual Contaminant Level (RCL) Worksheet, Soil-to-Groundwater Pathway (Dilution Factor = 2), December 2018

2 WDNR Chapter NR720, Soil Residual Contaminant Level (RCL) Worksheet, Direct Contact Non-Industrial Land Usage, December 2018

3 WDNR Chapter NR720, Soil Residual Contaminant Level (RCL) Worksheet, Direct Contact Industrial Land Usage, December 2018

Analytical results shown are reported in:

- Tony's Cement Works, 1995. Underground Storage Tank Removal. General Mitchell International Airport, Milwaukee, Wisconsin. November 1995.

- Harend Enterprises, 1994. Phase One Site Assessment Report for Underground Storage Tank Removed at 440th Airlift Support Group, 300 East College Avenue, Milwaukee, WI 53097. Former General Mitchell Air Reserve Station, November 1994.

- Stiles Environmental, Inc., 1998. Tank Closure Reports, Tank #1, Tank #2, and Tank #3. Former General Mitchell Air Reserve Station. March 1998.

Exceedance or potential exceedance of Soil-to-Groundwater Pathway RCL.

Table 2
Soil Boring Summary
Former General Mitchell Air Reserve Station, WI

Boring Number	Date Installed	Northing	Easting	Total Depth (ft bgs)
CTU006-SP01	2/2/2023	42.93379694	87.90553389	15.0
CTU006-SP02	no date on form	42.93378278	87.905525	10.0
CTU006-SP03	2/2/2023	42.933765	87.90551833	10.0
CTU006-SP04	2/2/2023			10.0
CTU006-SB05	2/2/2023	42.9337633	87.9055875	10.0
CTU006-SB06	2/2/2023	42.93377	87.90555333	4.5
CTU007-SB01	2/6/2023	42.93440944	87.90614417	15.0
CTU007-SB02	2/6/2023	42.93438806	87.90614361	10.0
CTU007-SB03	2/6/2023	42.93434639	87.90614861	12.0
CTU007-SB04	2/6/2023	42.93441083	87.90618417	10.0
CTU007-SB05	2/6/2023	42.93434889	87.90615528	10.0
CTU007-SB06	2/6/2023	42.93416056	87.90615528	15.0
CTU007-SB07	2/6/2023	42.93418472	87.90618111	10.0
CTU008-SB01	1/30/2023	42.93585222	87.90493833	15.0
CTU008-SB02	1/30/2023	42.9358225	87.90495556	12.0
CTU008-SB03	1/30/2023	42.93581583	87.90489278	10.0
CTU008-SB04	1/30/2023	42.9358	87.90491111	10.0
CTU008-SB05	1/30/2023	42.93582972	87.90502917	10.0
CTU008-SP06	1/30/2023	42.93578611	87.90501917	15.0
CTU008-SB07	1/30/2023	42.93582972	87.90502917	10.0
CTU008-SP08	1/30/2023			10.0
CTU011-SB01	2/1/2023			15.0
CTU011-SB02	2/1/2023			15.0
CTU011-SP03	2/1/2023	42.93200972	87.90355194	10.0
CTU011-SP04	2/1/2023	42.93204472	87.90343417	10.0
CTU011-SB05	2/1/2023	42.93204806	87.90344889	10.0
CTU011-SP06	2/1/2023	42.93206306	87.90347389	15.0
CTU011-SP07	2/1/2023	42.93205333	87.90353444	15.0
CTU011-SP08	2/1/2023	42.93202222	87.903565	10.0
CTU011-SP09	2/1/2023	42.9320325	87.903565	10.0
CTU011-SP10	2/1/2023			15.0
CTU011-SP11	2/1/2023	42.93202444	87.90362083	10.0
CTU011-SB12	2/1/2023			10.0

Notes:
ft bgs – feet below ground surface

Table 3
Soil Sampling Summary
Former General Mitchell Air Reserve Station, WI

Site ID	Number of Borings	Number of Soil Samples	Analysis
CTU006 (UST212)	6	12	VOCs, PAHs
CTU007 (UST 215)	7	14	VOCs, PAHs
CTU008 (UST219)	8	16	VOCs, PAHs
CTU011, CTU012, and CTU013 (UST 8002)	12	24	VOCs, PAHs, Lead*

Notes:
PAHs – polynuclear aromatic hydrocarbons
VOCs – volatile organic compounds
*Site CTU011 is the only site at which soil samples were analyzed for lead.

Table 4
Monitoring Well Summary
Former General Mitchell Air Reserve Station, WI

Monitoring Well	Date Installed	Northing	Easting	Total Depth (ft bgs)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Total Screen Length (ft)
CTU006-TW01	2/2/2023	42.93379694	87.90553389	14.00	4.00	14.00	10
CTU006-TW02	2/2/2023			9.50	4.50	9.50	5
CTU007-TW01	2/6/2023	42.93440944	87.90614417	14.50	4.50	14.50	10
CTU007-TW02	2/6/2023	42.93434639	87.90614861	11.75	6.50	11.50	5
CTU007-TW03	2/6/2023	42.93416056	87.90615528	14.50	4.50	14.50	10
CTU008-TW01	1/30/2023	42.93585222	87.90493833	14.50	4.50	14.50	10
CTU008-TW02	1/30/2023	42.9358225	87.90495556	11.00	6.00	11.00	5
CTU008-TW03	1/30/2023	42.93578611	87.90501917	14.50	4.50	14.50	10
CTU011-TW01	2/1/2023	42.931825	87.90361778	14.50	4.50	14.50	10
CTU011-TW02	2/1/2023	42.93192528	87.90356833	14.50	4.50	14.50	10
CTU011-TW03	2/1/2023	42.93206306	87.90347389	14.00	4.00	14.00	10
CTU011-TW04	2/1/2023	42.93205333	87.90353444	14.00	4.00	14.00	10
CTU011-TW05	2/1/2023			14.00	4.00	14.00	10

Notes:
ft bgs – feet below ground surface

Table 5
Groundwater Sampling Summary
Former General Mitchell Air Reserve Station, WI

Site ID	Number of Groundwater Samples	Analysis
CTU006 (UST212)	2	VOCs, PAHs
CTU007 (UST 215)	3	VOCs, PAHs
CTU008 (UST219)	3	VOCs, PAHs
CTU011, CTU012, and CTU013 (UST 8002)	5	VOCs, PAHs

Notes:
VOCs – volatile organic compounds
PAHs – polycyclic aromatic hydrocarbons

Table 6
Soil Vapor Sampling Summary
Former General Mitchell Air Reserve Station, WI

Site ID	Number of Samples	Analysis
CTU006 (UST212)	3	VOCs via TO15
CTU008 (UST219)	3	VOCs via TO15

Notes:
VOCs – volatile organic compounds

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

						1,1,1,2-Tetrachloroethane		1,1,1-Trichloroethane		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1-Dichloroethene		1,2,3-Trichloropropane		1,2,4-Trichlorobenzene		1,2,4-Trimethylbenzene		1,2-Dibromo-3-Chloropropane	
					Analyte:																				
					CAS-RN:	630-20-6		71-55-6		79-34-5		79-00-5		75-34-3		75-35-4		96-18-4		120-82-1		95-63-6		96-12-8	
					WDNR Soil-Groundwater RCL[1]	53.4		140.2		0.2		3.2		483		5		51.9		408		1,378		0.2	
					WDNR Direct Contact, Non-Industrial RCL[2]	2.78		640		810		1.59		5,060		120,000		5		24,000		219,000		8	
					WDNR Direct Contact, Industrial RCL[2]	12.3		640		3,600		7,010		22,200		1,190,000		109		113,000		219,000		92	
					Units:	µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU006 (UST 212)	CTU006-SB01/TW01	CTU006-SB01-01	2/2/2023	N	0.5 - 1.5	3.8	UJ	3.8	UJ	0.77	UJ	3.1	UJ	0.77	UJ	1.5	UJ	0.77	UJ	1.5	UJ	3.8	UJ	8.6	UJ
		CTU006-SB01-02	2/2/2023	N	1.5 - 2.5	3.3	UJ	3.3	UJ	0.67	UJ	2.7	UJ	0.67	UJ	1.3	UJ	0.67	UJ	1.3	UJ	3.3	UJ	7.5	UJ
	CTU006-SB02	CTU006-SB02-01	2/2/2023	N	1 - 2	350	UJ	350	UJ	69	UJ	280	UJ	69	UJ	140	UJ	69	UJ	140	UJ	350	UJ	780	UJ
		CTU006-SB02-02	2/2/2023	N	2 - 3	3.6	UJ	3.6	UJ	0.71	UJ	2.8	UJ	0.71	UJ	1.4	UJ	0.71	UJ	1.4	UJ	3.6	UJ	8.0	UJ
	CTU006-SB03	CTU006-SB03-01	2/2/2023	N	1 - 2	3.5	UJ	3.5	UJ	0.70	UJ	2.8	UJ	0.70	UJ	1.4	UJ	0.70	UJ	1.4	UJ	3.5	UJ	7.8	UJ
		CTU006-SB03-02	2/2/2023	N	2 - 3	3.9	UJ	3.9	UJ	0.77	UJ	3.1	UJ	0.77	UJ	1.5	UJ	0.77	UJ	1.5	UJ	3.9	UJ	8.7	UJ
	CTU006-SB04/TW02	CTU006-SB04-01	2/2/2023	N	1 - 2	4.7	UJ	4.7	UJ	0.94	UJ	3.7	UJ	0.94	UJ	1.9	UJ	0.94	UJ	1.9	UJ	4.7	UJ	11	UJ
		CTU006-SB04-02	2/2/2023	N	2 - 3	3.7	UJ	3.7	UJ	0.75	UJ	3.0	UJ	0.75	UJ	1.5	UJ	0.75	UJ	1.5	UJ	3.7	UJ	8.4	UJ
	CTU006-SB05	CTU006-SB05-01	2/2/2023	N	1 - 2	4.6	UJ	4.6	UJ	0.92	UJ	3.7	UJ	0.92	UJ	1.8	UJ	0.92	UJ	1.8	UJ	4.6	UJ	10	UJ
		CTU006-SB05-02	2/2/2023	N	2 - 3	4.7	UJ	4.7	UJ	0.93	UJ	3.7	UJ	0.93	UJ	1.9	UJ	0.93	UJ	1.9	UJ	4.7	UJ	10	UJ
		CTU006-SB05-02-FD	2/2/2023	FD	2 - 3	6.5	UJ	6.5	UJ	1.3	UJ	5.2	UJ	1.3	UJ	2.6	UJ	1.3	UJ	2.6	UJ	6.5	UJ	15	UJ
	CTU006-SB06	CTU006-SB06-01	2/2/2023	N	0.5 - 1	4.6	UJ	4.6	UJ	0.92	UJ	3.7	UJ	0.92	UJ	1.8	UJ	0.92	UJ	1.8	UJ	4.6	UJ	10	UJ
		CTU006-SB06-02	2/2/2023	N	1 - 1.5	4.6	UJ	4.6	UJ	0.91	UJ	3.6	UJ	0.91	UJ	1.8	UJ	0.91	UJ	1.8	UJ	4.6	UJ	10	UJ
Site CTU007 (UST 215)	CTU007-SB01/TW01	CTU007-SB01-01	2/6/2023	N	0.5 - 1.5	4.3	U	4.3	U	0.87	U	3.5	U	0.87	U	1.7	U	0.87	U	1.7	U	4.3	U	9.8	U
		CTU007-SB01-02	2/6/2023	N	1.5 - 2.5	3.2	U	3.2	U	0.64	U	2.5	U	0.64	U	1.3	U	0.64	U	1.3	U	3.2	U	7.1	U
	CTU007-SB02	CTU007-SB02-01	2/6/2023	N	0.5 - 1.5	3.4	U	3.4	U	0.69	U	2.7	U	0.69	U	1.4	U	0.69	U	1.4	U	3.4	U	7.7	U
		CTU007-SB02-02	2/6/2023	N	1.5 - 2.5	6.0	U	6.0	U	1.2	U	4.8	U	1.2	U	2.4	U	1.2	U	2.4	U	6.0	U	14	U
	CTU007-SB03/TW02	CTU007-SB03-01	2/6/2023	N	0.5 - 1.5	3.8	U	3.8	U	0.77	U	3.1	U	0.77	U	1.5	U	0.77	U	1.5	U	3.8	U	8.6	U
		CTU007-SB03-02	2/6/2023	N	1.5 - 2.5	3.8	U	3.8	U	0.77	U	3.1	U	0.77	U	1.5	U	0.77	U	1.5	U	3.8	U	8.7	U
	CTU007-SB04	CTU007-SB04-01	2/6/2023	N	0.5 - 1.5	4.7	UJ	4.7	UJ	0.93	UJ	3.7	UJ	0.93	UJ	1.9	UJ	0.93	UJ	*1.9*	*R*	4.7	UJ	11	UJ
		CTU007-SB04-02	2/6/2023	N	1.5 - 2.5	4.6	U	4.6	U	0.93	U	3.7	U	0.93	U	1.9	U	0.93	U	1.9	U	4.6	U	10	U
		CTU007-SB04-02-FD	2/6/2023	FD	1.5 - 2.5	5.0	U	5.0	U	1.0	U	4.0	U	1.0	U	2.0	U	1.0	U	2.0	U	5.0	U	11	U
	CTU007-SB05	CTU007-SB05-01	2/6/2023	N	0.5 - 1.5	5.6	U	5.6	U	1.1	U	4.5	U	1.1	U	2.2	U	1.1	U	2.2	U	5.6	U	13	U
		CTU007-SB05-02	2/6/2023	N	1.5 - 2.5	3.9	U	3.9	U	0.78	U	3.1	U	0.78	U	1.6	U	0.78	U	1.6	U	3.9	U	8.7	U
	CTU007-SB06/TW03	CTU007-SB06-01	2/6/2023	N	0.5 - 1.5	3.5	U	3.5	U	0.70	U	2.8	U	0.70	U	1.4	U	0.70	U	1.4	U	3.5	U	7.9	U
		CTU007-SB06-02	2/6/2023	N	1.5 - 2.5	3.6	U	3.6	U	0.72	U	2.9	U	0.72	U	1.4	U	0.72	U	1.4	U	3.6	U	8.1	U

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

						1,2-Dibromoethane (EDB)		1,2-Dichlorobenzene		1,2-Dichloroethane		1,2-Dichloropropane		1,3,5-Trimethylbenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1,4-Dioxane		2-Butanone (MEK)		4-Methyl-2-pentanone (MIBK)	
					Analyte:																				
					CAS-RN:	106-93-4		95-50-1		107-06-2		78-87-5		108-67-8		541-73-1		106-46-7		123-91-1		78-93-3		108-10-1	
					WDNR Soil-Groundwater RCL[1]	0.028		1,168		2.8		3.3		1,378		1,152		144		1.2		1,666		225	
					WDNR Direct Contact, Non-Industrial RCL[2]	50		376,000		652		3,400		182,000		297,000		3,740		5,720		28,400,000		2,450,000	
					WDNR Direct Contact, Industrial RCL[2]	221		376,000		2,870		15,000		182,000		297,000		16,400		26,500		28,400,000		3,360,000	
					Units:	µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU006 (UST 212)	CTU006-SB01/TW01	CTU006-SB01-01	2/2/2023	N	0.5 - 1.5	1.5	UJ	3.8	UJ	1.5	UJ	1.5	UJ	3.8	UJ	1.5	UJ	0.77	UJ	120	UJ	12	UJ	12	UJ
		CTU006-SB01-02	2/2/2023	N	1.5 - 2.5	1.3	UJ	3.3	UJ	1.3	UJ	1.3	UJ	3.3	UJ	1.3	UJ	0.67	UJ	110	UJ	11	UJ	11	UJ
	CTU006-SB02	CTU006-SB02-01	2/2/2023	N	1 - 2	140	UJ	350	UJ	140	UJ	140	UJ	350	UJ	140	UJ	69	UJ	11,000	UJ	1,100	UJ	1,100	UJ
		CTU006-SB02-02	2/2/2023	N	2 - 3	1.4	UJ	3.6	UJ	1.4	UJ	1.4	UJ	3.6	UJ	1.4	UJ	0.71	UJ	110	UJ	11	UJ	11	UJ
	CTU006-SB03	CTU006-SB03-01	2/2/2023	N	1 - 2	1.4	UJ	3.5	UJ	1.4	UJ	1.4	UJ	3.5	UJ	1.4	UJ	0.70	UJ	110	UJ	11	UJ	11	UJ
		CTU006-SB03-02	2/2/2023	N	2 - 3	1.5	UJ	3.9	UJ	1.5	UJ	1.5	UJ	3.9	UJ	1.5	UJ	0.77	UJ	120	UJ	12	UJ	12	UJ
	CTU006-SB04/TW02	CTU006-SB04-01	2/2/2023	N	1 - 2	1.9	UJ	4.7	UJ	1.9	UJ	1.9	UJ	4.7	UJ	1.9	UJ	0.94	UJ	150	UJ	15	UJ	15	UJ
		CTU006-SB04-02	2/2/2023	N	2 - 3	1.5	UJ	3.7	UJ	1.5	UJ	1.5	UJ	3.7	UJ	1.5	UJ	0.75	UJ	120	UJ	12	UJ	12	UJ
	CTU006-SB05	CTU006-SB05-01	2/2/2023	N	1 - 2	1.8	UJ	4.6	UJ	1.8	UJ	1.8	UJ	4.6	UJ	1.8	UJ	0.92	UJ	150	UJ	15	UJ	15	UJ
		CTU006-SB05-02	2/2/2023	N	2 - 3	1.9	UJ	4.7	UJ	1.9	UJ	1.9	UJ	4.7	UJ	1.9	UJ	0.93	UJ	150	UJ	15	UJ	15	UJ
		CTU006-SB05-02-FD	2/2/2023	FD	2 - 3	2.6	UJ	6.5	UJ	2.6	UJ	2.6	UJ	6.5	UJ	2.6	UJ	1.3	UJ	210	UJ	21	UJ	21	UJ
	CTU006-SB06	CTU006-SB06-01	2/2/2023	N	0.5 - 1	1.8	UJ	4.6	UJ	1.8	UJ	1.8	UJ	4.6	UJ	1.8	UJ	0.92	UJ	150	UJ	15	UJ	15	UJ
		CTU006-SB06-02	2/2/2023	N	1 - 1.5	1.8	UJ	4.6	UJ	1.8	UJ	1.8	UJ	4.6	UJ	1.8	UJ	0.91	UJ	150	UJ	15	UJ	15	UJ
Site CTU007 (UST 215)	CTU007-SB01/TW01	CTU007-SB01-01	2/6/2023	N	0.5 - 1.5	1.7	U	4.3	U	1.7	U	1.7	U	4.3	U	1.7	U	0.87	U	140	U	14	U	14	U
		CTU007-SB01-02	2/6/2023	N	1.5 - 2.5	1.3	U	3.2	U	1.3	U	1.3	U	3.2	U	1.3	U	0.64	U	100	U	10	U	10	U
	CTU007-SB02	CTU007-SB02-01	2/6/2023	N	0.5 - 1.5	1.4	U	3.4	U	1.4	U	1.4	U	3.4	U	1.4	U	0.69	U	110	U	11	U	11	U
		CTU007-SB02-02	2/6/2023	N	1.5 - 2.5	2.4	U	6.0	U	2.4	U	2.4	U	6.0	U	2.4	U	1.2	U	190	U	19	U	19	U
	CTU007-SB03/TW02	CTU007-SB03-01	2/6/2023	N	0.5 - 1.5	1.5	U	3.8	U	1.5	U	1.5	U	3.8	U	1.5	U	0.77	U	120	U	12	U	12	U
		CTU007-SB03-02	2/6/2023	N	1.5 - 2.5	1.5	U	3.8	U	1.5	U	1.5	U	3.8	U	1.5	U	0.77	U	120	U	12	U	12	U
	CTU007-SB04	CTU007-SB04-01	2/6/2023	N	0.5 - 1.5	1.9	UJ	*4.7*	*R*	1.9	UJ	1.9	UJ	4.7	UJ	*1.9*	*R*	*0.93*	*R*	150	U	15	U	15	UJ
		CTU007-SB04-02	2/6/2023	N	1.5 - 2.5	1.9	U	4.6	U	1.9	U	1.9	U	4.6	U	1.9	U	0.93	U	150	U	15	U	15	U
		CTU007-SB04-02-FD	2/6/2023	FD	1.5 - 2.5	2.0	U	5.0	U	2.0	U	2.0	U	5.0	U	2.0	U	1.0	U	160	U	16	U	16	U
	CTU007-SB05	CTU007-SB05-01	2/6/2023	N	0.5 - 1.5	2.2	U	5.6	U	2.2	U	2.2	U	5.6	U	2.2	U	1.1	U	180	U	18	U	18	U
		CTU007-SB05-02	2/6/2023	N	1.5 - 2.5	1.6	U	3.9	U	1.6	U	1.6	U	3.9	U	1.6	U	0.78	U	120	U	12	U	12	U
	CTU007-SB06/TW03	CTU007-SB06-01	2/6/2023	N	0.5 - 1.5	1.4	U	3.5	U	1.4	U	1.4	U	3.5	U	1.4	U	0.70	U	110	U	11	U	11	U
		CTU007-SB06-02	2/6/2023	N	1.5 - 2.5	1.4	U	3.6	U	1.4	U	1.4	U	3.6	U	1.4	U	0.72	U	120	U	12	U	12	U

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

						Acetone		Benzene		Bromodichloromethane		Bromoform		Bromomethane		Carbon disulfide		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
					Analyte:																						
					CAS-RN:	67-64-1		71-43-2		75-27-4		75-25-2		74-83-9		75-15-0		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
					WDNR Soil-Groundwater RCL[1]	3,676		5.1		0.3		2.3		5.1		591		3.9		135.8		32		226.6		3.3	
					WDNR Direct Contact, Non-Industrial RCL[2]	63,400,000		1,600		418		25,400		9,600		738,000		916		370,000		8,280		2,120,000		454	
					WDNR Direct Contact, Industrial RCL[2]	100,000,000		7,070		1,830		113,000		43,000		738,000		4,030		761,000		38,900		2,120,000		1,980	
					Units:	µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU006 (UST 212)	CTU006-SB01/TW01	CTU006-SB01-01	2/2/2023	N	0.5 - 1.5	67	UJ	0.38	UJ	3.8	UJ	4.8	UJ	3.1	UJ	3.8	UJ	3.8	UJ	3.8	UJ	3.8	UJ	6.1	UJ	0.77	UJ
		CTU006-SB01-02	2/2/2023	N	1.5 - 2.5	58	UJ	0.33	UJ	3.3	UJ	4.2	UJ	2.7	UJ	3.3	UJ	3.3	UJ	3.3	UJ	3.3	UJ	5.3	UJ	0.67	UJ
	CTU006-SB02	CTU006-SB02-01	2/2/2023	N	1 - 2	6,000	UJ	35	UJ	350	UJ	430	UJ	280	UJ	350	UJ	350	UJ	350	UJ	350	UJ	550	UJ	69	UJ
		CTU006-SB02-02	2/2/2023	N	2 - 3	62	UJ	0.36	UJ	3.6	UJ	4.4	UJ	2.8	UJ	3.6	UJ	3.6	UJ	3.6	UJ	3.6	UJ	5.7	UJ	0.71	UJ
	CTU006-SB03	CTU006-SB03-01	2/2/2023	N	1 - 2	61	UJ	0.35	UJ	3.5	UJ	4.4	UJ	2.8	UJ	3.5	UJ	3.5	UJ	3.5	UJ	3.5	UJ	5.6	UJ	0.70	UJ
		CTU006-SB03-02	2/2/2023	N	2 - 3	67	UJ	0.39	UJ	3.9	UJ	4.8	UJ	3.1	UJ	3.9	UJ	3.9	UJ	3.9	UJ	3.9	UJ	6.2	UJ	0.77	UJ
	CTU006-SB04/TW02	CTU006-SB04-01	2/2/2023	N	1 - 2	82	UJ	0.47	UJ	4.7	UJ	5.8	UJ	3.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ	7.5	UJ	0.94	UJ
		CTU006-SB04-02	2/2/2023	N	2 - 3	65	UJ	0.37	UJ	3.7	UJ	4.7	UJ	3.0	UJ	3.7	UJ	3.7	UJ	3.7	UJ	3.7	UJ	6.0	UJ	0.75	UJ
	CTU006-SB05	CTU006-SB05-01	2/2/2023	N	1 - 2	81	UJ	0.46	UJ	4.6	UJ	5.8	UJ	3.7	UJ	4.6	UJ	4.6	UJ	4.6	UJ	4.6	UJ	7.4	UJ	0.92	UJ
		CTU006-SB05-02	2/2/2023	N	2 - 3	82	UJ	0.47	UJ	4.7	UJ	5.8	UJ	3.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ	7.5	UJ	0.93	UJ
		CTU006-SB05-02-FD	2/2/2023	FD	2 - 3	110	UJ	0.65	UJ	6.5	UJ	8.2	UJ	5.2	UJ	6.5	UJ	6.5	UJ	6.5	UJ	6.5	UJ	10	UJ	1.3	UJ
	CTU006-SB06	CTU006-SB06-01	2/2/2023	N	0.5 - 1	81	UJ	0.46	UJ	4.6	UJ	5.8	UJ	3.7	UJ	4.6	UJ	4.6	UJ	4.6	UJ	4.6	UJ	7.4	UJ	0.92	UJ
		CTU006-SB06-02	2/2/2023	N	1 - 1.5	80	UJ	0.46	UJ	4.6	UJ	5.7	UJ	3.6	UJ	4.6	UJ	4.6	UJ	4.6	UJ	4.6	UJ	7.3	UJ	0.91	UJ
Site CTU007 (UST 215)	CTU007-SB01/TW01	CTU007-SB01-01	2/6/2023	N	0.5 - 1.5	76	U	0.43	U	4.3	U	5.4	U	3.5	U	4.3	U	4.3	U	4.3	U	4.3	U	6.9	U	0.87	U
		CTU007-SB01-02	2/6/2023	N	1.5 - 2.5	56	U	0.32	U	3.2	U	4.0	U	2.5	U	3.2	U	3.2	U	3.2	U	3.2	U	5.1	U	0.64	U
	CTU007-SB02	CTU007-SB02-01	2/6/2023	N	0.5 - 1.5	60	U	0.34	U	3.4	U	4.3	U	2.7	U	3.4	U	3.4	U	3.4	U	3.4	U	5.5	U	0.69	U
		CTU007-SB02-02	2/6/2023	N	1.5 - 2.5	110	U	0.60	U	6.0	U	7.6	U	4.8	U	6.0	U	6.0	U	6.0	U	6.0	U	9.7	U	1.2	U
	CTU007-SB03/TW02	CTU007-SB03-01	2/6/2023	N	0.5 - 1.5	67	U	0.38	U	3.8	U	4.8	U	3.1	U	3.8	U	3.8	U	3.8	U	3.8	U	6.1	U	0.77	U
		CTU007-SB03-02	2/6/2023	N	1.5 - 2.5	67	U	0.38	U	3.8	U	4.8	U	3.1	U	3.8	U	3.8	U	3.8	U	3.8	U	6.2	U	0.77	U
	CTU007-SB04	CTU007-SB04-01	2/6/2023	N	0.5 - 1.5	82	UJ	0.47	UJ	4.7	UJ	5.8	UJ	3.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ	4.7	UJ	7.5	UJ	0.93	UJ
		CTU007-SB04-02	2/6/2023	N	1.5 - 2.5	81	U	0.46	U	4.6	U	5.8	U	3.7	U	4.6	U	4.6	U	4.6	U	4.6	U	7.4	U	0.93	U
		CTU007-SB04-02-FD	2/6/2023	FD	1.5 - 2.5	88	U	0.50	U	5.0	U	6.3	U	4.0	U	5.0	U	5.0	U	5.0	U	5.0	U	8.0	U	1.0	U
	CTU007-SB05	CTU007-SB05-01	2/6/2023	N	0.5 - 1.5	98	U	0.56	U	5.6	U	7.0	U	4.5	U	5.6	U	5.6	U	5.6	U	5.6	U	8.9	U	1.1	U
		CTU007-SB05-02	2/6/2023	N	1.5 - 2.5	68	U	0.39	U	3.9	U	4.8	U	3.1	U	3.9	U	3.9	U	3.9	U	3.9	U	6.2	U	0.78	U
	CTU007-SB06/TW03	CTU007-SB06-01	2/6/2023	N	0.5 - 1.5	61	U	0.35	U	3.5	U	4.4	U	2.8	U	3.5	U	3.5	U	3.5	U	3.5	U	5.6	U	0.70	U
		CTU007-SB06-02	2/6/2023	N	1.5 - 2.5	63	U	0.36	U	3.6	U	4.5	U	2.9	U	3.6	U	3.6	U	3.6	U	3.6	U	5.8	U	0.72	U

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

					Analyte:	Chloromethane		cis-1,2-Dichloroethene		cis-1,3-Dichloropropene		Dichlorodifluoromethane		Ethyl ether		Ethylbenzene		Hexane		Methyl tert-butyl ether		Methylene Chloride		m-Xylene & p-Xylene		o-Xylene6		Styrene	
					CAS-RN:	74-87-3		156-59-2		10061-01-5		75-71-8		60-29-7		100-41-4		110-54-3		1634-04-4		75-09-2		179601-23-1		95-47-6		100-42-5	
					WDNR Soil-Groundwater RCL[1]	15.5		41.2		0.3		3,086		447		1,570		8,465		27		2.6		3,960		3,960		220	
					WDNR Direct Contact, Non-Industrial RCL[2]	159,000		156,000		1,210,000		126,000		10,100,000		8,020		141,000		63,800		61,800		388,000		434,000		867,000	
					WDNR Direct Contact, Industrial RCL[2]	669,000		2,340,000		1,210,000		530,000		10,100,000		35,400		141,000		282,000		1,150,000		388,000		434,000		867,000	
					Units:	µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU006 (UST 212)	CTU006-SB01/TW01	CTU006-SB01-01	2/2/2023	N	0.5 - 1.5	1.5	UJ	0.77	UJ	0.38	UJ	6.1	UJ	6.1	UJ	0.77	UJ	0.38	UJ	6.1	UJ	3.1	UJ	2.9	UJ	0.77	UJ	0.77	UJ
		CTU006-SB01-02	2/2/2023	N	1.5 - 2.5	1.3	UJ	0.67	UJ	0.33	UJ	5.3	UJ	5.3	UJ	0.67	UJ	0.33	UJ	5.3	UJ	2.7	UJ	2.5	UJ	0.67	UJ	0.67	UJ
	CTU006-SB02	CTU006-SB02-01	2/2/2023	N	1 - 2	140	UJ	69	UJ	35	UJ	550	UJ	550	UJ	69	UJ	35	UJ	550	UJ	280	UJ	260	UJ	69	UJ	69	UJ
		CTU006-SB02-02	2/2/2023	N	2 - 3	1.4	UJ	0.71	UJ	0.36	UJ	5.7	UJ	5.7	UJ	0.71	UJ	0.36	UJ	5.7	UJ	2.8	UJ	2.7	UJ	0.71	UJ	0.71	UJ
	CTU006-SB03	CTU006-SB03-01	2/2/2023	N	1 - 2	1.4	UJ	0.70	UJ	0.35	UJ	5.6	UJ	5.6	UJ	0.70	UJ	0.35	UJ	5.6	UJ	2.8	UJ	2.6	UJ	0.70	UJ	0.70	UJ
		CTU006-SB03-02	2/2/2023	N	2 - 3	1.5	UJ	0.77	UJ	0.39	UJ	6.2	UJ	6.2	UJ	0.77	UJ	0.39	UJ	6.2	UJ	3.1	UJ	2.9	UJ	0.77	UJ	0.77	UJ
	CTU006-SB04/TW02	CTU006-SB04-01	2/2/2023	N	1 - 2	1.9	UJ	0.94	UJ	0.47	UJ	7.5	UJ	7.5	UJ	0.94	UJ	0.47	UJ	7.5	UJ	3.7	UJ	3.5	UJ	0.94	UJ	0.94	UJ
		CTU006-SB04-02	2/2/2023	N	2 - 3	1.5	UJ	0.75	UJ	0.37	UJ	6.0	UJ	6.0	UJ	0.75	UJ	0.37	UJ	6.0	UJ	3.0	UJ	2.8	UJ	0.75	UJ	0.75	UJ
	CTU006-SB05	CTU006-SB05-01	2/2/2023	N	1 - 2	1.8	UJ	0.92	UJ	0.46	UJ	7.4	UJ	7.4	UJ	0.92	UJ	0.46	UJ	7.4	UJ	3.7	UJ	3.5	UJ	0.92	UJ	0.92	UJ
		CTU006-SB05-02	2/2/2023	N	2 - 3	1.9	UJ	0.93	UJ	0.47	UJ	7.5	UJ	7.5	UJ	0.93	UJ	0.47	UJ	7.5	UJ	3.7	UJ	3.5	UJ	0.93	UJ	0.93	UJ
		CTU006-SB05-02-FD	2/2/2023	FD	2 - 3	2.6	UJ	1.3	UJ	0.65	UJ	10	UJ	10	UJ	1.3	UJ	0.65	UJ	10	UJ	5.2	UJ	4.9	UJ	1.3	UJ	1.3	UJ
	CTU006-SB06	CTU006-SB06-01	2/2/2023	N	0.5 - 1	1.8	UJ	0.92	UJ	0.46	UJ	7.4	UJ	7.4	UJ	0.92	UJ	0.46	UJ	7.4	UJ	3.7	UJ	3.5	UJ	0.92	UJ	0.92	UJ
		CTU006-SB06-02	2/2/2023	N	1 - 1.5	1.8	UJ	0.91	UJ	0.46	UJ	7.3	UJ	7.3	UJ	0.91	UJ	0.46	UJ	7.3	UJ	3.6	UJ	3.4	UJ	0.91	UJ	0.91	UJ
Site CTU007 (UST 215)	CTU007-SB01/TW01	CTU007-SB01-01	2/6/2023	N	0.5 - 1.5	1.7	U	0.87	U	0.43	U	6.9	U	6.9	U	0.87	U	0.43	U	6.9	U	3.5	U	3.3	U	0.87	U	0.87	U
		CTU007-SB01-02	2/6/2023	N	1.5 - 2.5	1.3	U	0.64	U	0.32	U	5.1	U	5.1	U	0.64	U	0.32	U	5.1	U	2.5	U	2.4	U	0.64	U	0.64	U
	CTU007-SB02	CTU007-SB02-01	2/6/2023	N	0.5 - 1.5	1.4	U	0.69	U	0.34	U	5.5	U	5.5	U	0.69	U	0.34	U	5.5	U	2.7	U	2.6	U	0.69	U	0.69	U
		CTU007-SB02-02	2/6/2023	N	1.5 - 2.5	2.4	U	1.2	U	0.60	U	9.7	U	9.7	U	1.2	U	0.60	U	9.7	U	4.8	U	4.5	U	1.2	U	1.2	U
	CTU007-SB03/TW02	CTU007-SB03-01	2/6/2023	N	0.5 - 1.5	1.5	U	0.77	U	0.38	U	6.1	U	6.1	U	0.77	U	0.38	U	6.1	U	3.1	U	2.9	U	0.77	U	0.77	U
		CTU007-SB03-02	2/6/2023	N	1.5 - 2.5	1.5	U	0.77	U	0.38	U	6.2	U	6.2	U	0.77	U	0.38	U	6.2	U	3.1	U	2.9	U	0.77	U	0.77	U
	CTU007-SB04	CTU007-SB04-01	2/6/2023	N	0.5 - 1.5	1.9	UJ	0.93	UJ	0.47	UJ	7.5	UJ	7.5	UJ	0.93	UJ	*0.47*	*R*	7.5	UJ	3.7	UJ	3.5	UJ	0.93	UJ	0.93	UJ
		CTU007-SB04-02	2/6/2023	N	1.5 - 2.5	1.9	U	0.93	U	0.46	U	7.4	U	7.4	U	0.93	U	0.46	U	7.4	U	3.7	U	3.5	U	0.93	U	0.93	U
		CTU007-SB04-02-FD	2/6/2023	FD	1.5 - 2.5	2.0	U	1.0	U	0.50	U	8.0	U	8.0	U	1.0	U	0.50	U	8.0	U	4.0	U	3.8	U	1.0	U	1.0	U
	CTU007-SB05	CTU007-SB05-01	2/6/2023	N	0.5 - 1.5	2.2	U	1.1	U	0.56	U	8.9	U	8.9	U	1.1	U	0.56	U	8.9	U	4.5	U	4.2	U	1.1	U	1.1	U
		CTU007-SB05-02	2/6/2023	N	1.5 - 2.5	1.6	U	0.78	U	0.39	U	6.2	U	6.2	U	0.78	U	0.39	U	6.2	U	3.1	U	2.9	U	0.78	U	0.78	U
	CTU007-SB06/TW03	CTU007-SB06-01	2/6/2023	N	0.5 - 1.5	1.4	U	0.70	U	0.35	U	5.6	U	5.6	U	0.70	U	0.35	U	5.6	U	2.8	U	2.6	U	0.70	U	0.70	U
		CTU007-SB06-02	2/6/2023	N	1.5 - 2.5	1.4	U	0.72	U	0.36	U	5.8	U	5.8	U	0.72	U	0.36	U	5.8	U	2.9	U	2.7	U	0.72	U	0.72	U

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

						t-Butyl alcohol		Tetrachloroethene		Tetrahydrofuran		Toluene		trans-1,2-Dichloroethene		trans-1,3-Dichloropropene		Trichloroethene		Trichlorofluoromethane		Vinyl chloride	
Analyte:																							
CAS-RN:						75-65-0		127-18-4		109-99-9		108-88-3		156-60-5		10061-02-6		79-01-6		75-69-4		75-01-4	
WDNR Soil-Groundwater RCL[1]						4.9		4.5		22.2		1,107		62.6		0.3		3.6		NL		0.1	
WDNR Direct Contact, Non-Industrial RCL[2]						NL		33,000		23,300,000		818,000		1,560,000		1,510,000		1,300		1,230,000		67	
WDNR Direct Contact, Industrial RCL[2]						NL		145,000		100,000,000		818,000		1,850,000		1,510,000		8,410		1,230,000		2,080	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Type**	**Sample Depth Interval (ft bgs)**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**
Site CTU006 (UST 212)	CTU006-SB01/TW01	CTU006-SB01-01	2/2/2023	N	0.5 - 1.5	12	UJ	3.8	UJ	6.1	UJ	0.77	UJ	0.77	UJ	0.19	UJ	3.8	UJ	8.6	UJ	3.1	UJ
		CTU006-SB01-02	2/2/2023	N	1.5 - 2.5	11	UJ	3.3	UJ	5.3	UJ	0.67	UJ	0.67	UJ	0.17	UJ	3.3	UJ	7.5	UJ	2.7	UJ
	CTU006-SB02	CTU006-SB02-01	2/2/2023	N	1 - 2	1,100	UJ	350	UJ	550	UJ	69	UJ	69	UJ	17	UJ	350	UJ	780	UJ	280	UJ
		CTU006-SB02-02	2/2/2023	N	2 - 3	11	UJ	3.6	UJ	5.7	UJ	0.71	UJ	0.71	UJ	0.18	UJ	3.6	UJ	8.0	UJ	2.8	UJ
	CTU006-SB03	CTU006-SB03-01	2/2/2023	N	1 - 2	11	UJ	3.5	UJ	5.6	UJ	0.70	UJ	0.70	UJ	0.17	UJ	3.5	UJ	7.8	UJ	2.8	UJ
		CTU006-SB03-02	2/2/2023	N	2 - 3	12	UJ	3.9	UJ	6.2	UJ	0.77	UJ	0.77	UJ	0.19	UJ	3.9	UJ	8.7	UJ	3.1	UJ
	CTU006-SB04/TW02	CTU006-SB04-01	2/2/2023	N	1 - 2	15	UJ	4.7	UJ	7.5	UJ	0.94	UJ	0.94	UJ	0.23	UJ	4.7	UJ	11	UJ	3.7	UJ
		CTU006-SB04-02	2/2/2023	N	2 - 3	12	UJ	3.7	UJ	6.0	UJ	0.75	UJ	0.75	UJ	0.19	UJ	3.7	UJ	8.4	UJ	3.0	UJ
	CTU006-SB05	CTU006-SB05-01	2/2/2023	N	1 - 2	15	UJ	4.6	UJ	7.4	UJ	0.92	UJ	0.92	UJ	0.23	UJ	4.6	UJ	10	UJ	3.7	UJ
		CTU006-SB05-02	2/2/2023	N	2 - 3	15	UJ	4.7	UJ	7.5	UJ	0.93	UJ	0.93	UJ	0.23	UJ	4.7	UJ	10	UJ	3.7	UJ
		CTU006-SB05-02-FD	2/2/2023	FD	2 - 3	21	UJ	6.5	UJ	10	UJ	1.3	UJ	1.3	UJ	0.33	UJ	6.5	UJ	15	UJ	5.2	UJ
	CTU006-SB06	CTU006-SB06-01	2/2/2023	N	0.5 - 1	15	UJ	4.6	UJ	7.4	UJ	0.92	UJ	0.92	UJ	0.23	UJ	4.6	UJ	10	UJ	3.7	UJ
		CTU006-SB06-02	2/2/2023	N	1 - 1.5	15	UJ	4.6	UJ	7.3	UJ	0.91	UJ	0.91	UJ	0.23	UJ	4.6	UJ	10	UJ	3.6	UJ
Site CTU007 (UST 215)	CTU007-SB01/TW01	CTU007-SB01-01	2/6/2023	N	0.5 - 1.5	14	U	4.3	U	6.9	U	0.87	U	0.87	U	0.22	U	4.3	U	9.8	UJ	3.5	U
		CTU007-SB01-02	2/6/2023	N	1.5 - 2.5	10	U	3.2	U	5.1	U	0.64	U	0.64	U	0.16	U	3.2	U	7.1	UJ	2.5	U
	CTU007-SB02	CTU007-SB02-01	2/6/2023	N	0.5 - 1.5	11	U	3.4	U	5.5	U	0.69	U	0.69	U	0.17	U	3.4	U	7.7	UJ	2.7	U
		CTU007-SB02-02	2/6/2023	N	1.5 - 2.5	19	U	6.0	U	9.7	U	1.2	U	1.2	U	0.30	U	6.0	U	14	UJ	4.8	U
	CTU007-SB03/TW02	CTU007-SB03-01	2/6/2023	N	0.5 - 1.5	12	U	3.8	U	6.1	U	0.77	U	0.77	U	0.19	U	3.8	U	8.6	UJ	3.1	U
		CTU007-SB03-02	2/6/2023	N	1.5 - 2.5	12	U	3.8	U	6.2	U	0.77	U	0.77	U	0.19	U	3.8	U	8.7	UJ	3.1	U
	CTU007-SB04	CTU007-SB04-01	2/6/2023	N	0.5 - 1.5	15	UJ	4.7	UJ	7.5	UJ	0.93	UJ	0.93	UJ	0.23	UJ	4.7	UJ	11	UJ	3.7	UJ
		CTU007-SB04-02	2/6/2023	N	1.5 - 2.5	15	U	4.6	U	7.4	U	0.93	U	0.93	U	0.23	U	4.6	U	10	UJ	3.7	U
		CTU007-SB04-02-FD	2/6/2023	FD	1.5 - 2.5	16	U	5.0	U	8.0	U	1.0	U	1.0	U	0.25	U	5.0	U	11	UJ	4.0	U
	CTU007-SB05	CTU007-SB05-01	2/6/2023	N	0.5 - 1.5	18	U	5.6	U	8.9	U	1.1	U	1.1	U	0.28	U	5.6	U	13	UJ	4.5	U
		CTU007-SB05-02	2/6/2023	N	1.5 - 2.5	12	U	3.9	U	6.2	U	0.78	U	0.78	U	0.19	U	3.9	U	8.7	UJ	3.1	U
	CTU007-SB06/TW03	CTU007-SB06-01	2/6/2023	N	0.5 - 1.5	11	U	3.5	U	5.6	U	0.70	U	0.70	U	0.18	U	3.5	U	7.9	UJ	2.8	U
		CTU007-SB06-02	2/6/2023	N	1.5 - 2.5	12	U	3.6	U	5.8	U	0.72	U	0.72	U	0.18	U	3.6	U	8.1	UJ	2.9	U

