

General Engineering Company
P.O. Box 340
916 Silver Lake Drive
Portage, WI 53901



608-742-2169 (Office)
608-742-2592 (Fax)
gec@generalengineering.net
www.generalengineering.net

Engineers • Consultants • Inspectors

April 10, 2020

Ms. Janet DiMaggio
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711

RE: REMEDIAL DOCUMENTATION REPORT
Kreyer Country Store (Lutzen Property)
6858 US Highway 18
Mount Ida, Wisconsin
BRRTs #: 03-22-152084
PECFA # 53809-9640-58-A

Dear Ms. DiMaggio:

General Engineering Company