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						1,1,1,2-Tetrachloroethane		1,1,1-Trichloroethane		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1-Dichloroethene		1,2,3-Trichloropropane		1,2,4-Trichlorobenzene		1,2,4-Trimethylbenzene		1,2-Dibromo-3-Chloropropane	
CAS-RN:						630-20-6		71-55-6		79-34-5		79-00-5		75-34-3		75-35-4		96-18-4		120-82-1		95-63-6		96-12-8	
WDNR Soil-Groundwater RCL[1]						53.4		140.2		0.2		3.2		483		5		51.9		408		1,378		0.2	
WDNR Direct Contact, Non-Industrial RCL[2]						2.78		640		810		1.59		5,060		120,000		5		24,000		219,000		8	
WDNR Direct Contact, Industrial RCL[2]						12.3		640		3,600		7,010		22,200		1,190,000		109		113,000		219,000		92	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU007 (UST 215)	CTU007-SB07	CTU007-SB07-01	2/6/2023	N	0.5 - 1.5	3.1	U	3.1	U	0.62	U	2.5	U	0.62	U	1.2	U	0.62	U	1.2	U	3.1	U	7.0	U
		CTU007-SB07-02	2/6/2023	N	1.5 - 2.5	3.7	U	3.7	U	0.74	U	3.0	U	0.74	U	1.5	U	0.74	U	1.5	U	3.7	U	8.4	U
Site CTU008 (UST 219)	CTU008-SB01/TW01	CTU008-SB01-01	1/30/2023	N	1.5 - 2.5	2.9	U	2.9	U	0.57	U	2.3	U	0.57	U	1.1	U	0.57	U	1.1	U	2.9	U	6.4	U
		CTU008-SB01-02	1/30/2023	N	6.5 - 7.5	3.0	U	3.0	U	0.60	U	2.4	U	0.60	U	1.2	U	0.60	U	1.2	U	3.0	U	6.7	U
	CTU008-SB02/TW02	CTU008-SB02-01	1/30/2023	N	1 - 2	3.9	U	3.9	U	0.77	U	3.1	U	0.77	U	1.5	U	0.77	U	1.5	U	3.9	U	8.7	U
		CTU008-SB02-01-FD	1/30/2023	FD	1 - 2	3.3	U	3.3	U	0.66	U	2.6	U	0.66	U	1.3	U	0.66	U	1.3	U	3.3	U	7.4	U
		CTU008-SB02-02	1/30/2023	N	6 - 7	4.2	U	4.2	U	0.85	U	3.4	U	0.85	U	1.7	U	0.85	U	1.7	U	4.2	U	9.5	U
	CTU008-SB03	CTU008-SB03-01	1/30/2023	N	1 - 2	3.4	U	3.4	U	0.69	U	2.7	U	0.69	U	1.4	U	0.69	U	1.4	U	3.4	U	7.7	U
		CTU008-SB03-02	1/30/2023	N	7 - 8	3.0	U	3.0	U	0.59	U	2.4	U	0.59	U	1.2	U	0.59	U	1.2	U	3.0	U	6.7	U
	CTU008-SB04	CTU008-SB04-01	1/30/2023	N	1.5 - 2.5	3.4	U	3.4	U	0.67	U	2.7	U	0.67	U	1.3	U	0.67	U	1.3	U	3.4	U	7.6	U
		CTU008-SB04-02	1/30/2023	N	6.5 - 7.5	3.2	U	3.2	U	0.64	U	2.5	U	0.64	U	1.3	U	0.64	U	1.3	U	3.2	U	7.2	U
	CTU008-SB05	CTU008-SB05-01	1/30/2023	N	2 - 3	990	U	990	U	200	U	790	U	200	U	400	U	200	U	400	U	**350,000**		2,200	U
		CTU008-SB05-02	1/30/2023	N	6 - 7	940	U	940	U	190	U	750	U	190	U	380	U	190	U	380	U	**22,000**		2,100	U
	CTU008-SB06/TW03	CTU008-SB06-01	1/30/2023	N	1 - 2	3.8	U	3.8	U	0.76	U	3.0	U	0.76	U	1.5	U	0.76	U	1.5	U	3.8	U	8.6	U
		CTU008-SB06-01-FD	1/30/2023	FD	1 - 2	3.7	U	3.7	U	0.74	U	3.0	U	0.74	U	1.5	U	0.74	U	1.5	U	3.7	U	8.4	U
		CTU008-SB06-02	1/30/2023	N	6 - 7	3.6	UJ	3.6	U	0.71	UJ	2.9	UJ	0.71	U	1.4	U	0.71	UJ	1.4	UJ	3.6	UJ	8.0	UJ
	CTU008-SB07	CTU008-SB07-01	1/30/2023	N	1 - 2	1.9	U	1.9	U	0.39	U	1.6	U	0.39	U	0.78	U	0.39	U	0.78	U	1.9	U	4.4	U
		CTU008-SB07-02	1/30/2023	N	6.5 - 7.5	3.7	U	3.7	U	0.74	U	3.0	U	0.74	U	1.5	U	0.74	U	1.5	U	3.7	U	8.3	U
	CTU008-SB08	CTU008-SB08-01	1/30/2023	N	1.5 - 2.5	3.9	U	3.9	U	0.78	U	3.1	U	0.78	U	1.6	U	0.78	U	1.6	U	3.9	U	8.8	U
		CTU008-SB08-02	1/30/2023	N	6.5 - 7.5	3.8	UJ	3.8	UJ	0.77	UJ	3.1	UJ	0.77	UJ	1.5	UJ	0.77	UJ	1.5	UJ	3.8	UJ	8.7	UJ

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						1,2-Dibromoethane (EDB)		1,2-Dichlorobenzene		1,2-Dichloroethane		1,2-Dichloropropane		1,3,5-Trimethylbenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1,4-Dioxane		2-Butanone (MEK)		4-Methyl-2-pentanone (MIBK)	
CAS-RN:						106-93-4		95-50-1		107-06-2		78-87-5		108-67-8		541-73-1		106-46-7		123-91-1		78-93-3		108-10-1	
WDNR Soil-Groundwater RCL[1]						0.028		1,168		2.8		3.3		1,378		1,152		144		1.2		1,666		225	
WDNR Direct Contact, Non-Industrial RCL[2]						50		376,000		652		3,400		182,000		297,000		3,740		5,720		28,400,000		2,450,000	
WDNR Direct Contact, Industrial RCL[2]						221		376,000		2,870		15,000		182,000		297,000		16,400		26,500		28,400,000		3,360,000	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU007 (UST 215)	CTU007-SB07	CTU007-SB07-01	2/6/2023	N	0.5 - 1.5	1.2	U	3.1	U	1.2	U	1.2	U	3.1	U	1.2	U	0.62	U	100	U	10	U	10	U
		CTU007-SB07-02	2/6/2023	N	1.5 - 2.5	1.5	U	3.7	U	1.5	U	1.5	U	3.7	U	1.5	U	0.74	U	120	U	12	U	12	U
Site CTU008 (UST 219)	CTU008-SB01/TW01	CTU008-SB01-01	1/30/2023	N	1.5 - 2.5	1.1	U	2.9	U	1.1	U	1.1	U	2.9	U	1.1	U	0.57	U	92	U	9.2	U	9.2	U
		CTU008-SB01-02	1/30/2023	N	6.5 - 7.5	1.2	U	3.0	U	1.2	U	1.2	U	3.0	U	1.2	U	0.60	U	95	U	9.5	U	9.5	U
	CTU008-SB02/TW02	CTU008-SB02-01	1/30/2023	N	1 - 2	1.5	U	3.9	U	1.5	U	1.5	U	3.9	U	1.5	U	0.77	U	120	U	12	U	12	U
		CTU008-SB02-01-FD	1/30/2023	FD	1 - 2	1.3	U	3.3	U	1.3	U	1.3	U	3.3	U	1.3	U	0.66	U	100	U	10	U	10	U
		CTU008-SB02-02	1/30/2023	N	6 - 7	1.7	U	4.2	U	1.7	U	1.7	U	4.2	U	1.7	U	0.85	U	140	U	14	U	14	U
	CTU008-SB03	CTU008-SB03-01	1/30/2023	N	1 - 2	1.4	U	3.4	U	1.4	U	1.4	U	3.4	U	1.4	U	0.69	U	110	U	11	U	11	U
		CTU008-SB03-02	1/30/2023	N	7 - 8	1.2	U	3.0	U	1.2	U	1.2	U	3.0	U	1.2	U	0.59	U	95	U	9.5	U	9.5	U
	CTU008-SB04	CTU008-SB04-01	1/30/2023	N	1.5 - 2.5	1.3	U	3.4	U	1.3	U	1.3	U	3.4	U	1.3	U	0.67	U	110	U	11	U	11	U
		CTU008-SB04-02	1/30/2023	N	6.5 - 7.5	1.3	U	3.2	U	1.3	U	1.3	U	3.2	U	1.3	U	0.64	U	100	U	10	U	10	U
	CTU008-SB05	CTU008-SB05-01	1/30/2023	N	2 - 3	400	U	990	U	400	U	400	U	**120,000**		400	U	200	U	32,000	U	3,200	U	3,200	U
		CTU008-SB05-02	1/30/2023	N	6 - 7	380	U	940	U	380	U	380	U	**7,400**		380	U	190	U	30,000	U	3,000	U	3,000	U
	CTU008-SB06/TW03	CTU008-SB06-01	1/30/2023	N	1 - 2	1.5	U	3.8	U	1.5	U	1.5	U	3.8	U	1.5	U	0.76	U	120	U	12	U	12	U
		CTU008-SB06-01-FD	1/30/2023	FD	1 - 2	1.5	U	3.7	U	1.5	U	1.5	U	3.7	U	1.5	U	0.74	U	120	U	12	U	12	U
		CTU008-SB06-02	1/30/2023	N	6 - 7	1.4	UJ	3.6	UJ	1.4	U	1.4	U	3.6	UJ	1.4	UJ	0.71	UJ	110	U	11	U	11	U
	CTU008-SB07	CTU008-SB07-01	1/30/2023	N	1 - 2	0.78	U	1.9	U	0.78	U	0.78	U	1.9	U	0.78	U	0.39	U	62	U	6.2	U	6.2	U
		CTU008-SB07-02	1/30/2023	N	6.5 - 7.5	1.5	U	3.7	U	1.5	U	1.5	U	3.7	U	1.5	U	0.74	U	120	U	12	U	12	U
	CTU008-SB08	CTU008-SB08-01	1/30/2023	N	1.5 - 2.5	1.6	U	3.9	U	1.6	U	1.6	U	3.9	U	1.6	U	0.78	U	130	U	13	U	13	U
		CTU008-SB08-02	1/30/2023	N	6.5 - 7.5	1.5	UJ	3.8	UJ	1.5	UJ	1.5	UJ	3.8	UJ	1.5	UJ	0.77	UJ	120	UJ	12	UJ	12	UJ

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Acetone		Benzene		Bromodichloromethane		Bromoform		Bromomethane		Carbon disulfide		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS-RN:						67-64-1		71-43-2		75-27-4		75-25-2		74-83-9		75-15-0		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
WDNR Soil-Groundwater RCL[1]						3,676		5.1		0.3		2.3		5.1		591		3.9		135.8		32		226.6		3.3	
WDNR Direct Contact, Non-Industrial RCL[2]						63,400,000		1,600		418		25,400		9,600		738,000		916		370,000		8,280		2,120,000		454	
WDNR Direct Contact, Industrial RCL[2]						100,000,000		7,070		1,830		113,000		43,000		738,000		4,030		761,000		38,900		2,120,000		1,980	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU007 (UST 215)	CTU007-SB07	CTU007-SB07-01	2/6/2023	N	0.5 - 1.5	55	U	0.31	U	3.1	U	3.9	U	2.5	U	3.1	U	3.1	U	3.1	U	3.1	U	5.0	U	0.62	U
		CTU007-SB07-02	2/6/2023	N	1.5 - 2.5	65	U	0.37	U	3.7	U	4.7	U	3.0	U	3.7	U	3.7	U	3.7	U	3.7	U	6.0	U	0.74	U
Site CTU008 (UST 219)	CTU008-SB01/TW01	CTU008-SB01-01	1/30/2023	N	1.5 - 2.5	50	U	0.29	U	2.9	U	3.6	U	2.3	U	2.9	U	2.9	U	2.9	U	2.9	U	4.6	U	0.57	U
		CTU008-SB01-02	1/30/2023	N	6.5 - 7.5	52	U	0.30	U	3.0	U	3.7	U	2.4	U	3.0	U	3.0	U	3.0	U	3.0	U	4.8	U	0.60	U
	CTU008-SB02/TW02	CTU008-SB02-01	1/30/2023	N	1 - 2	68	U	0.39	U	3.9	U	4.8	U	3.1	U	3.9	U	3.9	U	3.9	U	3.9	U	6.2	U	0.77	U
		CTU008-SB02-01-FD	1/30/2023	FD	1 - 2	57	U	0.33	U	3.3	U	4.1	U	2.6	U	3.3	U	3.3	U	3.3	U	3.3	U	5.2	U	0.66	U
		CTU008-SB02-02	1/30/2023	N	6 - 7	74	U	0.42	U	4.2	U	5.3	U	3.4	U	4.2	U	4.2	U	4.2	U	4.2	U	6.8	U	0.85	U
	CTU008-SB03	CTU008-SB03-01	1/30/2023	N	1 - 2	60	U	0.34	U	3.4	U	4.3	U	2.7	U	3.4	U	3.4	U	3.4	U	3.4	U	5.5	U	0.69	U
		CTU008-SB03-02	1/30/2023	N	7 - 8	52	U	0.30	U	3.0	U	3.7	U	2.4	U	3.0	U	3.0	U	3.0	U	3.0	U	4.7	U	0.59	U
	CTU008-SB04	CTU008-SB04-01	1/30/2023	N	1.5 - 2.5	59	U	0.34	U	3.4	U	4.2	U	2.7	U	3.4	U	3.4	U	3.4	U	3.4	U	5.4	U	0.67	U
		CTU008-SB04-02	1/30/2023	N	6.5 - 7.5	56	U	0.32	U	3.2	U	4.0	U	2.5	U	3.2	U	3.2	U	3.2	U	3.2	U	5.1	U	0.64	U
	CTU008-SB05	CTU008-SB05-01	1/30/2023	N	2 - 3	17,000	U	99	U	990	U	1,200	U	790	U	990	U	990	U	990	U	990	U	1,600	U	200	U
		CTU008-SB05-02	1/30/2023	N	6 - 7	16,000	U	94	U	940	U	1,200	U	750	U	940	U	940	U	940	U	940	U	1,500	U	190	U
	CTU008-SB06/TW03	CTU008-SB06-01	1/30/2023	N	1 - 2	67	U	0.38	U	3.8	U	4.8	U	3.0	U	3.8	U	3.8	U	3.8	U	3.8	U	6.1	U	0.76	U
		CTU008-SB06-01-FD	1/30/2023	FD	1 - 2	65	U	0.37	U	3.7	U	4.6	U	3.0	U	3.7	U	3.7	U	3.7	U	3.7	U	5.9	U	0.74	U
		CTU008-SB06-02	1/30/2023	N	6 - 7	62	U	0.36	U	3.6	UJ	4.5	UJ	2.9	U	3.6	U	3.6	UJ	3.6	UJ	3.6	UJ	5.7	U	0.71	U
	CTU008-SB07	CTU008-SB07-01	1/30/2023	N	1 - 2	34	U	0.19	U	1.9	U	2.4	U	1.6	U	1.9	U	1.9	U	1.9	U	1.9	U	3.1	U	0.39	U
		CTU008-SB07-02	1/30/2023	N	6.5 - 7.5	65	U	0.37	U	3.7	U	4.6	U	3.0	U	3.7	U	3.7	U	3.7	U	3.7	U	5.9	U	0.74	U
	CTU008-SB08	CTU008-SB08-01	1/30/2023	N	1.5 - 2.5	69	U	0.39	U	3.9	U	4.9	U	3.1	U	3.9	U	3.9	U	3.9	U	3.9	U	6.3	U	0.78	U
		CTU008-SB08-02	1/30/2023	N	6.5 - 7.5	67	UJ	0.38	UJ	3.8	UJ	4.8	UJ	3.1	UJ	3.8	UJ	3.8	UJ	3.8	UJ	3.8	UJ	6.2	UJ	0.77	UJ

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

						Chloromethane		cis-1,2-Dichloroethene		cis-1,3-Dichloropropene		Dichlorodifluoromethane		Ethyl ether		Ethylbenzene		Hexane		Methyl tert-butyl ether		Methylene Chloride		m-Xylene & p-Xylene		o-Xylene6		Styrene	
					Analyte:																								
					CAS-RN:	74-87-3		156-59-2		10061-01-5		75-71-8		60-29-7		100-41-4		110-54-3		1634-04-4		75-09-2		179601-23-1		95-47-6		100-42-5	
					WDNR Soil-Groundwater RCL[1]	15.5		41.2		0.3		3,086		447		1,570		8,465		27		2.6		3,960		3,960		220	
					WDNR Direct Contact, Non-Industrial RCL[2]	159,000		156,000		1,210,000		126,000		10,100,000		8,020		141,000		63,800		61,800		388,000		434,000		867,000	
					WDNR Direct Contact, Industrial RCL[2]	669,000		2,340,000		1,210,000		530,000		10,100,000		35,400		141,000		282,000		1,150,000		388,000		434,000		867,000	
					Units:	µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU007 (UST 215)	CTU007-SB07	CTU007-SB07-01	2/6/2023	N	0.5 - 1.5	1.2	U	0.62	U	0.31	U	5.0	U	5.0	U	0.62	U	0.31	U	5.0	U	2.5	U	2.3	U	0.62	U	0.62	U
		CTU007-SB07-02	2/6/2023	N	1.5 - 2.5	1.5	U	0.74	U	0.37	U	6.0	U	6.0	U	0.74	U	0.37	U	6.0	U	3.0	U	2.8	U	0.74	U	0.74	U
Site CTU008 (UST 219)	CTU008-SB01/TW01	CTU008-SB01-01	1/30/2023	N	1.5 - 2.5	1.1	U	0.57	U	0.29	U	4.6	UJ	4.6	U	0.57	U	0.29	U	4.6	U	2.3	U	2.1	U	0.57	U	0.57	U
		CTU008-SB01-02	1/30/2023	N	6.5 - 7.5	1.2	U	0.60	U	0.30	U	4.8	UJ	4.8	U	0.60	U	0.30	U	4.8	U	2.4	U	2.2	U	0.60	U	0.60	U
	CTU008-SB02/TW02	CTU008-SB02-01	1/30/2023	N	1 - 2	1.5	U	0.77	U	0.39	U	6.2	UJ	6.2	U	0.77	U	**0.25**	**J**	6.2	U	3.1	U	**1.1**	**J**	**0.52**	**J**	0.77	U
		CTU008-SB02-01-FD	1/30/2023	FD	1 - 2	1.3	U	0.66	U	0.33	U	5.2	UJ	5.2	U	0.66	U	**0.29**	**J**	5.2	U	2.6	U	2.5	U	**0.40**	**J**	0.66	U
		CTU008-SB02-02	1/30/2023	N	6 - 7	1.7	U	0.85	U	0.42	U	6.8	UJ	6.8	U	0.85	U	0.42	U	6.8	U	3.4	U	3.2	U	0.85	U	0.85	U
	CTU008-SB03	CTU008-SB03-01	1/30/2023	N	1 - 2	1.4	U	0.69	U	0.34	U	5.5	UJ	5.5	U	0.69	U	**0.13**	**J**	5.5	U	2.7	U	2.6	U	0.69	U	0.69	U
		CTU008-SB03-02	1/30/2023	N	7 - 8	1.2	U	0.59	U	0.30	U	4.7	UJ	4.7	U	0.59	U	0.30	U	4.7	U	2.4	U	2.2	U	0.59	U	0.59	U
	CTU008-SB04	CTU008-SB04-01	1/30/2023	N	1.5 - 2.5	1.3	U	0.67	U	0.34	U	5.4	UJ	5.4	U	0.67	U	0.34	U	5.4	U	2.7	U	2.5	U	0.67	U	0.67	U
		CTU008-SB04-02	1/30/2023	N	6.5 - 7.5	1.3	U	0.64	U	0.32	U	5.1	UJ	5.1	U	0.64	U	**0.27**	**J**	5.1	U	2.5	U	2.4	U	0.64	U	0.64	U
	CTU008-SB05	CTU008-SB05-01	1/30/2023	N	2 - 3	400	U	200	U	99	U	1,600	UJ	1,600	U	**50,000**		**36,000**		1,600	U	790	U	**450,000**		**190,000**		200	U
		CTU008-SB05-02	1/30/2023	N	6 - 7	380	U	190	U	94	U	1,500	UJ	1,500	U	**7,500**		**9,200**		1,500	U	750	U	**32,000**		**15,000**		190	U
	CTU008-SB06/TW03	CTU008-SB06-01	1/30/2023	N	1 - 2	1.5	U	0.76	U	0.38	U	6.1	UJ	6.1	U	0.76	U	0.38	U	6.1	U	3.0	U	2.9	U	0.76	U	0.76	U
		CTU008-SB06-01-FD	1/30/2023	FD	1 - 2	1.5	U	0.74	U	0.37	U	5.9	UJ	5.9	U	0.74	U	0.37	U	5.9	U	3.0	U	2.8	U	0.74	U	0.74	U
		CTU008-SB06-02	1/30/2023	N	6 - 7	1.4	U	0.71	U	0.36	UJ	5.7	UJ	5.7	U	0.71	UJ	0.36	U	5.7	U	2.9	U	2.7	UJ	0.71	UJ	0.71	UJ
	CTU008-SB07	CTU008-SB07-01	1/30/2023	N	1 - 2	0.78	U	0.39	U	0.19	U	3.1	UJ	3.1	U	0.39	U	0.19	U	3.1	U	1.6	U	1.5	U	0.39	U	0.39	U
		CTU008-SB07-02	1/30/2023	N	6.5 - 7.5	1.5	U	0.74	U	0.37	U	5.9	UJ	5.9	U	0.74	U	0.37	U	5.9	U	3.0	U	2.8	U	0.74	U	0.74	U
	CTU008-SB08	CTU008-SB08-01	1/30/2023	N	1.5 - 2.5	1.6	U	0.78	U	0.39	U	6.3	UJ	6.3	U	0.78	U	0.39	U	6.3	U	3.1	U	2.9	U	0.78	U	0.78	U
		CTU008-SB08-02	1/30/2023	N	6.5 - 7.5	1.5	UJ	0.77	UJ	0.38	UJ	6.2	UJ	6.2	UJ	0.77	UJ	**0.21**	**J**	6.2	UJ	3.1	UJ	2.9	UJ	0.77	UJ	0.77	UJ

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						t-Butyl alcohol		Tetrachloroethene		Tetrahydrofuran		Toluene		trans-1,2-Dichloroethene		trans-1,3-Dichloropropene		Trichloroethene		Trichlorofluoromethane		Vinyl chloride	
CAS-RN:						75-65-0		127-18-4		109-99-9		108-88-3		156-60-5		10061-02-6		79-01-6		75-69-4		75-01-4	
WDNR Soil-Groundwater RCL[1]						4.9		4.5		22.2		1,107		62.6		0.3		3.6		NL		0.1	
WDNR Direct Contact, Non-Industrial RCL[2]						NL		33,000		23,300,000		818,000		1,560,000		1,510,000		1,300		1,230,000		67	
WDNR Direct Contact, Industrial RCL[2]						NL		145,000		100,000,000		818,000		1,850,000		1,510,000		8,410		1,230,000		2,080	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU007 (UST 215)	CTU007-SB07	CTU007-SB07-01	2/6/2023	N	0.5 - 1.5	10	U	3.1	U	5.0	U	0.62	U	0.62	U	0.16	U	3.1	U	7.0	UJ	2.5	U
		CTU007-SB07-02	2/6/2023	N	1.5 - 2.5	12	U	3.7	U	6.0	U	0.74	U	0.74	U	0.19	U	3.7	U	8.4	UJ	3.0	U
Site CTU008 (UST 219)	CTU008-SB01/TW01	CTU008-SB01-01	1/30/2023	N	1.5 - 2.5	9.2	U	2.9	U	4.6	U	0.57	U	0.57	U	0.14	U	2.9	U	6.4	U	2.3	U
		CTU008-SB01-02	1/30/2023	N	6.5 - 7.5	9.5	U	3.0	U	4.8	U	0.60	U	0.60	U	0.15	U	3.0	U	6.7	U	2.4	U
	CTU008-SB02/TW02	CTU008-SB02-01	1/30/2023	N	1 - 2	12	U	3.9	U	6.2	U	**0.24**	**J**	0.77	U	0.19	U	3.9	U	8.7	U	3.1	U
		CTU008-SB02-01-FD	1/30/2023	FD	1 - 2	10	U	3.3	U	5.2	U	0.66	U	0.66	U	0.16	U	3.3	U	7.4	U	2.6	U
		CTU008-SB02-02	1/30/2023	N	6 - 7	14	U	4.2	U	6.8	U	0.85	U	0.85	U	0.21	U	4.2	U	9.5	U	3.4	U
	CTU008-SB03	CTU008-SB03-01	1/30/2023	N	1 - 2	11	U	3.4	U	5.5	U	0.69	U	0.69	U	0.17	U	3.4	U	7.7	U	2.7	U
		CTU008-SB03-02	1/30/2023	N	7 - 8	9.5	U	3.0	U	4.7	U	0.59	U	0.59	U	0.15	U	3.0	U	6.7	U	2.4	U
	CTU008-SB04	CTU008-SB04-01	1/30/2023	N	1.5 - 2.5	11	U	3.4	U	5.4	U	0.67	U	0.67	U	0.17	U	3.4	U	7.6	U	2.7	U
		CTU008-SB04-02	1/30/2023	N	6.5 - 7.5	10	U	3.2	U	5.1	U	0.64	U	0.64	U	0.16	U	3.2	U	7.2	U	2.5	U
	CTU008-SB05	CTU008-SB05-01	1/30/2023	N	2 - 3	3,200	U	990	U	1,600	U	**29,000**		200	U	49	U	990	U	2,200	U	790	U
		CTU008-SB05-02	1/30/2023	N	6 - 7	3,000	U	940	U	1,500	U	**1,900**		190	U	47	U	940	U	2,100	U	750	U
	CTU008-SB06/TW03	CTU008-SB06-01	1/30/2023	N	1 - 2	12	U	3.8	U	6.1	U	0.76	U	0.76	U	0.19	U	3.8	U	8.6	U	3.0	U
		CTU008-SB06-01-FD	1/30/2023	FD	1 - 2	12	U	3.7	U	5.9	U	0.74	U	0.74	U	0.19	U	3.7	U	8.4	U	3.0	U
		CTU008-SB06-02	1/30/2023	N	6 - 7	11	U	3.6	UJ	5.7	U	0.71	UJ	0.71	U	0.18	UJ	3.6	UJ	8.0	U	2.9	U
	CTU008-SB07	CTU008-SB07-01	1/30/2023	N	1 - 2	6.2	U	1.9	U	3.1	U	0.39	U	0.39	U	0.097	U	1.9	U	4.4	U	1.6	U
		CTU008-SB07-02	1/30/2023	N	6.5 - 7.5	12	U	3.7	U	5.9	U	0.74	U	0.74	U	0.19	U	3.7	U	8.3	U	3.0	U
	CTU008-SB08	CTU008-SB08-01	1/30/2023	N	1.5 - 2.5	13	U	3.9	U	6.3	U	0.78	U	0.78	U	0.20	U	3.9	U	8.8	U	3.1	U
		CTU008-SB08-02	1/30/2023	N	6.5 - 7.5	12	UJ	3.8	UJ	6.2	UJ	0.77	UJ	0.77	UJ	0.19	UJ	3.8	UJ	8.7	UJ	3.1	UJ

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						1,1,1,2-Tetrachloroethane		1,1,1-Trichloroethane		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1-Dichloroethene		1,2,3-Trichloropropane		1,2,4-Trichlorobenzene		1,2,4-Trimethylbenzene		1,2-Dibromo-3-Chloropropane	
CAS-RN:						630-20-6		71-55-6		79-34-5		79-00-5		75-34-3		75-35-4		96-18-4		120-82-1		95-63-6		96-12-8	
WDNR Soil-Groundwater RCL[1]						53.4		140.2		0.2		3.2		483		5		51.9		408		1,378		0.2	
WDNR Direct Contact, Non-Industrial RCL[2]						2.78		640		810		1.59		5,060		120,000		5		24,000		219,000		8	
WDNR Direct Contact, Industrial RCL[2]						12.3		640		3,600		7,010		22,200		1,190,000		109		113,000		219,000		92	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB01/TW01	CTU011-SB01-01	2/1/2023	N	1.5 - 2.5	3.2	UJ	3.2	UJ	0.64	UJ	2.6	UJ	0.64	UJ	1.3	UJ	0.64	UJ	1.3	UJ	3.2	UJ	7.2	UJ
		CTU011-SB01-02	2/1/2023	N	5 - 5.5	5.9	UJ	5.9	UJ	1.2	UJ	4.7	UJ	1.2	UJ	2.4	UJ	1.2	UJ	2.4	UJ	5.9	UJ	13	UJ
	CTU011-SB02/TW02	CTU011-SB02-01	2/1/2023	N	1.2 - 2.3	3.6	UJ	3.6	UJ	0.73	UJ	2.9	UJ	0.73	UJ	1.5	UJ	0.73	UJ	1.5	UJ	3.6	UJ	8.2	UJ
		CTU011-SB02-02	2/1/2023	N	4.5 - 5.5	3.4	UJ	3.4	UJ	0.68	UJ	2.7	UJ	0.68	UJ	1.4	UJ	0.68	UJ	1.4	UJ	3.4	UJ	7.6	UJ
	CTU011-SB03	CTU011-SB03-01	2/1/2023	N	1 - 2	5.8	UJ	5.8	UJ	1.2	UJ	4.6	UJ	1.2	UJ	2.3	UJ	1.2	UJ	2.3	UJ	5.8	UJ	13	UJ
		CTU011-SB03-02	2/1/2023	N	2 - 3	4.1	UJ	4.1	UJ	0.81	UJ	3.2	UJ	0.81	UJ	1.6	UJ	0.81	UJ	1.6	UJ	4.1	UJ	9.1	UJ
	CTU011-SB04	CTU011-SB04-01	2/1/2023	N	1 - 2	3.3	UJ	3.3	UJ	0.67	UJ	2.7	UJ	0.67	UJ	1.3	UJ	0.67	UJ	1.3	UJ	3.3	UJ	7.5	UJ
		CTU011-SB04-02	2/1/2023	N	2 - 3	3.7	UJ	3.7	UJ	0.75	UJ	3.0	UJ	0.75	UJ	1.5	UJ	0.75	UJ	1.5	UJ	3.7	UJ	8.4	UJ
	CTU011-SB05	CTU011-SB05-01	2/1/2023	N	1.5 - 2.5	3.1	UJ	3.1	UJ	0.62	UJ	2.5	UJ	0.62	UJ	1.2	UJ	0.62	UJ	1.2	UJ	3.1	UJ	7.0	UJ
		CTU011-SB05-02	2/1/2023	N	5 - 6	4.1	UJ	4.1	UJ	0.83	UJ	3.3	UJ	0.83	UJ	1.7	UJ	0.83	UJ	1.7	UJ	4.1	UJ	9.3	UJ
	CTU011-SB06/TW03	CTU011-SB06-01	2/1/2023	N	1 - 2	3.5	UJ	3.5	UJ	0.70	UJ	2.8	UJ	0.70	UJ	1.4	UJ	0.70	UJ	1.4	UJ	3.5	UJ	7.9	UJ
		CTU011-SB06-02	2/1/2023	N	3.5 - 4.5	3.5	UJ	3.5	UJ	0.70	UJ	2.8	UJ	0.70	UJ	1.4	UJ	0.70	UJ	1.4	UJ	3.5	UJ	7.9	UJ
	CTU011-SB07/TW04	CTU011-SB07-01	2/1/2023	N	1 - 2	4.0	UJ	4.0	UJ	0.79	UJ	3.2	UJ	0.79	UJ	1.6	UJ	0.79	UJ	1.6	UJ	4.0	UJ	8.9	UJ
		CTU011-SB07-02	2/1/2023	N	4 - 5	3.5	UJ	3.5	UJ	0.71	UJ	2.8	UJ	0.71	UJ	1.4	UJ	0.71	UJ	1.4	UJ	3.5	UJ	8.0	UJ
	CTU011-SB08	CTU011-SB08-01	2/1/2023	N	1 - 2	3.8	UJ	3.8	UJ	0.75	UJ	3.0	UJ	0.75	UJ	1.5	UJ	0.75	UJ	1.5	UJ	3.8	UJ	8.4	UJ
		CTU011-SB08-02	2/1/2023	N	3 - 4	3.1	UJ	3.1	UJ	0.62	UJ	2.5	UJ	0.62	UJ	1.2	UJ	0.62	UJ	1.2	UJ	3.1	UJ	6.9	UJ
	CTU011-SB09	CTU011-SB09-01	2/1/2023	N	1 - 2	4.1	UJ	4.1	UJ	0.82	UJ	3.3	UJ	0.82	UJ	1.6	UJ	0.82	UJ	1.6	UJ	4.1	UJ	9.3	UJ
		CTU011-SB09-01-FD	2/1/2023	FD	1 - 2	3.3	UJ	3.3	UJ	0.66	UJ	2.6	UJ	0.66	UJ	1.3	UJ	0.66	UJ	1.3	UJ	3.3	UJ	7.4	UJ
		CTU011-SB09-02	2/1/2023	N	3.5 - 4.5	3.4	UJ	3.4	UJ	0.67	UJ	2.7	UJ	0.67	UJ	1.3	UJ	0.67	UJ	1.3	UJ	3.4	UJ	7.6	UJ
	CTU011-SB10/TW05	CTU011-SB10-01	2/1/2023	N	1 - 2	2.8	UJ	2.8	UJ	0.56	UJ	2.2	UJ	0.56	UJ	1.1	UJ	0.56	UJ	1.1	UJ	2.8	UJ	6.3	UJ
		CTU011-SB10-02	2/1/2023	N	4 - 5	3.4	UJ	3.4	UJ	0.69	UJ	2.7	UJ	0.69	UJ	1.4	UJ	0.69	UJ	1.4	UJ	3.4	UJ	7.7	UJ

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						1,2-Dibromoethane (EDB)		1,2-Dichlorobenzene		1,2-Dichloroethane		1,2-Dichloropropane		1,3,5-Trimethylbenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1,4-Dioxane		2-Butanone (MEK)		4-Methyl-2-pentanone (MIBK)	
CAS-RN:						106-93-4		95-50-1		107-06-2		78-87-5		108-67-8		541-73-1		106-46-7		123-91-1		78-93-3		108-10-1	
WDNR Soil-Groundwater RCL[1]						0.028		1,168		2.8		3.3		1,378		1,152		144		1.2		1,666		225	
WDNR Direct Contact, Non-Industrial RCL[2]						50		376,000		652		3,400		182,000		297,000		3,740		5,720		28,400,000		2,450,000	
WDNR Direct Contact, Industrial RCL[2]						221		376,000		2,870		15,000		182,000		297,000		16,400		26,500		28,400,000		3,360,000	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB01/TW01	CTU011-SB01-01	2/1/2023	N	1.5 - 2.5	1.3	UJ	3.2	UJ	1.3	UJ	1.3	UJ	3.2	UJ	1.3	UJ	0.64	UJ	100	UJ	10	UJ	10	UJ
		CTU011-SB01-02	2/1/2023	N	5 - 5.5	2.4	UJ	5.9	UJ	2.4	UJ	2.4	UJ	5.9	UJ	2.4	UJ	1.2	UJ	190	UJ	19	UJ	19	UJ
	CTU011-SB02/TW02	CTU011-SB02-01	2/1/2023	N	1.2 - 2.3	1.5	UJ	3.6	UJ	1.5	UJ	1.5	UJ	3.6	UJ	1.5	UJ	0.73	UJ	120	UJ	12	UJ	12	UJ
		CTU011-SB02-02	2/1/2023	N	4.5 - 5.5	1.4	UJ	3.4	UJ	1.4	UJ	1.4	UJ	3.4	UJ	1.4	UJ	0.68	UJ	110	UJ	11	UJ	11	UJ
	CTU011-SB03	CTU011-SB03-01	2/1/2023	N	1 - 2	2.3	UJ	5.8	UJ	2.3	UJ	2.3	UJ	5.8	UJ	2.3	UJ	1.2	UJ	190	UJ	19	UJ	19	UJ
		CTU011-SB03-02	2/1/2023	N	2 - 3	1.6	UJ	4.1	UJ	1.6	UJ	1.6	UJ	4.1	UJ	1.6	UJ	0.81	UJ	130	UJ	13	UJ	13	UJ
	CTU011-SB04	CTU011-SB04-01	2/1/2023	N	1 - 2	1.3	UJ	3.3	UJ	1.3	UJ	1.3	UJ	3.3	UJ	1.3	UJ	0.67	UJ	110	UJ	11	UJ	11	UJ
		CTU011-SB04-02	2/1/2023	N	2 - 3	1.5	UJ	3.7	UJ	1.5	UJ	1.5	UJ	3.7	UJ	1.5	UJ	0.75	UJ	120	UJ	12	UJ	12	UJ
	CTU011-SB05	CTU011-SB05-01	2/1/2023	N	1.5 - 2.5	1.2	UJ	3.1	UJ	1.2	UJ	1.2	UJ	3.1	UJ	1.2	UJ	0.62	UJ	99	UJ	9.9	UJ	9.9	UJ
		CTU011-SB05-02	2/1/2023	N	5 - 6	1.7	UJ	4.1	UJ	1.7	UJ	1.7	UJ	4.1	UJ	1.7	UJ	0.83	UJ	130	UJ	13	UJ	13	UJ
	CTU011-SB06/TW03	CTU011-SB06-01	2/1/2023	N	1 - 2	1.4	UJ	3.5	UJ	1.4	UJ	1.4	UJ	3.5	UJ	1.4	UJ	0.70	UJ	110	UJ	11	UJ	11	UJ
		CTU011-SB06-02	2/1/2023	N	3.5 - 4.5	1.4	UJ	3.5	UJ	1.4	UJ	1.4	UJ	3.5	UJ	1.4	UJ	0.70	UJ	110	UJ	11	UJ	11	UJ
	CTU011-SB07/TW04	CTU011-SB07-01	2/1/2023	N	1 - 2	1.6	UJ	4.0	UJ	1.6	UJ	1.6	UJ	4.0	UJ	1.6	UJ	0.79	UJ	130	UJ	13	UJ	13	UJ
		CTU011-SB07-02	2/1/2023	N	4 - 5	1.4	UJ	3.5	UJ	1.4	UJ	1.4	UJ	3.5	UJ	1.4	UJ	0.71	UJ	110	UJ	11	UJ	11	UJ
	CTU011-SB08	CTU011-SB08-01	2/1/2023	N	1 - 2	1.5	UJ	3.8	UJ	1.5	UJ	1.5	UJ	3.8	UJ	1.5	UJ	0.75	UJ	120	UJ	12	UJ	12	UJ
		CTU011-SB08-02	2/1/2023	N	3 - 4	1.2	UJ	3.1	UJ	1.2	UJ	1.2	UJ	3.1	UJ	1.2	UJ	0.62	UJ	98	UJ	9.8	UJ	9.8	UJ
	CTU011-SB09	CTU011-SB09-01	2/1/2023	N	1 - 2	1.6	UJ	4.1	UJ	1.6	UJ	1.6	UJ	4.1	UJ	1.6	UJ	0.82	UJ	130	UJ	13	UJ	13	UJ
		CTU011-SB09-01-FD	2/1/2023	FD	1 - 2	1.3	UJ	3.3	UJ	1.3	UJ	1.3	UJ	3.3	UJ	1.3	UJ	0.66	UJ	110	UJ	11	UJ	11	UJ
		CTU011-SB09-02	2/1/2023	N	3.5 - 4.5	1.3	UJ	3.4	UJ	1.3	UJ	1.3	UJ	3.4	UJ	1.3	UJ	0.67	UJ	110	UJ	11	UJ	11	UJ
	CTU011-SB10/TW05	CTU011-SB10-01	2/1/2023	N	1 - 2	1.1	UJ	2.8	UJ	1.1	UJ	1.1	UJ	2.8	UJ	1.1	UJ	0.56	UJ	90	UJ	9.0	UJ	9.0	UJ
		CTU011-SB10-02	2/1/2023	N	4 - 5	1.4	UJ	3.4	UJ	1.4	UJ	1.4	UJ	3.4	UJ	1.4	UJ	0.69	UJ	110	UJ	11	UJ	11	UJ

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

						Acetone		Benzene		Bromodichloromethane		Bromoform		Bromomethane		Carbon disulfide		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
					Analyte:																						
					CAS-RN:	67-64-1		71-43-2		75-27-4		75-25-2		74-83-9		75-15-0		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
					WDNR Soil-Groundwater RCL[1]	3,676		5.1		0.3		2.3		5.1		591		3.9		135.8		32		226.6		3.3	
					WDNR Direct Contact, Non-Industrial RCL[2]	63,400,000		1,600		418		25,400		9,600		738,000		916		370,000		8,280		2,120,000		454	
					WDNR Direct Contact, Industrial RCL[2]	100,000,000		7,070		1,830		113,000		43,000		738,000		4,030		761,000		38,900		2,120,000		1,980	
					Units:	µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB01/TW01	CTU011-SB01-01	2/1/2023	N	1.5 - 2.5	**53**	**J-**	0.32	UJ	3.2	UJ	4.0	UJ	2.6	UJ	3.2	UJ	3.2	UJ	3.2	UJ	3.2	UJ	5.1	UJ	0.64	UJ
		CTU011-SB01-02	2/1/2023	N	5 - 5.5	**100**	**J-**	0.59	UJ	5.9	UJ	7.4	UJ	4.7	UJ	5.9	UJ	5.9	UJ	5.9	UJ	5.9	UJ	9.5	UJ	1.2	UJ
	CTU011-SB02/TW02	CTU011-SB02-01	2/1/2023	N	1.2 - 2.3	64	UJ	0.36	UJ	3.6	UJ	4.5	UJ	2.9	UJ	3.6	UJ	3.6	UJ	3.6	UJ	3.6	UJ	5.8	UJ	0.73	UJ
		CTU011-SB02-02	2/1/2023	N	4.5 - 5.5	59	UJ	0.34	UJ	3.4	UJ	4.2	UJ	2.7	UJ	3.4	UJ	3.4	UJ	3.4	UJ	3.4	UJ	5.4	UJ	0.68	UJ
	CTU011-SB03	CTU011-SB03-01	2/1/2023	N	1 - 2	100	UJ	0.58	UJ	5.8	UJ	7.2	UJ	4.6	UJ	5.8	UJ	5.8	UJ	5.8	UJ	5.8	UJ	9.3	UJ	1.2	UJ
		CTU011-SB03-02	2/1/2023	N	2 - 3	71	UJ	0.41	UJ	4.1	UJ	5.1	UJ	3.2	UJ	4.1	UJ	4.1	UJ	4.1	UJ	4.1	UJ	6.5	UJ	0.81	UJ
	CTU011-SB04	CTU011-SB04-01	2/1/2023	N	1 - 2	58	UJ	0.33	UJ	3.3	UJ	4.2	UJ	2.7	UJ	3.3	UJ	3.3	UJ	3.3	UJ	3.3	UJ	5.3	UJ	0.67	UJ
		CTU011-SB04-02	2/1/2023	N	2 - 3	65	UJ	0.37	UJ	3.7	UJ	4.7	UJ	3.0	UJ	3.7	UJ	3.7	UJ	3.7	UJ	3.7	UJ	6.0	UJ	0.75	UJ
	CTU011-SB05	CTU011-SB05-01	2/1/2023	N	1.5 - 2.5	54	UJ	0.31	UJ	3.1	UJ	3.9	UJ	2.5	UJ	3.1	UJ	3.1	UJ	3.1	UJ	3.1	UJ	5.0	UJ	0.62	UJ
		CTU011-SB05-02	2/1/2023	N	5 - 6	73	UJ	0.41	UJ	4.1	UJ	5.2	UJ	3.3	UJ	4.1	UJ	4.1	UJ	4.1	UJ	4.1	UJ	6.6	UJ	0.83	UJ
	CTU011-SB06/TW03	CTU011-SB06-01	2/1/2023	N	1 - 2	61	UJ	0.35	UJ	3.5	UJ	4.4	UJ	2.8	UJ	3.5	UJ	3.5	UJ	3.5	UJ	3.5	UJ	5.6	UJ	0.70	UJ
		CTU011-SB06-02	2/1/2023	N	3.5 - 4.5	61	UJ	0.35	UJ	3.5	UJ	4.4	UJ	2.8	UJ	3.5	UJ	3.5	UJ	3.5	UJ	3.5	UJ	5.6	UJ	0.70	UJ
	CTU011-SB07/TW04	CTU011-SB07-01	2/1/2023	N	1 - 2	69	UJ	0.40	UJ	4.0	UJ	4.9	UJ	3.2	UJ	4.0	UJ	4.0	UJ	4.0	UJ	4.0	UJ	6.3	UJ	0.79	UJ
		CTU011-SB07-02	2/1/2023	N	4 - 5	62	UJ	0.35	UJ	3.5	UJ	4.4	UJ	2.8	UJ	3.5	UJ	3.5	UJ	3.5	UJ	3.5	UJ	5.7	UJ	0.71	UJ
	CTU011-SB08	CTU011-SB08-01	2/1/2023	N	1 - 2	66	UJ	0.38	UJ	3.8	UJ	4.7	UJ	3.0	UJ	3.8	UJ	3.8	UJ	3.8	UJ	3.8	UJ	6.0	UJ	0.75	UJ
		CTU011-SB08-02	2/1/2023	N	3 - 4	54	UJ	0.31	UJ	3.1	UJ	3.8	UJ	2.5	UJ	3.1	UJ	3.1	UJ	3.1	UJ	3.1	UJ	4.9	UJ	0.62	UJ
	CTU011-SB09	CTU011-SB09-01	2/1/2023	N	1 - 2	72	UJ	0.41	UJ	4.1	UJ	5.1	UJ	3.3	UJ	4.1	UJ	4.1	UJ	4.1	UJ	4.1	UJ	6.6	UJ	0.82	UJ
		CTU011-SB09-01-FD	2/1/2023	FD	1 - 2	58	UJ	0.33	UJ	3.3	UJ	4.1	UJ	2.6	UJ	3.3	UJ	3.3	UJ	3.3	UJ	3.3	UJ	5.3	UJ	0.66	UJ
		CTU011-SB09-02	2/1/2023	N	3.5 - 4.5	59	UJ	0.34	UJ	3.4	UJ	4.2	UJ	2.7	UJ	3.4	UJ	3.4	UJ	3.4	UJ	3.4	UJ	5.4	UJ	0.67	UJ
	CTU011-SB10/TW05	CTU011-SB10-01	2/1/2023	N	1 - 2	49	UJ	0.28	UJ	2.8	UJ	3.5	UJ	2.2	UJ	2.8	UJ	2.8	UJ	2.8	UJ	2.8	UJ	4.5	UJ	0.56	UJ
		CTU011-SB10-02	2/1/2023	N	4 - 5	60	UJ	0.34	UJ	3.4	UJ	4.3	UJ	2.7	UJ	3.4	UJ	3.4	UJ	3.4	UJ	3.4	UJ	5.5	UJ	0.69	UJ

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

						Chloromethane		cis-1,2-Dichloroethene		cis-1,3-Dichloropropene		Dichlorodifluoromethane		Ethyl ether		Ethylbenzene		Hexane		Methyl tert-butyl ether		Methylene Chloride		m-Xylene & p-Xylene		o-Xylene6		Styrene	
					Analyte:																								
					CAS-RN:	74-87-3		156-59-2		10061-01-5		75-71-8		60-29-7		100-41-4		110-54-3		1634-04-4		75-09-2		179601-23-1		95-47-6		100-42-5	
					WDNR Soil-Groundwater RCL[1]	15.5		41.2		0.3		3,086		447		1,570		8,465		27		2.6		3,960		3,960		220	
					WDNR Direct Contact, Non-Industrial RCL[2]	159,000		156,000		1,210,000		126,000		10,100,000		8,020		141,000		63,800		61,800		388,000		434,000		867,000	
					WDNR Direct Contact, Industrial RCL[2]	669,000		2,340,000		1,210,000		530,000		10,100,000		35,400		141,000		282,000		1,150,000		388,000		434,000		867,000	
					Units:	µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB01/TW01	CTU011-SB01-01	2/1/2023	N	1.5 - 2.5	1.3	UJ	0.64	UJ	0.32	UJ	5.1	UJ	5.1	UJ	0.64	UJ	0.32	UJ	5.1	UJ	2.6	UJ	2.4	UJ	0.64	UJ	0.64	UJ
		CTU011-SB01-02	2/1/2023	N	5 - 5.5	2.4	UJ	1.2	UJ	0.59	UJ	9.5	UJ	9.5	UJ	1.2	UJ	**0.44**	**J-**	**5.8**	**J-**	4.7	UJ	4.4	UJ	1.2	UJ	1.2	UJ
	CTU011-SB02/TW02	CTU011-SB02-01	2/1/2023	N	1.2 - 2.3	1.5	UJ	0.73	UJ	0.36	UJ	5.8	UJ	5.8	UJ	0.73	UJ	0.36	UJ	5.8	UJ	2.9	UJ	2.7	UJ	0.73	UJ	0.73	UJ
		CTU011-SB02-02	2/1/2023	N	4.5 - 5.5	1.4	UJ	0.68	UJ	0.34	UJ	5.4	UJ	5.4	UJ	0.68	UJ	0.34	UJ	5.4	UJ	2.7	UJ	2.5	UJ	0.68	UJ	0.68	UJ
	CTU011-SB03	CTU011-SB03-01	2/1/2023	N	1 - 2	2.3	UJ	1.2	UJ	0.58	UJ	9.3	UJ	9.3	UJ	1.2	UJ	0.58	UJ	9.3	UJ	4.6	UJ	4.3	UJ	1.2	UJ	1.2	UJ
		CTU011-SB03-02	2/1/2023	N	2 - 3	1.6	UJ	0.81	UJ	0.41	UJ	6.5	UJ	6.5	UJ	0.81	UJ	0.41	UJ	6.5	UJ	3.2	UJ	3.0	UJ	0.81	UJ	0.81	UJ
	CTU011-SB04	CTU011-SB04-01	2/1/2023	N	1 - 2	1.3	UJ	0.67	UJ	0.33	UJ	5.3	UJ	5.3	UJ	0.67	UJ	0.33	UJ	5.3	UJ	2.7	UJ	2.5	UJ	0.67	UJ	0.67	UJ
		CTU011-SB04-02	2/1/2023	N	2 - 3	1.5	UJ	0.75	UJ	0.37	UJ	6.0	UJ	6.0	UJ	0.75	UJ	0.37	UJ	6.0	UJ	3.0	UJ	2.8	UJ	0.75	UJ	0.75	UJ
	CTU011-SB05	CTU011-SB05-01	2/1/2023	N	1.5 - 2.5	1.2	UJ	0.62	UJ	0.31	UJ	5.0	UJ	5.0	UJ	0.62	UJ	0.31	UJ	5.0	UJ	2.5	UJ	2.3	UJ	0.62	UJ	0.62	UJ
		CTU011-SB05-02	2/1/2023	N	5 - 6	1.7	UJ	0.83	UJ	0.41	UJ	6.6	UJ	6.6	UJ	0.83	UJ	0.41	UJ	6.6	UJ	3.3	UJ	3.1	UJ	0.83	UJ	0.83	UJ
	CTU011-SB06/TW03	CTU011-SB06-01	2/1/2023	N	1 - 2	1.4	UJ	0.70	UJ	0.35	UJ	5.6	UJ	5.6	UJ	0.70	UJ	0.35	UJ	5.6	UJ	2.8	UJ	2.6	UJ	0.70	UJ	0.70	UJ
		CTU011-SB06-02	2/1/2023	N	3.5 - 4.5	1.4	UJ	0.70	UJ	0.35	UJ	5.6	UJ	5.6	UJ	0.70	UJ	0.35	UJ	5.6	UJ	2.8	UJ	2.6	UJ	0.70	UJ	0.70	UJ
	CTU011-SB07/TW04	CTU011-SB07-01	2/1/2023	N	1 - 2	1.6	UJ	0.79	UJ	0.40	UJ	6.3	UJ	6.3	UJ	0.79	UJ	0.40	UJ	6.3	UJ	3.2	UJ	3.0	UJ	0.79	UJ	0.79	UJ
		CTU011-SB07-02	2/1/2023	N	4 - 5	1.4	UJ	0.71	UJ	0.35	UJ	5.7	UJ	5.7	UJ	0.71	UJ	0.35	UJ	5.7	UJ	2.8	UJ	2.7	UJ	0.71	UJ	0.71	UJ
	CTU011-SB08	CTU011-SB08-01	2/1/2023	N	1 - 2	1.5	UJ	0.75	UJ	0.38	UJ	6.0	UJ	6.0	UJ	0.75	UJ	0.38	UJ	6.0	UJ	3.0	UJ	2.8	UJ	0.75	UJ	0.75	UJ
		CTU011-SB08-02	2/1/2023	N	3 - 4	1.2	UJ	0.62	UJ	0.31	UJ	4.9	UJ	4.9	UJ	0.62	UJ	0.31	UJ	4.9	UJ	2.5	UJ	2.3	UJ	0.62	UJ	0.62	UJ
	CTU011-SB09	CTU011-SB09-01	2/1/2023	N	1 - 2	1.6	UJ	0.82	UJ	0.41	UJ	6.6	UJ	6.6	UJ	0.82	UJ	0.41	UJ	6.6	UJ	3.3	UJ	3.1	UJ	0.82	UJ	0.82	UJ
		CTU011-SB09-01-FD	2/1/2023	FD	1 - 2	1.3	UJ	0.66	UJ	0.33	UJ	5.3	UJ	5.3	UJ	0.66	UJ	0.33	UJ	5.3	UJ	2.6	UJ	2.5	UJ	0.66	UJ	0.66	UJ
		CTU011-SB09-02	2/1/2023	N	3.5 - 4.5	1.3	UJ	0.67	UJ	0.34	UJ	5.4	UJ	5.4	UJ	0.67	UJ	0.34	UJ	5.4	UJ	2.7	UJ	2.5	UJ	0.67	UJ	0.67	UJ
	CTU011-SB10/TW05	CTU011-SB10-01	2/1/2023	N	1 - 2	1.1	UJ	0.56	UJ	0.28	UJ	4.5	UJ	4.5	UJ	0.56	UJ	0.28	UJ	4.5	UJ	2.2	UJ	2.1	UJ	0.56	UJ	0.56	UJ
		CTU011-SB10-02	2/1/2023	N	4 - 5	1.4	UJ	0.69	UJ	0.34	UJ	5.5	UJ	5.5	UJ	0.69	UJ	0.34	UJ	5.5	UJ	2.7	UJ	2.6	UJ	0.69	UJ	0.69	UJ

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						t-Butyl alcohol		Tetrachloroethene		Tetrahydrofuran		Toluene		trans-1,2-Dichloroethene		trans-1,3-Dichloropropene		Trichloroethene		Trichlorofluoromethane		Vinyl chloride	
CAS-RN:						75-65-0		127-18-4		109-99-9		108-88-3		156-60-5		10061-02-6		79-01-6		75-69-4		75-01-4	
WDNR Soil-Groundwater RCL[1]						4.9		4.5		22.2		1,107		62.6		0.3		3.6		NL		0.1	
WDNR Direct Contact, Non-Industrial RCL[2]						NL		33,000		23,300,000		818,000		1,560,000		1,510,000		1,300		1,230,000		67	
WDNR Direct Contact, Industrial RCL[2]						NL		145,000		100,000,000		818,000		1,850,000		1,510,000		8,410		1,230,000		2,080	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB01/TW01	CTU011-SB01-01	2/1/2023	N	1.5 - 2.5	10	UJ	3.2	UJ	5.1	UJ	0.64	UJ	0.64	UJ	0.16	UJ	3.2	UJ	7.2	UJ	2.6	UJ
		CTU011-SB01-02	2/1/2023	N	5 - 5.5	19	UJ	5.9	UJ	9.5	UJ	1.2	UJ	1.2	UJ	0.30	UJ	5.9	UJ	13	UJ	4.7	UJ
	CTU011-SB02/TW02	CTU011-SB02-01	2/1/2023	N	1.2 - 2.3	12	UJ	3.6	UJ	5.8	UJ	0.73	UJ	0.73	UJ	0.18	UJ	3.6	UJ	8.2	UJ	2.9	UJ
		CTU011-SB02-02	2/1/2023	N	4.5 - 5.5	11	UJ	3.4	UJ	5.4	UJ	0.68	UJ	0.68	UJ	0.17	UJ	3.4	UJ	7.6	UJ	2.7	UJ
	CTU011-SB03	CTU011-SB03-01	2/1/2023	N	1 - 2	19	UJ	5.8	UJ	9.3	UJ	1.2	UJ	1.2	UJ	0.29	UJ	5.8	UJ	13	UJ	4.6	UJ
		CTU011-SB03-02	2/1/2023	N	2 - 3	13	UJ	4.1	UJ	6.5	UJ	0.81	UJ	0.81	UJ	0.20	UJ	4.1	UJ	9.1	UJ	3.2	UJ
	CTU011-SB04	CTU011-SB04-01	2/1/2023	N	1 - 2	11	UJ	3.3	UJ	5.3	UJ	0.67	UJ	0.67	UJ	0.17	UJ	3.3	UJ	7.5	UJ	2.7	UJ
		CTU011-SB04-02	2/1/2023	N	2 - 3	12	UJ	3.7	UJ	6.0	UJ	0.75	UJ	0.75	UJ	0.19	UJ	3.7	UJ	8.4	UJ	3.0	UJ
	CTU011-SB05	CTU011-SB05-01	2/1/2023	N	1.5 - 2.5	9.9	UJ	3.1	UJ	5.0	UJ	0.62	UJ	0.62	UJ	0.15	UJ	3.1	UJ	7.0	UJ	2.5	UJ
		CTU011-SB05-02	2/1/2023	N	5 - 6	13	UJ	4.1	UJ	6.6	UJ	0.83	UJ	0.83	UJ	0.21	UJ	4.1	UJ	9.3	UJ	3.3	UJ
	CTU011-SB06/TW03	CTU011-SB06-01	2/1/2023	N	1 - 2	11	UJ	3.5	UJ	5.6	UJ	0.70	UJ	0.70	UJ	0.18	UJ	3.5	UJ	7.9	UJ	2.8	UJ
		CTU011-SB06-02	2/1/2023	N	3.5 - 4.5	11	UJ	3.5	UJ	5.6	UJ	0.70	UJ	0.70	UJ	0.18	UJ	3.5	UJ	7.9	UJ	2.8	UJ
	CTU011-SB07/TW04	CTU011-SB07-01	2/1/2023	N	1 - 2	13	UJ	4.0	UJ	6.3	UJ	0.79	UJ	0.79	UJ	0.20	UJ	4.0	UJ	8.9	UJ	3.2	UJ
		CTU011-SB07-02	2/1/2023	N	4 - 5	11	UJ	3.5	UJ	5.7	UJ	0.71	UJ	0.71	UJ	0.18	UJ	3.5	UJ	8.0	UJ	2.8	UJ
	CTU011-SB08	CTU011-SB08-01	2/1/2023	N	1 - 2	12	UJ	3.8	UJ	6.0	UJ	0.75	UJ	0.75	UJ	0.19	UJ	3.8	UJ	8.4	UJ	3.0	UJ
		CTU011-SB08-02	2/1/2023	N	3 - 4	9.8	UJ	3.1	UJ	4.9	UJ	0.62	UJ	0.62	UJ	0.15	UJ	3.1	UJ	6.9	UJ	2.5	UJ
	CTU011-SB09	CTU011-SB09-01	2/1/2023	N	1 - 2	13	UJ	4.1	UJ	6.6	UJ	0.82	UJ	0.82	UJ	0.21	UJ	4.1	UJ	9.3	UJ	3.3	UJ
		CTU011-SB09-01-FD	2/1/2023	FD	1 - 2	11	UJ	3.3	UJ	5.3	UJ	0.66	UJ	0.66	UJ	0.16	UJ	3.3	UJ	7.4	UJ	2.6	UJ
		CTU011-SB09-02	2/1/2023	N	3.5 - 4.5	11	UJ	3.4	UJ	5.4	UJ	0.67	UJ	0.67	UJ	0.17	UJ	3.4	UJ	7.6	UJ	2.7	UJ
	CTU011-SB10/TW05	CTU011-SB10-01	2/1/2023	N	1 - 2	9.0	UJ	2.8	UJ	4.5	UJ	0.56	UJ	0.56	UJ	0.14	UJ	2.8	UJ	6.3	UJ	2.2	UJ
		CTU011-SB10-02	2/1/2023	N	4 - 5	11	UJ	3.4	UJ	5.5	UJ	0.69	UJ	0.69	UJ	0.17	UJ	3.4	UJ	7.7	UJ	2.7	UJ

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						1,1,1,2-Tetrachloroethane		1,1,1-Trichloroethane		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1-Dichloroethene		1,2,3-Trichloropropane		1,2,4-Trichlorobenzene		1,2,4-Trimethylbenzene		1,2-Dibromo-3-Chloropropane	
CAS-RN:						630-20-6		71-55-6		79-34-5		79-00-5		75-34-3		75-35-4		96-18-4		120-82-1		95-63-6		96-12-8	
WDNR Soil-Groundwater RCL[1]						53.4		140.2		0.2		3.2		483		5		51.9		408		1,378		0.2	
WDNR Direct Contact, Non-Industrial RCL[2]						2.78		640		810		1.59		5,060		120,000		5		24,000		219,000		8	
WDNR Direct Contact, Industrial RCL[2]						12.3		640		3,600		7,010		22,200		1,190,000		109		113,000		219,000		92	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Type**	**Sample Depth Interval (ft bgs)**	**Result**	**Q**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB11	CTU011-SB11-01	2/1/2023	N	1 - 2	2.8	UJ	2.8	UJ	0.56	UJ	2.2	UJ	0.56	UJ	1.1	UJ	0.56	UJ	1.1	UJ	2.8	UJ	6.3	UJ
		CTU011-SB11-02	2/1/2023	N	2.5 - 3.5	3.9	UJ	3.9	UJ	0.79	UJ	3.1	UJ	0.79	UJ	1.6	UJ	0.79	UJ	1.6	UJ	3.9	UJ	8.9	UJ
		CTU011-SB11-02-FD	2/1/2023	FD	2.5 - 3.5	4.1	UJ	4.1	UJ	0.83	UJ	3.3	UJ	0.83	UJ	1.7	UJ	0.83	UJ	1.7	UJ	4.1	UJ	9.3	UJ
	CTU011-SB12	CTU011-SB12-01	2/1/2023	N	1.5 - 2.5	3.3	UJ	3.3	UJ	0.66	UJ	2.6	UJ	0.66	UJ	1.3	UJ	0.66	UJ	1.3	UJ	3.3	UJ	7.4	UJ
		CTU011-SB12-02	2/1/2023	N	4.5 - 5.5	3.3	UJ	3.3	UJ	0.65	UJ	2.6	UJ	0.65	UJ	1.3	UJ	0.65	UJ	*1.3*	*R*	3.3	UJ	7.3	UJ

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

						1,2-Dibromoethane (EDB)		1,2-Dichlorobenzene		1,2-Dichloroethane		1,2-Dichloropropane		1,3,5-Trimethylbenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1,4-Dioxane		2-Butanone (MEK)		4-Methyl-2-pentanone (MIBK)	
					Analyte:																				
					CAS-RN:	106-93-4		95-50-1		107-06-2		78-87-5		108-67-8		541-73-1		106-46-7		123-91-1		78-93-3		108-10-1	
					WDNR Soil-Groundwater RCL[1]	0.028		1,168		2.8		3.3		1,378		1,152		144		1.2		1,666		225	
					WDNR Direct Contact, Non-Industrial RCL[2]	50		376,000		652		3,400		182,000		297,000		3,740		5,720		28,400,000		2,450,000	
					WDNR Direct Contact, Industrial RCL[2]	221		376,000		2,870		15,000		182,000		297,000		16,400		26,500		28,400,000		3,360,000	
					Units:	µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB11	CTU011-SB11-01	2/1/2023	N	1 - 2	1.1	UJ	2.8	UJ	1.1	UJ	1.1	UJ	2.8	UJ	1.1	UJ	0.56	UJ	90	UJ	9.0	UJ	9.0	UJ
		CTU011-SB11-02	2/1/2023	N	2.5 - 3.5	1.6	UJ	3.9	UJ	1.6	UJ	1.6	UJ	3.9	UJ	1.6	UJ	0.79	UJ	130	UJ	13	UJ	13	UJ
		CTU011-SB11-02-FD	2/1/2023	FD	2.5 - 3.5	1.7	UJ	4.1	UJ	1.7	UJ	1.7	UJ	4.1	UJ	1.7	UJ	0.83	UJ	130	UJ	13	UJ	13	UJ
	CTU011-SB12	CTU011-SB12-01	2/1/2023	N	1.5 - 2.5	1.3	UJ	3.3	UJ	1.3	UJ	1.3	UJ	3.3	UJ	1.3	UJ	0.66	UJ	100	UJ	10	UJ	10	UJ
		CTU011-SB12-02	2/1/2023	N	4.5 - 5.5	1.3	UJ	3.3	UJ	1.3	UJ	1.3	UJ	3.3	UJ	1.3	UJ	0.65	UJ	100	UJ	10	UJ	10	UJ

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Acetone		Benzene		Bromodichloromethane		Bromoform		Bromomethane		Carbon disulfide		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS-RN:						67-64-1		71-43-2		75-27-4		75-25-2		74-83-9		75-15-0		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
WDNR Soil-Groundwater RCL[1]						3,676		5.1		0.3		2.3		5.1		591		3.9		135.8		32		226.6		3.3	
WDNR Direct Contact, Non-Industrial RCL[2]						63,400,000		1,600		418		25,400		9,600		738,000		916		370,000		8,280		2,120,000		454	
WDNR Direct Contact, Industrial RCL[2]						100,000,000		7,070		1,830		113,000		43,000		738,000		4,030		761,000		38,900		2,120,000		1,980	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB11	CTU011-SB11-01	2/1/2023	N	1 - 2	49	UJ	0.28	UJ	2.8	UJ	3.5	UJ	2.2	UJ	2.8	UJ	2.8	UJ	2.8	UJ	2.8	UJ	4.5	UJ	0.56	UJ
		CTU011-SB11-02	2/1/2023	N	2.5 - 3.5	69	UJ	0.39	UJ	3.9	UJ	4.9	UJ	3.1	UJ	3.9	UJ	3.9	UJ	3.9	UJ	3.9	UJ	6.3	UJ	0.79	UJ
		CTU011-SB11-02-FD	2/1/2023	FD	2.5 - 3.5	72	UJ	0.41	UJ	4.1	UJ	5.2	UJ	3.3	UJ	4.1	UJ	4.1	UJ	4.1	UJ	4.1	UJ	6.6	UJ	0.83	UJ
	CTU011-SB12	CTU011-SB12-01	2/1/2023	N	1.5 - 2.5	**42**	**J-**	0.33	UJ	3.3	UJ	4.1	UJ	2.6	UJ	3.3	UJ	3.3	UJ	3.3	UJ	3.3	UJ	5.2	UJ	0.66	UJ
		CTU011-SB12-02	2/1/2023	N	4.5 - 5.5	**190**	**J-**	0.33	UJ	3.3	UJ	4.1	UJ	2.6	UJ	3.3	UJ	3.3	UJ	3.3	UJ	3.3	UJ	5.2	UJ	0.65	UJ

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Chloromethane		cis-1,2-Dichloroethene		cis-1,3-Dichloropropene		Dichlorodifluoromethane		Ethyl ether		Ethylbenzene		Hexane		Methyl tert-butyl ether		Methylene Chloride		m-Xylene & p-Xylene		o-Xylene6		Styrene	
CAS-RN:						74-87-3		156-59-2		10061-01-5		75-71-8		60-29-7		100-41-4		110-54-3		1634-04-4		75-09-2		179601-23-1		95-47-6		100-42-5	
WDNR Soil-Groundwater RCL[1]						15.5		41.2		0.3		3,086		447		1,570		8,465		27		2.6		3,960		3,960		220	
WDNR Direct Contact, Non-Industrial RCL[2]						159,000		156,000		1,210,000		126,000		10,100,000		8,020		141,000		63,800		61,800		388,000		434,000		867,000	
WDNR Direct Contact, Industrial RCL[2]						669,000		2,340,000		1,210,000		530,000		10,100,000		35,400		141,000		282,000		1,150,000		388,000		434,000		867,000	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB11	CTU011-SB11-01	2/1/2023	N	1 - 2	1.1	UJ	0.56	UJ	0.28	UJ	4.5	UJ	4.5	UJ	0.56	UJ	0.28	UJ	4.5	UJ	2.2	UJ	2.1	UJ	0.56	UJ	0.56	UJ
		CTU011-SB11-02	2/1/2023	N	2.5 - 3.5	1.6	UJ	0.79	UJ	0.39	UJ	6.3	UJ	6.3	UJ	0.79	UJ	0.39	UJ	6.3	UJ	3.1	UJ	3.0	UJ	0.79	UJ	0.79	UJ
		CTU011-SB11-02-FD	2/1/2023	FD	2.5 - 3.5	1.7	UJ	0.83	UJ	0.41	UJ	6.6	UJ	6.6	UJ	0.83	UJ	0.41	UJ	6.6	UJ	3.3	UJ	3.1	UJ	0.83	UJ	0.83	UJ
	CTU011-SB12	CTU011-SB12-01	2/1/2023	N	1.5 - 2.5	1.3	UJ	0.66	UJ	0.33	UJ	5.2	UJ	5.2	UJ	0.66	UJ	0.33	UJ	5.2	UJ	2.6	UJ	2.5	UJ	0.66	UJ	0.66	UJ
		CTU011-SB12-02	2/1/2023	N	4.5 - 5.5	1.3	UJ	0.65	UJ	0.33	UJ	5.2	UJ	5.2	UJ	0.65	UJ	**32**	**J-**	5.2	UJ	2.6	UJ	2.4	UJ	0.65	UJ	0.65	UJ

Table 7
Soil Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						t-Butyl alcohol		Tetrachloroethene		Tetrahydrofuran		Toluene		trans-1,2-Dichloroethene		trans-1,3-Dichloropropene		Trichloroethene		Trichlorofluoromethane		Vinyl chloride	
CAS-RN:						75-65-0		127-18-4		109-99-9		108-88-3		156-60-5		10061-02-6		79-01-6		75-69-4		75-01-4	
WDNR Soil-Groundwater RCL[1]						4.9		4.5		22.2		1,107		62.6		0.3		3.6		NL		0.1	
WDNR Direct Contact, Non-Industrial RCL[2]						NL		33,000		23,300,000		818,000		1,560,000		1,510,000		1,300		1,230,000		67	
WDNR Direct Contact, Industrial RCL[2]						NL		145,000		100,000,000		818,000		1,850,000		1,510,000		8,410		1,230,000		2,080	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB11	CTU011-SB11-01	2/1/2023	N	1 - 2	9.0	UJ	2.8	UJ	4.5	UJ	0.56	UJ	0.56	UJ	0.14	UJ	2.8	UJ	6.3	UJ	2.2	UJ
		CTU011-SB11-02	2/1/2023	N	2.5 - 3.5	13	UJ	3.9	UJ	6.3	UJ	0.79	UJ	0.79	UJ	0.20	UJ	3.9	UJ	8.9	UJ	3.1	UJ
		CTU011-SB11-02-FD	2/1/2023	FD	2.5 - 3.5	13	UJ	4.1	UJ	6.6	UJ	0.83	UJ	0.83	UJ	0.21	UJ	4.1	UJ	9.3	UJ	3.3	UJ
	CTU011-SB12	CTU011-SB12-01	2/1/2023	N	1.5 - 2.5	10	UJ	3.3	UJ	5.2	UJ	0.66	UJ	0.66	UJ	0.16	UJ	3.3	UJ	7.4	UJ	2.6	UJ
		CTU011-SB12-02	2/1/2023	N	4.5 - 5.5	10	UJ	3.3	UJ	5.2	UJ	0.65	UJ	0.65	UJ	0.16	UJ	3.3	UJ	7.3	UJ	2.6	UJ

Notes:
CAS-RN – Chemical Abstract Service Registry Number
FD - Field Duplicate
ft bgs - Feet below ground surface
J - Estimated concentration
J+ - Reported value may not be accurate or precise, but the result may be biased high.
J- - Reported value may not be accurate or precise, but the result may be biased low.
µg/kg - micrograms per kilogram
N - Primary field sample
NL - Not listed
Qu - Data qualifier
R - Data is rejected
U - Undetected at the Limit of Detection
UJ - Not detected at the Limit of Detection, results is an estimation
WDNR – Wisconsin Department of Natural Resources
1 WDNR Chapter NR 720, Soil Residual Contaminant Level (RCL) Worksheet, Soil-to-Groundwater Pathway (Dilution Factor = 2), December 2018
2 WDNR Chapter NR720, Soil Residual Contaminant Level (RCL) Worksheet, Direct Contact Non-Industrial Land Usage, December 2018
Bold indicates analyte was detected
Highlight indicates that detected result exceeds Non-Industrial RCL and Industrial RCL.
Highlight indicates that detected result exceeds Soil-Groundwater RCL.

Table 8
Soil Sample Analytical Results for Lead and PAHs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Lead		1-Methylnaphthalene		2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene	
CAS-RN:						7439-92-1		90-12-0		91-57-6		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2	
WDNR Soil-Groundwater RCL[1]						27,000		NL		NL		NL		NL		196,949		NL		470		478		NL	
WDNR Direct Contact, Non-Industrial[2]						400,000		17,600		239,000		3,590,000		NL		17,900		1,140		115		1,150		NL	
WDNR Direct Contact, Industrial[2]						800,000		72,700		3,010,000		45,200,000		NL		100,000,000		20,800		2,110		21,100		NL	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU006 (UST 212)	CTU006-SB01/TW01	CTU006-SB01-01	2/2/2023	N	0.5 - 1.5	-		2.2	U	2.2	U	1.2	U	1.2	U	4.9	U	4.9	U	4.9	U	7.5	U	7.5	U
		CTU006-SB01-02	2/2/2023	N	1.5 - 2.5	-		**1.8**	**J**	**1.7**	**J**	2.8	U	2.8	U	11	U	11	U	11	U	17	U	17	U
	CTU006-SB02	CTU006-SB02-01	2/2/2023	N	1 - 2	-		**37**		**81**		**13**	**J**	**13**	**J**	11	U	**6.2**	**J**	**7.9**	**J**	**16**	**J**	**8.3**	**J**
		CTU006-SB02-02	2/2/2023	N	2 - 3	-		4.8	U	4.8	U	**5.4**	**J**	2.5	U	10	U	10	U	10	U	16	U	16	U
	CTU006-SB03	CTU006-SB03-01	2/2/2023	N	1 - 2	-		**1.6**	**J**	**2.2**	**J**	**1.5**	**J**	**3.4**	**J**	**5.0**	**J**	**40**		**52**		**75**		**40**	
		CTU006-SB03-02	2/2/2023	N	2 - 3	-		**3.0**	**J**	**3.7**	**J**	**3.9**	**J**	**13**	**J**	**16**	**J**	**82**		**97**		**140**		**79**	
	CTU006-SB04/TW02	CTU006-SB04-01	2/2/2023	N	1 - 2	-		**2.2**	**J**	**2.7**	**J**	**20**	**J**	**3.9**	**J**	**44**		**190**		**240**		**310**		**170**	
		CTU006-SB04-02	2/2/2023	N	2 - 3	-		4.8	U	**2.2**	**J**	**1.1**	**J**	**2.1**	**J**	**3.6**	**J**	**32**		**43**		**66**		**34**	
	CTU006-SB05	CTU006-SB05-01	2/2/2023	N	1 - 2	-		4.8	U	4.8	U	2.6	U	**3.5**	**J**	**5.1**	**J**	**35**		**45**		**64**		**35**	
		CTU006-SB05-02	2/2/2023	N	2 - 3	-		**3.3**	**J**	**4.2**	**J**	**35**	**J**	**5.6**	**J**	**79**	**J**	**310**	**J**	**350**		**440**		**230**	**J**
		CTU006-SB05-02-FD	2/2/2023	FD	2 - 3	-		**9.1**	**J**	**11**	**J**	**120**	**J**	**6.0**	**J**	**230**	**J**	**760**	**J**	**420**		**500**		**510**	**J**
	CTU006-SB06	CTU006-SB06-01	2/2/2023	N	0.5 - 1	-		4.8	U	4.8	U	2.6	U	2.6	U	10	U	**5.0**	**J**	**9.6**	**J**	**11**	**J**	**8.9**	**J**
		CTU006-SB06-02	2/2/2023	N	1 - 1.5	-		4.6	U	4.6	U	2.5	U	**0.90**	**J**	10	U	**17**	**J**	**22**	**J**	**30**		**19**	**J**
Site CTU007 (UST 215)	CTU007-SB01/TW01	CTU007-SB01-01	2/6/2023	N	0.5 - 1.5	-		**2.1**	**J**	**4.0**	**J**	**10**	**J**	**2.8**	**J**	**58**		**160**		**140**		**180**		**81**	
		CTU007-SB01-02	2/6/2023	N	1.5 - 2.5	-		**7.3**	**J**	**11**	**J**	**570**		**21**		**810**		**3,000**		**2,300**		**3,100**		**1,100**	
	CTU007-SB02	CTU007-SB02-01	2/6/2023	N	0.5 - 1.5	-		4.5	U	4.5	U	2.4	U	2.4	U	9.7	U	**28**		**43**		**63**		**40**	
		CTU007-SB02-02	2/6/2023	N	1.5 - 2.5	-		**19**	**J**	**20**	**J**	**160**		**15**	**J**	**670**		**1,800**		**1,500**		**2,000**		**700**	
	CTU007-SB03/TW02	CTU007-SB03-01	2/6/2023	N	0.5 - 1.5	-		**1.5**	**J**	**2.1**	**J**	**2.7**	**J**	**2.5**	**J**	**13**	**J**	**110**		**150**		**190**		**110**	
		CTU007-SB03-02	2/6/2023	N	1.5 - 2.5	-		4.2	U	4.2	U	**2.5**	**J**	**0.96**	**J**	**8.0**	**J**	**47**		**61**		**74**		**51**	
	CTU007-SB04	CTU007-SB04-01	2/6/2023	N	0.5 - 1.5	-		**1.6**	**J**	**2.5**	**J**	**24**	**J**	**6.7**	**J**	**88**	**J-**	**370**	**J-**	**390**	**J-**	**540**		**260**	**J-**
		CTU007-SB04-02	2/6/2023	N	1.5 - 2.5	-		4.8	U	4.8	U	**1.7**	**J**	**0.82**	**J**	10	UJ	**16**	**J**	**18**	**J**	**28**	**J**	**17**	**J**
		CTU007-SB04-02-FD	2/6/2023	FD	1.5 - 2.5	-		**10**	**J**	**8.7**	**J**	**210**	**J**	**9.0**	**J**	**750**	**J**	**2,200**	**J**	**1,300**	**J**	**1,900**	**J**	**440**	**J**
	CTU007-SB05	CTU007-SB05-01	2/6/2023	N	0.5 - 1.5	-		**1.6**	**J**	**2.7**	**J**	**6.5**	**J**	**4.8**	**J**	**25**		**140**		**160**		**210**		**110**	
		CTU007-SB05-02	2/6/2023	N	1.5 - 2.5	-		**1.9**	**J**	**3.0**	**J**	**11**	**J**	**5.2**	**J**	**89**		**330**		**310**		**420**		**190**	
	CTU007-SB06/TW03	CTU007-SB06-01	2/6/2023	N	0.5 - 1.5	-		4.6	U	**1.4**	**J**	**1.4**	**J**	**1.2**	**J**	**5.0**	**J**	**30**		**36**		**51**		**26**	
		CTU007-SB06-02	2/6/2023	N	1.5 - 2.5	-		4.5	U	**1.4**	**J**	**8.8**	**J**	**1.1**	**J**	**27**		**110**		**120**		**150**		**80**	
	CTU007-SB07	CTU007-SB07-01	2/6/2023	N	0.5 - 1.5	-		4.4	U	**1.5**	**J**	2.3	U	2.3	U	9.5	U	**22**		**36**		**40**		**38**	
		CTU007-SB07-02	2/6/2023	N	1.5 - 2.5	-		4.5	U	4.5	U	2.4	U	2.4	U	9.8	U	**9.5**	**J**	**13**	**J**	**21**	**J**	**14**	**J**

Table 8
Soil Sample Analytical Results for Lead and PAHs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Phenanthrene		Pyrene	
CAS-RN:						207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		91-20-3		85-01-8		129-00-0	
WDNR Soil-Groundwater RCL[1]						NL		144		NL		88,877		14,829		NL		658		NL		54,545	
WDNR Direct Contact, Non-Industrial[2]						11,500		115,000		115		2,390,000		2,390,000		1,150		5,520		NL		1,790,000	
WDNR Direct Contact, Industrial[2]						211,000		2,110,000		2,110		30,100,000		30,100,000		21,100		24,100		NL		22,600,000	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU006 (UST 212)	CTU006-SB01/TW01	CTU006-SB01-01	2/2/2023	N	0.5 - 1.5	4.9	U	4.9	U	7.5	U	4.9	U	3.0	U	7.5	U	**0.87**	**J**	7.5	U	7.5	U
		CTU006-SB01-02	2/2/2023	N	1.5 - 2.5	11	U	11	U	17	U	11	U	6.9	U	17	U	**3.3**	**J**	17	U	17	U
	CTU006-SB02	CTU006-SB02-01	2/2/2023	N	1 - 2	11	U	**13**	**J**	16	U	**19**	**J**	**26**		**7.4**	**J**	**110**		**20**	**J**	**18**	**J**
		CTU006-SB02-02	2/2/2023	N	2 - 3	10	U	10	U	16	U	10	U	**3.7**	**J**	16	U	**2.7**	**J**	**12**	**J**	16	U
	CTU006-SB03	CTU006-SB03-01	2/2/2023	N	1 - 2	**28**		**61**		**8.2**	**J**	**95**		6.3	U	**41**		**2.8**	**J**	**29**		**76**	
		CTU006-SB03-02	2/2/2023	N	2 - 3	**53**		**110**		**19**	**J**	**170**		**4.4**	**J**	**83**		**5.9**	**J**	**67**		**140**	
	CTU006-SB04/TW02	CTU006-SB04-01	2/2/2023	N	1 - 2	**110**		**240**		**31**		**490**		**15**	**J**	**180**		**4.3**	**J**	**230**		**410**	
		CTU006-SB04-02	2/2/2023	N	2 - 3	**21**	**J**	**51**		**6.4**	**J**	**79**		6.4	U	**35**		**2.7**	**J**	**26**		**64**	
	CTU006-SB05	CTU006-SB05-01	2/2/2023	N	1 - 2	**23**	**J**	**50**		**7.1**	**J**	**63**		6.5	U	**35**		**3.1**	**J**	**16**	**J**	**54**	
		CTU006-SB05-02	2/2/2023	N	2 - 3	**160**	**J**	**370**	**J**	**46**	**J**	**830**	**J**	**27**	**J**	**250**	**J**	**5.6**	**J**	**410**	**J**	**680**	**J**
		CTU006-SB05-02-FD	2/2/2023	FD	2 - 3	**380**	**J**	**460**	**J**	**110**	**J**	**1,100**	**J**	**97**	**J**	**570**	**J**	**35**	**J**	**670**	**J**	**950**	**J**
	CTU006-SB06	CTU006-SB06-01	2/2/2023	N	0.5 - 1	10	U	**8.8**	**J**	16	U	**12**	**J**	6.4	U	**9.3**	**J**	4.8	U	16	U	**11**	**J**
		CTU006-SB06-02	2/2/2023	N	1 - 1.5	**11**	**J**	**24**		15	U	**37**		6.2	U	**18**	**J**	4.6	U	**8.8**	**J**	**32**	
Site CTU007 (UST 215)	CTU007-SB01/TW01	CTU007-SB01-01	2/6/2023	N	0.5 - 1.5	**71**		**200**		**17**	**J**	**500**		**6.9**	**J**	**80**		**14**	**J**	**80**		**440**	
		CTU007-SB01-02	2/6/2023	N	1.5 - 2.5	**1,200**		**3,000**		**290**		**9,900**		**710**		**1,200**		**14**	**J**	**1,200**		**8,700**	
	CTU007-SB02	CTU007-SB02-01	2/6/2023	N	0.5 - 1.5	**21**	**J**	**41**		**6.3**	**J**	**57**		6.0	U	**38**		4.5	U	**11**	**J**	**56**	
		CTU007-SB02-02	2/6/2023	N	1.5 - 2.5	**720**		**1,800**		**190**		**4,500**		**210**		**840**		**9.8**	**J**	**2,200**		**3,700**	
	CTU007-SB03/TW02	CTU007-SB03-01	2/6/2023	N	0.5 - 1.5	**69**		**140**		**20**	**J**	**270**		**2.8**	**J**	**120**		**1.8**	**J**	**60**		**240**	
		CTU007-SB03-02	2/6/2023	N	1.5 - 2.5	**28**		**61**		**7.9**	**J**	**130**		**2.2**	**J**	**47**		4.2	U	**40**		**110**	
	CTU007-SB04	CTU007-SB04-01	2/6/2023	N	0.5 - 1.5	**190**	**J-**	**400**	**J-**	**56**	**J-**	**860**		**20**	**J**	**270**	**J-**	**2.7**	**J**	**320**	**J-**	**750**	
		CTU007-SB04-02	2/6/2023	N	1.5 - 2.5	**9.4**	**J**	**20**	**J**	16	UJ	**38**	**J**	6.4	UJ	**15**	**J**	4.8	U	**11**	**J**	**35**	**J**
		CTU007-SB04-02-FD	2/6/2023	FD	1.5 - 2.5	**690**	**J**	**2,300**	**J**	**270**	**J**	**6,400**	**J**	**220**	**J**	**550**	**J**	**11**	**J**	**3,000**	**J**	**5,200**	**J**
	CTU007-SB05	CTU007-SB05-01	2/6/2023	N	0.5 - 1.5	**75**		**170**		**23**		**360**		**6.5**	**J**	**120**		**3.0**	**J**	**120**		**310**	
		CTU007-SB05-02	2/6/2023	N	1.5 - 2.5	**150**		**310**		**41**		**940**	**J**	**12**	**J**	**190**		**3.3**	**J**	**250**		**790**	**J**
	CTU007-SB06/TW03	CTU007-SB06-01	2/6/2023	N	0.5 - 1.5	**17**	**J**	**39**		15	U	**78**		6.1	U	**27**		**1.9**	**J**	**27**		**66**	
		CTU007-SB06-02	2/6/2023	N	1.5 - 2.5	**51**		**130**		**15**	**J**	**300**		**7.4**	**J**	**82**		**1.5**	**J**	**150**		**250**	
	CTU007-SB07	CTU007-SB07-01	2/6/2023	N	0.5 - 1.5	**16**	**J**	**41**		**6.2**	**J**	**51**		5.8	U	**26**		4.4	U	**16**	**J**	**47**	
		CTU007-SB07-02	2/6/2023	N	1.5 - 2.5	**6.6**	**J**	**20**	**J**	15	U	**27**		6.0	U	**12**	**J**	4.5	U	**9.0**	**J**	**24**	

Table 8
Soil Sample Analytical Results for Lead and PAHs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Lead		1-Methylnaphthalene		2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene	
CAS-RN:						7439-92-1		90-12-0		91-57-6		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2	
WDNR Soil-Groundwater RCL[1]						27,000		NL		NL		NL		NL		196,949		NL		470		478		NL	
WDNR Direct Contact, Non-Industrial[2]						400,000		17,600		239,000		3,590,000		NL		17,900		1,140		115		1,150		NL	
WDNR Direct Contact, Industrial[2]						800,000		72,700		3,010,000		45,200,000		NL		100,000,000		20,800		2,110		21,100		NL	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU008 (UST 219)	CTU008-SB01/TW01	CTU008-SB01-01	1/30/2023	N	1.5 - 2.5	-		4.9	U	4.9	U	2.6	U	2.6	U	11	U	11	U	11	U	16	U	16	U
		CTU008-SB01-02	1/30/2023	N	6.5 - 7.5	-		5.1	U	5.1	U	2.7	U	2.7	U	11	U	11	U	11	U	17	U	17	U
	CTU008-SB02/TW02	CTU008-SB02-01	1/30/2023	N	1 - 2	-		**6.6**	**J**	**8.7**	**J**	**9.1**	**J**	**6.8**	**J**	**31**	**J**	**130**	**J**	**160**	**J**	**210**	**J**	**100**	**J**
		CTU008-SB02-01-FD	1/30/2023	FD	1 - 2	-		4.3	U	4.3	U	2.3	U	**2.0**	**J**	**8.5**	**J**	**62**	**J-**	**83**	**J**	**110**	**J**	**60**	**J**
		CTU008-SB02-02	1/30/2023	N	6 - 7	-		2.1	U	**2.0**	**J**	1.1	U	1.1	U	4.5	U	4.5	U	4.5	U	6.9	U	6.9	U
	CTU008-SB03	CTU008-SB03-01	1/30/2023	N	1 - 2	-		**2.7**	**J**	**3.7**	**J**	**8.6**	**J**	**5.7**	**J**	**26**		**190**		**250**		**330**		**170**	
		CTU008-SB03-02	1/30/2023	N	7 - 8	-		5.0	U	5.0	U	2.7	U	2.7	U	11	U	11	U	11	U	17	U	**7.0**	**J**
	CTU008-SB04	CTU008-SB04-01	1/30/2023	N	1.5 - 2.5	-		4.9	U	**3.6**	**J**	2.6	U	**2.3**	**J**	11	U	**32**		**44**		**76**		**36**	
		CTU008-SB04-02	1/30/2023	N	6.5 - 7.5	-		**3.0**	**J**	**4.4**	**J**	2.4	U	2.4	U	9.9	U	9.9	U	9.9	U	15	U	15	U
	CTU008-SB05	CTU008-SB05-01	1/30/2023	N	2 - 3	-		**5,100**	**J+**	**12,000**	**J+**	**32**	**J+**	2.6	U	**9.9**	**J+**	**6.1**	**J+**	**3.6**	**J+**	16	U	**9.1**	**J+**
		CTU008-SB05-02	1/30/2023	N	6 - 7	-		**4,400**	**J+**	**9,900**	**J+**	**31**	**J+**	2.5	U	**15**	**J+**	10	U	10	U	16	U	**9.0**	**J+**
	CTU008-SB06/TW03	CTU008-SB06-01	1/30/2023	N	1 - 2	-		4.8	U	4.8	U	2.5	U	2.5	U	10	U	10	U	**4.7**	**J**	**9.1**	**J**	**5.4**	**J**
		CTU008-SB06-01-FD	1/30/2023	FD	1 - 2	-		4.5	U	4.5	U	2.4	U	2.4	U	9.8	U	9.8	U	9.8	U	**5.5**	**J**	**6.2**	**J**
		CTU008-SB06-02	1/30/2023	N	6 - 7	-		4.7	U	4.7	U	2.5	U	2.5	U	10	U	10	U	10	U	16	U	16	U
	CTU008-SB07	CTU008-SB07-01	1/30/2023	N	1 - 2	-		4.7	U	4.7	U	2.5	U	2.5	U	10	U	10	U	10	U	16	U	16	U
		CTU008-SB07-02	1/30/2023	N	6.5 - 7.5	-		4.9	U	**2.7**	**J**	2.6	U	2.6	U	11	U	11	U	11	U	16	U	16	U
	CTU008-SB08	CTU008-SB08-01	1/30/2023	N	1.5 - 2.5	-		**1.4**	**J**	**1.8**	**J**	**4.5**	**J**	**2.1**	**J**	**12**		**83**		**120**		**160**		**80**	
		CTU008-SB08-02	1/30/2023	N	6.5 - 7.5	-		4.4	U	4.4	U	2.4	U	**1.8**	**J**	9.6	U	**38**		**53**		**73**		**41**	

Table 8
Soil Sample Analytical Results for Lead and PAHs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Phenanthrene		Pyrene	
CAS-RN:						207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		91-20-3		85-01-8		129-00-0	
WDNR Soil-Groundwater RCL[1]						NL		144		NL		88,877		14,829		NL		658		NL		54,545	
WDNR Direct Contact, Non-Industrial[2]						11,500		115,000		115		2,390,000		2,390,000		1,150		5,520		NL		1,790,000	
WDNR Direct Contact, Industrial[2]						211,000		2,110,000		2,110		30,100,000		30,100,000		21,100		24,100		NL		22,600,000	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU008 (UST 219)	CTU008-SB01/TW01	CTU008-SB01-01	1/30/2023	N	1 - 2.5	11	U	11	U	16	U	11	U	6.5	U	16	U	4.9	U	16	U	16	U
		CTU008-SB01-02	1/30/2023	N	6.5 - 7.5	11	U	11	U	17	U	11	U	6.7	U	17	U	5.1	U	17	U	17	U
	CTU008-SB02/TW02	CTU008-SB02-01	1/30/2023	N	1 - 2	**77**	**J**	**150**	**J**	**26**		**280**	**J**	**9.4**	**J**	**110**	**J**	**5.7**	**J**	**140**	**J**	**240**	**J**
		CTU008-SB02-01-FD	1/30/2023	FD	1 - 2	**43**	**J**	**76**	**J**	**14**	**J**	**120**	**J**	5.8	U	**67**	**J**	**2.4**	**J**	**35**	**J**	**110**	**J**
		CTU008-SB02-02	1/30/2023	N	6 - 7	4.5	U	4.5	U	6.9	U	4.5	U	2.7	U	6.9	U	**3.6**	**J**	6.9	U	6.9	U
	CTU008-SB03	CTU008-SB03-01	1/30/2023	N	1 - 2	**110**		**220**		**41**		**450**		**8.0**	**J**	**180**		**6.2**	**J**	**150**		**400**	
		CTU008-SB03-02	1/30/2023	N	7 - 8	11	U	11	U	17	U	11	U	6.7	U	17	U	**2.3**	**J**	17	U	17	U
	CTU008-SB04	CTU008-SB04-01	1/30/2023	N	1.5 - 2.5	**25**		**51**		**10**	**J**	**75**		6.5	U	**42**		**3.3**	**J**	**27**		**62**	
		CTU008-SB04-02	1/30/2023	N	6.5 - 7.5	9.9	U	9.9	U	15	U	9.9	U	6.1	U	15	U	**11**	**J**	15	U	15	U
	CTU008-SB05	CTU008-SB05-01	1/30/2023	N	2 - 3	11	U	**9.4**	**J+**	16	U	**14**	**J+**	**34**	**J+**	16	U	**9,000**	**J+**	**64**	**J+**	**21**	**J+**
		CTU008-SB05-02	1/30/2023	N	6 - 7	10	U	**8.9**	**J+**	16	U	**11**	**J+**	**33**	**J+**	16	U	**8,400**	**J+**	**52**	**J+**	**18**	**J+**
	CTU008-SB06/TW03	CTU008-SB06-01	1/30/2023	N	1 - 2	10	U	10	U	16	U	**8.0**	**J**	6.3	U	**5.5**	**J**	4.8	U	16	U	**6.6**	**J**
		CTU008-SB06-01-FD	1/30/2023	FD	1 - 2	9.8	U	**7.1**	**J**	15	U	9.8	U	6.1	U	15	U	4.5	U	15	U	15	U
		CTU008-SB06-02	1/30/2023	N	6 - 7	10	U	10	U	16	U	10	U	6.3	U	16	U	4.7	U	16	U	16	U
	CTU008-SB07	CTU008-SB07-01	1/30/2023	N	1 - 2	10	U	10	U	16	U	10	U	6.2	U	16	U	4.7	U	16	U	16	U
		CTU008-SB07-02	1/30/2023	N	6.5 - 7.5	11	U	11	U	16	U	**7.2**	**J**	6.6	U	16	U	**7.1**	**J**	16	U	**5.8**	**J**
	CTU008-SB08	CTU008-SB08-01	1/30/2023	N	1.5 - 2.5	**52**		**99**		**20**		**190**		**3.9**	**J**	**87**		**2.6**	**J**	**71**		**150**	
		CTU008-SB08-02	1/30/2023	N	6.5 - 7.5	**28**		**51**		**8.9**	**J**	**76**		5.9	U	**45**		**1.9**	**J**	**25**		**66**	

Table 8
Soil Sample Analytical Results for Lead and PAHs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Lead		1-Methylnaphthalene		2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene	
CAS-RN:						7439-92-1		90-12-0		91-57-6		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2	
WDNR Soil-Groundwater RCL[1]						27,000		NL		NL		NL		NL		196,949		NL		470		478		NL	
WDNR Direct Contact, Non-Industrial[2]						400,000		17,600		239,000		3,590,000		NL		17,900		1,140		115		1,150		NL	
WDNR Direct Contact, Industrial[2]						800,000		72,700		3,010,000		45,200,000		NL		100,000,000		20,800		2,110		21,100		NL	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB01/TW01	CTU011-SB01-01	2/1/2023	N	1.5 - 2.5	**10,000**		6.9	U	6.9	U	**14**	**J**	3.7	U	**14**	**J**	**18**	**J**	**16**	**J**	**23**	**J**	**15**	**J**
		CTU011-SB01-02	2/1/2023	N	5 - 5.5	**11,000**		**26**	**J**	**32**	**J**	3.8	U	3.8	U	15	U	**9.2**	**J**	**11**	**J**	**18**	**J**	**15**	**J**
	CTU011-SB02/TW02	CTU011-SB02-01	2/1/2023	N	1.2 - 2.3	**10,000**		7.1	U	7.1	U	3.8	U	3.8	U	15	U	15	U	15	U	24	U	24	U
		CTU011-SB02-02	2/1/2023	N	4.5 - 5.5	**11,000**		140	U	140	U	74	U	74	U	300	U	300	U	300	U	460	U	460	U
	CTU011-SB03	CTU011-SB03-01	2/1/2023	N	1 - 2	**15,000**		140	U	140	U	73	U	73	U	300	U	300	U	300	U	460	U	460	U
		CTU011-SB03-02	2/1/2023	N	2 - 3	**2,000**		43	U	43	U	23	U	23	U	92	U	92	U	92	U	140	U	140	U
	CTU011-SB04	CTU011-SB04-01	2/1/2023	N	1 - 2	**14,000**		130	U	130	U	68	U	**36**	**J**	280	U	**340**	**J**	**370**	**J**	**530**	**J**	**290**	**J**
		CTU011-SB04-02	2/1/2023	N	2 - 3	**2,000**		42	U	42	U	22	U	22	U	90	U	90	U	90	U	140	U	140	U
	CTU011-SB05	CTU011-SB05-01	2/1/2023	N	1.5 - 2.5	**10,000**		140	U	140	U	73	U	73	U	300	U	300	U	300	U	460	U	460	U
		CTU011-SB05-02	2/1/2023	N	5 - 6	**9,500**		130	U	130	U	69	U	69	U	280	U	280	U	280	U	430	U	430	U
	CTU011-SB06/TW03	CTU011-SB06-01	2/1/2023	N	1 - 2	**12,000**		140	U	140	U	74	U	74	U	300	U	300	U	300	U	460	U	460	U
		CTU011-SB06-02	2/1/2023	N	3.5 - 4.5	**14,000**		130	U	130	U	70	U	70	U	290	U	290	U	290	U	440	U	440	U
	CTU011-SB07/TW04	CTU011-SB07-01	2/1/2023	N	1 - 2	**16,000**		140	U	140	U	75	U	75	U	310	U	310	U	310	U	470	U	470	U
		CTU011-SB07-02	2/1/2023	N	4 - 5	**10,000**		140	U	140	U	73	U	73	U	300	U	300	U	300	U	460	U	460	U
	CTU011-SB08	CTU011-SB08-01	2/1/2023	N	1 - 2	**11,000**		140	U	140	U	73	U	73	U	300	U	300	U	300	U	460	U	460	U
		CTU011-SB08-02	2/1/2023	N	3 - 4	**11,000**		140	U	140	U	75	U	75	U	300	U	300	U	300	U	470	U	470	U
	CTU011-SB09	CTU011-SB09-01	2/1/2023	N	1 - 2	**19,000**		130	U	130	U	71	U	71	U	290	U	290	U	290	U	440	U	440	U
		CTU011-SB09-01-FD	2/1/2023	FD	1 - 2	**14,000**		130	U	130	U	67	U	67	U	270	U	270	U	270	U	420	U	420	U
		CTU011-SB09-02	2/1/2023	N	3.5 - 4.5	**10,000**		130	U	130	U	68	U	68	U	270	U	270	U	270	U	420	U	420	U
	CTU011-SB10/TW05	CTU011-SB10-01	2/1/2023	N	1 - 2	**11,000**		130	U	130	U	71	U	71	U	290	U	290	U	290	U	440	U	440	U
		CTU011-SB10-02	2/1/2023	N	4 - 5	**9,100**		5.0	U	5.0	U	2.7	U	2.7	U	11	U	11	U	11	U	17	U	**6.7**	**J**
	CTU011-SB11	CTU011-SB11-01	2/1/2023	N	1 - 2	**12,000**		**2.9**	**J**	**3.2**	**J**	**17**	**J**	**5.1**	**J**	**54**		**130**		**100**		**130**		**58**	
		CTU011-SB11-02	2/1/2023	N	2.5 - 3.5	**11,000**		4.8	U	4.8	U	2.6	U	2.6	U	10	U	10	U	10	U	16	U	16	U
		CTU011-SB11-02-FD	2/1/2023	FD	2.5 - 3.5	**10,000**		4.9	U	4.9	U	2.6	U	**7.7**	**J**	**4.5**	**J**	**30**		**30**		**39**		**24**	**J**
	CTU011-SB12	CTU011-SB12-01	2/1/2023	N	1.5 - 2.5	**9,400**		4.6	U	4.6	U	**1.1**	**J**	2.4	U	9.9	U	9.9	U	**5.2**	**J**	**7.1**	**J**	**7.2**	**J**
		CTU011-SB12-02	2/1/2023	N	4.5 - 5.5	**12,000**		**520**	**J-**	**8.1**	**J**	**6.8**	**J**	**4.9**	**J**	10	U	10	U	10	U	15	U	15	U

Table 8
Soil Sample Analytical Results for Lead and PAHs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

						Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Phenanthrene		Pyrene	
					Analyte:																		
					CAS-RN:	207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		91-20-3		85-01-8		129-00-0	
					WDNR Soil-Groundwater RCL[1]	NL		144		NL		88,877		14,829		NL		658		NL		54,545	
					WDNR Direct Contact, Non-Industrial[2]	11,500		115,000		115		2,390,000		2,390,000		1,150		5,520		NL		1,790,000	
					WDNR Direct Contact, Industrial[2]	211,000		2,110,000		2,110		30,100,000		30,100,000		21,100		24,100		NL		22,600,000	
					Units:	µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB01/TW01	CTU011-SB01-01	2/1/2023	N	1.5 - 2.5	**10**	**J**	**23**	**J**	23	U	**64**	**J**	**20**	**J**	**13**	**J**	6.9	U	**32**	**J**	**48**	
		CTU011-SB01-02	2/1/2023	N	5 - 5.5	15	U	**19**	**J**	24	U	**25**	**J**	9.5	U	**9.6**	**J**	**230**		**13**	**J**	**20**	**J**
	CTU011-SB02/TW02	CTU011-SB02-01	2/1/2023	N	1.2 - 2.3	15	U	15	U	24	U	15	U	9.4	U	24	U	7.1	U	24	U	24	U
		CTU011-SB02-02	2/1/2023	N	4.5 - 5.5	300	U	300	U	460	U	300	U	180	U	460	U	**100**	**J**	460	U	460	U
	CTU011-SB03	CTU011-SB03-01	2/1/2023	N	1 - 2	300	U	300	U	460	U	**140**	**J**	180	U	460	U	140	U	460	U	460	U
		CTU011-SB03-02	2/1/2023	N	2 - 3	92	U	92	U	140	U	92	U	57	U	140	U	43	U	140	U	140	U
	CTU011-SB04	CTU011-SB04-01	2/1/2023	N	1 - 2	**170**	**J**	**360**	**J**	430	U	**620**	**J**	170	U	**300**	**J**	130	U	**150**	**J**	**540**	**J**
		CTU011-SB04-02	2/1/2023	N	2 - 3	90	U	90	U	140	U	90	U	56	U	140	U	42	U	140	U	140	U
	CTU011-SB05	CTU011-SB05-01	2/1/2023	N	1.5 - 2.5	300	U	300	U	460	U	300	U	180	U	460	U	140	U	460	U	460	U
		CTU011-SB05-02	2/1/2023	N	5 - 6	280	U	280	U	430	U	280	U	170	U	430	U	130	U	430	U	430	U
	CTU011-SB06/TW03	CTU011-SB06-01	2/1/2023	N	1 - 2	300	U	300	U	460	U	300	U	180	U	460	U	140	U	460	U	460	U
		CTU011-SB06-02	2/1/2023	N	3.5 - 4.5	290	U	290	U	440	U	290	U	180	U	440	U	130	U	440	U	440	U
	CTU011-SB07/TW04	CTU011-SB07-01	2/1/2023	N	1 - 2	310	U	310	U	470	U	310	U	190	U	470	U	140	U	470	U	470	U
		CTU011-SB07-02	2/1/2023	N	4 - 5	300	U	300	U	460	U	300	U	180	U	460	U	140	U	460	U	460	U
	CTU011-SB08	CTU011-SB08-01	2/1/2023	N	1 - 2	300	U	300	U	460	U	300	U	180	U	460	U	140	U	460	U	460	U
		CTU011-SB08-02	2/1/2023	N	3 - 4	300	U	300	U	470	U	**200**	**J**	190	U	470	U	140	U	470	U	**170**	**J**
	CTU011-SB09	CTU011-SB09-01	2/1/2023	N	1 - 2	290	U	290	U	440	U	290	U	180	U	440	U	130	U	440	U	440	U
		CTU011-SB09-01-FD	2/1/2023	FD	1 - 2	270	U	270	U	420	U	270	U	170	U	420	U	130	U	420	U	420	U
		CTU011-SB09-02	2/1/2023	N	3.5 - 4.5	270	U	270	U	420	U	270	U	170	U	420	U	130	U	420	U	420	U
	CTU011-SB10/TW05	CTU011-SB10-01	2/1/2023	N	1 - 2	290	U	290	U	440	U	290	U	180	U	440	U	130	U	440	U	440	U
		CTU011-SB10-02	2/1/2023	N	4 - 5	11	U	11	U	17	U	11	U	6.7	U	17	U	5.0	U	**11**	**J**	17	U
	CTU011-SB11	CTU011-SB11-01	2/1/2023	N	1 - 2	**52**		**130**		**16**	**J**	**250**		**23**		**63**		**2.9**	**J**	**200**		**200**	
		CTU011-SB11-02	2/1/2023	N	2.5 - 3.5	10	U	10	U	16	U	10	UJ	6.5	U	16	U	4.8	U	16	U	16	U
		CTU011-SB11-02-FD	2/1/2023	FD	2.5 - 3.5	**15**	**J**	**35**		16	U	**53**	**J**	6.5	U	**21**	**J**	4.9	U	**13**	**J**	**44**	
	CTU011-SB12	CTU011-SB12-01	2/1/2023	N	1.5 - 2.5	9.9	U	**6.7**	**J**	15	U	**6.7**	**J**	6.1	U	15	U	**1.5**	**J**	15	U	**5.8**	**J**
		CTU011-SB12-02	2/1/2023	N	4.5 - 5.5	10	U	10	U	15	U	10	U	**9.3**	**J**	15	U	**110**	**J-**	**7.6**	**J**	15	U

Table 8
Soil Sample Analytical Results for Lead and PAHs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Lead		1-Methylnaphthalene		2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene	
CAS-RN:						7439-92-1		90-12-0		91-57-6		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2	
WDNR Soil-Groundwater RCL[1]						27,000		NL		NL		NL		NL		196,949		NL		470		478		NL	
WDNR Direct Contact, Non-Industrial[2]						400,000		17,600		239,000		3,590,000		NL		17,900		1,140		115		1,150		NL	
WDNR Direct Contact, Industrial[2]						800,000		72,700		3,010,000		45,200,000		NL		100,000,000		20,800		2,110		21,100		NL	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site ST10	ST10-SB01	ST10-SB01-01	2/1/2023	N	0 - 0	-		**53**		**140**		3.7	U	**1.3**	**J**	15	U	15	U	15	U	23	U	23	U
		ST10-SB01-02	2/1/2023	N	0 - 0	-		**160**	**J**	**280**		**18**	**J**	**13**	**J**	75	U	75	U	75	U	110	U	110	U
	ST10-SB02	ST10-SB02-01	2/1/2023	N	0 - 0	-		6.9	U	**2.2**	**J**	3.7	U	3.7	U	15	U	15	U	15	U	23	U	23	U
		ST10-SB02-02	2/1/2023	N	0 - 0	-		6.9	U	6.9	U	3.7	U	3.7	U	15	U	15	U	15	U	23	U	23	U

Table 8
Soil Sample Analytical Results for Lead and PAHs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Phenanthrene		Pyrene	
CAS-RN:						207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		91-20-3		85-01-8		129-00-0	
WDNR Soil-Groundwater RCL[1]						NL		144		NL		88,877		14,829		NL		658		NL		54,545	
WDNR Direct Contact, Non-Industrial[2]						11,500		115,000		115		2,390,000		2,390,000		1,150		5,520		NL		1,790,000	
WDNR Direct Contact, Industrial[2]						211,000		2,110,000		2,110		30,100,000		30,100,000		21,100		24,100		NL		22,600,000	
Units:						µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg		µg/kg	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site ST10	ST10-SB01	ST10-SB01-01	2/1/2023	N	0 - 0	15	U	**7.1**	**J**	23	U	15	U	9.3	U	23	U	**56**		23	U	23	U
		ST10-SB01-02	2/1/2023	N	0 - 0	75	U	75	U	110	U	75	U	**21**	**J**	110	U	**130**	**J**	110	U	110	U
	ST10-SB02	ST10-SB02-01	2/1/2023	N	0 - 0	15	U	15	U	23	U	15	U	9.2	U	23	U	**6.9**	**J**	23	U	23	U
		ST10-SB02-02	2/1/2023	N	0 - 0	15	U	15	U	23	U	15	U	9.1	U	23	U	6.9	U	23	U	23	U

Notes:
CAS-RN – Chemical Abstract Service Registry Number
FD - Field Duplicate
ft bgs - Feet below ground surface
J - Estimated concentration
J+ - Reported value may not be accurate or precise, but the result may be biased high.
J- - Reported value may not be accurate or precise, but the result may be biased low.
µg/kg - micrograms per kilogram
N - Primary field sample
NL - Not listed
PAHs - Polycyclic aromatic hydrocarbons
Qu - Data qualifier
R - Data is rejected
U - Undetected at the Limit of Detection
UJ - Not detected at the Limit of Detection, results is an estimation
WDNR – Wisconsin Department of Natural Resources
1 WDNR Chapter NR 720, Soil Residual Contaminant Level Worksheet, Soil-to-Groundwater Pathway (Dilution Factor = 2), December 2018
2 WDNR Chapter NR720, Soil Residual Contaminant Level Worksheet, Direct Contact Non-Industrial Land Usage, December 2018
Bold indicates analyte was detected
Highlight indicates that detected result exceeds Non-Industrial RCL.
Highlight indicates that detected result exceeds Industrial RCL.
Highlight indicates that detected result exceeds Soil-Groundwater RCL.

Table 9
Groundwater Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

						1,1,1,2-Tetrachloroethane		1,1,1-Trichloroethane		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1-Dichloroethene		1,2,3-Trichloropropane		1,2,4-Trichlorobenzene		1,2,4-Trimethylbenzene		1,2-Dibromo-3-Chloropropane	
					Analyte:																				
					CAS-RN:	**630-20-6**		**71-55-6**		**79-34-5**		**79-00-5**		**75-34-3**		**75-35-4**		**96-18-4**		**120-82-1**		**95-63-6**		**96-12-8**	
					Enforcement Standard[1]	**70**		**200**		**0.2**		**5**		**850**		**7**		**60**		**70**		**480**		**0.2**	
					Preventive Action Limit[2]	**7**		**40**		**0.02**		**0.5**		**85**		**0.7**		**12**		**17**		**96**		**0.02**	
					Units:	**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**	
Sample Location	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Type**	**Screen Depth Interval (ft bgs)**	**Result**	**Q**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**
Site CTU006 (UST 212)	CTU006-SB01/TW01	CTU006-TW01	2/8/2023	N	4 - 14	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	4.0	U
	CTU006-SB04/TW02	CTU006-TW02	2/8/2023	N	4.5 - 9.5	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	4.0	U
Site CTU007 (UST 215)	CTU007-SB01/TW01	CTU007-TW01	2/8/2023	N	5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	4.0	U
	CTU007-SB03/TW02	CTU007-TW02	2/8/2023	N	2 - 12	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	4.0	U
	CTU007-SB06/TW03	CTU007-TW03	2/8/2023	N	5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	4.0	U
Site CTU008 (UST 219)	CTU008-SB01/TW01	CTU008-TW01	2/7/2023	N	5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	**0.64**	**J**	4.0	U
	CTU008-SB02/TW02	CTU008-TW02	2/7/2023	N	2 - 12	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	**5.4**		4.0	U
	CTU008-SB06/TW03	CTU008-TW03	2/20/2023	N	5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	4.0	U
	CTU008-SB06/TW03	CTU008-TW03-FD	2/20/2023	FD	5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	4.0	U
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB01/TW01	CTU011-TW01	2/7/2023	N	4.5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	4.0	U
	CTU011-SB01/TW01	CTU011-TW01-FD	2/7/2023	FD	4.5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	4.0	U
	CTU011-SB02/TW02	CTU011-TW02	2/7/2023	N	4.5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	4.0	U

Table 9
Groundwater Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						1,2-Dibromoethane (EDB)		1,2-Dichlorobenzene		1,2-Dichloroethane		1,2-Dichloropropane		1,3,5-Trimethylbenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		2-Butanone (MEK)		4-Methyl-2-pentanone (MIBK)	
CAS-RN:						106-93-4		95-50-1		107-06-2		78-87-5		108-67-8		541-73-1		106-46-7		78-93-3		108-10-1	
Enforcement Standard[1]						0.05		600		5		5		480		600		75		4,000		500	
Preventive Action Limit[2]						0.005		60		0.5		0.5		96		120		15		800		50	
Units:						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Location	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Type**	**Screen Depth Interval (ft bgs)**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Q**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**
Site CTU006 (UST 212)	CTU006-SB01/TW01	CTU006-TW01	2/8/2023	N	4 - 14	0.80	U	0.50	U	0.80	U	0.80	U	0.50	U	0.40	U	0.50	U	12	U	3.2	U
	CTU006-SB04/TW02	CTU006-TW02	2/8/2023	N	4.5 - 9.5	0.80	U	0.50	U	0.80	U	0.80	U	0.50	U	0.40	U	0.50	U	12	U	3.2	U
Site CTU007 (UST 215)	CTU007-SB01/TW01	CTU007-TW01	2/8/2023	N	5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.50	U	0.40	U	0.50	U	12	U	3.2	U
	CTU007-SB03/TW02	CTU007-TW02	2/8/2023	N	2 - 12	0.80	U	0.50	U	0.80	U	0.80	U	0.50	U	0.40	U	0.50	U	12	U	3.2	U
	CTU007-SB06/TW03	CTU007-TW03	2/8/2023	N	5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.50	U	0.40	U	0.50	U	12	U	3.2	U
Site CTU008 (UST 219)	CTU008-SB01/TW01	CTU008-TW01	2/7/2023	N	5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.50	U	0.40	U	0.50	U	12	U	3.2	U
	CTU008-SB02/TW02	CTU008-TW02	2/7/2023	N	2 - 12	0.80	U	0.50	U	0.80	U	0.80	U	**7.4**		0.40	U	0.50	U	12	U	3.2	U
	CTU008-SB06/TW03	CTU008-TW03	2/20/2023	N	5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.50	U	0.40	U	0.50	U	12	U	**1.5**	**J**
	CTU008-SB06/TW03	CTU008-TW03-FD	2/20/2023	FD	5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.50	U	0.40	U	0.50	U	12	U	**1.4**	**J**
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB01/TW01	CTU011-TW01	2/7/2023	N	4.5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.50	U	0.40	U	0.50	U	12	U	3.2	U
	CTU011-SB01/TW01	CTU011-TW01-FD	2/7/2023	FD	4.5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.50	U	0.40	U	0.50	U	12	U	3.2	U
	CTU011-SB02/TW02	CTU011-TW02	2/7/2023	N	4.5 - 15	0.80	U	0.50	U	0.80	U	0.80	U	0.50	U	0.40	U	0.50	U	12	U	3.2	U

Table 9
Groundwater Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Acetone		Benzene		Bromodichloromethane		Bromoform		Bromomethane		Carbon disulfide		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS-RN:						67-64-1		71-43-2		75-27-4		75-25-2		74-83-9		75-15-0		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Enforcement Standard[1]						9,000		5		0.6		4.4		10		1,000		5		100		60		400		6	
Preventive Action Limit[2]						1,800		0.5		0.06		0.44		1		200		0.5		20		6		80		0.6	
Units:						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Screen Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU006 (UST 212)	CTU006-SB01/TW01	CTU006-TW01	2/8/2023	N	4 - 14	**9.6**	**J**	0.80	U	0.50	U	1.8	U	4.0	U	0.80	U	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U
	CTU006-SB04/TW02	CTU006-TW02	2/8/2023	N	4.5 - 9.5	8.0	U	0.80	U	0.50	U	1.8	U	4.0	U	0.80	U	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U
Site CTU007 (UST 215)	CTU007-SB01/TW01	CTU007-TW01	2/8/2023	N	5 - 15	8.0	U	0.80	U	0.50	U	1.8	U	4.0	U	0.80	U	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U
	CTU007-SB03/TW02	CTU007-TW02	2/8/2023	N	2 - 12	8.0	U	0.80	U	0.50	U	1.8	U	4.0	U	0.80	U	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U
	CTU007-SB06/TW03	CTU007-TW03	2/8/2023	N	5 - 15	8.0	U	0.80	U	0.50	U	1.8	U	4.0	U	0.80	U	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U
Site CTU008 (UST 219)	CTU008-SB01/TW01	CTU008-TW01	2/7/2023	N	5 - 15	**19**		**0.71**	**J**	0.50	U	1.8	UJ	4.0	U	0.80	U	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U
	CTU008-SB02/TW02	CTU008-TW02	2/7/2023	N	2 - 12	8.0	U	0.80	U	0.50	U	1.8	UJ	4.0	U	0.80	U	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U
	CTU008-SB06/TW03	CTU008-TW03	2/20/2023	N	5 - 15	**15**	**J+**	0.80	U	0.50	U	1.8	U	4.0	U	0.80	U	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U
	CTU008-SB06/TW03	CTU008-TW03-FD	2/20/2023	FD	5 - 15	**15**	**J+**	0.80	U	0.50	U	1.8	U	4.0	U	0.80	U	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB01/TW01	CTU011-TW01	2/7/2023	N	4.5 - 15	**45**		0.80	U	0.50	U	1.8	UJ	**2.5**	**J**	**1.8**	**J**	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U
	CTU011-SB01/TW01	CTU011-TW01-FD	2/7/2023	FD	4.5 - 15	**44**		0.80	U	0.50	U	1.8	UJ	**3.0**	**J**	**1.8**	**J**	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U
	CTU011-SB02/TW02	CTU011-TW02	2/7/2023	N	4.5 - 15	**61**		0.80	U	0.50	U	1.8	UJ	4.0	U	**0.84**	**J**	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U

Table 9
Groundwater Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Chloromethane		cis-1,2-Dichloroethene		cis-1,3-Dichloropropene		Dichlorodifluoromethane		Ethyl ether		Ethylbenzene		Hexane		Methyl tert-butyl ether		Methylene Chloride		m-Xylene & p-Xylene		o-Xylene6		Styrene	
CAS-RN:						74-87-3		156-59-2		10061-01-5		75-71-8		60-29-7		100-41-4		110-54-3		1634-04-4		75-09-2		179601-23-1		95-47-6		100-42-5	
Enforcement Standard[1]						30		70		0.4		1,000		1,000		700		600		60		5		2		2		100	
Preventive Action Limit[2]						3		7		0.04		200		100		140		120		12		0.5		0.4		0.4		10	
Units:						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Screen Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU006 (UST 212)	CTU006-SB01/TW01	CTU006-TW01	2/8/2023	N	4 - 14	1.0	U	0.40	U	1.8	U	**3.6**		0.80	U	0.40	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	0.80	U
	CTU006-SB04/TW02	CTU006-TW02	2/8/2023	N	4.5 - 9.5	1.0	U	0.40	U	1.8	U	2.5	U	0.80	U	0.40	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	0.80	U
Site CTU007 (UST 215)	CTU007-SB01/TW01	CTU007-TW01	2/8/2023	N	5 - 15	1.0	U	0.40	U	1.8	U	2.5	U	0.80	U	0.40	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	0.80	U
	CTU007-SB03/TW02	CTU007-TW02	2/8/2023	N	2 - 12	1.0	U	0.40	U	1.8	U	2.5	U	0.80	U	0.40	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	0.80	U
	CTU007-SB06/TW03	CTU007-TW03	2/8/2023	N	5 - 15	1.0	U	0.40	U	1.8	U	2.5	U	0.80	U	0.40	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	0.80	U
Site CTU008 (UST 219)	CTU008-SB01/TW01	CTU008-TW01	2/7/2023	N	5 - 15	1.0	U	0.40	U	1.8	U	2.5	U	0.80	U	**0.67**	**J**	0.80	U	0.80	U	1.8	U	**1.5**	**J**	**0.79**	**J**	0.80	U
	CTU008-SB02/TW02	CTU008-TW02	2/7/2023	N	2 - 12	1.0	U	0.40	U	1.8	U	2.5	U	0.80	U	**0.43**	**J**	**3.9**		0.80	U	1.8	U	**0.99**	**J**	0.40	U	0.80	U
	CTU008-SB06/TW03	CTU008-TW03	2/20/2023	N	5 - 15	1.0	U	0.40	U	1.8	U	2.5	U	0.80	U	0.40	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	0.80	U
	CTU008-SB06/TW03	CTU008-TW03-FD	2/20/2023	FD	5 - 15	1.0	U	0.40	U	1.8	U	2.5	U	0.80	U	0.40	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	0.80	U
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB01/TW01	CTU011-TW01	2/7/2023	N	4.5 - 15	1.0	U	0.40	U	1.8	U	2.5	U	0.80	U	0.40	U	0.80	U	**0.53**	**J**	1.8	U	0.80	U	0.40	U	0.80	U
	CTU011-SB01/TW01	CTU011-TW01-FD	2/7/2023	FD	4.5 - 15	1.0	U	0.40	U	1.8	U	2.5	U	0.80	U	0.40	U	0.80	U	**0.58**	**J**	1.8	U	0.80	U	0.40	U	0.80	U
	CTU011-SB02/TW02	CTU011-TW02	2/7/2023	N	4.5 - 15	1.0	U	0.40	U	1.8	U	2.5	U	0.80	U	0.40	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	0.80	U

Table 9
Groundwater Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

						t-Butyl alcohol		Tetrachloroethene		Tetrahydrofuran		Toluene		trans-1,2-Dichloroethene		trans-1,3-Dichloropropene		Trichloroethene		Trichlorofluoromethane		Vinyl chloride	
					Analyte:	t-Butyl alcohol		Tetrachloroethene		Tetrahydrofuran		Toluene		trans-1,2-Dichloroethene		trans-1,3-Dichloropropene		Trichloroethene		Trichlorofluoromethane		Vinyl chloride	
					CAS-RN:	75-65-0		127-18-4		109-99-9		108-88-3		156-60-5		10061-02-6		79-01-6		75-69-4		75-01-4	
					Enforcement Standard[1]	12		5		50		800		100		0.4		5		3,490		0.2	
					Preventive Action Limit[2]	1.2		0.5		10		160		20		0.04		0.5		698		0.02	
					Units:	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Screen Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU006 (UST 212)	CTU006-SB01/TW01	CTU006-TW01	2/8/2023	N	4 - 14	5.0	U	0.80	U	6.4	U	0.40	U	0.50	U	1.8	U	0.40	U	0.80	U	1.0	U
	CTU006-SB04/TW02	CTU006-TW02	2/8/2023	N	4.5 - 9.5	5.0	U	0.80	U	6.4	U	0.40	U	0.50	U	1.8	U	0.40	U	0.80	U	1.0	U
Site CTU007 (UST 215)	CTU007-SB01/TW01	CTU007-TW01	2/8/2023	N	5 - 15	5.0	U	0.80	U	6.4	U	0.40	U	0.50	U	1.8	U	0.40	U	0.80	U	1.0	U
	CTU007-SB03/TW02	CTU007-TW02	2/8/2023	N	2 - 12	5.0	U	0.80	U	6.4	U	0.40	U	0.50	U	1.8	U	0.40	U	0.80	U	1.0	U
	CTU007-SB06/TW03	CTU007-TW03	2/8/2023	N	5 - 15	5.0	U	0.80	U	6.4	U	0.40	U	0.50	U	1.8	U	0.40	U	0.80	U	1.0	U
Site CTU008 (UST 219)	CTU008-SB01/TW01	CTU008-TW01	2/7/2023	N	5 - 15	5.0	U	0.80	U	6.4	U	**2.8**		0.50	U	1.8	U	0.40	U	0.80	U	1.0	U
	CTU008-SB02/TW02	CTU008-TW02	2/7/2023	N	2 - 12	5.0	U	0.80	U	6.4	U	0.40	U	0.50	U	1.8	U	0.40	U	0.80	U	1.0	U
	CTU008-SB06/TW03	CTU008-TW03	2/20/2023	N	5 - 15	5.0	U	0.80	U	6.4	U	0.40	U	0.50	U	1.8	U	0.40	U	0.80	U	1.0	U
	CTU008-SB06/TW03	CTU008-TW03-FD	2/20/2023	FD	5 - 15	5.0	U	0.80	U	6.4	U	0.40	U	0.50	U	1.8	U	0.40	U	0.80	U	1.0	U
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB01/TW01	CTU011-TW01	2/7/2023	N	4.5 - 15	5.0	U	0.80	U	6.4	U	0.40	U	0.50	U	1.8	U	0.40	U	0.80	U	1.0	U
	CTU011-SB01/TW01	CTU011-TW01-FD	2/7/2023	FD	4.5 - 15	5.0	U	0.80	U	6.4	U	0.40	U	0.50	U	1.8	U	0.40	U	0.80	U	1.0	U
	CTU011-SB02/TW02	CTU011-TW02	2/7/2023	N	4.5 - 15	5.0	U	0.80	U	**3.4**	**J**	0.40	U	0.50	U	1.8	U	0.40	U	0.80	U	1.0	U

Table 9
Groundwater Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						1,1,1,2-Tetrachloroethane		1,1,1-Trichloroethane		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1-Dichloroethene		1,2,3-Trichloropropane		1,2,4-Trichlorobenzene		1,2,4-Trimethylbenzene		1,2-Dibromo-3-Chloropropane	
CAS-RN:						630-20-6		71-55-6		79-34-5		79-00-5		75-34-3		75-35-4		96-18-4		120-82-1		95-63-6		96-12-8	
Enforcement Standard[1]						70		200		0.2		5		850		7		60		70		480		0.2	
Preventive Action Limit[2]						7		40		0.02		0.5		85		0.7		12		17		96		0.02	
Units:						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Location	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Type**	**Screen Depth Interval (ft bgs)**	**Result**	**Q**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB06/TW03	CTU011-TW03	2/7/2023	N	4 - 14	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	4.0	U
	CTU011-SB07/TW04	CTU011-TW04	2/7/2023	N	4 - 14	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	**0.20**	**J**	4.0	U
	CTU011-SB10/TW05	CTU011-TW05	2/20/2023	N	4 - 14	0.80	U	0.50	U	0.80	U	0.80	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	4.0	U

Table 9
Groundwater Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						1,2-Dibromoethane (EDB)		1,2-Dichlorobenzene		1,2-Dichloroethane		1,2-Dichloropropane		1,3,5-Trimethylbenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		2-Butanone (MEK)		4-Methyl-2-pentanone (MIBK)	
CAS-RN:						106-93-4		95-50-1		107-06-2		78-87-5		108-67-8		541-73-1		106-46-7		78-93-3		108-10-1	
Enforcement Standard[1]						0.05		600		5		5		480		600		75		4,000		500	
Preventive Action Limit[2]						0.005		60		0.5		0.5		96		120		15		800		50	
Units:						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Screen Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB06/TW03	CTU011-TW03	2/7/2023	N	4 - 14	0.80	U	0.50	U	0.80	U	0.80	U	0.50	U	0.40	U	0.50	U	12	U	3.2	U
	CTU011-SB07/TW04	CTU011-TW04	2/7/2023	N	4 - 14	0.80	U	0.50	U	0.80	U	0.80	U	0.50	U	0.40	U	0.50	U	12	U	3.2	U
	CTU011-SB10/TW05	CTU011-TW05	2/20/2023	N	4 - 14	0.80	U	0.50	U	0.80	U	0.80	U	0.50	U	0.40	U	0.50	U	12	U	3.2	U

Table 9
Groundwater Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Acetone		Benzene		Bromodichloromethane		Bromoform		Bromomethane		Carbon disulfide		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS-RN:						67-64-1		71-43-2		75-27-4		75-25-2		74-83-9		75-15-0		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Enforcement Standard[1]						9,000		5		0.6		4.4		10		1,000		5		100		60		400		6	
Preventive Action Limit[2]						1,800		0.5		0.06		0.44		1		200		0.5		20		6		80		0.6	
Units:						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Screen Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB06/TW03	CTU011-TW03	2/7/2023	N	4 - 14	**7.5**	**J**	0.80	U	0.50	U	1.8	UJ	4.0	U	0.80	U	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U
	CTU011-SB07/TW04	CTU011-TW04	2/7/2023	N	4 - 14	**13**	**J**	0.80	U	0.50	U	1.8	UJ	4.0	U	0.80	U	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U
	CTU011-SB10/TW05	CTU011-TW05	2/20/2023	N	4 - 14	8.0	U	0.80	U	0.50	U	1.8	U	4.0	U	0.80	U	0.80	U	0.80	U	1.8	U	1.6	U	0.80	U

Table 9
Groundwater Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

					Analyte:	Chloromethane		cis-1,2-Dichloroethene		cis-1,3-Dichloropropene		Dichlorodifluoromethane		Ethyl ether		Ethylbenzene		Hexane		Methyl tert-butyl ether		Methylene Chloride		m-Xylene & p-Xylene		o-Xylene6		Styrene	
					CAS-RN:	74-87-3		156-59-2		10061-01-5		75-71-8		60-29-7		100-41-4		110-54-3		1634-04-4		75-09-2		179601-23-1		95-47-6		100-42-5	
					Enforcement Standard[1]	30		70		0.4		1,000		1,000		700		600		60		5		2		2		100	
					Preventive Action Limit[2]	3		7		0.04		200		100		140		120		12		0.5		0.4		0.4		10	
					Units:	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Location	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Type**	**Screen Depth Interval (ft bgs)**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Q**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB06/TW03	CTU011-TW03	2/7/2023	N	4 - 14	1.0	U	0.40	U	1.8	U	2.5	U	0.80	U	0.40	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	0.80	U
	CTU011-SB07/TW04	CTU011-TW04	2/7/2023	N	4 - 14	1.0	U	0.40	U	1.8	U	2.5	U	0.80	U	0.40	U	0.80	U	**0.50**	**J**	1.8	U	0.80	U	0.40	U	0.80	U
	CTU011-SB10/TW05	CTU011-TW05	2/20/2023	N	4 - 14	1.0	U	0.40	U	1.8	U	2.5	U	0.80	U	0.40	U	0.80	U	0.80	U	1.8	U	0.80	U	0.40	U	0.80	U

Table 9
Groundwater Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

						t-Butyl alcohol		Tetrachloroethene		Tetrahydrofuran		Toluene		trans-1,2-Dichloroethene		trans-1,3-Dichloropropene		Trichloroethene		Trichlorofluoromethane		Vinyl chloride	
				Analyte:		t-Butyl alcohol		Tetrachloroethene		Tetrahydrofuran		Toluene		trans-1,2-Dichloroethene		trans-1,3-Dichloropropene		Trichloroethene		Trichlorofluoromethane		Vinyl chloride	
				CAS-RN:		75-65-0		127-18-4		109-99-9		108-88-3		156-60-5		10061-02-6		79-01-6		75-69-4		75-01-4	
				Enforcement Standard[1]		12		5		50		800		100		0.4		5		3,490		0.2	
				Preventive Action Limit[2]		1.2		0.5		10		160		20		0.04		0.5		698		0.02	
				Units:		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Location	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Type**	**Screen Depth Interval (ft bgs)**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB06/TW03	CTU011-TW03	2/7/2023	N	4 - 14	5.0	U	0.80	U	6.4	U	0.40	U	0.50	U	1.8	U	0.40	U	0.80	U	1.0	U
	CTU011-SB07/TW04	CTU011-TW04	2/7/2023	N	4 - 14	5.0	U	0.80	U	6.4	U	0.40	U	0.50	U	1.8	U	0.40	U	0.80	U	1.0	U
	CTU011-SB10/TW05	CTU011-TW05	2/20/2023	N	4 - 14	5.0	U	0.80	U	6.4	U	0.40	U	0.50	U	1.8	U	0.40	U	0.80	U	1.0	U

Notes:
CAS-RN – Chemical Abstract Service Registry Number
FD - Field Duplicate
ft bgs - Feet below ground surface
J - Estimated concentration
J+ - Reported value may not be accurate or precise, but the result may be biased high.
J- - Reported value may not be accurate or precise, but the result may be biased low.
µg/L - micrograms per liter
N - Primary field sample
NL - Not listed
Qu - Data qualifier
R - Data is rejected
U - Undetected at the Limit of Detection
UJ - Not detected at the Limit of Detection, results is an estimation
WDNR – Wisconsin Department of Natural Resources
1 Enforcement Standard
2 Preventive Action Limit
Bold indicates analyte was detected
Highlight indicates that detected result exceeds Preventive Action Limit.
Highlight indicates that detected result exceeds Enforcement Standard.

Table 10
Groundwater Sample Analytical Results for Lead and PAHs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

					Analyte:	Lead		1-Methylnaphthalene		2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene	
					CAS-RN:	7439-92-1		90-12-0		91-57-6		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2	
					Enforcement Standard[1]	15		NL		NL		NL		NL		3,000		NL		0.2		0.2		NL	
					Preventive Action Limit[2]	1.5		NL		NL		NL		NL		600		NL		0.02		0.02		NL	
					Units:	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU006 (UST 212)	CTU006-SB01/TW01	CTU006-TW01	2/8/2023	N	4 - 14	-		0.085	U	0.085	U	0.085	U	0.085	U	**0.11**	**J+**	**0.35**	**J+**	**0.37**	**J+**	**0.41**	**J+**	**0.52**	**J+**
	CTU006-SB04/TW02	CTU006-TW02	2/8/2023	N	4.5 - 9.5	-		0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U
Site CTU007 (UST 215)	CTU007-SB01/TW01	CTU007-TW01	2/8/2023	N	5 - 15	-		0.086	U	0.086	U	0.086	U	0.086	U	0.086	U	0.086	U	0.086	U	0.086	U	0.086	U
	CTU007-SB03/TW02	CTU007-TW02	2/8/2023	N	2 - 12	-		0.077	U	0.077	U	**0.28**	**J+**	0.077	U	**0.26**	**J+**	0.077	U	0.077	U	0.077	U	0.077	U
	CTU007-SB06/TW03	CTU007-TW03	2/8/2023	N	5 - 15	-		0.085	U	0.085	U	**0.098**	**J+**	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U
Site CTU008 (UST 219)	CTU008-SB01/TW01	CTU008-TW01	2/7/2023	N	5 - 15	-		0.081	UJ	0.081	UJ	0.081	UJ	0.081	UJ	0.081	UJ	0.081	UJ	0.081	UJ	0.081	UJ	0.081	UJ
	CTU008-SB02/TW02	CTU008-TW02	2/7/2023	N	2 - 12	-		**1.5**	**J+**	**0.79**	**J+**	**0.093**	**J+**	0.078	U	0.078	U	0.078	U	0.078	U	0.078	U	0.078	U
	CTU008-SB06/TW03	CTU008-TW03	2/20/2023	N	5 - 15	-		0.085	U	0.085	U	**0.096**	**J**	**0.0084**	**J+**	**0.056**	**J**	0.085	U	0.085	U	0.085	U	0.085	U
	CTU008-SB06/TW03	CTU008-TW03-FD	2/20/2023	FD	5 - 15	-		0.085	U	0.085	U	**0.10**	**J**	**0.0070**	**J+**	**0.036**	**J**	0.085	U	0.085	U	0.085	U	0.085	U

Table 10
Groundwater Sample Analytical Results for Lead and PAHs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Phenanthrene		Pyrene	
CAS-RN:						207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		91-20-3		85-01-8		129-00-0	
Enforcement Standard[1]						NL		0.2		NL		400		400		NL		100		NL		250	
Preventive Action Limit[2]						NL		0.02		NL		80		80		NL		10		NL		50	
Units:						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU006 (UST 212)	CTU006-SB01/TW01	CTU006-TW01	2/8/2023	N	4 - 14	**0.50**	**J+**	**0.47**	**J+**	**0.68**	**J+**	**0.17**	**J+**	0.085	U	**0.48**	**J+**	0.085	U	0.085	U	**0.17**	J+
	CTU006-SB04/TW02	CTU006-TW02	2/8/2023	N	4.5 - 9.5	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U
Site CTU007 (UST 215)	CTU007-SB01/TW01	CTU007-TW01	2/8/2023	N	5 - 15	0.086	U	0.086	U	0.086	U	0.086	U	0.086	U	0.086	U	0.086	U	0.086	U	0.086	U
	CTU007-SB03/TW02	CTU007-TW02	2/8/2023	N	2 - 12	0.077	U	0.077	U	0.077	U	**0.67**	**J+**	**0.35**	**J+**	0.077	U	0.077	U	**1.0**	**J+**	**0.45**	J+
	CTU007-SB06/TW03	CTU007-TW03	2/8/2023	N	5 - 15	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U	0.085	U
Site CTU008 (UST 219)	CTU008-SB01/TW01	CTU008-TW01	2/7/2023	N	5 - 15	0.081	UJ	0.081	UJ	0.081	UJ	0.081	UJ	0.081	UJ	0.081	UJ	**0.083**	**J**	0.081	UJ	0.081	UJ
	CTU008-SB02/TW02	CTU008-TW02	2/7/2023	N	2 - 12	0.078	U	0.078	U	0.078	U	0.078	U	**0.066**	**J+**	0.078	U	**1.6**	**J+**	**0.13**	**J+**	0.078	U
	CTU008-SB06/TW03	CTU008-TW03	2/20/2023	N	5 - 15	0.085	U	0.085	U	0.085	U	0.085	U	**0.11**		0.085	U	0.085	U	**0.29**	**J+**	0.085	U
	CTU008-SB06/TW03	CTU008-TW03-FD	2/20/2023	FD	5 - 15	0.085	U	0.085	U	0.085	U	0.085	U	**0.094**	**J**	0.085	U	0.085	U	**0.25**	**J+**	0.085	U

Table 10
Groundwater Sample Analytical Results for Lead and PAHs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

					Analyte:	Lead		1-Methylnaphthalene		2-Methylnaphthalene		Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene	
					CAS-RN:	7439-92-1		90-12-0		91-57-6		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2	
					Enforcement Standard[1]	15		NL		NL		NL		NL		3,000		NL		0.2		0.2		NL	
					Preventive Action Limit[2]	1.5		NL		NL		NL		NL		600		NL		0.02		0.02		NL	
					Units:	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Q	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB01/TW01	CTU011-TW01	2/7/2023	N	4.5 - 15	0.70	U	0.084	U	0.084	U	0.084	U	0.084	U	0.084	U	0.084	U	0.084	U	0.084	U	0.084	U
	CTU011-SB01/TW01	CTU011-TW01-FD	2/7/2023	FD	4.5 - 15	**0.25**	**J**	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U	**0.041**	**J+**	**0.071**	**J+**	**0.042**	**J+**
	CTU011-SB02/TW02	CTU011-TW02	2/7/2023	N	4.5 - 15	0.70	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U
	CTU011-SB06/TW03	CTU011-TW03	2/7/2023	N	4 - 14	0.70	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U
	CTU011-SB07/TW04	CTU011-TW04	2/7/2023	N	4 - 14	**1.7**		0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	U	0.081	UJ
	CTU011-SB10/TW05	CTU011-TW05	2/20/2023	N	4 - 14	0.70	U	0.076	UJ	0.076	UJ	0.076	UJ	0.076	UJ	0.076	UJ	0.076	UJ	0.076	UJ	0.076	UJ	0.076	UJ

Table 10
Groundwater Sample Analytical Results for Lead and PAHs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Benzo(k)fluoranthene		Chrysene		Dibenz(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Naphthalene		Phenanthrene		Pyrene	
CAS-RN:						207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		91-20-3		85-01-8		129-00-0	
Enforcement Standard[1]						NL		0.2		NL		400		400		NL		100		NL		250	
Preventive Action Limit[2]						NL		0.02		NL		80		80		NL		10		NL		50	
Units:						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Sample Location	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Type**	**Sample Depth Interval (ft bgs)**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Q**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**
Site CTU011, CTU012, and CTU013 (UST 8002)	CTU011-SB01/TW01	CTU011-TW01	2/7/2023	N	4.5 - 15	0.084	U	0.084	U	0.084	U	0.084	U	0.084	U	0.084	U	0.084	U	0.084	U	0.084	U
	CTU011-SB01/TW01	CTU011-TW01-FD	2/7/2023	FD	4.5 - 15	**0.045**	**J+**	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U	**0.098**	J+
	CTU011-SB02/TW02	CTU011-TW02	2/7/2023	N	4.5 - 15	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U	0.080	U
	CTU011-SB06/TW03	CTU011-TW03	2/7/2023	N	4 - 14	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U	0.079	U
	CTU011-SB07/TW04	CTU011-TW04	2/7/2023	N	4 - 14	0.081	U	0.081	U	0.081	UJ	0.081	U	0.081	U	0.081	UJ	**0.042**	**J+**	0.081	U	0.081	U
	CTU011-SB10/TW05	CTU011-TW05	2/20/2023	N	4 - 14	0.076	UJ	0.076	UJ	0.076	UJ	0.076	UJ	0.076	UJ	0.076	UJ	0.076	UJ	0.076	UJ	0.076	UJ

Notes:
CAS-RN – Chemical Abstract Service Registry Number
FD - Field Duplicate
ft bgs - Feet below ground surface
J - Estimated concentration
J+ - Reported value may not be accurate or precise, but the result may be biased high.
J- - Reported value may not be accurate or precise, but the result may be biased low.
µg/L - micrograms per liter
N - Primary field sample
NL - Not listed
PAHs - Polycyclic aromatic hydrocarbons
Qu - Data qualifier
R - Data is rejected
U - Undetected at the Limit of Detection
UJ - Not detected at the Limit of Detection, results is an estimation
WDNR – Wisconsin Department of Natural Resources
1 Enforcement Standard
2 Preventive Action Limit
Bold indicates analyte was detected
Highlight indicates that detected result exceeds Preventive Action Limit.
Highlight indicates that detected result exceeds Enforcement Standard.

Table 11
Soil Vapor Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						1,1,1-Trichloroethane		1,1,2,2-Tetrachloroethane		1,1,2-Trichloroethane		1,1-Dichloroethane		1,1-Dichloroethene		1,2,4-Trichlorobenzene		1,2,4-Trimethylbenzene		1,2-Dibromoethane		1,2-Dichlorobenzene		1,2-Dichloroethane		1,2-Dichloropropane		1,3,5-Trimethylbenzene		1,3-Butadiene	
CAS-RN:						71-55-6		79-34-5		79-00-5		75-34-3		75-35-4		120-82-1		95-63-6		106-93-4		95-50-1		107-06-2		78-87-5		108-67-8		106-99-0	
WDNR VRSL – Residential Buildings						170,000		16.1		6.95		590		7,000		NL		2,090		1.56		6,950		36		139		2,090		31.2	
WDNR VRSL – Small Commercial Buildings						730,000		70.5		29.2		2,600		29,000		NL		8,760		6.81		29,200		160		584		8,760		136	
WDNR VRSL – Large Commercial/Industrial Buildings						2,200,000		NL		NL		7,700		88,000		NL		NL		NL		NL		470		NL		NL		NL	
Units:						µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3	
Sample Location	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Type**	**Sample Depth Interval (ft bgs)**	**Result**	**Q**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Q**
Site CTU006 (UST 212)	CTU006-VP01	CTU006-VP01	2/8/2023	N	0 - 5	2.8	U	5.4	U	4.3	U	2.1	U	3.1	U	28	U	3.8	U	6.0	U	4.7	U	3.2	U	3.6	U	3.8	U	1.7	U
		CTU006-VP01-FD	2/8/2023	FD	0 - 5	2.8	U	5.2	U	4.1	U	2.0	U	3.0	U	27	U	3.7	U	5.8	U	4.6	U	3.1	U	3.5	U	3.7	U	1.7	U
	CTU006-VP02	CTU006-VP02	2/8/2023	N	0 - 5	2.6	U	4.9	U	3.9	U	1.9	U	2.8	U	26	U	3.5	U	5.5	U	4.3	U	2.9	U	3.3	U	3.5	U	1.6	U
	CTU006-VP03	CTU006-VP03	2/8/2023	N	0 - 5	2.7	U	5.2	U	4.1	U	2.0	U	3.0	U	27	U	3.7	U	5.8	U	4.5	U	3.0	U	3.5	U	3.7	U	1.7	U
Site CTU008 (UST 219)	CTU008-VP01	CTU008-VP01	1/31/2023	N	0 - 5	2.5	U	4.6	U	3.7	U	1.8	U	2.7	U	24	U	3.3	U	5.2	U	4.1	U	2.7	U	3.1	U	3.3	U	1.5	U
	CTU008-VP02	CTU008-VP02	1/31/2023	N	0 - 5	2.5	U	4.7	U	3.7	U	1.8	U	2.7	U	24	U	3.4	U	5.2	U	4.1	U	2.8	U	3.2	U	3.4	U	1.5	U
	CTU008-VP03	CTU008-VP03	1/31/2023	N	0 - 5	2.6	U	5.0	U	4.0	U	2.0	U	2.9	U	26	U	**3.8**	**J**	5.6	U	4.4	U	2.9	U	3.4	U	3.6	U	1.6	U

Table 11
Soil Vapor Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						1,3-Dichlorobenzene		1,4-Dichlorobenzene		1,4-Dioxane		2,2,4-Trimethylpentane		2-Butanone		2-Hexanone		2-Propanol		3-Chloropropene		4-Ethyltoluene		4-Methyl-2-pentanone		Acetone		alpha-chlorotoluene		Benzene	
CAS-RN:						541-73-1		106-46-7		123-91-1		540-84-1		78-93-3		591-78-6		67-63-0		107-05-1		622-96-8		108-10-1		67-64-1		100-44-7		71-43-2	
WDNR VRSL – Residential Buildings						NL		85.1		187		NL		174,000		1,040		NL		NL		NL		104,000		NL		NL		120	
WDNR VRSL – Small Commercial Buildings						NL		372		818		NL		730,000		4,380		NL		NL		NL		438,000		NL		NL		520	
WDNR VRSL – Large Commercial/Industrial Buildings						NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		NL		1,600	
Units:						µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3	
Sample Location	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Type**	**Sample Depth Interval (ft bgs)**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Q**	**Result**	**Qu**
Site CTU006 (UST 212)	CTU006-VP01	CTU006-VP01	2/8/2023	N	0 - 5	4.7	U	4.7	U	5.6	U	**3.9**	**J**	11	U	15	U	9.2	U	4.9	U	3.8	U	3.2	U	**76**		4.0	U	2.5	U
		CTU006-VP01-FD	2/8/2023	FD	0 - 5	4.6	U	4.6	U	5.4	U	**6.4**		**14**		15	U	8.9	U	4.7	U	3.7	U	3.1	U	**64**		3.9	U	2.4	U
	CTU006-VP02	CTU006-VP02	2/8/2023	N	0 - 5	4.3	U	4.3	U	5.2	U	**8.4**		10	U	14	U	8.4	U	4.5	U	3.5	U	2.9	U	**57**		3.7	U	2.3	U
	CTU006-VP03	CTU006-VP03	2/8/2023	N	0 - 5	4.5	U	4.5	U	5.4	U	**8.4**		11	U	15	U	8.9	U	4.7	U	3.7	U	3.1	U	**49**		3.9	U	**4.1**	
Site CTU008 (UST 219)	CTU008-VP01	CTU008-VP01	1/31/2023	N	0 - 5	4.1	U	4.1	U	4.9	U	3.2	U	**28**		13	U	**28**		4.2	U	3.3	U	**3.6**	**J**	**290**		3.5	U	**3.2**	
	CTU008-VP02	CTU008-VP02	1/31/2023	N	0 - 5	4.1	U	4.1	U	4.9	U	3.2	U	**18**		13	U	8.0	U	4.3	U	3.4	U	2.8	U	**180**		3.5	U	**4.9**	
	CTU008-VP03	CTU008-VP03	1/31/2023	N	0 - 5	4.4	U	4.4	U	5.2	U	**8.0**		**16**		14	U	8.6	U	4.6	U	**3.8**	**J**	3.0	U	**74**		3.8	U	**8.6**	

Table 11
Soil Vapor Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Bromodichloromethane		Bromoform		Bromomethane		Carbon Disulfide		Carbon Tetrachloride		Chlorobenzene		Chloroethane		Chloroform		Chloromethane		cis-1,2-Dichloroethene		cis-1,3-Dichloropropene		Cumene		Cyclohexane	
CAS-RN:						75-27-4		75-25-2		74-83-9		75-15-0		56-23-5		108-90-7		75-00-3		67-66-3		74-87-3		156-59-2		10061-01-5		98-82-8		110-82-7	
WDNR VRSL – Residential Buildings						25.3		NL		174		24,300		160		1,740		139,000		41		3,100		NL		234		13,900		209,000	
WDNR VRSL – Small Commercial Buildings						110		NL		730		102,000		680		7,300		584,000		180		13,000		NL		1,020		58,400		876,000	
WDNR VRSL – Large Commercial/Industrial Buildings						NL		NL		NL		NL		2,000		NL		NL		530		39,000		NL		NL		NL		NL	
Units:						µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Q	Result	Qu	Result	Qu
Site CTU006 (UST 212)	CTU006-VP01	CTU006-VP01	2/8/2023	N	0 - 5	3.5	U	8.1	U	15	U	12	U	4.9	U	2.4	U	9.9	U	2.6	U	7.8	U	3.1	U	3.6	U	3.8	U	2.7	U
		CTU006-VP01-FD	2/8/2023	FD	0 - 5	3.4	U	7.8	U	14	U	11	U	4.8	U	2.3	U	9.6	U	2.5	U	7.5	U	3.0	U	3.4	U	3.7	U	2.6	U
	CTU006-VP02	CTU006-VP02	2/8/2023	N	0 - 5	3.2	U	7.4	U	13	U	11	U	4.5	U	2.2	U	9.1	U	2.3	U	7.1	U	2.8	U	3.2	U	3.5	U	2.5	U
	CTU006-VP03	CTU006-VP03	2/8/2023	N	0 - 5	3.4	U	7.8	U	14	U	11	U	4.7	U	2.3	U	9.5	U	2.4	U	7.5	U	3.0	U	3.4	U	3.7	U	2.6	U
Site CTU008 (UST 219)	CTU008-VP01	CTU008-VP01	1/31/2023	N	0 - 5	3.0	U	7.0	U	13	U	10	U	4.3	U	2.1	U	8.6	U	2.2	U	6.7	U	2.7	U	3.1	U	3.3	U	2.3	U
	CTU008-VP02	CTU008-VP02	1/31/2023	N	0 - 5	3.0	U	7.0	U	13	U	10	U	4.3	U	2.1	U	8.6	U	2.2	U	6.8	U	2.7	U	3.1	U	3.4	U	**8.9**	
	CTU008-VP03	CTU008-VP03	1/31/2023	N	0 - 5	3.2	U	7.5	U	14	U	11	U	4.6	U	2.2	U	9.2	U	**8.1**		7.2	U	2.9	U	3.3	U	3.6	U	2.5	U

Table 11
Soil Vapor Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

Analyte:						Dibromochloromethane		Ethanol		Ethyl Benzene		Freon 11		Freon 113		Freon 114		Freon 12		Heptane		Hexachlorobutadiene		Hexane		m, p-Xylene		Methyl tert-butyl ether		Methylene Chloride	
CAS-RN:						124-48-1		64-17-5		100-41-4		75-69-4		76-13-1		76-14-2		75-71-8		142-82-5		87-68-3		110-54-3		108-38-3		1634-04-4		75-09-2	
WDNR VRSL – Residential Buildings						NL		NL		370		NL		174,000		NL		3,500		13,900		42.5		24,300		3,500		3,600		21,000	
WDNR VRSL – Small Commercial Buildings						NL		NL		1,600		NL		730,000		NL		15,000		58,400		186		102,000		15,000		15,700		88,000	
WDNR VRSL – Large Commercial/Industrial Buildings						NL		NL		4,900		NL		NL		NL		NL		NL		NL		NL		44,000		NL		260,000	
Units:						µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3	
Sample Location	Sample Location	Sample ID	Sample Date	Sample Type	Sample Depth Interval (ft bgs)	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu	Result	Qu
Site CTU006 (UST 212)	CTU006-VP01	CTU006-VP01	2/8/2023	N	0 - 5	6.7	U	9.8	U	3.4	U	4.4	U	6.0	U	5.5	U	**8.2**	**J**	**3.4**	**J**	40	U	**5.6**		3.4	U	5.6	U	13	U
		CTU006-VP01-FD	2/8/2023	FD	0 - 5	6.4	U	9.5	U	3.3	U	4.2	U	5.8	U	5.3	U	**12**	**J**	**5.5**	**J**	39	U	**6.5**		**3.8**	**J**	5.5	U	13	U
	CTU006-VP02	CTU006-VP02	2/8/2023	N	0 - 5	6.1	U	9.0	U	3.1	U	4.0	U	5.5	U	5.0	U	**35**		**4.2**	**J**	37	U	**5.4**		3.1	U	5.2	U	12	U
	CTU006-VP03	CTU006-VP03	2/8/2023	N	0 - 5	6.4	U	9.5	U	3.3	U	4.2	U	5.8	U	5.3	U	**7.6**		**9.6**	**J**	38	U	**5.5**		**7.5**		5.4	U	12	U
Site CTU008 (UST 219)	CTU008-VP01	CTU008-VP01	1/31/2023	N	0 - 5	5.8	U	8.5	U	2.9	U	3.8	U	5.2	U	4.7	U	3.4	U	**8.1**	**J**	35	U	**8.0**		**4.2**		4.9	U	11	U
	CTU008-VP02	CTU008-VP02	1/31/2023	N	0 - 5	5.8	U	8.6	U	3.0	U	3.8	U	5.2	U	4.8	U	3.4	U	**17**		35	U	**23**		**3.6**	**J**	4.9	U	11	U
	CTU008-VP03	CTU008-VP03	1/31/2023	N	0 - 5	6.2	U	**26**		**7.3**		4.1	U	5.6	U	5.1	U	3.6	U	**15**	**J**	37	U	**12**		**21**		5.2	U	12	U

Table 11
Soil Vapor Sample Analytical Results for VOCs
UST Preliminary Assessment/Site Inspection
Sites CTU006, CTU007, CTU008, and CTU011, CTU012, CTU013
Former General Mitchell Air Reserve Station, Wisconsin

						Naphthalene		o-Xylene		Propylbenzene		Styrene		Tetrachloroethene		Tetrahydrofuran		Toluene		trans-1,2-Dichloroethene		trans-1,3-Dichloropropene		Trichloroethene		Vinyl Chloride	
Analyte:																											
CAS-RN:						91-20-3		95-47-6		103-65-1		100-42-5		127-18-4		109-99-9		108-88-3		156-60-5		10061-02-6		79-01-6		75-01-4	
WDNR VRSL – Residential Buildings						28		3,500		NL		34,800		1,400		69,500		174,000		1,400		NL		70		56	
WDNR VRSL – Small Commercial Buildings						120		15,000		NL		146,000		5,800		292,000		730,000		5,800		NL		290		930	
WDNR VRSL – Large Commercial/Industrial Buildings						360		NL		NL		NL		18,000		NL		NL		18,000		NL		880		2,800	
Units:						µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3		µg/m^3	
Sample Location	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Type**	**Sample Depth Interval (ft bgs)**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**	**Result**	**Qu**
Site CTU006 (UST 212)	CTU006-VP01	CTU006-VP01	2/8/2023	N	0 - 5	2.7	U	3.4	U	3.8	U	3.3	U	**52**	**J**	2.3	U	**7.6**	**J**	3.1	U	3.6	U	4.2	U	2.0	U
		CTU006-VP01-FD	2/8/2023	FD	0 - 5	2.6	U	3.3	U	3.7	U	3.2	U	**88**	**J**	**2.4**	**J**	**12**		3.0	U	3.4	U	4.1	U	1.9	U
	CTU006-VP02	CTU006-VP02	2/8/2023	N	0 - 5	2.5	U	3.1	U	3.5	U	3.0	U	**52**		2.1	U	**6.0**	**J**	2.8	U	3.2	U	3.8	U	1.8	U
	CTU006-VP03	CTU006-VP03	2/8/2023	N	0 - 5	2.6	U	3.3	U	3.7	U	3.2	U	**280**		2.2	U	**30**		3.0	U	3.4	U	4.0	U	1.9	U
Site CTU008 (UST 219)	CTU008-VP01	CTU008-VP01	1/31/2023	N	0 - 5	2.4	U	2.9	U	3.3	U	2.9	U	**17**		2.0	U	**9.6**		2.7	U	3.1	U	3.6	U	1.7	U
	CTU008-VP02	CTU008-VP02	1/31/2023	N	0 - 5	2.4	U	3.0	U	3.4	U	2.9	U	**16**		2.0	U	**10**		2.7	U	3.1	U	3.7	U	1.7	U
	CTU008-VP03	CTU008-VP03	1/31/2023	N	0 - 5	2.5	U	**7.1**		3.6	U	3.1	U	**470**		**5.3**		**55**		2.9	U	3.3	U	3.9	U	1.8	U

Notes:

CAS-RN – Chemical Abstract Service Registry Number

FD - Field Duplicate

ft bgs - Feet below ground surface

J - Estimated concentration

J+ - Reported value may not be accurate or precise, but the result may be biased high.

J- - Reported value may not be accurate or precise, but the result may be biased low.

µg/m^3 – micrograms per cubic meter

N - Primary field sample

NL - Not listed in either VRSL sources

Qu - Data qualifier

U - Undetected at the Limit of Detection

UJ - Not detected at the Limit of Detection, results is an estimation

VRSL - Vapor Risk Screening Level; from WDNR Pub RR0136 or determined from USEPA Vapor Intrusion Screening Levels (VISL) Calculator using Wisconsin default value

WDNR – Wisconsin Department of Natural Resources

WDNR screening values were applied using WDNR's Quick Look-Up Table for Sub-Slab Vapor - Vapor Risk Screening Levels (VRSLs). If VOCs are detected for compounds with no WDNR Quick Look-Up Table values, USEPA Vapor Intrusion Screening Levels (VISLs) will be used to calculate screening levels for those compounds.

Bold indicates analyte was detected

Highlight indicates that detected result exceeds minimum of listed Screening Levels

APPENDIX A

FIELD DOCUMENTATION

This page intentionally left blank.

Calibration Forms

This page intentionally left blank.

cti		**EQUIPMENT CALIBRATION WORKSHEET**		Dates:	02/07/23 - 02/08/23
		Project Name:	GMIA ASF UST SI	Weather:	See field notes
Instrument I. D.	SN: FA04999 [D2] AECOM KEN SN: FA05000 [D1] CTI S	Project Number:	60676873.4	Scientist/ Engineer:	KEN / AECOM

Multi - Parameter Instrument Calibration

	Date / Time	pH			ORP	Specific Conductivity	DO		Barometric Pressure	Comments
		4	7	10	mV	1409 (µs/cm²)	100%	mg/L	mmHg Actual → Past	
D2	02/08/23 0835	n/a	n/a	n/a	n/a	1143 → 1127	88.1 → 98.4 ~~n/a~~ KEN	11.25 → 11.21	748.4 → 748.2	n/a
D1	02/08/23 0835	n/a	n/a	n/a	n/a	1158 → 1124	75.6 → 78.4	12.23 → 11.95	747.9 → 747.8	n/a
PID	02/08/23 0840	n/a	n/a	n/a	n/a	n/a	n/a	n/a	30.28 "Hg	Fresh Air = 0.0 Span Cal = 100.2
	Lot No.					8107368				

Geotech Turbidimeter Calibration (If applicable)

SN: FA03013 [D1] CTI
SN: FA04010 [D2] AECOM/KEN

	Date	<0.1	~~15~~ 10	~~100~~ 20	~~750~~ 100 800	
D2	02/07/23	7.3 → 1.0	9.34	13.9	60.2 → 88.7	285 → 705
D1	02/07/23	1.6 → 1.9	8.14	12.8	150	651
D2	02/08/23	3.2 → 1.0	n/a 8.97	~~n/a~~ 14.4	~~n/c~~ 70.5	228 → 213 → 697
D1	~~02/08/23~~	1.4	7.27	12.2	221 → 154	821
						KEN 02/08/23

cti		**EQUIPMENT CALIBRATION WORKSHEET**		Dates:	01/30/2023 –
		Project Name:	General Mitchell AFS UST SI	Weather:	Indoors / Controlled Temp
Instrument I. D.		Project Number:	60676873.4	Scientist/ Engineer:	Keith Eric Nielsen

Multi - Parameter Instrument Calibration

SPAN

Date / Time	pH			[redacted] FreshAir	[redacted]	DO		Barometric Pressure	Comments
	4	7	10	[redacted] ppm	[redacted] ppm	100%	mg/L	mmHg	
01/30/23				0.0	100.1			30.42 "Hg	n/a
01/31/23				0.0	100.1			30.49 "Hg	n/a
02/01/23				0.0	100.0			30.24 "Hg	n/a
02/02/23				0.0	100.1			30.06 "Hg	n/a
02/06/23				0.0	100.0			30.23 "Hg	n/a
Lot No. *									

Geotech Turbidimeter Calibration (If applicable)

Date	<0.1	15	100	750
			KEN 01/30/23	

* Isobutylene C_4H_8 100.0 ppm
LOT # 18-6426

KEN
02/06/23

Soil Boring Logs

This page intentionally left blank.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 2

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTUGGG-SB01
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: ~~Ros Moses~~ Last Name: Moses Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02/02/23 (MM/ DD/ YY)	Date Drilling Completed: 02/02/23 (MM/ DD/ YY)
		Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
		Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36/60		1.0	topsoil w/ organics →										
				10YR 5/3 light brown ~~medium to coarse~~ F→M well sorted sand ~~moist to wet~~ KEN ~~2.5' to 3.0'~~	SM			0.0						CTUGGG-SB01-01 @1300 (0.5'-2.5')
			3.0	10YR ~~5/3~~ 4/3 brown lean clay medium plasticity	CL			0.0						
	60/60		5.0	10 YR 4/3 brown medium to course poorly sorted sand moist to wet 2.0'-3.0'	SW									CTUGGG SB01-02 @1305 (1.5'-2.5')
			7.0	10YR 5/3 light brown Lean hard clay trace gravel	CH									
	60/60		11.0											
			12.0	10YR 4/1 grey/brown hard clay, high plasticity	CL									

+ FILL

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: KEN AECOM Firm: **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			12.0											
			13.0											
			14.0											
			15.0	EOB @ 15.0'										
			16.0	wet @ 3.0'										
				well set @ 14.0'										
			17.0											
			18.0											
			19.0											
			20.0											
			21.0	WGN 02/02/23										
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
UST Preliminary Assessment/SI at General Mitchell Air Reservation		CTU006-SB02

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Last Name:	MM/ DD/ YY	MM/ DD/ YY	DPT
Firm: **Enviro-Dynamics, LLC**			

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
1/4 of 1/4 of Section T N, R E/W

Lat ° ' "
Long ° ' "

Local Grid Location (if applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
	Milwaukee	41	City of Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	42/60		1.0	10YR 6/1 light grey gravel with 10YR 4/3 fine to medium silty sand with medium to coarse sand and gravel layers	SW-SM	FILL		27.1						CTU006-SB02-01 @1230 (1.0'-2.0')
			2.0											
			3.0	10YR 5/3 light brown ~~Lean~~ KEN 02/07/23 hard clay (fat) with @ trace sand and gravel high plasticity (low plasticity at ~3.0' assumed water table)	CL									
	60/60		4.0					4.1						CTU006-SB02-07 @1275 (2.0'-3.0')
			5.0											
			6.0											
			7.0											
			8.0											
			9.0											
			10.0	EOB @ 10.0' wet @ 3.00										
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	AECOM 1555 N RiverCenter Drive, Milwaukee, WI 53212

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
UST Preliminary Assessment/SI at General Mitchell Air Reservation		CTU006-SP03

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Rob Last Name: Morel Firm: **Enviro-Dynamics, LLC**	02/02/23 MM/DD/YY	02/02/23 MM/DD/YY	DPT

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐
State Plane ____ N, ____ E S/C/N
1/4 of ____ 1/4 of Section ____ T ____ N, R ____ E/W

Lat ° ' "
Long ° ' "

Local Grid Location (if applicable)
____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
	Milwaukee	41	City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48/60		0	topsoil w/organics										
			1.0	10YR 5/3 light brown				0.0						
				10YR 4/3 top 1.0' (0.5'-1.5')										
			2.0	hard clay										CTU006-SP03-01 @1200 (1.0'-2.0'
				high plasticity				0.0						
			3.0	trace gravel near top										
			4.0	moist to wet @ 2.5'-3.0'?										CTU006-SP03-02 @1205 (2.0'-3.0'
				wet @ 3.0'										
	60/60		5.0											
			6.0											
			7.0											
			8.0											
			9.0											
			10.0											
				EOB @ 10.0'										
			11.0	moist to wet @ 3.0'										
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] VCM AECOM | Firm **AECOM** 1555 N RiverCenter Drive, Milwaukee, WI 53212

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

* split sample (PFAS) with Sigma

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU006-SP04
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02/02/23 (MM/DD/YY)	Date Drilling Completed: 02/02/23 (MM/DD/YY)
	Drilling Method: DPT	
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
		Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
		42/60		topsoil w/ organics →										
			1.0	10YR 4/3 brown lean clay some sand trace gravel medium to low plasticity with depth moist to wet ~~3.5'-4.0'~~ 3.0'-4.0' KEN 02/02/23	CL			0.0						CTU006-SB04-01 @1100 (1.0'-2.0')
			2.0					0.0						
			3.0											CTU006-SB04-02 @1105 (2.0'-3.0')
			4.0	10YR 5/3 light brown medium to coarse wet, loose sand	SW									
		43/60	5.0											
			6.0											
			7.0			FILL								
			8.0											
			9.0											
			10.0											
			11.0	EOB @ 10.0 wet @ 3.5' well set @ 9.5'										
			12.0	concrete pad/refusal @ 10.0'										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature KEN AECOM Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU006-SB05
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Ros Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02/02/23 (MM/DD/YY)	Date Drilling Completed: 02/02/23 (MM/DD/YY)
		Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
		Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	42/60			topsoil w/organics										
			1.0	10YR 4/3 brown lean clay with some sand trace gravel medium to low plasticity	CL			0.0						CTU006-SB05-01 @ 1030 (1.0'-2.0')
			2.0					0.0						
			3.0	10YR 5/3 light brown medium to course (moist to wet @ 2.75'-3.0') Sand with trace gravel wet	SW	FILL								CTU006-SB05-02 @ 1035 (2.0'-3.0') FD
	42/60		4.0											
			5.0											
			6.0											
			7.0											
			8.0											
			9.0											
			10.0											
			11.0	EOB @ 10.0 wet @ 3.0'										
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] KGN AECOM Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU0006-SB06
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mares Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02/02/23 (MM/ DD/ YY)	Date Drilling Completed: 02/02/23 (MM/ DD/ YY)
		Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
		Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	20/60			~~10YR 4/3 brown~~ KEN topsoil, w/organics				0.0						
			1.0	10YR 4/3 brown lean clay some sand and gravel medium plasticity low plasticity at depth ~~moist~~ KEN 02/02/23	CL			0.0						CTU006-SB06-01 @1145 (0.5'-1.0')
			2.0											
			3.0											
			4.0											CTU006-SB06-02 @1150 (1.0'-1.5')
			5.0	EOB @ 4.5' refusal @ 4.5'										(W)
			6.0											
			7.0											
			8.0											
			9.0											
			10.0											
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature KGN AECOM Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU006-VP01
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mocel Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02 06 23 (MM/ DD/ YY) Date Drilling Completed: 02 06 23 (MM/ DD/ YY)	Drilling Method: g-jet
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL Surface Elevation: Feet MSL	Borehole Diameter: 4 inches
Local Grid Origin ☐ (Estimated ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee / County Code: 41	Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1.0	Blind Drill to 4' topsoil w/organics	topsoil			0.0						
			2.0 3.0 4.0	10YR 5/3 light brown medium to course sand w/ gravel loose, moist moist to wet at 3.5	FILL									
			5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0	EOB @ 4.0'										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: KEN AECOM Firm: **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU006-VP02
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02 06 23 (MM/ DD/ YY)	Date Drilling Completed: 02 06 23 (MM/ DD/ YY)
	Drilling Method: Auger	
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
	Borehole Diameter: 4 inches	
Local Grid Origin ☐ (Estimated ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
	Civil Town/City/or Village: City of Milwaukee	

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Blind Drill to 4'										
			1.0	topsoil w/ organics	topsoil			0.0						
			2.0	10 YR 5/3 light brown medium to course Sand with gravel loose, moist	FILL									
			3.0											
			4.0	EOB @ 4.0'										
			5.0											
			6.0											
			7.0											
			8.0											
			9.0											
			10.0											
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] MCN AECOM Firm: **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater [ ] Waste Management [ ]
Remediation/Redevelopment [X] Other [ ]

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTJ006-VP03
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Roy Last Name: Morel Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02 06 23 (MM/ DD/ YY)	Date Drilling Completed: 02 06 23 (MM/ DD/ YY)
	Drilling Method: auger	
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
	Borehole Diameter: 4 inches	
Local Grid Origin [ ] (Estimated: [ ]) or Boring Location [ ] State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet [ ] N [ ] S Feet [ ] E [ ] W
Facility ID	County: Milwaukee	County Code: 41
	Civil Town/City/or Village: City of Milwaukee	

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Blind Drill to 4'										
				topsoil w/ organics	topsoil									
			1.0	10YR 5/3 light brown medium to course sand w/ gravel loose, moist	FILL			0.0						
			3.0											
			4.0	10YR 4/3 brown medium to course poorly sorted sand	SAA									
				EOB @ 4.0'										
			5.0											
			6.0											
			7.0											
			8.0											
			9.0											
			10.0											
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU006-VP01
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mocel Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02 06 23 (MM/ DD/ YY) Date Drilling Completed: 02 06 23 (MM/ DD/ YY)	Drilling Method: g-jet
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL Surface Elevation: Feet MSL	Borehole Diameter: 4 inches
Local Grid Origin ☐ (Estimated ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee / County Code: 41	Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1.0	Blind Drill to 4' topsoil w/organics	topsoil			0.0						
			2.0 3.0 4.0	10YR 5/3 light brown medium to course sand w/ gravel loose, moist moist to wet at 3.5	FILL									
			5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0	EOB @ 4.0'										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: KEN AECOM Firm: **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU006-VP02
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02 06 23 (MM/ DD/ YY)	Date Drilling Completed: 02 06 23 (MM/ DD/ YY)
	Drilling Method: Auger	
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
	Borehole Diameter: 4 inches	
Local Grid Origin ☐ (Estimated ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
	Civil Town/City/or Village: City of Milwaukee	

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Blind Drill to 4'										
			1.0	topsoil w/ organics	topsoil			0.0						
			2.0	10 YR 5/3 light brown medium to course Sand with gravel loose, moist	FILL									
			3.0											
			4.0	EOB @ 4.0'										
			5.0											
			6.0											
			7.0											
			8.0											
			9.0											
			10.0											
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] MCN AECOM Firm: **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater [ ] Waste Management [ ]
Remediation/Redevelopment [X] Other [ ]

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTJ006-VP03
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Roy Last Name: Morel Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02 06 23 (MM/ DD/ YY)	Date Drilling Completed: 02 06 23 (MM/ DD/ YY)
	Drilling Method: auger	
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
	Borehole Diameter: 4 inches	
Local Grid Origin [ ] (Estimated: [ ]) or Boring Location [ ] State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet [ ] N [ ] S Feet [ ] E [ ] W
Facility ID	County: Milwaukee	County Code: 41
	Civil Town/City/or Village: City of Milwaukee	

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Blind Drill to 4'										
				topsoil w/ organics	topsoil									
			1.0	10YR 5/3 light brown medium to course sand w/ gravel loose, moist	FILL			0.0						
			3.0											
			4.0	10YR 4/3 brown medium to course poorly sorted sand	SAA									
				EOB @ 4.0'										
			5.0											
			6.0											
			7.0											
			8.0											
			9.0											
			10.0											
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

CTU007-SB01

Page 1 of 2

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
UST Preliminary Assessment/SI at General Mitchell Air Reservation		CTU007-KEN 02/06/23

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Rob Last Name: Mores Firm: Enviro-Dynamics, LLC	02/06/23 MM/ DD/ YY	02/06/23 MM/ DD/ YY	DPT

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
1/4 of 1/4 of Section T N, R E/W
Lat ° ' "
Long ° ' "
Local Grid Location (if applicable): Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
	Milwaukee	41	City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	30/60		0	topsoil w/ organics →										
			1.0	10 YR 6/1 light gray gravel with M-C sand	GW			0.0						
				10 YR 6/4 light 4/3 brown lean clay with M-C sand with gravel	CL									CTU007-SB01-01 @1030 (0.5'-1.5')
			3.0	10 YR 6/1 light gray gravel w/ M-C sand	GW									
			4.0	10 YR 4/3 brown lean clay with fine-medium sand trace gravel low to medium to low plasticity through area moist to wet @ 3.5'-4.0'	CL			0.0						CTU007-SB01-02 @1035 (1.5'-2.5')
	60/60		6.0											
			7.0	10 YR 5/3 light brown medium to course wet loose sand poorly graded										
			8.0											
			9.0											
			10.0		GW									
	60/60		11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature KEN Firm AECOM
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			12.0											
			13.0	1 @ 7.5YR 5/3 brown with 10 YR 4/1 grey lean clay medium plasticity trace gravel	CL									
			14.0											
			15.0	EOB @ 15.0' wet @ 4.0' well set @ 15.0'										
			16.0											
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number:	Boring Number: CTU007-SB02
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Moore Firm: Enviro-Dynamics, LLC	Date Drilling Started: 02/06/23 (MM/DD/YY)	Date Drilling Completed: 02/06/23 (MM/DD/YY)
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
Drilling Method: DPT	Borehole Diameter: 2 inches	
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
Civil Town/City/or Village: City of Milwaukee		

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	30/60		0	topsoil w/organics										
				10YR 4/3 brown				0.0						
			1.0	fine to medium well sorted sand with trace gravel bottom 1'	SW									CTU007-SB02-01 @0930 (0.5'-1.5')
			2.0											
			3.0	10YR 5/3 light brown medium to course poorly sorted sand	GW									
			4.0					0.0						CTU007-SB02-02 @0935 (1.5'-2.5')
	24/60		5.0	with 10YR 6/1 light gray gravel moist to wet 4.0-4.5										
			6.0	10 YR 5/3 light brown										
			7.0	fine medium well sorted sand with trace gravel near top	SW									
			8.0											
			9.0											
			10.0	EOB @ 10' wet @ 4.5'										
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] KEN AECOM Firm AECOM
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU007-SB03
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02/06/23 (MM/DD/YY)	Date Drilling Completed: 02/06/23 (MM/DD/YY) / Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL / Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet N ☐ S ☐ Feet E ☐ W
Facility ID	County: Milwaukee / County Code: 41	Civil Town/City/or Village: City of Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments
	30/60		0	topsoil w/ organics										
			1.0	10YR 5/3 light brown lean clay with sand (50%) (fine, well sorted)	CL			0.0						CTU007-SB03-01 @1130 (0.5'-1.5')
			2.0	trace gravel with 10YR 6/1 gravel layers @ (1.0'-1.5') and 2.0'-2.5')				0.0						
			3.0											
			4.0											CTU007-SB03-02 @1135 (1.5'-2.5')
	24/60		5.0	10YR 6/1 light grey loose gravel wet	GW									
			6.0	10YR 5/3 light brown sand poorly sorted trace gravel medium to course fine grains top foot (6.0'-7.0')	SW									
			7.0											
			8.0											
			9.0											
	36/60		10.0											
			11.0											
			12.0	EOB @ 12.0' wet @ 4.5' well set @ 12.0'										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] KEN AECOM Firm: **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU007-SB04
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Abe Last Name: Mores Firm: Enviro-Dynamics, LLC	Date Drilling Started: 02/06/23 (MM/DD/YY)	Date Drilling Completed: 02/06/23 (MM/DD/YY)
		Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
		Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	30/60		0	topsoil w/ organics →										
			1.0	10 YR ~~5/4~~ NEW 4/3 brown fine to medium well sorted sand with gravel (trace)				0.0						CTU007-SB04-01 @1000 (0.5'-1.5') MS/MSD
			2.0											
			3.0	10 YR 5/3 medium to course light brown poorly sorted sand with 10 YR 6/1 light grey gravel	SW									
			4.0	10 YR 5/3 light brown fine to medium well sorted sand with trace gravel				0.0						
			5.0											
	42/60		6.0	10 YR 5/3 light brown medium to course poorly sorted sand with 10 YR 6/1 light grey gravel	SW									CTU007-SB04-02 @1005 (1.5'-2.5') FD
			7.0	10 YR 5/3 light brown fine to medium well sorted sand with trace gravel with 10 YR 5/3 light brown medium to course sand seams 6.5'-6.75'				6.0'-10.0' 10YR 5/3 light brown lean clay medium plasticity to hard plasticity to depth						
			8.0											
			9.0											
			10.0	wet @ 4.0' moist to wet 3.5'-4.0' EOB @ 10.0'										
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] KEN AECOM Firm: AECOM
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU007-SB05
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: Enviro-Dynamics, LLC	Date Drilling Started: 02/06/23 (MM/DD/YY)	Date Drilling Completed: 02/06/23 (MM/DD/YY)
		Drilling Method: DPT
WI Unique Well No.	DNR Well ID No.	Well Name
Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	topsoil w/ organics										
			1.0	10YR 5/3 light brown medium to course sand poorly sorted with				0.0						CTU007-SB05-01 @1100 (0.5'-1.5')
			2.0	10YR 6/1 light grey gravel with										
			3.0	intermittent layers of ~~lean clay~~ 10YR 4/3 brown lean clay - low plasticity										
			4.0					0.0						
			5.0	↓ gravel layer										CTU007-SB05-02 @1105 (1.5'-2.5')
			6.0											
			7.0	10YR 3/1 dark brown medium ~~coarse~~ sand well sorted with trace gravel										
			8.0											
			9.0											
			10.0											
			11.0	EOB @ 10.0' wet @ 4.0' moist to wet 3.5'-4.0'										
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] KEN AECOM Firm: AECOM
1555 N RiverCenter Drive, Milwaukee, WI 53212

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU007-SB06
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Moers Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02/06/23 (MM/DD/YY)	Date Drilling Completed: 02/06/23 (MM/DD/YY)
		Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
		Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36/60		0	topsoil w/ organics →										
			1.0	10YR 4/3 brown clay with 10YR 5/3 light brown medium to course poorly sorted sand with gravel layers	CL			0.0						CTU007-SB06-01 @1230 (0.5'-1.5')
			3.0	10YR 6/1 light grey gravel with 10YR 5/3 light brown medium to coarse poorly sorted sand	GW			0.0						CTU007-SB06-02 @1235 (1.5'-2.5') Extra volume only one 40 ml DI voa
	12/60		5.0											
			10.0	10YR 5/1 grey medium to coarse poorly sorted sand with trace gravel	SW									
	12/60		12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] KEN AECOM Firm: **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments

12.0
13.0
14.0
15.0
16.0
17.0
18.0
19.0
20.0
21.0
22.0
23.0
24.0
25.0
26.0
27.0
28.0
29.0
30.0
31.0
32.0

EOB @ 15.0'
moist to wet @ 3.5'-4.0'
wet @ 4.0'
well set @ 15.0'

KEN
02/06/23

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU007-SB07
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: Enviro-Dynamics, LLC	Date Drilling Started: 02/06/23 (MM/DD/YY)	Date Drilling Completed: 02/06/23 (MM/DD/YY)
	Drilling Method: DPT	
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
	Borehole Diameter: 2 inches	
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
	Civil Town/City/or Village: City of Milwaukee	

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	30/60		0	topsoil w/ organics										
			1.0	10YR 5/3 light brown clay with sand (50%) medium to course (more sand) poorly sorted	CL			0.0						CTU007-SB07-01 @1200 (0.5'-1.5')
			2.0	10YR 4/3 brown lean clay with 10YR 5/3 medium to course sand, poorly sorted	CL			0.0						CTU007-SB07-02 @1205 (1.5'-2.5' (extra volume taken (1) DI 40 ml voa Shock)
			3.0											
			4.0											
			5.0	(more clay)										
	12/60		6.0	10YR 6/1 light gray gravel, loose, wet	GW									
			7.0											
			8.0											
			9.0											
			10.0	EOB @ 10.0 moist to wet @(3.5-4.0) wet @ 4.0ft										
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature KEN AECOM Firm AECOM
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater [ ] Waste Management [ ]
Remediation/Redevelopment [X] Other [ ]

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU008-SB01
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mares Firm: Enviro-Dynamics, LLC	Date Drilling Started: 01/30/23 (MM/DD/YY)	Date Drilling Completed: 01/30/23 (MM/DD/YY)
		Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
		Borehole Diameter: 2 inches
Local Grid Origin [ ] (Estimated: [ ]) or Boring Location [ ] State Plane ____ N, ____ E S/C/N ____ 1/4 of ____ 1/4 of Section ____ T ____ N, R ____ E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) ____ Feet [ ] N [ ] S ____ Feet [ ] E [ ] W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48/60			topsoil w/ organics										
			1.0	10 YR 5/3 light brown lean clay with some sand low to medium plasticity	CL			0.0						CTU008-SB01-01 @1400 (1.5'-2.5')
			2.0											
			3.0											
			4.0											
			5.0											CTU008 SB01-02 @1405 (6.5'-7.5')
	60/60		6.0											
			7.0	moist to wet @ 7.5'-8.0'										YM
			8.0					0.0						
			9.0											
			10.0											
	60/60		11.0											
			12.0	10YR 4/3 brown lean clay with some sand medium to high plasticity	CL									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: KEN AECOM | Firm: AECOM, 1555 N RiverCenter Drive, Milwaukee, WI 53212

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			12.0											
			13.0	gravel with course sand 10YR 7/1 light grey	GW									
			14.0	10YR 4/3 brown lean clay with some sand low to medium plasticity	CL									
			15.0	EOB @ 15.0' wet @ 8.0' well set @ 15.0'										
			16.0											
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number:	Boring Number: CTU008-SB02
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: ~~Rob Morse~~ Last Name: Moses Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 01/30/23 (MM/DD/YY)	Date Drilling Completed: 01/30/23 (MM/DD/YY) / Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL / Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee / County Code: 41	Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48/60			topsoil w/organics										
			1.0	10 YR 4/3 brown poorly sorted, medium to course sand with few gravel	SW									CTU008-SB02-01 @1400 (1.0'-2.0')
			2.0											
			3.0	10 YR 5/3 light brown fine to medium fine dry, loose well sorted sand with trace gravel from 7.0'-9.0'	SP									CTU008-SB02-01-FD @1400 (1.0'-2.0')
	48/60		4.0											
			5.0											
			6.0											
			7.0	moist to wet @7.0'-7.5'		FILL								CTU008-SB02-02 @1405 (6.0'-7.0')
			8.0											
			9.0											NM
			10.0	10 YR 4/1 dark brown poorly sorted, medium to course sand with few gravel										
			11.0											
			12.0	EOB @ 12.0' wet @ 7.5'										refusal @ 12.0' (tank pad?)

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] KEN AECOM Firm: **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU008-SB03
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 01/30/23 (MM/DD/YY)	Date Drilling Completed: 01/30/23 (MM/DD/YY)
		Drilling Method: DPT
WI Unique Well No.	DNR Well ID No.	Well Name
Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36/60		0	topsoil w/organics										
			1.0	10 YR 4/3 ~~light~~ brown poorly sorted, medium to course sand with few gravel	SW	FILL		0.0						CTU008-SB03-01 @1300 (1.0'-2.0')
			2.0											
			3.0	10 YR 5/3 light brown poorly sorted, medium to course sand with few gravel	SW									
			4.0											CTU008-SB03-02 @1305 (7.0'-8.0')
			5.0					0.0						
	36/60		6.0	10YR 4/3 brown lean clay with trace sand low to medium plasticity trace gravel from 7.0'-8.0' moist to wet 7.5'-8.0'	CL									NM
			7.0											
			8.0											
			9.0											
			10.0	EOB @ 10.0' wet @ 8.0'										
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature | Firm: **AECOM**, 1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater [ ] Waste Management [ ]
Remediation/Redevelopment [X] Other [ ]

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU008-SB04
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: Enviro-Dynamics, LLC	Date Drilling Started: 01/30/23 (MM/DD/YY)	Date Drilling Completed: 01/30/23 (MM/DD/YY) / Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL / Borehole Diameter: 2 inches
Local Grid Origin [ ] (Estimated: [ ]) or Boring Location [ ] State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet [ ] N [ ] S Feet [ ] E [ ] W
Facility ID	County: Milwaukee / County Code: 41	Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48/60		1.0	topsoil w/ organics 10YR 4/3 brown poorly sorted, medium to course sand with few gravel	SW	FILL		0.0						CTU008-SB04-0 @12 (1.5'-2.5
			3.0	10YR 4/3 brown lean clay with some sand low to medium plasticity	CL									CTU008-SB04-0 (6.5'-7.5
	52/60		5.0	medium plasticity near bottom				0.1						
			10.0	EOB@ 10.0' moist to wet 7.5'-8.0'										NM

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] KEN AECOM Firm: AECOM
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU008-SB05
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: Enviro-Dynamics, LLC	Date Drilling Started: 01/30/23 (MM/DD/YY)	Date Drilling Completed: 01/30/23 (MM/DD/YY) / Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL / Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee / County Code: 41	Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	42/60		1.0	topsoil w/ organics 10YR 5/3 light brown poorly sorted, medium sand with trace gravel	SW	FILL		1781						CTU008-SB05-0 @1130 (2.0'-3.0'
			3.0	10YR 5/3 light brown lean clay with few sand/silt										
	60/60		5.0	some fibrous organic material	CL									CTU008-SB05-0 @1135 (6.0'-7.0'
			7.0	moist to wet @ 7.0' to 7.5'				706						NW
			8.0	10YR 4/3 brown near bottom										
			10.0	EOB @ 10.0' wet @ 7.5'										
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature KEN AECOM Firm AECOM
1555 N RiverCenter Drive, Milwaukee, WI 53212

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
UST Preliminary Assessment/SI at General Mitchell Air Reservation		CTU008-SB06

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	01/30/23 (MM/DD/YY)	01/30/23 (MM/DD/YY)	DPT

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
1/4 of 1/4 of Section T N, R E/W
Lat ° ' "
Long ° ' "
Local Grid Location (if applicable): Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
	Milwaukee	41	City of Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48/60		0	topsoil w/organics										
			1.0	10YR 6/1 light grey coarse gravel with sand	GW									CTU008-SB06-01 @1430 (1.0'-2.0')
			2.0	10YR 5/4 brown medium to coarse poorly sorted sand with trace gravel	SW	FILL		0.0						
			3.0	lean clay 10YR 5/3 light brown low to medium plasticity										
	42/60		5.0		CL									CTU008-SB06-02 @1435 (6.0'-7.0') MS/MSD
			6.0	medium plasticity in middle										
			7.0	moist to wet 7.0'-7.5'				0.0						
			8.0	low plasticity near water										(M)
			9.0	10YR 4/3 brown lean clay with ~~sand~~ trace sand medium plasticity	CL									
	60/60		10.0											
			11.0	10YR 5/3 light brown lean clay trace sand medium plasticity	CL									
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature KEN AECOM | Firm **AECOM** 1555 N RiverCenter Drive, Milwaukee, WI 53212

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			12.0	See above										
			13.0	11										
			14.0											
			15.0	EOB @ 15.0'										
				wet @ 7.5'										
			16.0											
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU008-SB07
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 01/30/23 (MM/DD/YY)	Date Drilling Completed: 01/30/23 (MM/DD/YY)
	Drilling Method: DPT	
WI Unique Well No.	DNR Well ID No.	Well Name
Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	24/60		1.0	topsoil w/ organics some sand										
			2.0	10 YR 5/3 lean clay with some sand low-plasticity near top	CL			0.0						CTU008-SB07-0 @1100 (1.0'-2.0
			3.0											
			4.0											CTU008-SB07-0 @1105 (3.5'-4.5
	30/60		5.0	some fibrous organic material				0.0						
			6.0	medium plasticity										
			7.0											NM
			8.0	moist to wet @ 7.5' to 8.0'										
			9.0	low plasticity in water										
			10.0											
			11.0	EOBe 10.0' wet @ 7.5'										
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] KEN AECOM Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU008-SB08
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 01/30/23 (MM/DD/YY)	Date Drilling Completed: 01/30/23 (MM/DD/YY) / Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL / Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane ____ N, ____ E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID / County: Milwaukee / County Code: 41 / Civil Town/City/or Village: City of Milwaukee		

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36/60		0	topsoil w/ organics										
			1.0	10 YR 5/3 light brown poorly sorted, fine to medium sand loose, dry with some gravel				0.0						CTU008-SB08-0 @1330 (1.5'-2.5'
			4.0	trace gravel near bottom										
	36/60		5.0	10 YR 6/1 light gray course gravel				0.1						CTU008-SB08-0 @1335 (5'-7.5'
			6.0	10 YR 5/3, light brown poorly sorted fine to medium sand with some gravel										
			9.0	stained 10 YR 7/1 near bottom →				15.7						
			10.0	EOB @ 10.0' wet @ 7.5'										
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] KTEN AECOM Firm: **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater [ ] Waste Management [ ]
Remediation/Redevelopment [X] Other [ ]

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number:	Boring Number: CTU008-VP01
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 01/31/23 (MM/DD/YY)	Date Drilling Completed: 01/31/23 (MM/DD/YY)
		Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
		Borehole Diameter: 2 inches
Local Grid Origin [ ] (Estimated: [ ]) or Boring Location [ ] State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet [ ] N [ ] S Feet [ ] E [ ] W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	24/60		0	topsoil w/ organics	topsoil									
			1.0	10YR5/3 light brown medium to course Sand with gravel loose, dry [FILL]	FILL SW			0.0						
			2.0											
			3.0											
			4.0											
			5.0	EOB at 5.0'										
			6.0											
			7.0											
			8.0											
			9.0											
			10.0											
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: KGN AECOM Firm: **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number:	Boring Number: CTB008-VP02
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 01 / 31 / 23 (MM/ DD/ YY)	Date Drilling Completed: 01 / 31 / 23 (MM/ DD/ YY)
		Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
		Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36/60		1.0 2.0 3.0 4.0 5.0	10YR 5/3 light brown medium to course Sand with gravel loose, dry [FILL]	FILL			1.0						
			6.0 7.0 8.0 9.0 10.0 11.0 12.0	EOB @ 5.0'										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] KEN AECOM Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number:	Boring Number: CTUDDB-VP03
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 01/31/23 (MM/DD/YY)	Date Drilling Completed: 01/31/23 (MM/DD/YY) / Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL / Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee / County Code: 41	Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36/60		1.0	topsoil w/ organics	topsoil									
			2.0	~~coarse sand and~~ KEN gravel loose dry	GW			0.2						
			3.0	10YR 5/3 light brown medium to coarse sand with gravel loose, dry	SW									
			4.0											
			5.0	EOB @ 5.0'										
			6.0											
			7.0											
			8.0											
			9.0											
			10.0											
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] KEN AECOM Firm: **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number:	Boring Number: CTUGII-SB01
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02/01/23 (MM/DD/YY)	Date Drilling Completed: 02/01/23 (MM/DD/YY) / Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL / Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee / County Code: 41	Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36/60			concrete pad 6" thickness →										
			1.0	10YR 5/3 light brown medium to course sand with some gravel	SW			0.4						KEN CTUGII-SB01-01 @0830 (1.5'-2.5')
			4.0	more grad near top										
	60/60		5.0	moist to wet 5.5' to 6.0'				0.9						CTUGII-SB01-02 @0835 (5.0'-5.5')
			6.0	10 YR 5/3 light brown lean clay Soft 6.0'-9.0' low to medium plasticity 6.0'-9.0' ft	CL									
			9.0	medium plasticity 9.0'-15.0'										
	60/60		11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature KEN AECOM Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments

11

CL

EOBC 15.0'

wet @ 6.0'

Well set @ 14.5'

WGW
02/01/23

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU011-SB02
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Moses Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02/01/23 (MM/DD/YY)	Date Drilling Completed: 02/01/23 (MM/DD/YY)
Drilling Method: DPT		
WI Unique Well No.	DNR Well ID No.	Well Name
Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
Civil Town/City/or Village: City of Milwaukee		

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	30/60		0	Concrete pad 8" thickness										
			1.0	10YR 5/3 light brown medium to coarse sand with some gravel	SW			0.0						CTU011-SB02-01 @0900 (1.25'-2.25')
			2.0											
			3.0	10 YR 5/3 light brown lean clay with sand (some to few) gravel near top moist to wet @ (5.5'-6.0')										
			4.0											
	60/60		5.0		CL			0.0						CTU011-SB02-01 @0905 ~~(5.0'-6.0')~~ (4.5'-5.5') (W)
			6.0											
			7.0											
			8.0											
			9.0											
	60/60		10.0											
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] REN AECOM Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments

12.0
13.0
14.0
15.0

CL

EOB @ 15.0'
wet @ 6.0'
Well set @ 14.5'

16.0
17.0
18.0
19.0
20.0
21.0
22.0

HGN
02/01/23

23.0
24.0
25.0
26.0
27.0
28.0
29.0
30.0
31.0
32.0

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number:	Boring Number: CTU011 - SP03
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Moces Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02/01/23 (MM/DD/YY)	Date Drilling Completed: 02/01/23 (MM/DD/YY)
Drilling Method: DPT		
WI Unique Well No.	DNR Well ID No.	Well Name
Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
Civil Town/City/or Village: City of Milwaukee		

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	42/60		1.0	topsoil w/organics 10YR 4/3 brown fine to medium well sorted silty sand with trace gravel	SM			0.0						CTU011-SP03-01 @1130 (1.0'-2.0')
			2.0	10 YR 5/3 light brown poorly sorted, loose medium to course sand moist to wet	SW			0.0						
			3.0											
			4.0	10 YR 5/3 light brown lean clay with some sand (intermittant gravel layers) (low plasticity near top medium plasticity near bottom)	CL									CTU011-SP03-02 @1135 (2.0'-3.0')
	36/60		5.0											
			6.0											
			7.0											
			8.0											
			9.0	10 YR 6/1 light grey medium to course sand with gravel (crushed limestone)?	GW									
			10.0	EOB @ 10.0' wet @ 3.0'										
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] KEN AECOM Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number:	Boring Number: CTUOH-SA04
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02/01/23 (MM/DD/YY)	Date Drilling Completed: 02/01/23 (MM/DD/YY)
		Drilling Method: DPT
WI Unique Well No.	DNR Well ID No.	Well Name
Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36/60			topsoil w/ organics										
			1.0	10YR 4/3 brown fine to medium well sorted silty sand with gravel	SM			0.0						CTUOH SP04-01 @1200 (1.0'-2.0')
			2.0	10 YR 5/3 light brown poorly sorted, loose moist to wet medium to course sand	SW			0.0						
			3.0											
			4.0	10YR 5/3 light brown lean clay with gravel layers low plasticity ↓ medium plasticity	CL									CTUOH-SP04-02 @1205 (2.0'-3.0') (N)
	48/60		5.0											
			6.0											
			7.0											
			8.0											
			9.0	10 YR 6/1 light grey (crushed limestone)? sand with gravel medium to course	GW									
			10.0	EOB @ 10.0'										
			11.0	Wet @ 3.0'										
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] for AECOM Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number:	Boring Number: CTU011-SB05
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02/01/23 (MM/DD/YY)	Date Drilling Completed: 02/01/23 (MM/DD/YY)
		Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
		Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36/60		1.0	topsoil w/ organics →										
			2.0	10 YR 4/3 brown fine to medium sand with few to some gravel	SW/SP			0.0						CTU011-SB05-01 @ 1030 (1.5'-2.5')
			4.0	10 YR 5/3 light brown lean clay low plasticity with few gravel towards bottom	CL			0.1						
	36/60		6.0	10 YR 5/1 light grey/brown lean clay low plasticity with some gravel (all) moist to wet 6.0'-6.5'	CL									CTU011-SB05 @ 1035 (5.0'-6.0') (W)
			8.0	10 YR 5/1 course Sand and Gravel	GW									
			10.0	EOB @ 10.0' Wet @ 6.5'										
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] KEN AECOM Firm: **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
UST Preliminary Assessment/SI at General Mitchell Air Reservation		CTU011-SP06

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Rob Last Name: Moics Firm: **Enviro-Dynamics, LLC**	02/01/23 MM/ DD/ YY	02/01/23 MM/ DD/ YY	DPT

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	inches

Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
1/4 of 1/4 of Section T N, R E/W
Lat ° ' "
Long ° ' "
Local Grid Location (if applicable): Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
	Milwaukee	41	City of Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36/60		1.0	topsoil w/ organics → 10YR 5/4 4/3 brown lean clay with some sand and gravel towards bottom low plasticity	CL			0.0						CTU008-SB06-01 @ 1230 (1.0'-2.0')
			4.0	moist to wet @ 4.5'-5.0'				0.0						CTU008-SB06-02 @ 1235 (3.5'-4.5)
	36/60		5.0											
			6.0											
			7.0	10YR 5/1 light grey/brown 10YR 4/1 grey/brown lean clay	CL									
			8.0	10YR 6/1 light grey medium to course (crushed limestone) sand with gravel	SW?									
			9.0	10 YR 5/4 4/3 brown lean clay with few sand medium plasticity light top low plasticity bottom gravel near bottom	CL									
	60/60		10.0											
			11.0											
			12.0		CL									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature | Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			12.0	low plasticity										
			13.0	Same sediment 10YR 4/1 grey/brown lean clay with gravel low plasticity	CL									
			14.0											
			15.0	EOB @ 15.0										
			16.0	~~wet @ [illegible]~~										
			17.0	wet @ 5.0'										
			18.0	well set @ 14.0'										
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU011-SP07
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02/01/23 (MM/ DD/ YY)	Date Drilling Completed: 02/01/23 (MM/ DD/ YY)
		Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
		Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet ☐ N ☐ S Feet ☐ E ☐ W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36/60			asphalt →										
			1.0	10YR 4/3 brown lean clay with some sand and trace gravel				0.0						CTU011-SB07-01 @1300 (1.0'-2.0')
			2.0											
			3.0											
			4.0		CL			0.0						CTU011-SB07-02 @1305 (4.0'-5.0')
	36/60		5.0	moist to wet 5.5'-6.0'										
			6.0											
			7.0											
			8.0	10YR 6/1 light grey sand and gravel medium to course (crushed limestone?)	GW									
			9.0											
			10.0											
	60/60		11.0	10YR 4/1 (grey/brown) lean clay few sand trace gravel medium plasticity	CL									
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature KEN AECOM Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			12.0	11	CL									
			13.0											
			14.0											
			15.0	EOB @ 15.0' wet @ 5.0' well set @ 14.0'										
			16.0											
			17.0											
			18.0											
			19.0											
			20.0											
			21.0	MEN 02/01/23										
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
UST Preliminary Assessment/SI at General Mitchell Air Reservation		CTU011-SP08

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Rob Last Name: Meares Firm: **Enviro-Dynamics, LLC**	02/01/23 MM/ DD/ YY	02/01/23 MM/ DD/ YY	DPT

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
1/4 of 1/4 of Section T N, R E/W

Lat ° ' "
Long ° ' "

Local Grid Location (if applicable)
Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
	Milwaukee	41	City of Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	42/60			topsoil w/ organics →										
			1.0	10 YR 4/3 brown lean clay with some sand low plasticity trace gravel	CL			0.0						CTU011-SP08-01 @ 1400 (1.0'-2.0')
			2.0	10YR 5/3 light brown medium to course sand with gravel	SW			0.0						
			3.0	10YR 5/3 light brown lean clay low plasticity moist to wet 4.0-4.5'	CL									CTU011-SP08-02 @ 1405 (3.0'-4.0')
	60/60		5.0	10YR 4/3 lean clay brown with some sand medium plasticity	CL									
			7.0	10YR 4/1 gray/brown lean clay with some sand trace gravel medium plasticity	CL									
			9.0	10YR 6/1 crushed gravel with 10YR 4/1 gravel layer on top (PAD?)	GW									
			10.0	EOB @ 10.0' wet @ 4.5'										
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] MKW AECOM | Firm **AECOM** 1555 N RiverCenter Drive, Milwaukee, WI 53212

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
UST Preliminary Assessment/SI at General Mitchell Air Reservation		CTU011-SP09

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	02/01/23 (MM/ DD/ YY)	02/01/23 (MM/ DD/ YY)	DPT

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E S/C/N
1/4 of _____ 1/4 of Section _____ T _____ N, R _____ E/W

Lat ° ' "
Long ° ' "

Local Grid Location (if applicable)
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/or Village
	Milwaukee	41	City of Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48/60		0	topsoil w/ organics										
			1.0	~~10 YR 4/3 brown~~ KEW 02/01/23 10YR 5/3 tan clay ~~fine~~ KEW 02/01/23 ~~with Sand~~ with some sand and trace gravel	CL									CTU011-SP09-01 @1330 (1.0'-2.0' FD
			2.0											
			3.0											
			4.0	fibrous organic material moist to wet 4.5'-5.0'										CTU011-SP09-01 @1335 (3.5'-4.5'
	36/60		5.0											
			6.0											
			7.0											
			8.0	10YR 5/1 gray/brown medium to course Sand and gravel loose wet	GW									
			9.0											
			10.0	EOB @ 10.0' wet @ 4.75'										
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature KEW AECOM | Firm **AECOM** 1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater [ ] Waste Management [ ]
Remediation/Redevelopment [X] Other [ ]

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
UST Preliminary Assessment/SI at General Mitchell Air Reservation		CTU011-SP10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	02/01/23 (MM/ DD/ YY)	02/01/23 (MM/ DD/ YY)	DPT

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	inches

Local Grid Origin [ ] (Estimated: [ ]) or Boring Location [ ]
State Plane N, E S/C/N Lat ° ' "
1/4 of 1/4 of Section T N, R E/W Long ° ' "
Local Grid Location (if applicable) Feet [ ] N [ ] S Feet [ ] E [ ] W

Facility ID	County	County Code	Civil Town/City/or Village
	Milwaukee	41	City of Milwaukee

Sample: Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36/60		0.0	topsoil w/ organics →										
			0–2.5	10 YR 4/3 lean clay with some sand medium plasticity	CL									CTU011-SP10-01 @ 1415 (1.0'-2.0')
			2.5–4.0	10YR 5/3 with 10YR 6/1 m→c sand w/gravel	SW									
	60/60		4.0–10.5	10YR 5/3 lean clay few sand trace gravel medium plasticity moist to wet @ 5.0'-5.5' (pockets of low plasticity with high gravel content)	CL									CTU011-SP10-02 @ 1420 (4.0'-5.0')
	60/60		10.5–12.0	10YR 5/1 ↓										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [signature] KGW AECOM

Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments

12.0
13.0
14.0
15.0
16.0
17.0
18.0
19.0
20.0
21.0
22.0
23.0
24.0
25.0
26.0
27.0
28.0
29.0
30.0
31.0
32.0

11

CL

EOB @ 15.0
wet @ 5.25'
well set @ 14.0

MCN
02/01/23

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU011-SP11
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Rob Last Name: Mores — Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02/01/23 (MM/DD/YY)	Date Drilling Completed: 02/01/23 (MM/DD/YY) — Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL — Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ — State Plane N, E S/C/N — 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " — Long ° ' "	Local Grid Location (if applicable): Feet N/S Feet E/W
Facility ID	County: Milwaukee — County Code: 41	Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	48/60		0	topsoil w/ organic →										
			1.0	10YR ~~5/4~~ 4/3 brown lean clay some sand trace gravel low plasticity fibrous organic material	CL			0.0						
			3.0	moist to wet 3.5'-4.0'				0.0						CTU011-SP11-01 @1430 (1.0'-2.0')
			4.0	10YR 5/3 light brown lean clay some sand trace gravel low plasticity	CL									
	60/60		6.0											CTU011-SP11-02 @1435 (2.5'-3.5') FD
			7.0	10YR 3/1 dark grey/brown lean clay low plasticity few sand	CL									
			8.0	sand and gravel 10YR 5/1 with (10YR 3/1 clay pockets?)	GW									
			10.0											
			11.0	EOD @ 10.0' wet @ 4.0'										
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] KLN AECOM — Firm: **AECOM**, 1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Contract Number: FA890316D0053
Task Order: FA890321F1088

Page 1 of 1

Facility/Project Name: UST Preliminary Assessment/SI at General Mitchell Air Reservation	License/Permit/Monitoring Number	Boring Number: CTU011-SB12
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Rob Last Name: Mores Firm: **Enviro-Dynamics, LLC**	Date Drilling Started: 02/01/23 (MM/DD/YY)	Date Drilling Completed: 02/01/23 (MM/DD/YY)
		Drilling Method: DPT
WI Unique Well No. / DNR Well ID No. / Well Name	Final Static Water Level: Feet MSL	Surface Elevation: Feet MSL
		Borehole Diameter: 2 inches
Local Grid Origin ☐ (Estimated: ☐) or Boring Location ☐ State Plane N, E S/C/N 1/4 of 1/4 of Section T N, R E/W	Lat ° ' " Long ° ' "	Local Grid Location (if applicable) Feet N/S Feet E/W
Facility ID	County: Milwaukee	County Code: 41
		Civil Town/City/or Village: City of Milwaukee

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in feet	Soil / Rock Description and Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	36/60		0	Concrete Pad 12" thickness										
			1.0	10 YR 5/3 light brown medium to coarse sand and gravel	SW			0.0						CTU011-SB12-01 @0800 (1.5'-2.5')
			2.0											
			3.0											
			4.0											
			5.0	moist to wet @ 5.0-5.5				0.0 KEN						
	60/60		6.0	10 YR 5/3 light brown lean clay with some sand trace gravel near top	CL			21.0						CTU011-SB12-02 @0805 (4.5'-5.5') MS MSD
			7.0											
			8.0											
			9.0											
			10.0	EOB @ 10.0 wet @ 5.5										
			11.0											
			12.0											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature KEN AECOM Firm **AECOM**
1555 N RiverCenter Drive, Milwaukee, WI 53212

This form is authorized by Chapters281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Well Construction Forms

This page intentionally left blank.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name **UST Preliminary Assessment/SI at General Mitchell Air Reservation**	Local Grid Location of Well ft N S ft E W	Well Name CTU006-SB01 / CTU006-TW01
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. Long or	Wis. Unique Well No / DNR Well Id No.
Facility ID	St. Plane ft N ft E S/C/N	Date Well Installed 02 / 02 / 2023 m m d d y y y y
Type of Well Well Code ____ / ____	Section Location of Waste/Source ___ 1/4 of ___ of Sec. ___, T, ____N, R ____ W ☑ E ☐	Well Installed By: Name (first, last) and Firm **Rob Mores**
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot No. **Enviro-Dynamics, LLC**

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ Ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☑ CH ☑
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☑ No

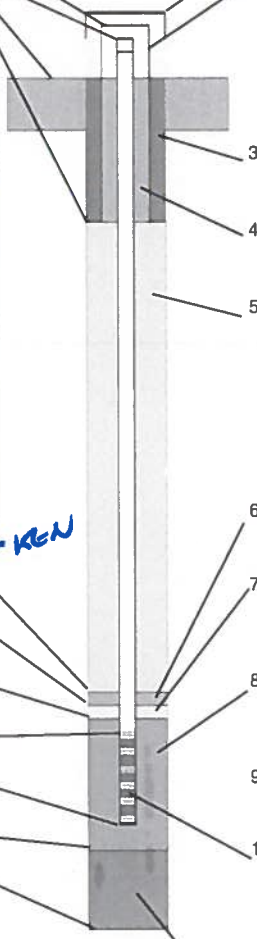
14 Drilling method used: Rotary ☑ 50
Hollow Stem Auger ☐ 41
~~Other DPT~~ ☐ MGN

15 Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16 Drilling additives used? ☐ Yes ☑ No
Describe ____

17. Source of water (attach analysis, if required):
Enviro-Dynamics, LLC MGN

E Bentonite seal, top ____ ft. MSL 0.5 ft.
F. Fine sand, top ____ ft. MSL 2.50 ft.
G. Filter Pack, top ____ ft. MSL 3.00 ft.
H. Screen joint, top ____ ft. MSL 4.00 ft.
I. Well Bottom ____ ft. MSL 14.00 ft.
J. Filter Pack, bottom ____ ft. MSL 14.75 ft.
K. Borehole, bottom ____ ft. MSL 15.00 ft.
L. Borehole, diameter ____ In..
M. O.D. well casing ____ In..
N. I.D. well casing ____ In..



1. Cap and lock? ☑ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 12. In.
b. Length: 1. Ft.
c. Material: Steel ☑ 04
Other ☐ .
d. Additional Protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☑ 30
Concrete ☐ 01
Other ☐ .
4. material between well casing and protective pipe:
Bentonite ☒ 30
Other ☐ .
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. 0.75 bags ____ volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie Pumped ☐ 02
Gravity ☒ 08
6. Bentonite Seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☑ 3/8 in. ☐ 1/2 in. Bentonite Chips ☐ 32
c. 0.5 bag Other ☐ .
7. Fine sand material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bag
8. Filter pack material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bags
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐ .
☐ .
10. Screen Material: PVC
a. screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐ .
b. Manufacturer monoflex
b. Slot size: 0.1 in.
c. slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 4
Formation Slough Other ☒ .

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	AECOM 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☑ Other ☐

Facility/Project Name **UST Preliminary Assessment/SI at General Mitchell Air Reservation**	Local Grid Location of Well ft N S E W	Well Name CTU006-SB04 / CTU006-TW02
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. Long or	Wis. Unique Well No / DNR Well Id No.
Facility ID	St. Plane ft N ft E S/C/N	Date Well Installed 02/ 02/ 2023 m m d d y y y y
Type of Well Well Code ____ / ____	Section Location of Waste/Source ___ 1/4 of ___ of Sec. ___, T, ____ N, R ____ W ☑ E ☐	Well Installed By: Name (first, last) and Firm **Rob Mores** **Enviro-Dynamics, LLC**
Distance from Waste/Source ____ ft. Enf. Stds. Apply ☐	Location of Well relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot No.

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ Ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☑ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☑ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☑ No

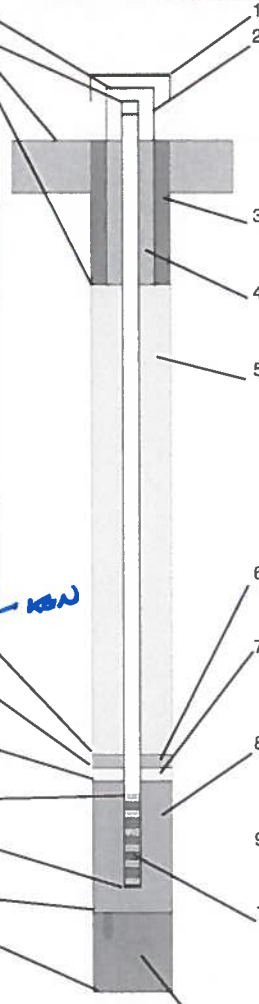
14 Drilling method used: Rotary ☑ 50
Hollow Stem Auger ☐ 41
Other: DPT ☑ KEN

15 Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☑ 99

16 Drilling additives used? ☐ Yes ☑ No
Describe ____

17. Source of water (attach analysis, if required):
Enviro-Dynamics, LLC

E Bentonite seal, top ____ ft. MSL 0.5 1.00 ft. KEN
F. Fine sand, top ____ ft. MSL 3.00 ft.
G. Filter Pack, top ____ ft. MSL 3.50 ft.
H. Screen joint, top ____ ft. MSL 4.50 ft.
I. Well Bottom ____ ft. MSL 9.50 ft.
J. Filter Pack, bottom ____ ft. MSL 9.75 ft.
K. Borehole, bottom ____ ft. MSL 10.00 ft.
L. Borehole, diameter ____ In..
M. O.D. well casing ____ In..
N. I.D. well casing ____ In..



1. Cap and lock? ☑ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 12. In.
b. Length: 1. Ft.
c. Material: Steel ☑ 14 Other ☐ .
d. Additional Protection? ☐ Yes ☑ No
If yes, describe: ____
3. Surface seal: Bentonite ☑ 30 Concrete ☐ 01 Other ☐ .
4. material between well casing and protective pipe: Bentonite ☑ 30 Other ☐ .
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e 0.5 bags ____ volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie Pumped ☐ 02 Gravity ☑ 08
6. Bentonite Seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☑ 3/8 in. ☐ 1/2 in. Bentonite Chips ☐ 32
c. 0.5 bag Other ☐ .
7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint ☑ .
b. Volume added 0.25 bag
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint ☑ .
b. Volume added 0.25 bags
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐ .
10. Screen Material: PVC ☐ .
a. screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ .
b. Manufacturer monoflex
b. Slot size: 0.1 in.
c. slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 4 Other ☒ .
Formation Slough

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	AECOM 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☑ Other ☐

Facility/Project Name **UST Preliminary Assessment/SI at General Mitchell Air Reservation**	Local Grid Location of Well ft N S ft E W	Well Name CTU007-SB01 / CTU007-TW01
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. Long or	Wis. Unique Well No / DNR Well Id No.
Facility ID	St. Plane ft N ft E S/C/N	Date Well Installed 02 / 06 / 2023 m m d d y y y y
Type of Well Well Code ____ / ____	Section Location of Waste/Source ___ 1/4 of ___ of Sec. ___, T, ___ N, R ___ W ☑ E ☐	Well Installed By: Name (first, last) and Firm **Rob Mores** **Enviro-Dynamics, LLC**
Distance from Waste/Source ____ ft. Enf. Stds. Apply ☐	Location of Well relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot No.

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ Ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14 Drilling method used: Rotary ☒ 50
Hollow Stem Auger ☐ 41
~~Other: DPT~~ ☑ MEN

15 Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16 Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
Enviro-Dynamics, LLC MEN

E Bentonite seal, top ____ ft. MSL 0.5 ft.
F. Fine sand, top ____ ft. MSL 3.00 ft.
G. Filter Pack, top ____ ft. MSL 3.50 ft.
H. Screen joint, top ____ ft. MSL 4.50 ft.
I. Well Bottom ____ ft. MSL 14.50 ft.
J. Filter Pack, bottom ____ ft. MSL 14.75 ft.
K. Borehole, bottom ____ ft. MSL 15.00 ft.
L. Borehole, diameter ____ In..
M. O.D. well casing ____ In..
N. I.D. well casing ____ In..

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 12. In.
b. Length: 1. Ft.
c. Material: Steel ☒ 24 Other ☐ .
d. Additional Protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 30 Concrete ☐ 01 Other ☐ .
4. material between well casing and protective pipe: Bentonite ☒ 30 Other ☐ .
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 03
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. 0.75 bags volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie Pumped ☐ 02 Gravity ☒ 08
6. Bentonite Seal: a. Bentonite granules ☒ 03
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite Chips ☐ 32
c. 0.5 bag Other ☐ .
7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bag
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bags
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐ .
10. Screen Material: PVC ☐ .
a. screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ .
b. Manufacturer monoflex
b. Slot size: 0.1 in.
c. slotted length: ____ ft.
11. Backfill material (below filter pack): None ☐ 14 Other ☒ .
Formation Slough

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature ____ Firm **AECOM**
1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name **UST Preliminary Assessment/SI at General Mitchell Air Reservation**	Local Grid Location of Well ft N S ft E W	Well Name CTU007 - SB03) CTU007 - TW02
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. Long or	Wis. Unique Well No / DNR Well Id No.
Facility ID	St. Plane ft N ft E S/C/N	Date Well Installed 02 / 06 / 2023 m m d d y y y y
Type of Well Well Code ____ / ____	Section Location of Waste/Source ___ 1/4 of ___ of Sec. ___, T, ____ N, R ____ W ☑ E ☐	Well Installed By: Name (first, last) and Firm **Rob Mores** **Enviro-Dynamics, LLC**
Distance from Waste/Source ____ ft. Enf. Stds. Apply ☐	Location of Well relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot No.

A. Protective pipe, top elevation ft. MSL
B. Well casing, top elevation ft. MSL
C. Land surface elevation ft. MSL
D. Surface seal, bottom ft. MSL or ____ Ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☑ SW ☑ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☑ No

14 Drilling method used: Rotary ☑ 50
Hollow Stem Auger ☐ 41
~~Other: DPT~~ ☑ NEW

15 Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☑ 99

16 Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
Enviro-Dynamics LLC

E Bentonite seal, top ____ ft. MSL 0.5 ~~1.00~~ NEW ft.
F. Fine sand, top ____ ft. MSL 5.00 ft.
G. Filter Pack, top ____ ft. MSL 5.50 ft.
H. Screen joint, top ____ ft. MSL 6.50 ft.
I. Well Bottom ____ ft. MSL 11.50 ft.
J. Filter Pack, bottom ____ ft. MSL 11.75 ft.
K. Borehole, bottom ____ ft. MSL 12.00 ft.
L. Borehole, diameter ____ In..
M. O.D. well casing ____ In..
N. I.D. well casing ____ In..

1. Cap and lock? ☑ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 12. In.
b. Length: 1. Ft.
c. Material: Steel ☑ 14
Other ☐ .
d. Additional Protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☑ 30
Concrete ☐ 01
____ Other ☐ .
4. material between well casing and protective pipe:
Bentonite ☒ 30
____ Other ☐ .
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. 0.5 bags ____ volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie Pumped ☐ 02
Gravity ☑ 08
6. Bentonite Seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☑ 3/8 in. ☐ 1/2 in. Bentonite Chips ☐ 32
c. 0.5 bag Other ☐ .
7. Fine sand material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bag
8. Filter pack material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bags
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
____ Other ☐ .
10. Screen Material: PVC ☐ .
a. screen type: Factory cut ☒ 11
Continuous slot ☐ 01
____ Other ☐ .
b. Manufacturer monoflex
b. Slot size: 0.1 in.
c. slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 14
____ Other ☒ .

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	AECOM 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name **UST Preliminary Assessment/SI at General Mitchell Air Reservation**	Local Grid Location of Well ft N S E W	Well Name CTU007-SB06/ CTU007-TW03
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. Long or	Wis. Unique Well No / DNR Well Id No.
Facility ID	St. Plane ft N ft E S/C/N	Date Well Installed 02 / 06 / 2023 m m d d yyyy
Type of Well Well Code ____ / ____	Section Location of Waste/Source ___ 1/4 of ___ of Sec. ___, T, ___ N, R ___ W ☑ E ☐	Well Installed By: Name (first, last) and Firm **Rob Mores** **Enviro-Dynamics, LLC**
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot No.

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ Ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14 Drilling method used: Rotary ☒ 50
Hollow Stem Auger ☐ 41
~~Other: DPT~~ ☑ HSA

15 Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16 Drilling additives used? ☐ Yes ☑ No
Describe ____

17. Source of water (attach analysis, if required):
Enviro-Dynamics LLC HSA

E Bentonite seal, top ____ ft. MSL 0.5 ft.
F. Fine sand, top ____ ft. MSL 3.00 ft.
G. Filter Pack, top ____ ft. MSL 3.50 ft.
H. Screen joint, top ____ ft. MSL 4.50 ft.
I. Well Bottom ____ ft. MSL 14.50 ft.
J. Filter Pack, bottom ____ ft. MSL 14.75 ft.
K. Borehole, bottom ____ ft. MSL 15.00 ft.
L. Borehole, diameter ____ In..
M. O.D. well casing ____ In..
N. I.D. well casing ____ In..

1. Cap and lock? ☑ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 12. In.
b. Length: 1. Ft.
c. Material: Steel ☒ 04
Other ☐ .
d. Additional Protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 30
Concrete ☐ 01
Other ☐ .
4. material between well casing and protective pipe:
Bentonite ☒ 30
Other ☐ .
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. 0.75 bags volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie Pumped ☐ 02
Gravity ☒ 08
6. Bentonite Seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite Chips ☐ 32
c. 0.5 bag Other ☐ .
7. Fine sand material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bag
8. Filter pack material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bags
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐ .
10. Screen Material: PVC ☐ .
a. screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐ .
b. Manufacturer monoflex
b. Slot size: 0.1 in.
c. slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 14
Formation Slough Other ☒ .

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	AECOM 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

Facility/Project Name **UST Preliminary Assessment/SI at General Mitchell Air Reservation**	Local Grid Location of Well ft N S ft E W	Well Name CTU000B-SB01 / CTU000B-TW01
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. Long or	Wis. Unique Well No / DNR Well Id No.
Facility ID	St. Plane ft N ft E S/C/N	Date Well Installed 01 / 30 / 2023 m m d d y y y y
Type of Well Well Code ____ / ____	Section Location of Waste/Source ___ 1/4 of ___ of Sec. ___, T, ____ N, R ____ W ☐ E ☑	Well Installed By: Name (first, last) and Firm **Rob Mores** **Enviro-Dynamics, LLC**
Distance from Waste/Source ____ ft. Enf. Stds. Apply ☐	Location of Well relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot No.

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ Ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☒ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14 Drilling method used: Rotary ☒ 50
Hollow Stem Auger ☐ 41
~~Other: DPT~~ ☒ KEW

15 Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16 Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
Enviro-Dynamics, LLC

E Bentonite seal, top ~~0.5~~ 1.0 ft. MSL KEW
F. Fine sand, top ~~3.25~~ KEW 3.00 ft. MSL
G. Filter Pack, top ~~3.50~~ KEW 3.50 ft. MSL
H. Screen joint, top ~~4.50~~ KEW 4.50 ft. MSL
I. Well Bottom ~~14.50~~ KEW 14.50 ft. MSL
J. Filter Pack, bottom ~~14.75~~ KEW 14.75 ft. MSL
K. Borehole, bottom ~~15.0~~ KEW 15.00 ft. MSL
L. Borehole, diameter 8 In..
M. O.D. well casing 2 In..
N. I.D. well casing ____ In..

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 12. In.
b. Length: 1. Ft.
c. Material: Steel ☒ 04
Other ☐ .
d. Additional Protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 30
Concrete ☐ 01
Other ☐ .
4. material between well casing and protective pipe:
Bentonite ☒ 30
Other ☐ .
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. 0.75 bags volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie Pumped ☐ 02
Gravity ☒ 08
6. Bentonite Seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite Chips ☐ 32
c. 0.5 bag Other ☐ .
7. Fine sand material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bag
8. Filter pack material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bags
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐ .
10. Screen Material: PVC ☐ .
a. screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐ .
b. Manufacturer monoflex
b. Slot size: 0.1 in.
c. slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 4
Formation Slough Other ☒ .

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature | Firm **AECOM**
1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐

Facility/Project Name **UST Preliminary Assessment/SI at General Mitchell Air Reservation**	Local Grid Location of Well ft N S ft E W	Well Name CTU 008-SB02 / CTU 008-TW02
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. Long or	Wis. Unique Well No / DNR Well Id No.
Facility ID	St. Plane ft N ft E S/C/N	Date Well Installed 01 / 30 / 2023 m m d d y y y y
Type of Well Well Code ____ / ____	Section Location of Waste/Source ___ 1/4 of ___ of Sec. ___, T. ____ N, R ____ W ☐ E ☑	Well Installed By: Name (first, last) and Firm **Rob Mores** **Enviro-Dynamics, LLC**
Distance from Waste/Source ____ ft. Enf. Stds. Apply ☐	Location of Well relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot No.

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ Ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☒
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

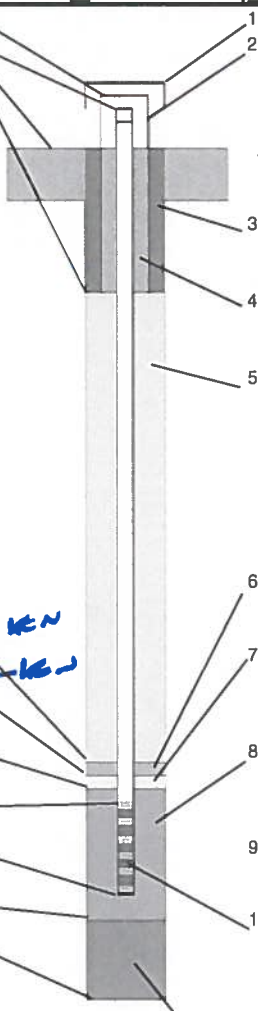
14 Drilling method used: Rotary ☒ 50
Hollow Stem Auger ☐ 41
~~Other: DPT~~ ☑ KEN

15 Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16 Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
Enviro-Dynamics, LLC

E Bentonite seal, top	____ ft. MSL	0.5 ~~1.00~~ KEN	ft.
F. Fine sand, top	____ ft. MSL	4.00 ~~5.00~~ KEN	ft.
G. Filter Pack, top	____ ft. MSL	5.00	ft.
H. Screen joint, top	____ ft. MSL	6.00	ft.
I. Well Bottom	____ ft. MSL	11.00	ft.
J. Filter Pack, bottom	____ ft. MSL	11.75	ft.
K. Borehole, bottom	____ ft. MSL	12.00	ft.
L. Borehole, diameter	____ In..		
M. O.D. well casing	____ In..		
N. I.D. well casing	____ In..		



1. Cap and lock? ☑ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 12. In.
b. Length: 1. Ft.
c. Material: Steel ☒ 04
Other ☐ .
d. Additional Protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 30
Concrete ☐ 01
Other ☐ .
4. material between well casing and protective pipe:
Bentonite ☒ 30
Other ☐ .
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. 0.25 bags volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie Pumped ☐ 02
Gravity ☒ 08
6. Bentonite Seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite Chips ☐ 32
c. 0.5 bag Other ☐ .
7. Fine sand material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bag
8. Filter pack material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bags
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐ .
10. Screen Material: PVC ☐ .
a. screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐ .
b. Manufacturer monoflex
b. Slot size: 0.1 in.
c. slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☐ 14
Formation Slough Other ☒ .

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	AECOM 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name **UST Preliminary Assessment/SI at General Mitchell Air Reservation**	Local Grid Location of Well ft N S ft E W	Well Name CTU008-SB06 CTU008-TW03
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. Long or	Wis. Unique Well No / DNR Well Id No.
Facility ID	St. Plane ft N ft E S/C/N	Date Well Installed 01 / 30 / 2023 m m d d y y y y
Type of Well Well Code ____ / ____	Section Location of Waste/Source ___ 1/4 of ___ of Sec. ___, T. ____ N, R ____ W ☐ E ☑	Well Installed By: Name (first, last) and Firm **Rob Mores** **Enviro-Dynamics, LLC**
Distance from Waste/Source ____ ft. Enf. Stds. Apply ☐	Location of Well relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot No.

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ Ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14 Drilling method used: Rotary ☑ 50
Hollow Stem Auger ☐ 41
~~Other: DPT~~ ☑ KEN

15 Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16 Drilling additives used? ☐ Yes ☑ No
Describe ____

17. Source of water (attach analysis, if required):
Enviro-Dynamics, LLC

E Bentonite seal, top ____ ft. MSL 0.5 LO KEN ft.
F. Fine sand, top ____ ft. MSL 3.00 ft.
G. Filter Pack, top ____ ft. MSL 3.50 ft.
H. Screen joint, top ____ ft. MSL 4.50 ft.
I. Well Bottom ____ ft. MSL 14.50 ft.
J. Filter Pack, bottom ____ ft. MSL 14.75 ft.
K. Borehole, bottom ____ ft. MSL 15.00 ft.
L. Borehole, diameter ____ In..
M. O.D. well casing ____ In..
N. I.D. well casing ____ In..

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 12. In.
b. Length: 1. Ft.
c. Material: Steel ☒ 04
Other ☐ .
d. Additional Protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 30
Concrete ☐ 01
Other ☐ .
4. material between well casing and protective pipe:
Bentonite ☒ 30
Other ☐ .
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e 0.25 bags volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie Pumped ☐ 02
Gravity ☒ 08
6. Bentonite Seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite Chips ☐ 32
c. 0.5 bag Other ☐ .
7. Fine sand material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bag
8. Filter pack material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bags
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐ .
10. Screen Material: PVC ☐ .
a. screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐ .
b. Manufacturer monoflex
b. Slot size: 0.1 in.
c. slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 14
Formation Slough Other ☒ .

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature | Firm **AECOM**
1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name **UST Preliminary Assessment/SI at General Mitchell Air Reservation**	Local Grid Location of Well ft N S ft E W	Well Name CTJ #11 - SB01 / CTJ #11 - TW01
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. Long or	Wis. Unique Well No / DNR Well Id No.
Facility ID	St. Plane ft N ft E S/C/N	Date Well Installed 02 / 01 / 2023 m m d d y y y y
Type of Well Well Code ____ / ____	Section Location of Waste/Source ___ 1/4 of ___ of Sec. ___, T. ___ N, R ___ W ☐ E ☑	Well Installed By: Name (first, last) and Firm **Rob Mores** **Enviro-Dynamics, LLC**
Distance from Waste/Source ____ ft. Enf. Stds. Apply ☐	Location of Well relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot No.

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ Ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

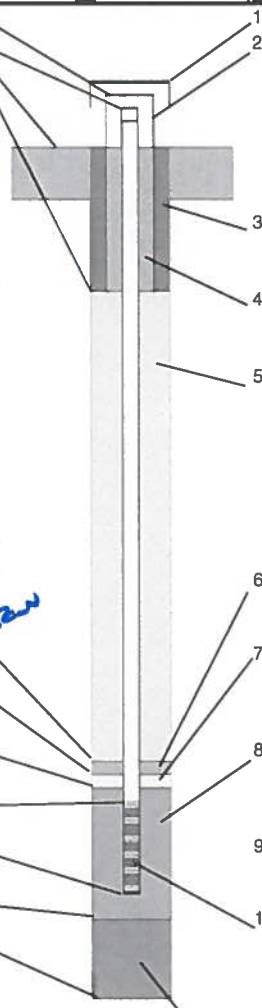
14 Drilling method used: Rotary ☒ 50
Hollow Stem Auger ☐ 41
~~Other: DPT~~ ☑ KEW

15 Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16 Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
Enviro-Dynamics, LLC KEW

E Bentonite seal, top ____ ft. MSL 0.5 ~~+0~~ KEW ft.
F. Fine sand, top ____ ft. MSL 3.00 ft.
G. Filter Pack, top ____ ft. MSL 3.50 ft.
H. Screen joint, top ____ ft. MSL 4.50 ft.
I. Well Bottom ____ ft. MSL 14.50 ft.
J. Filter Pack, bottom ____ ft. MSL 14.75 ft.
K. Borehole, bottom ____ ft. MSL 15.00 ft.
L. Borehole, diameter ____ In..
M. O.D. well casing ____ In..
N. I.D. well casing ____ In..



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 12. In.
b. Length: 1. Ft.
c. Material: Steel ☒ 24
Other ☐ .
d. Additional Protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☒ 30
Concrete ☐ 01
Other ☐ .
4. material between well casing and protective pipe:
Bentonite ☒ 30
Other ☐ .
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. 0.75 bags volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie Pumped ☐ 02
Gravity ☒ 08
6. Bentonite Seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite Chips ☐ 32
c. 0.5 bag Other ☐ .
7. Fine sand material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bag
8. Filter pack material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bags
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐ .
10. Screen Material: PVC ☐ .
a. screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐ .
b. Manufacturer monoflex
b. Slot size: 0.1 in.
c. slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 4
Formation Slough Other ☒ .

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature | Firm **AECOM**
1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☑ Other ☐

Facility/Project Name **UST Preliminary Assessment/SI at General Mitchell Air Reservation**	Local Grid Location of Well ft N S ft E W	Well Name CTU011-SB02 / CTU011-TW02
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. Long or	Wis. Unique Well No / DNR Well Id No.
Facility ID	St. Plane ft N ft E S/C/N	Date Well Installed 02 / 01 / 2023 m m d d y y y y
Type of Well Well Code ____ / ____	Section Location of Waste/Source ___ 1/4 of ___ of Sec. ___, T, ____ N, R ____ W ☑ E ☐	Well Installed By: Name (first, last) and Firm **Rob Mores**
Distance from Waste/Source ____ ft. Enf. Stds. Apply ☐	Location of Well relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot No. **Enviro-Dynamics, LLC**

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ Ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☑ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14 Drilling method used: Rotary ☑ 50
Hollow Stem Auger ☐ 41
~~Other: DPT~~ ☐ KEN

15 Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☑ 99

16 Drilling additives used? ☐ Yes ☑ No
Describe ____

17. Source of water (attach analysis, if required):
Enviro-Dynamics, LLC KEN

E Bentonite seal, top ____ ft. MSL 0.5 ~~1.0~~ ft.
F. Fine sand, top ____ ft. MSL 3.00 ft.
G. Filter Pack, top ____ ft. MSL 3.50 ft.
H. Screen joint, top ____ ft. MSL 4.50 ft.
I. Well Bottom ____ ft. MSL 14.50 ft.
J. Filter Pack, bottom ____ ft. MSL 14.75 ft.
K. Borehole, bottom ____ ft. MSL 15.00 ft.
L. Borehole, diameter ____ In..
M. O.D. well casing ____ In..
N. I.D. well casing ____ In..

1. Cap and lock? ☑ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 12. In.
b. Length: 1. Ft.
c. Material: Steel ☑ 14
Other ☐ .
d. Additional Protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☑ 30
Concrete ☐ 01
____ Other ☐ .
4. material between well casing and protective pipe:
Bentonite ☒ 30
____ Other ☐ .
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. 0.75 bags volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie Pumped ☐ 02
Gravity ☒ 08
6. Bentonite Seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite Chips ☐ 32
c. 0.5 bag Other ☐ .
7. Fine sand material:
Manufacturer, product name & mesh size
a. Red Flint ☑ .
b. Volume added 0.25 bag
8. Filter pack material:
Manufacturer, product name & mesh size
a. Red Flint ☑ .
b. Volume added 0.25 bags
9. Well casing: Flush threaded PVC schedule 40 ☑ 23
Flush threaded PVC schedule 80 ☐ 24
____ Other ☐ .
10. Screen Material: PVC ☐ .
a. screen type: Factory cut ☑ 11
Continuous slot ☐ 01
____ Other ☐ .
b. Manufacturer monoflex
b. Slot size: 0.1 in.
c. slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 4
Formation Slough Other ☑ .

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	AECOM 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name **UST Preliminary Assessment/SI at General Mitchell Air Reservation**	Local Grid Location of Well ft N S ft E W	Well Name CTO 911 - SB06 CTO 911 - TW03
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. Long or	Wis. Unique Well No / DNR Well Id No.
Facility ID	St. Plane ft N ft E S/C/N	Date Well Installed 02 / 01 / 2023 m m d d y y y y
Type of Well Well Code ____ / ____	Section Location of Waste/Source ___ 1/4 of ___ of Sec. ___, T, ____N, R ____ W ☐ E ☑	Well Installed By: Name (first, last) and Firm **Rob Mores**
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot No. **Enviro-Dynamics, LLC**

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ Ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☑ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☑ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☑ No

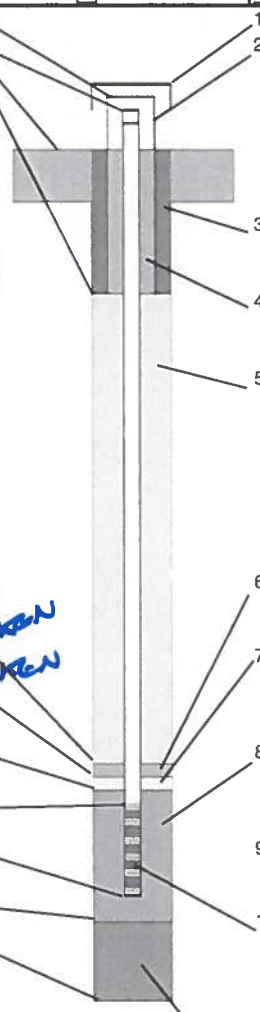
14 Drilling method used: Rotary ☑ 50
Hollow Stem Auger ☐ 41
~~Other: DPT~~ ☑ KEN

15 Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☑ 99

16 Drilling additives used? ☐ Yes ☑ No
Describe ____

17. Source of water (attach analysis, if required):
Enviro-Dynamics, LLC

E Bentonite seal, top ____ ft. MSL 0.5 ~~1.0~~ KEN ft.
F. Fine sand, top ____ ft. MSL 2.5 ~~2.00~~ KEN ft.
G. Filter Pack, top ____ ft. MSL 3.00 ft.
H. Screen joint, top ____ ft. MSL 4.00 ft.
I. Well Bottom ____ ft. MSL 14.00 ft.
J. Filter Pack, bottom ____ ft. MSL 14.75 ft.
K. Borehole, bottom ____ ft. MSL 15.00 ft.
L. Borehole, diameter ____ In..
M. O.D. well casing ____ In..
N. I.D. well casing ____ In..



1. Cap and lock? ☑ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 12. In.
b. Length: 1. Ft.
c. Material: Steel ☑ 04
Other ☐ .
d. Additional Protection? ☐ Yes ☑ No
If yes, describe: ____
3. Surface seal: Bentonite ☑ 30
Concrete ☐ 01
Other ☐ .
4. material between well casing and protective pipe:
Bentonite ☑ 30
Other ☐ .
5. Annular space seal: a. Granular/Chipped Bentonite ☑ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. 0.75 bags volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie Pumped ☐ 02
Gravity ☑ 08
6. Bentonite Seal: a. Bentonite granules ☑ 33
b. ☐ 1/4 in. ☑ 3/8 in. ☐ 1/2 in. Bentonite Chips ☐ 32
c. 0.5 bag Other ☐ .
7. Fine sand material:
Manufacturer, product name & mesh size
a. Red Flint ☑ .
b. Volume added 0.25 bag
8. Filter pack material:
Manufacturer, product name & mesh size
a. Red Flint ☑ .
b. Volume added 0.25 bags
9. Well casing: Flush threaded PVC schedule 40 ☑ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐ .
10. Screen Material: PVC ☐ .
a. screen type: Factory cut ☑ 11
Continuous slot ☐ 01
Other ☐ .
b. Manufacturer monoflex
b. Slot size: 0.1 in.
c. slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 4
Formation Slough Other ☑ .

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature | Firm **AECOM**
1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☑ Other ☐

Facility/Project Name **UST Preliminary Assessment/SI at General Mitchell Air Reservation**	Local Grid Location of Well ft N S E W	Well Name CTU011 - SB07/ CTU011 - TW04
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. Long or	Wis. Unique Well No / DNR Well Id No.
Facility ID	St. Plane ft N ft E S/C/N	Date Well Installed 02 / 01 / 2023 m m d d y y y y
Type of Well Well Code ____ / ____	Section Location of Waste/Source ___ 1/4 of ___ of Sec. ___, T, ___ N, R ___ W ☐ E ☑	Well Installed By: Name (first, last) and Firm **Rob Mores** **Enviro-Dynamics, LLC**
Distance from Waste/Source ____ ft. Enf. Stds. Apply ☐	Location of Well relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot No.

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ Ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☑ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☑ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☑ No

14 Drilling method used: Rotary ☑ 50; Hollow Stem Auger ☐ 41; ~~Other: DPT~~ ☑ KEN

15 Drilling fluid used: Water ☐ 02 Air ☐ 01; Drilling Mud ☐ 03 None ☑ 99

16 Drilling additives used? ☐ Yes ☑ No
Describe ____

17. Source of water (attach analysis, if required):
Enviro-Dynamics, LLC

E Bentonite seal, top ____ ft. MSL 0.5 ~~1.00~~ KEN ft.
F. Fine sand, top ____ ft. MSL 2.50 ~~3.00~~ KEN ft.
G. Filter Pack, top ____ ft. MSL 3.00 ft.
H. Screen joint, top ____ ft. MSL 4.00 ft.
I. Well Bottom ____ ft. MSL 14.00 ft.
J. Filter Pack, bottom ____ ft. MSL 14.75 ft.
K. Borehole, bottom ____ ft. MSL 15.00 ft.
L. Borehole, diameter ____ In..
M. O.D. well casing ____ In..
N. I.D. well casing ____ In..

1. Cap and lock? ☑ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 12. In.
b. Length: 1. Ft.
c. Material: Steel ☑ 04; Other ☐ .
d. Additional Protection? ☐ Yes ☑ No
If yes, describe: ____
3. Surface seal: Bentonite ☑ 30; Concrete ☐ 01; Other ☐ .
4. material between well casing and protective pipe: Bentonite ☑ 30; Other ☐ .
5. Annular space seal: a. Granular/Chipped Bentonite ☑ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. 0.75 bags ____ volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie Pumped ☐ 02; Gravity ☑ 08
6. Bentonite Seal: a. Bentonite granules ☑ 33
b. ☐ 1/4 in. ☑ 3/8 in. ☐ 1/2 in. Bentonite Chips ☐ 32
c. 0.5 bag Other ☐ .
7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint ☑ .
b. Volume added 0.25 bag
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint ☑ .
b. Volume added 0.25 bags
9. Well casing: Flush threaded PVC schedule 40 ☑ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ .
10. Screen Material: PVC ☐ .
a. screen type: Factory cut ☑ 11; Continuous slot ☐ 01; Other ☐ .
b. Manufacturer monoflex
b. Slot size: 0.1 in.
c. slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 4; Other ☑ .
Formation Slough

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	AECOM 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☑ Other ☐

Facility/Project Name **UST Preliminary Assessment/SI at General Mitchell Air Reservation**	Local Grid Location of Well ft N S ft E W	Well Name CTU011 - SB10 / CTU011 - TW05
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. Long or	Wis. Unique Well No / DNR Well Id No.
Facility ID	St. Plane ft N ft E S/C/N	Date Well Installed 02 / 01 / 2023 m m d d y y y y
Type of Well Well Code ____ / ____	Section Location of Waste/Source ___ 1/4 of ___ of Sec. ___, T. ____ N, R ____ W ☑ E ☐	Well Installed By: Name (first, last) and Firm **Rob Mores** **Enviro-Dynamics, LLC**
Distance from Waste/Source ____ ft. Enf. Stds. Apply ☐	Location of Well relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot No.

A. Protective pipe, top elevation ____ ft. MSL
B. Well casing, top elevation ____ ft. MSL
C. Land surface elevation ____ ft. MSL
D. Surface seal, bottom ____ ft. MSL or ____ Ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

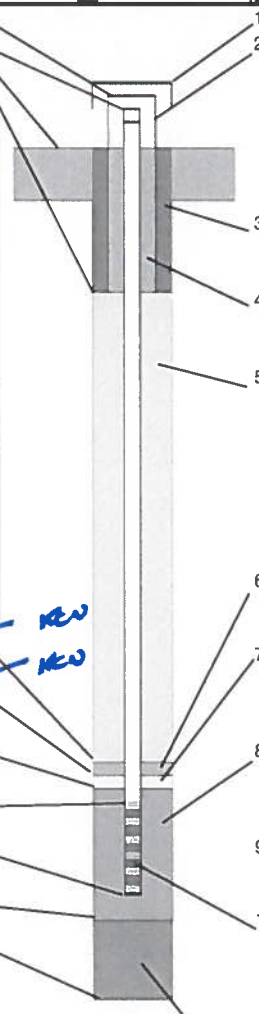
14 Drilling method used: Rotary ☑ 50
Hollow Stem Auger ☐ 41
~~Other: DPT~~ ☑ KEW

15 Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 09

16 Drilling additives used? ☐ Yes ☒ No
Describe ____

17. Source of water (attach analysis, if required):
Enviro-Dynamics, LLC

E Bentonite seal, top ____ ft. MSL 0.5 ~~1.00~~ KEW ft.
F. Fine sand, top ____ ft. MSL 2.50 ~~3.00~~ KEW ft.
G. Filter Pack, top ____ ft. MSL 3.00 ft.
H. Screen joint, top ____ ft. MSL 4.00 ft.
I. Well Bottom ____ ft. MSL 14.00 ft.
J. Filter Pack, bottom ____ ft. MSL 14.75 ft.
K. Borehole, bottom ____ ft. MSL 15.00 ft.
L. Borehole, diameter ____ In..
M. O.D. well casing ____ In..
N. I.D. well casing ____ In..



1. Cap and lock? ☑ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 12. In.
b. Length: 1. Ft.
c. Material: Steel ☒ 04 Other ☐ .
d. Additional Protection? ☐ Yes ☒ No
If yes, describe: ____
3. Surface seal: Bentonite ☑ 30 Concrete ☐ 01 Other ☐ .
4. material between well casing and protective pipe: Bentonite ☒ 30 Other ☐ .
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight... Bentonite slurry ☐ 31
d. ____ % Bentonite..... Bentonite-cement grout ☐ 50
e. 0.75 bags volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie Pumped ☐ 02 Gravity ☒ 08
6. Bentonite Seal: a. Bentonite granules ☒ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite Chips ☐ 32
c. 0.5 bag Other ☐ .
7. Fine sand material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bag
8. Filter pack material:
Manufacturer, product name & mesh size
a. Red Flint ☒ .
b. Volume added 0.25 bags
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐ .
10. Screen Material: PVC ☐ .
a. screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ .
b. Manufacturer monoflex
b. Slot size: 0.1 in.
c. slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 4 Other ☒ .
Formation Slough

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	AECOM 1555 RiverCenter Drive, Suite 214, Milwaukee, Wisconsin, 53212

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. Note: See the instructions for more information, including where the completed forms should be sent.

Water Levels

This page intentionally left blank.

GROUNDWATER LEVEL MEASUREMENT SHEET

Installation/Facility: GMIA ASF UST SI Site ID(s): CTU006 and CTU007
Location: Milwaukee, WI Personnel: Keith Nielsen and Sarah Jackson
Weather Conditions: see Field Notes Measuring Device: Water Level Indicator / Inter-phase probe
Remarks: N/a

Well Number	Date	Time	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Free Product (feet)*	Comments (condition of well)
CTU006 TW02	02/08/23	0905	8.50	5.25	Ø	minimal drawdown
CTU006 TW01	02/08/23	0900	13.86	3.71	Ø	minimal drawdown
CTU007 TW01	02/08/23	1145	12.89	4.10	Ø	minimal drawdown
CTU007 TW02	02/08/23	1130	11.63	4.53	Ø	minimal drawdown
CTU007 TW03	02/08/23	1150	13.73	4.08	Ø	minimal drawdown

KGN 02/08/23

* All measurements to the nearest 0.01 foot

GROUNDWATER LEVEL MEASUREMENT SHEET

Installation/Facility: GMIA ASF UST SI Site ID(s): CTU008 and CTU011
Location: Milwaukee, WI Personnel: Keith Nielsen (Aecom)
Weather Conditions: see field notes Measuring Device: Water Level Indicator / Inter-phase probe
Remarks: n/a

Well Number	Date	Time	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Free Product (feet)*	Comments (condition of well)
CTU008 TW01	02/07/23	0930	14.90	0.50	Ø	
TW02		0935	11.60	7.79	Ø	
TW03		0940	14.90	14.57	Ø	pumped dry
CTU011 TW01		1105	13.60	11.61	Ø	
TW02		1100	13.68	11.45	Ø	
TW03		1055	14.85	5.27	Ø	
TW04		1040	13.94	5.32	Ø	
TW05		1050	13.60	13.60	Ø	dry

KCN 02/07/23

* All measurements to the nearest 0.01 foot

Groundwater Purging and Sampling Forms

This page intentionally left blank.

GROUNDWATER SAMPLING RECORD

Project Name: UST PA/SI General Mitchell Air Reserve Station Project No.

Installation:		Initial Depth to Water:	7.79
Well ID:	CTU008 - TW02	Depth to Water After Sampling:	7.74
Sample ID:		Total Depth of Well:	11.60
Duplicate ID:		Well Diameter (inches):	2
Sample Depth:	Well screen interval	1 Casing Volume (gal):	0.62
Date:	2/7/23	3 Casing Volumes (gal):	1.86
Sample Collection Time:	1500	Total Volumes Removed:	~ 4.0
Sample Container Type:		Sample Technician:	JDM
Preservative:		Method of Purging:	Low flow
Analysis/Method:		Pump Intake Depth (feet):	at bottom
Method of Sampling:	Low flow	Measuring Point (toc, tor, etc.):	TOC

Time	Water Level (feet)	Flow Rate (ml/min)	Cum. Vol. (gal.)	Temp. (°C)	pH (units)	Specific Electrical Conductance (~~mS/cm~~ uS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Comments (color, sediment, etc.)
2 JDM	Stabilization Criteria			±0.5°C	±0.1	±5%	±10%	±10%	±10% and <10 NTU	
1440	7.65	150	-	7.6	-	0.2	33.1	-	>1000	
JDM 1445	7.7	150		7.8	-	0.2	27.7	-	132	
2										
1430	7.7	150	-	7.9	-	0.2	27.5	-	45.9	
1435	7.71	150	~1	7.7	-	0.2	24.0	-	28.5	
1440	7.71	150	~2	7.7	-	665	26.3	-	19.3	
JDM ~~1450~~										
1450	7.7	150		7.4	-	671	29.2	-	63.9	
1500	7.74	200	~2.5	7.6	-	674	20.5	-	33.9	Collected sample @1500

Instruments (Manufacturer, Model, and Serial No.):

YSI ProSolo

Geotech ~~2100 a te~~ JDM Geopump peristaltic pump

Hach 2100 Q Turbidity meter

Calculations:

1" diameter = 0.041 gal/ft

2" diameter = 0.163 gal/ft

4" diameter = 0.653 gal/ft

6" diameter = 1.47 gal/ft

Notes: Specific conductance readings of 0.2 likely erroneous – submerging probe deeper resulted in higher reading (i.e 0.2 vs 665)

Minimal drawdown during purging

Sample Technician Name(s) and Signature(s):

Jeff Maletzke Jeffrey D Maletzke

QA/QC'd by: **Date:**

GROUNDWATER SAMPLING RECORD

Project Name: UST PA/SI General Mitchell Air Reserve Station Project No. -0m

Installation:		Initial Depth to Water:	~~12.08~~ 11.61
Well ID:	CTU011 - TW01	Depth to Water After Sampling:	13.60
Sample ID:		Total Depth of Well:	13.60
Duplicate ID:		Well Diameter (inches):	2
Sample Depth:	Well screen interval	1 Casing Volume (gal):	0.32
Date:	2/7/23	3 Casing Volumes (gal):	0.97
Sample Collection Time:	1330	Total Volumes Removed:	~4.7
Sample Container Type:		Sample Technician:	JDM
Preservative:		Method of Purging:	Low flow
Analysis/Method:		Pump Intake Depth (feet):	at bottom
Method of Sampling:	Low flow	Measuring Point (toc, tor, etc.):	TOC

Time	Water Level (feet)	Flow Rate (ml/min)	Cum. Vol. (gal.)	Temp. (°C)	pH (units)	Specific Electrical Conductance (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Comments (color, sediment, etc.)
Stabilization Criteria				±0.5°C	±0.1	±3%	±10%	±10%	±10% and <10 NTU	
1300	11.55	150		7.4	-	0.2	64.3		52	
1310	11.83	150		8.8	-	0.2	59.9	-	19	
1315	12.08	150	-	9	-	0.2	60.9	-	20.8	
1320	12.3	150	~1	8.7	-	0.2	60.5	-	13.1	
1330	13.60	150	~1.5	4.5	-	0.2	77.8	-	20.6	Collect Sample @ 1330
										- purged dry during
										Sample Collection
										but able to fill all
										containers

Instruments (Manufacturer, Model, and Serial No.):

YSI ProSolo
Geotech Geopump peristaltic pump
Hach 2100 Q Turbidity meter

Calculations:
1" diameter = 0.041 gal/ft
2" diameter = 0.163 gal/ft
4" diameter = 0.653 gal/ft
6" diameter = 1.47 gal/ft

Notes: Specific Conductance readings likely erroneous (see note for CTU008-TW02

Sample Technician Name(s) and Signature(s): Jeff Maletzke Jeffrey D. Maletzke

QA/QC'd by: **Date:** **Page 1 of 1**

GROUNDWATER SAMPLING RECORD

Project Name: UST PA/SI General Mitchell Air Reserve station Project No.

Installation:		Initial Depth to Water:	11.45
Well ID:	CTUOII - TW02	Depth to Water After Sampling:	12.8
Sample ID:		Total Depth of Well:	13.68
Duplicate ID:		Well Diameter (inches):	2
Sample Depth:	Screened interval	1 Casing Volume (gal):	0.36
Date:	2/7/23	3 Casing Volumes (gal):	1.08
Sample Collection Time:	1245	Total Volumes Removed:	~5.5
Sample Container Type:		Sample Technician:	JPM
Preservative:		Method of Purging:	
Analysis/Method:		Pump Intake Depth (feet):	at bottom
Method of Sampling:	Low flow	Measuring Point (toc, tor, etc.):	TOC

Time	Water Level (feet)	Flow Rate (ml/min)	Cum. Vol. (gal.)	Temp. (°C)	pH (units)	Specific Electrical Conductance (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Comments (color, sediment, etc.)
Stabilization Criteria				±0.5°C	±0.1	±3%	±10%	±10%	±10% and <10 NTU	
1210	11.6	150		8.1	—	2.6	72.1	—	223	
1215	12.1	150		8.5	-	2.3	64.8		221	
1220	12.3	150		8.9	-	2.1	63.2		133	
1230	12.5	150	~1	8.9	-	2.1	64.8		85.3	
1235	12.7	150	1.5	8.3	-	2.3	67.1		24.3	
1245	12.8	150	2	7.6	-	2.4	61.0		23	Collect sample @ 1245

Instruments (Manufacturer, Model, and Serial No.):

YSI ProSolo

Geotech Geopump peristaltic pump

HACH 2100Q Turbidity meter

Calculations:

1" diameter = 0.041 gal/ft

2" diameter = 0.163 gal/ft

4" diameter = 0.653 gal/ft

6" diameter = 1.47 gal/ft

Notes: Minimal draw down during purging

Sample Technician Name(s) and Signature(s): Jeff Maletzke Jeffrey D Maletzke

QA/QC'd by: **Date:** **Page 1 of ___**

GROUNDWATER SAMPLING RECORD

Project Name: UST PA/SI General Mitchell Air Reserve Station Project No.

Installation:		Initial Depth to Water:	5.32
Well ID:	CTU-011-TW04	Depth to Water After Sampling:	5.98
Sample ID:		Total Depth of Well:	13.94
Duplicate ID:		Well Diameter (inches):	2
Sample Depth:		1 Casing Volume (gal):	1.40
Date:	2/7/23	3 Casing Volumes (gal):	4.2
Sample Collection Time:	1145	Total Volumes Removed:	~3.6
Sample Container Type:		Sample Technician:	JDM
Preservative:		Method of Purging:	Low flow peristaltic
Analysis/Method:		Pump Intake Depth (feet):	at bottom
Method of Sampling:	Low flow	Measuring Point (toc, tor, etc.):	TOC

Time	Water Level (feet)	Flow Rate (ml/min)	Cum. Vol. (gal.)	Temp. (°C)	pH (units)	Specific Electrical Conductance (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Comments (color, sediment, etc.)
Stabilization Criteria				±0.5°C	±0.1	±3% .45/cm	±10%	±10%	±10% and <10 NTU	
from 1037	1020 ~~5.32~~	~~150~~	JDM							
	~~1029~~ 5.42	150		6.7	-	0.2	65.3	-	124	
	1040 5.55	150		5.8	-		70.6	-	223	
	1045 5.7	150		6.4	-		59.2			
	1053 5.7	150		7.1	-	4.2	51.3		767	
	1058 5.8	200		6.7	-	4.0	54.2	-	>1000	
	1105 5.85	200	~2	7.0	-	3.2	51.3	-	>1.000	
	1110 5.85	200	2.5	7.1	-	3.7	43.8	-	911	
	1115 5.9	200	2.7	6.9	-	223.2	43.1	-	376	
	1122 5.9	200	~3	6.7	-	234.3	38.3	-	224	
	1130 5.95	200	~4	6.6	-	469.4	37.1	-	155	
	1145 5.98	200	~5	6.2	-	284.1	41.4		~~86~~ 6	Collected GW Spl @ 1145

Instruments (Manufacturer, Model, and Serial No.):

YSI ProSolo

Masterflex model 7518-32 peristaltic

HACH 2100Q Turbidity meter

Calculations:

1" diameter = 0.041 gal/ft

2" diameter = 0.163 gal/ft

4" diameter = 0.653 gal/ft

6" diameter = 1.47 gal/ft

$(13.94 - 5.32) \times 0.163 = 1.40$ gal = one well volume

Notes: Minimal drawdown during purging

Sample Technician Name(s) and Signature(s): Jeff Maletzke Jeffrey D Maletzke

QA/QC'd by: **Date:** **Page 1 of 1**

Field Well Sampling Sheet

Fill out the entire form. If it does not apply, mark N/A.

Project Name:	GMIA ASF UST SI	Project No.	60676873.4
Location:	Milwaukee, WI	Tester:	Keith Nielsen
Well Number:	CTU008-TW03	Date Sampled:	TBD
Previous Well Sampled:	CTU011-TW03		

AECOM

GENERAL CONDITIONS:

							If Missing Replaced?	
Surface Seal:	[x]	Ok	[ ]	Damaged	[ ]	Missing:	Yes	No
Protector Pipe:	[x]	Ok	[ ]	Damaged	[ ]	Missing:	Yes	No
Well Cap:	[x]	Ok	[ ]	Damaged	[ ]	Missing:	Yes	No
Ambient Temperature:	30 °F		[ ]	Clear	[x] Cloudy	[ ] Rain		

WELL DATA:

Measuring Device:	Proslo YSI Solonist WLM	
Stick Up or Down:	Flushmount	(from Ground Surface)
Depth to Water:	14.57	(from TPVC)
Depth to Bottom:	14.90	(from TPVC)
Length of Water:	0.33	
Free Product Observed:	[ ] Yes [x] No	Thickness: n/a

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume

Purging Device:	Peristaltic Pump	Sampling Device:	~~Grab~~ Proslo YSI
Volume Required:	(0.053) x 3	[x]	See back of page for field readings during purge
Volume Purged:	0.16 gallons	Hach 2100Q Turbidimeter	
Could Well Bail Dry?	[x] Yes [ ] No		
Purging - Time Start:	1420	Time Ended:	1423
Decon Method:	Alconox and DI Water		

IN-SITU TESTING:

Turbidity:	[ ] Turbid [ ] Opaque
Odor:	
Color	
pH @	degrees C
Temp. Corr. Conductivity:	Yes
Water Temp. (from Cond.):	
Comments:	n/a

SAMPLES COLLECTED

[ ]	VOCs	[ ]	Ammonia	[ ]	Metals (diss)
[ ]	SVOCs	[ ]	Nitrate	[ ]	Mercury (diss)
[ ]	Chloride	[ ]	Ammonia	[ ]	
[ ]	Fluoride	[ ]	COD	[ ]	
[ ]	Sulfate	[ ]	TDS	[ ]	
[ ]	Phenolics	[ ]		[ ]	

KGD 02/07/23

Well Purging Log

Date 02/07/23

DO

Time	Temp	pH	Spec. Cond.	~~ORP~~ KLN	Turbidity	Depth to Water
1420	7.8	n/a	0.1	9.35	52.0	14.57
1423	8.0	↓	0.1	9.30	133.7	14.90

* well purged dry
** specific conductance readings of 0.1 likely erroneous - submerge probe deeper **

KLN 02/07/23

Field Well Sampling Sheet

Fill out the entire form. If it does not apply, mark N/A.

Project Name:	GMIA ASF UST SI	Project No.	60676873.4
Location:	Milwaukee, WI	Tester:	Keith Nielsen
Well Number:	CTUOII-TWO3	Date Sampled:	02/07/23
Previous Well Sampled:	N/A		

AECOM

GENERAL CONDITIONS:

						If Missing Replaced?	
Surface Seal:	[X] Ok	[ ] Damaged		[ ] Missing:		Yes	No
Protector Pipe:	[X] Ok	[ ] Damaged		[ ] Missing:		Yes	No
Well Cap:	[X] Ok	[ ] Damaged		[ ] Missing:		Yes	No
Ambient Temperature:	30 °F	[ ] Clear	[X] Cloudy	[ ] Rain			

WELL DATA:

Measuring Device:	Prosolo YSI KEN Solonist WLM	
Stick Up or Down:	Flushmount	(from Ground Surface)
Depth to Water:	5.27	(from TPVC)
Depth to Bottom:	14.85	(from TPVC)
Length of Water:	9.58	
Free Product Observed:	[ ] Yes [X] No	Thickness: n/a

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume

Purging Device:	Peristaltic Pump	Sampling Device:	Prosolo YSI Peristaltic Pump KEN
Volume Required:	(1.56) x 3 = 4.68 gal	[X] See back of page for field readings during purge	
Volume Purged:	5 gal	Hach 2100 Q Turbidimeter	
Could Well Bail Dry?	[ ] Yes [X] No		
Purging - Time Start:	1200	Time Ended:	1305
Decon Method:	Alconox and DI Water		

IN-SITU TESTING:

Turbidity:	[ ] Turbid [X] Opaque
Odor:	none
Color	opaque
pH @	n/a degrees C
Temp. Corr. Conductivity:	Yes
Water Temp. (from Cond.):	
Comments:	See COC

SAMPLES COLLECTED

[X]	VOCs	[ ]	Ammonia	[X]	Metals ~~(diss)~~ KEN TOTAL Pb
[X]	SVOCs	[ ]	Nitrate	[ ]	Mercury (diss)
[ ]	Chloride	[ ]	Ammonia	[ ]	
[ ]	Fluoride	[ ]	COD	[ ]	
[ ]	Sulfate	[ ]	TDS	[ ]	
[ ]	Phenolics	[ ]		[ ]	

KEN 02/07/23

Well Purging Log

Date 02/07/23

Time	Temp (°C)	pH	Spec. Cond. (µS/cm)	ORP (DO mg/L)	Turbidity (NTU)	Depth to Water (ft)
1200	6.6	n/a	0.1	~~9.93~~ KEN 9.93	>1000	5.27
1205	6.6		0.1	9.75	190	5.41
1210	6.8		0.1	9.32	144	5.47
1215	7.6		0.1	8.34	204	5.49
1220	7.4		0.1	8.21	175	5.51
1225	7.6		0.1	7.73	105	5.52
1230	7.4		0.1	7.79	74.1	5.54
1235	7.3		0.1	7.06	72.4	5.54
1240	7.4		0.1	6.90	87.4	5.54
1245	7.6		0.1	6.82	47.6	5.54
1250	7.7		0.1	6.65	60.3	5.55
1255	7.7		0.1	6.56	29.3	5.57
1300 sample time	7.7		0.1	6.48	20.7	5.58
1305 pump off	7.7		0.1	6.42	29.2	5.60

* minimal drawdown during purging
* specific conductance readings of 0.1 likely erroneous – submerge probe deeper *

KEW 02/07/23

Field Well Sampling Sheet

Fill out the entire form. If it does not apply, mark N/A.

Project Name: GMIA ASF UST SI | Project No. 60676873.4

Location: Milwaukee, WI | Tester: Keith Nielsen

Well Number: CTU008-TW01 | Date Sampled: 02/07/23

Previous Well Sampled: CTU008-TW03

AECOM

GENERAL CONDITIONS:

						If Missing Replaced?	
Surface Seal:	☐ Ok	☐ Damaged		☐ Missing:		Yes	No
Protector Pipe:	☐ Ok	☐ Damaged		☐ Missing:		Yes	No
Well Cap:	☐ Ok	☐ Damaged		☐ Missing:		Yes	No
Ambient Temperature:	°F	☐ Clear	☐ Cloudy	☐ Rain			

WELL DATA:

Measuring Device: Solonist WLM

Stick Up or Down: Flushmount (from Ground Surface)

Depth to Water: 0.50 (from TPVC)

Depth to Bottom: 14.90 (from TPVC)

Length of Water: 14.40

Free Product Observed: ☐ Yes ☒ No Thickness: 0.0

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume

Purging Device: Peristaltic Pump | Sampling Device: Proflo YSI

Volume Required: (2.34) x3 | ☐ See back of page for field readings during purge

Volume Purged: 7.0 gallons Hach 2100 Q Turbidimeter

Could Well Bail Dry? ☐ Yes ☒ No

Purging - Time Start: | Time Ended:

Decon Method: Alconox and DI Water

IN-SITU TESTING:

Turbidity: ☐ Turbid ☐ Opaque

Odor:

Color

pH @ degrees C

Temp. Corr. Conductivity: Yes

Water Temp. (from Cond.):

Comments: See COC

SAMPLES COLLECTED

☐	VOCs	☐	Ammonia	☐	Metals (diss)
☐	SVOCs	☐	Nitrate	☐	Mercury (diss)
☐	~~Chloride~~	☐	Ammonia	☐	
☐	Fluoride	☐	COD	☐	
☐	Sulfate	☐	TDS	☐	
☐	Phenolics	☐		☐	

02/07/23

Well Purging Log

Date _____

Time	Temp	pH	Spec. Cond.	DO ~~ORP~~	Turbidity	Depth to Water
1435	6.5	n/a	211.8	9.52	>1000	2.01
1440	4.2		270.2	10.87	>1000	3.97
1445	5.0		264.6	10.39	95.7	4.27
1450	6.4		1127.	10.24	353	4.41
1455	7.3		1118	9.80	352	5.21
1500	7.1		1115	9.73	298	5.25
1505	6.7		1120	9.41	300	5.47
1510	6.7		1045	9.93	251	5.70
1515	6.7		1043	9.89	212	5.84
1520	6.6		1109	9.92	>1000	5.91
1525	6.4		1030	10.03	>1000	6.29
1530	6.5		1002	9.79	>1000	6.35
1535	6.4		1006	9.86	>1000	6.57
1540	6.0		908	10.22	>1000	6.78
1545	6.2		845	10.23	>1000	7.42
1550	6.2		843	10.17	>1000	7.56
1555	6.5		814	10.29	>1000	7.79
1600	6.4		810	10.27	>1000	7.94
1605	6.2		819	10.25	>1000	8.08

Sample time collected

* minimal drawdown during purging
* specific conductance readings corrected.

KGN 02/07/23

Field Well Sampling Sheet

Fill out the entire form. If it does not apply, mark N/A.

Project Name:	GMIA ASF UST SI	Project No.	60676873.4
Location:	Milwaukee, WI	Tester:	Keith Nielsen
Well Number:	CTU006-TW02	Date Sampled:	02/08/23
Previous Well Sampled:	N/A		

AECOM

GENERAL CONDITIONS:

						If Missing Replaced?	
Surface Seal:	[X] Ok	[ ] Damaged		[ ] Missing:		Yes	No
Protector Pipe:	[X] Ok	[ ] Damaged		[ ] Missing:		Yes	No
Well Cap:	[X] Ok	[ ] Damaged		[ ] Missing:		Yes	No
Ambient Temperature:	30 °F	[X] Clear	[ ] Cloudy	[ ] Rain			

WELL DATA:

Measuring Device:	Solonist WLM	
Stick Up or Down:	+ Wshmark	(from Ground Surface)
Depth to Water:	5.25	(from TPVC)
Depth to Bottom:	8.50	(from TPVC)
Length of Water:	3.25	
Free Product Observed:	[ ] Yes [X] No	Thickness: 0.0

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume

Purging Device:	Peristaltic Pump	Sampling Device:	Prosolo YSI
Volume Required:	(0.52) x 3	[X]	See back of page for field readings during purge
Volume Purged:	3 gallons		
Could Well Bail Dry?	[ ] Yes [X] No		
Purging - Time Start:	0915	Time Ended:	1010
Decon Method:	Alconox and DI Water		

IN-SITU TESTING:

Turbidity:	[ ] Turbid [ ] Opaque
Odor:	
Color	
pH @	degrees C
Temp. Corr. Conductivity:	Yes
Water Temp. (from Cond.):	
Comments:	See CoC

SAMPLES COLLECTED

[ ] VOCs	[ ] Ammonia	[ ] Metals (diss)
[ ] SVOCs	[ ] Nitrate	[ ] Mercury (diss)
[ ] Chloride	[ ] Ammonia	[ ]
[ ] Fluoride	[ ] COD	[ ] KEN 02/08/23
[ ] Sulfate	[ ] TDS	[ ]
[ ] Phenolics		[ ]

Well Purging Log

Date 02/08/23

Time	Temp	pH	Spec. Cond.	DO ORP	Turbidity	Depth to Water
0920	6.9	✓	1260	10.44	>1000	5.30
0925	6.8		1331	10.48	>1000	5.31
0930	6.7		1337	9.93	73.1	5.30
0935	6.8		2744	9.92	128	5.30
0940	6.7		2618	9.89	43.6	5.30
0945	6.9		2873	9.92	37.6	5.30
0950	6.8		2908	9.87	22.3	5.30
0955	6.8		2902	9.87	10.6	5.30
1000	6.8		2907	9.88	18.9	5.30
1005	6.5		2917	9.86	7.87	5.30
Sample time 1010	6.6		2923	9.86	7.17	5.30
pump off 1015	6.5	↓	2919	9.86	10.03	5.30

* minimal drawdown (WL steady)

HCN 02/08/23

Field Well Sampling Sheet

Fill out the entire form. If it does not apply, mark N/A.

Project Name:	GMIA ASF UST SI	Project No.	60676873.4
Location:	Milwaukee, WI	Tester:	Keith Nielsen
Well Number:	CTU006-TW01	Date Sampled:	02/08/23
Previous Well Sampled:	CTU006-TW02		

AECOM

GENERAL CONDITIONS:

						If Missing Replaced?	
Surface Seal:	[X] Ok	[ ] Damaged		[ ] Missing:		Yes	No
Protector Pipe:	[X] Ok	[ ] Damaged		[ ] Missing:		Yes	No
Well Cap:	[X] Ok	[ ] Damaged		[ ] Missing:		Yes	No
Ambient Temperature:	30 °F	[X] Clear	[ ] Cloudy	[ ] Rain			

WELL DATA:

Measuring Device:	Solonist WLM	
Stick Up or Down:	Flushmount	(from Ground Surface)
Depth to Water:	3.71	(from TPVC)
Depth to Bottom:	13.86	(from TPVC)
Length of Water:	10.15	
Free Product Observed:	[ ] Yes [X] No	Thickness: 0.0

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume

Purging Device:	Peristaltic Pump	Sampling Device:	Prosolo YSI
Volume Required:	(1.65) x 3	[X]	See back of page for field readings during purge
Volume Purged:	~~4.~~ 5.0 gallons		
Could Well Bail Dry?	[ ] Yes [X] No		
Purging - Time Start:	1025	Time Ended:	1125
Decon Method:	Alconox and DI Water		

IN-SITU TESTING:

Turbidity:	[ ] Turbid [ ] Opaque
Odor:	
Color	
pH @	degrees C
Temp. Corr. Conductivity:	Yes
Water Temp. (from Cond.):	
Comments:	See COC

SAMPLES COLLECTED

[ ] VOCs	[ ] Ammonia	[ ] Metals (diss)
[ ] SVOCs	[ ] Nitrate	[ ] Mercury (diss)
[ ] Chloride	[ ] Ammonia	[ ]
[ ] Fluoride	[ ] COD	[ ]
[ ] Sulfate	[ ] TDS	[ ]
[ ] Phenolics	[ ]	[ ]

KEN 02/08/23

Well Purging Log

Date 02/08/23

Time	Temp	pH	Spec. Cond.	~~ORP~~ DO (mg/L)	Turbidity (NTU)	Depth to Water
1025	6.7	n/a	3866	9.05	64.4	4.12
1030	7.0		3509	8.78	40.7	4.12
1035	7.3		3484	8.46	33.6	4.14
1040	7.5		3422	8.40	29.4	4.15
1045	7.6		3299	8.41	92.3	4.29
1050	7.8		3064	8.38	50.7	4.49
1055	7.9		2965	8.37	41.1	4.61
1100	8.2		2743	8.29	8.54	4.78
1105	8.3		2616	8.26	23.7	4.84
1110	8.4		2507	8.23	9.36	4.96
1115	8.5		2494	8.22	7.58	5.02
1120	8.5		2490	8.20	7.07	5.05
1125	8.6		2486	8.22	9.13	5.17

Gayle Hill pump off

~~minimal~~ new

~~minimal~~ drawdown

KEW
02/08/23

Field Well Sampling Sheet

Fill out the entire form. If it does not apply, mark N/A.

Project Name:	GMIA ASF UST SI	Project No.	60676873.4
Location:	Milwaukee, WI	Tester:	Keith Nielsen
Well Number:	CTW007-TW03	Date Sampled:	02/08/23
Previous Well Sampled:	CTW006-TW01		

AECOM

GENERAL CONDITIONS:

						If Missing Replaced?	
Surface Seal:	[X] Ok	[ ] Damaged		[ ] Missing:		Yes	No
Protector Pipe:	[X] Ok	[ ] Damaged		[ ] Missing:		Yes	No
Well Cap:	[X] Ok	[ ] Damaged		[ ] Missing:		Yes	No
Ambient Temperature:	30 °F	[X] Clear	[ ] Cloudy	[ ] Rain			

WELL DATA:

Measuring Device:	Solonist WLM	
Stick Up or Down:	Flushmount	(from Ground Surface)
Depth to Water:	4.08	(from TPVC)
Depth to Bottom:	13.73	(from TPVC)
Length of Water:	9.65	
Free Product Observed:	[ ] Yes [X] No	Thickness: Ø

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume

Purging Device:	Peristaltic Pump	Sampling Device:	Prosolo YSI
Volume Required:	(1.57) x3	[X]	See back of page for field readings during purge
Volume Purged:	5.0		
Could Well Bail Dry?	[ ] Yes [X] No		
Purging - Time Start:	1200	Time Ended:	1305
Decon Method:	Alconox and DI Water		

IN-SITU TESTING:

Turbidity:	[ ] Turbid [ ] Opaque
Odor:	
Color	
pH @	degrees C
Temp. Corr. Conductivity:	Yes
Water Temp. (from Cond.):	
Comments:	See COC

SAMPLES COLLECTED

[ ] VOCs	[ ] Ammonia	[ ] Metals (diss)
[ ] SVOCs	[ ] Nitrate	[ ] Mercury (diss)
[ ] Chloride	[ ] Ammonia	
[ ] Fluoride	[ ] COD	
[ ] Sulfate	[ ] TDS	
[ ] Phenolics		

KEN 02/08/23

Well Purging Log

Date 02/08/23

Time	Temp	pH	Spec. Cond.	DO mg/L ~~ORP~~	Turbidity	Depth to Water
1200	7.7	n/a	687	7.68	>1000	4.10
1205	7.2		656	0.40	>1000	4.08
1210	7.4		631	4.58	>1600	4.08
1215	7.7		637	4.44	211	4.08
1220	7.7		628	4.41	174	4.08
1225	7.7		~~629~~ 629	4.41	170	4.08
1230	7.7		~~628~~ 628	4.41	278	4.08
1235	7.6		632	4.39	144	4.08
1240	7.6		633	4.37	157	4.08
1245	7.5		634	4.27	139	4.08
1250	7.5		635	4.20	114	4.08
1255	7.5		635	4.02	95.0	4.08
1300	7.5		638	4.09	57.2	4.08
1305	7.4		646	4.12	92.8	4.08

Sample line purged

Field Well Sampling Sheet

Fill out the entire form. If it does not apply, mark N/A.

Project Name:	GMIA ASF UST SI	Project No.	60676873.4
Location:	Milwaukee, WI	Tester:	Keith Nielsen
Well Number:	CTU##7 - TW#1	Date Sampled:	02/08/23
Previous Well Sampled:	CTU##7. TW#3		

AECOM

GENERAL CONDITIONS:

						If Missing Replaced?		
Surface Seal:	X	Ok		Damaged		Missing:	Yes	No
Protector Pipe:	X	Ok		Damaged		Missing:	Yes	No
Well Cap:	X	Ok		Damaged		Missing:	Yes	No
Ambient Temperature:	30 °F		X	Clear		Cloudy		Rain

WELL DATA:

Measuring Device:	Solonist WLM	
Stick Up or Down:	Flushmount	(from Ground Surface)
Depth to Water:	4.10	(from TPVC)
Depth to Bottom:	12.89	(from TPVC)
Length of Water:	8.79	
Free Product Observed:	[ ] Yes [X] No	Thickness: ~~Ø~~ KEN 0.0

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume

Purging Device:	Peristaltic Pump	Sampling Device:	Prosolo YSI
Volume Required:	(1.43) x3	[X]	See back of page for field readings during purge
Volume Purged:	4.5 gallons		
Could Well Bail Dry?	[ ] Yes [X] No		
Purging - Time Start:	1315	Time Ended:	1420
Decon Method:	Alconox and DI Water		

IN-SITU TESTING:

Turbidity:	[ ] Turbid [ ] Opaque
Odor:	
Color	
pH @	degrees C
Temp. Corr. Conductivity:	Yes
Water Temp. (from Cond.):	
Comments:	See COC

SAMPLES COLLECTED

[ ]	VOCs	[ ] Ammonia	[ ] Metals (diss)
[ ]	SVOCs	[ ] Nitrate	[ ] Mercury (diss)
[ ]	Chloride	[ ] Ammonia	
[ ]	Fluoride	[ ] COD	KEN 02/08/23
[ ]	Sulfate	[ ] TDS	
[ ]	Phenolics		

Well Purging Log

Date 02/08/23

DO mg/L

Time	Temp	pH	Spec. Cond.	~~ORP~~	Turbidity	Depth to Water
1315	7.9	n/a	937	9.97	94.4	4.27
1320	8.6		921	9.55	86.6	4.39
1325	8.5		930	9.54	62.0	4.58
1330	8.5		932	9.53	59.7	4.76
1335	8.4		926	9.49	53.2	~~4.~~ 5.13
1340	8.4		923	9.48	40.4	5.22
1345	8.4		920	9.44	34.0	5.30
1350	8.4		914	9.42	29.7	5.34
1355	8.5		909	9.26	24.9	5.41
1400	8.5		908	9.26	23.8	5.42
1405	8.5		911	9.25	41.7	5.44
1410	8.5		911	9.28	20.1	5.46
1415	8.5		911	9.29	22.9	5.47
1420	8.5		908	9.26	21.6	5.49

Sample time pump off

* minimal drawdown

RCN 02/09/23

GROUNDWATER SAMPLING RECORD (CONTINUED)

Project Name: | Project No.

Installation: | Well ID: CTU007-TW02

Time	Water Level (feet)	Flow Rate (ml/min)	Cum. Vol. (gal.)	Temp. (°C)	pH (units)	Specific Electrical Conductance (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Comments (color, sediment, etc.)
1145	4.53	800 mL/min		7.9		5549	86.0		665	Water cloudy tan
1150	4.55	200		8.0		4942	25.0		467	water cloudy tan/white
1155	4.57	200		8.0		3678	22.3		562	Water cloudy tan
1200	4.57	200		8.0		3367	21.9		443	Water Cloudy, tan
1205	4.57	200		7.9		3311	21.9		355	Cloudiness decreasing, pulled water Level meter.
~~X~~	X	~~X~~	X	X	X	X	X	X	X	
1210		200		7.7		3033	21.8		91.1	Water is mostly clear
1215		200		7.6		2945	22.0		34.3	water is clear
1220		200		7.7		2853	22.7		15.1	Water is remaining clear
1225		200		7.6		2789	22.7		10.6	water remaining clear
1230		200		7.5		2761	22.7		6.49	nothing remarkable
1235		200		7.4		2750	22.9		5.17	nothing remarkable
1240		200		7.4		2730	23.3		4.70	
~~1245~~ 1245		200		7.4		2726	24.0		3.97	Samples collected
1250		200		7.4		2719	23.5		3.97	
~~1255~~										
~~1300~~										

SJ

Notes: Water level was stable during the purging. Approximately 3.5 gal. purged from 1145 - 1250. Water was initially cloudy and brown/tan but slowly cleared up.

Sample Technician Name(s) and Signature(s): Sarah Jackson

QA/QC'd by: | Date: 12/08/23 | Page 1 of 1

(11.63 - 4.53) x 0.163 = 1.15

1.15 x 3 = 3.47

GROUNDWATER SAMPLING RECORD

Project Name: Project No.

Installation:		Initial Depth to Water:	
Well ID:		Depth to Water After Sampling:	
Sample ID:		Total Depth of Well:	
Duplicate ID:		Well Diameter (inches):	
Sample Depth:		1 Casing Volume (gal):	
Date:		3 Casing Volumes (gal):	
Sample Collection Time:		Total Volumes Removed:	
Sample Container Type:		Sample Technician:	
Preservative:		Method of Purging:	
Analysis/Method:		Pump Intake Depth (feet):	
Method of Sampling:		Measuring Point (toc, tor, etc.):	

Time	Water Level (feet)	Flow Rate (ml/min)	Cum. Vol. (gal.)	Temp. (°C)	pH (units)	Specific Electrical Conductance (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Comments (color, sediment, etc.)
Stabilization Criteria				±0.5°C	±0.1	±3%	±10%	±10%	±10% and <10 NTU	

Instruments (Manufacturer, Model, and Serial No.):

Calculations:
1" diameter = 0.041 gal/ft
2" diameter = 0.163 gal/ft
4" diameter = 0.653 gal/ft
6" diameter = 1.47 gal/ft

Notes:

Sample Technician Name(s) and Signature(s):

QA/QC'd by: **Date:**

Field Well Sampling Sheet

Fill out the entire form. If it does not apply, mark N/A.

Project Name:	GMIA ASF UST SI	Project No.	60676873.4
Location:	Milwaukee, WI	Tester:	Keith Nielsen
Well Number:	CTU008-TW03	Date Sampled:	02/20/23
Previous Well Sampled:	CTU011-TW05		

AECOM

GENERAL CONDITIONS:

							If Missing Replaced?
Surface Seal:	[x] Ok	[ ] Damaged		[ ] Missing:	Yes	No
Protector Pipe:	[x] Ok	[ ] Damaged		[ ] Missing:	Yes	No
Well Cap:	[x] Ok	[ ] Damaged		[ ] Missing:	Yes	No
Ambient Temperature:	30 °F	[x] Clear	[ ] Cloudy	[ ] Rain		

WELL DATA:

Measuring Device:	Solonist WLM	
Stick Up or Down:	Flushmount	(from Ground Surface)
Depth to Water:	10.68	(from TPVC)
Depth to Bottom:	14.57	(from TPVC)
Length of Water:	3.89	
Free Product Observed:	[ ] Yes [x] No	Thickness: n/a

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume

Purging Device:	Peristaltic Pump	Sampling Device:	n/a
Volume Required:	(0.63) x 3 = 1.90	[x]	See back of page for field readings during purge
Volume Purged:	~0.63		
Could Well Bail Dry?	[x] Yes [ ] No		
Purging - Time Start:	0940	Time Ended:	0945
Decon Method:	Alconox and DI Water		

IN-SITU TESTING:

Turbidity:	[ ] Turbid [ ] Opaque
Odor:	
Color	
pH @	degrees C
Temp. Corr. Conductivity:	Yes
Water Temp. (from Cond.):	
Comments:	

SAMPLES COLLECTED

[ ] VOCs	[ ] Ammonia	[ ] Metals (diss)
[ ] SVOCs	[ ] Nitrate	[ ] Mercury (diss)
[ ] Chloride	[ ] Ammonia	
[ ] Fluoride	[ ] COD	
[ ] Sulfate	[ ] TDS	
[ ] Phenolics		

KEN AECOM 02/20/23

Well Purging Log

Date 02/20/23

Time	Temp	pH	Spec. Cond.	ORP	Turbidity	Depth to Water
0940	n/a	n/a	n/a	n/a	n/a	10.68
0945	↓	↓	↓	↓	↓	14.57

KCN
02/20/23

Field Well Sampling Sheet

Fill out the entire form. If it does not apply, mark N/A.

Project Name:	GMIA ASF UST SI	Project No.	60676873.4
Location:	Milwaukee, WI	Tester:	Keith Nielsen
Well Number:	CTU011-TW05	Date Sampled:	02/20/23
Previous Well Sampled:	n/a		

AECOM

GENERAL CONDITIONS:

							If Missing Replaced?
Surface Seal:	[X] Ok	[ ] Damaged		[ ] Missing:	Yes	(No)
Protector Pipe:	[X] Ok	[ ] Damaged		[ ] Missing:	Yes	No
Well Cap:	[X] Ok	[ ] Damaged		[ ] Missing:	Yes	No
Ambient Temperature:	30 °F	[X] Clear	[ ] Cloudy	[ ] Rain		

WELL DATA:

Measuring Device:	Solonist WLM	
Stick Up or Down:	Flushmount	(from Ground Surface)
Depth to Water:	11.27	(from TPVC)
Depth to Bottom:	13.60	(from TPVC)
Length of Water:	2.33	
Free Product Observed:	[ ] Yes [X] No	Thickness: n/a

PURGING/SAMPLING:

Well Purging Calculations: Amount to purge = 0.163 gallons/foot times height of water column in feet for one well volume

Purging Device:	Peristaltic Pump	Sampling Device:	n/a
Volume Required:	(0.77) x 3 = 1.13	[X]	See back of page for field readings during purge
Volume Purged:	~0.37		
Could Well Bail Dry?	[X] Yes [ ] No		
Purging - Time Start:	0925	Time Ended:	0930
Decon Method:	Alconox and DI Water		

IN-SITU TESTING:

Turbidity:	[ ] Turbid [ ] Opaque
Odor:	
Color	
pH @	degrees C
Temp. Corr. Conductivity:	Yes
Water Temp. (from Cond.):	
Comments:	

SAMPLES COLLECTED

[ ]	VOCs	[ ]	Ammonia	[ ]	Metals (diss)
[ ]	SVOCs	[ ]	Nitrate	[ ]	Mercury (diss)
[ ]	Chloride	[ ]	Ammonia	[ ]	
[ ]	Fluoride	[ ]	COD	[ ]	
[ ]	Sulfate	[ ]	TDS	[ ]	
[ ]	Phenolics	[ ]		[ ]	

KEN 02/20/23

Well Purging Log

Date 02/20/23

Time	Temp	pH	Spec. Cond.	ORP	Turbidity	Depth to Water
0925	n/a	n/a	n/a	n/a	n/a	14.27
0930	↓	↓	↓	↓	↓	13.60

JCH 02/20/23

Soil Vapor

This page intentionally left blank.

Soil Vapor Probe Sampling Data Form

Soil Vapor Pin Prep

Identify sampling location on plot plan. Identify chemical storage areas (including household cleaners), sumps, drains, other penetrations of slab, HVAC supply/return vents, and possible footings.

Make drawing of property and surrounding properties. Identify paved vs. unpaved areas. Identify any staining, odors, visible emissions, and possible sources of volatile chemicals (barbecues).

Location/Address: GMIA AFS UST SI

Date: 2023.02.08 Staff: KEN

Sample Location ID: CTU006-VP01 // CTU006-VP01-FD

Identify indoor current/historic chemical use/storage (Residential/Industrial/Commercial): Industrial/Commercial UST

Diameter of hole (inches): 2”

Depth to bottom of hole (feet): 1’ (soil vapor probe raised from 4’ to 1’—drawing groundwater into sample train)**

Soil Vapor Probe Ambient Flow (Magnehelix Gauge-0-2 Inches Water range, 0.05 inch water accuracy): 0.00”

Leak Check (Purge Manifold Assembly with Syringe)

Hand Pump Instrument Make: Luer-Lok Tip Model: BD 60 ml Syringe

Vacuum Test (ml): 20 ml start time: 16:05 end time: 16:10

Notes:
1 cubic inch per stroke (~16.3871 milliliters) 6 strokes = 98 ml.
One purge volume is equal to: 0.83 milliliters (ml) for the Vapor Pin™
Plus 5.0 ml for each inch of hole beneath the Vapor Pin™
Plus 0.42 ml for each inch of tubing (using 1/4-inch OD Nylaflow LM)
Plus the internal volume of fittings or hardware in the sample train.

Air Purging

Start time: 16:10 end time: 16:15

Total volume of air during purge (ml): 250

Ambient Air Screening

Instrument Make**:** RAE Systems Model: MiniRAE 3000 S/N: 592-918917

Last Calibrated: 02/08/23 Calibrated by: KEN

Field zeroed and calibrated using 100 ppm isobutylene in air gas standard per manufacturers specifications.

Post calibration measurement of 100 isobutylene in air standard = 100.0

Pre-sub-slab vapor sampling PID Screening measurement = 0.0

PID Screening time = 5 minutes

Soil Vapor Probe Sampling Data Form

AECOM PN

Vapor Sampling

Type/volume/model of Canister: 1 Liter Summa Cannister

Canister ID No.: 1L2830 // 1L4130 Flow Controller ID No.: 23181 // 23426

Sample Flow Rate: 200 milliliters per minute

Sampling: start time: 16:15 // 16:15 end time: 16:21 // 16:27

Canister Vacuum (”Hg) at start: 21 // 28 at end: 6 // 8

Indoor Temperature (°F) at start: N/A at end: N/A

Outdoor Temperature (°F) at start: 41 at end: 41

Soil Vapor Probe Sampling Data Form

Soil Vapor Pin Prep

Identify sampling location on plot plan. Identify chemical storage areas (including household cleaners), sumps, drains, other penetrations of slab, HVAC supply/return vents, and possible footings.

Make drawing of property and surrounding properties. Identify paved vs. unpaved areas. Identify any staining, odors, visible emissions, and possible sources of volatile chemicals (barbecues).

Location/Address: GMIA AFS UST SI

Date: 2023.02.08 Staff: KEN

Sample Location ID: CTU006-VP02

Identify indoor current/historic chemical use/storage (Residential/Industrial/Commercial): Industrial/Commercial UST

Diameter of hole (inches): 2”

Depth to bottom of hole (feet): 4’

Soil Vapor Probe Ambient Flow (Magnehelix Gauge-0-2 Inches Water range, 0.05 inch water accuracy): 0.00”

Leak Check (Purge Manifold Assembly with Syringe)

Hand Pump Instrument Make: Luer-Lok Tip Model: BD 60 ml Syringe

Vacuum Test (ml): 20 ml start time: 15:50 end time: 15:55

Notes:
1 cubic inch per stroke (~16.3871 milliliters) 6 strokes = 98 ml.
One purge volume is equal to: 0.83 milliliters (ml) for the Vapor Pin™
Plus 5.0 ml for each inch of hole beneath the Vapor Pin™
Plus 0.42 ml for each inch of tubing (using 1/4-inch OD Nylaflow LM)
Plus the internal volume of fittings or hardware in the sample train.

Air Purging

Start time: 15:55 end time: 16:00

Total volume of air during purge (ml): 250

Ambient Air Screening

Instrument Make**:** RAE Systems Model: MiniRAE 3000 S/N: 592-918917

Last Calibrated: 02/08/23 Calibrated by: KEN

Field zeroed and calibrated using 100 ppm isobutylene in air gas standard per manufacturers specifications.

Post calibration measurement of 100 isobutylene in air standard = 100.0

Pre-sub-slab vapor sampling PID Screening measurement = 0.0

PID Screening time = 5 minutes

Soil Vapor Probe Sampling Data Form

AECOM PN

Vapor Sampling

Type/volume/model of Canister: 1 Liter Summa Cannister

Canister ID No.: 1L4107 Flow Controller ID No.: 24874

Sample Flow Rate: 200 milliliters per minute

Sampling: start time: 16:00 end time: 16:08

Canister Vacuum (”Hg) at start: 28.5 at end: 6

Indoor Temperature (°F) at start: N/A at end: N/A

Outdoor Temperature (°F) at start: 41 at end: 41

Soil Vapor Probe Sampling Data Form

Soil Vapor Pin Prep

Identify sampling location on plot plan. Identify chemical storage areas (including household cleaners), sumps, drains, other penetrations of slab, HVAC supply/return vents, and possible footings.

Make drawing of property and surrounding properties. Identify paved vs. unpaved areas. Identify any staining, odors, visible emissions, and possible sources of volatile chemicals (barbecues).

Location/Address: GMIA AFS UST SI

Date: 2023.02.08 Staff: KEN

Sample Location ID: CTU006-VP03

Identify indoor current/historic chemical use/storage (Residential/Industrial/Commercial): Industrial/Commercial UST

Diameter of hole (inches): 2”

Depth to bottom of hole (feet): 4’

Soil Vapor Probe Ambient Flow (Magnehelix Gauge-0-2 Inches Water range, 0.05 inch water accuracy): 0.00”

Leak Check (Purge Manifold Assembly with Syringe)

Hand Pump Instrument Make: Luer-Lok Tip Model: BD 60 ml Syringe

Vacuum Test (ml): 20 ml start time: 15:55 end time: 16:00

Notes:
1 cubic inch per stroke (~16.3871 milliliters) 6 strokes = 98 ml.
One purge volume is equal to: 0.83 milliliters (ml) for the Vapor Pin™
Plus 5.0 ml for each inch of hole beneath the Vapor Pin™
Plus 0.42 ml for each inch of tubing (using 1/4-inch OD Nylaflow LM)
Plus the internal volume of fittings or hardware in the sample train.

Air Purging

Start time: 16:00 end time: 16:05

Total volume of air during purge (ml): 250

Ambient Air Screening

Instrument Make**:** RAE Systems Model: MiniRAE 3000 S/N: 592-918917

Last Calibrated: 02/08/23 Calibrated by: KEN

Field zeroed and calibrated using 100 ppm isobutylene in air gas standard per manufacturers specifications.

Post calibration measurement of 100 isobutylene in air standard = 100.0

Pre-sub-slab vapor sampling PID Screening measurement = 0.0

PID Screening time = 5 minutes

Soil Vapor Probe Sampling Data Form

AECOM PN

Vapor Sampling

Type/volume/model of Canister: 1 Liter Summa Cannister

Canister ID No.: 1L3744 Flow Controller ID No.: 23194

Sample Flow Rate: 200 milliliters per minute

Sampling: start time: 16:05 end time: 16:11

Canister Vacuum (”Hg) at start: 28 at end: 6

Indoor Temperature (°F) at start: N/A at end: N/A

Outdoor Temperature (°F) at start: 41 at end: 41

Soil Vapor Sampling Data Form

Soil Vapor Sampling Prep

Identify sampling location on plot plan. Identify chemical storage areas (including household cleaners), sumps, drains, other penetrations of slab, HVAC supply/return vents, and possible footings.

Make drawing of property and surrounding properties. Identify paved vs. unpaved areas. Identify any staining, odors, visible emissions, and possible sources of volatile chemicals (barbecues).

Location/Address: GMIA AFS UST SI

Date: 01/31/23 Staff: KEN

Sample Location ID: CTU008-VP01

Identify indoor current/historic chemical use/storage (Residential/Industrial/Commercial): Industrial/Commercial UST

Diameter of hole (inch): 2”

Depth to bottom of hole (feet): 5

Vapor Probe Ambient Flow (Magnehelix Gauge-0-2 Inches Water range, 0.05 inch water accuracy): 0.00”

Leak Check (Purge Manifold Assembly with Syringe)

Hand Pump Instrument Make: Luer-Lok Tip Model: BD 60 ml Syringe

Vacuum Test (ml): 20 ml start time: 11:00 end time: 11:05

Notes:
1 cubic inch per stroke (~16.3871 milliliters) 6 strokes = 98 ml.
One purge volume is equal to: 0.83 milliliters (ml) for the soil vapor probe
Plus 5.0 ml for each inch of hole beneath the ground surface
Plus 0.42 ml for each inch of tubing (using 1/4-inch OD Nylaflow LM)
Plus the internal volume of fittings or hardware in the sample train.

Air Purging

Start time: 11:05 end time: 11:10

Total volume of air during purge (ml): 500 ml

Ambient Air Screening

Instrument Make**:** RAE Systems Model: Mini RAE 3000 S/N: 592-918917

Last Calibrated: 01/31/23 Calibrated by: KEN

Field zeroed and calibrated using 100 ppm isobutylene in air gas standard per manufacturers specifications.

Post calibration measurement of 100 isobutylene in air standard = 100.1

Pre-sub-slab vapor sampling PID Screening measurement = 0.0

PID Screening time = 5 minutes

Soil Vapor Sampling Data Form

Vapor Sampling

Type/volume/model of Canister: 1 Liter Summa Canister

Canister ID No.: 1L4255 Flow Controller ID No.: 23180

Sample Flow Rate: 200 milliliters per minute

Sampling: CTU008-VP01 start time: 12:00 end time: 12:06

Canister Vacuum (“Hg) at start: 30 at end: 5

Outdoor Temperature (°F) at start: 2 at end: 2

Sub-Slab Vapor Sampling Data Form

Soil Vapor Sampling Prep

Identify sampling location on plot plan. Identify chemical storage areas (including household cleaners), sumps, drains, other penetrations of slab, HVAC supply/return vents, and possible footings.

Make drawing of property and surrounding properties. Identify paved vs. unpaved areas. Identify any staining, odors, visible emissions, and possible sources of volatile chemicals (barbecues).

Location/Address: GMIA AFS UST SI

Date: 01/31/23 Staff: KEN

Sample Location ID: CTU008-VP02

Identify indoor current/historic chemical use/storage (Residential/Industrial/Commercial): Industrial/Commercial UST

Diameter of hole (inch): 2”

Depth to bottom of hole (feet): 5

Vapor Probe Ambient Flow (Magnehelix Gauge-0-2 Inches Water range, 0.05 inch water accuracy): 0.00”

Leak Check (Purge Manifold Assembly with Syringe)

Hand Pump Instrument Make: Luer-Lok Tip Model: BD 60 ml Syringe

Vacuum Test (ml): 20 ml start time: 11:10 end time: 11:15

Notes:
1 cubic inch per stroke (~16.3871 milliliters) 6 strokes = 98 ml.
One purge volume is equal to: 0.83 milliliters (ml) for the soil vapor probe
Plus 5.0 ml for each inch of hole beneath the ground surface
Plus 0.42 ml for each inch of tubing (using 1/4-inch OD Nylaflow LM)
Plus the internal volume of fittings or hardware in the sample train.

Air Purging

Start time: 11:15 end time: 11:20

Total volume of air during purge (ml): 500 ml

Ambient Air Screening

Instrument Make**:** RAE Systems Model: Mini RAE 3000 S/N: 592-918917

Last Calibrated: 01/31/23 Calibrated by: KEN

Field zeroed and calibrated using 100 ppm isobutylene in air gas standard per manufacturers specifications.

Post calibration measurement of 100 isobutylene in air standard = 100.1

Pre-sub-slab vapor sampling PID Screening measurement = 1.0

PID Screening time = 5 minutes

Sub-Slab Vapor Sampling Data Form

Vapor Sampling

Type/volume/model of Canister: 1 Liter Summa Canister

Canister ID No.: 1L3424 Flow Controller ID No.: 23694

Sample Flow Rate: 200 milliliters per minute

Sampling: CTU008-VP02 start time: 12:10 end time: 12:20

Canister Vacuum (”Hg) at start: 29 at end: 5

Outdoor Temperature (°F) at start: 2 at end: 2

Sub-Slab Vapor Sampling Data Form

Sub-Slab Prep

Identify sampling location on plot plan. Identify chemical storage areas (including household cleaners), sumps, drains, other penetrations of slab, HVAC supply/return vents, and possible footings.

Make drawing of property and surrounding properties. Identify paved vs. unpaved areas. Identify any staining, odors, visible emissions, and possible sources of volatile chemicals (barbecues).

Location/Address: GMIA AFS UST SI

Date: 01/31/23 Staff: KEN

Sample Location ID: CTU008-VP03

Identify indoor current/historic chemical use/storage (Residential/Industrial/Commercial): Industrial/Commercial UST

Diameter of hole (inch): 2”

Depth to bottom of hole (feet): 5

Vapor Probe Ambient Flow (Magnehelix Gauge-0-2 Inches Water range, 0.05 inch water accuracy): 0.00”

Leak Check (Purge Manifold Assembly with Syringe)

Hand Pump Instrument Make: Luer-Lok Tip Model: BD 60 ml Syringe

Vacuum Test (ml): 20 ml start time: 11:20 end time: 11:25

Notes:
1 cubic inch per stroke (~16.3871 milliliters) 6 strokes = 98 ml.
One purge volume is equal to: 0.83 milliliters (ml) for the soil vapor probe
Plus 5.0 ml for each inch of hole beneath the ground surface
Plus 0.42 ml for each inch of tubing (using 1/4-inch OD Nylaflow LM)
Plus the internal volume of fittings or hardware in the sample train.

Air Purging

Start time: 11:25 end time: 11:30

Total volume of air during purge (ml): 500 ml

Ambient Air Screening

Instrument Make**:** RAE Systems Model: Mini RAE 3000 S/N: 592-918917

Last Calibrated: 01/31/23 Calibrated by: KEN

Field zeroed and calibrated using 100 ppm isobutylene in air gas standard per manufacturers specifications.

Post calibration measurement of 100 isobutylene in air standard = 100.1

Pre-sub-slab vapor sampling PID Screening measurement = 0.2

PID Screening time = 5 minutes

Sub-Slab Vapor Sampling Data Form

Vapor Sampling

Type/volume/model of Canister: 1 Liter Summa Canister

Canister ID No.: 1L3670 Flow Controller ID No.: 25201

Sample Flow Rate: 200 milliliters per minute

Sampling: CTU008-VP03 start time: 12:20 end time: 12:26

Canister Vacuum (”Hg) at start: 28 at end: 5

Outdoor Temperature (°F) at start: 2 at end: 2

This page intentionally left blank.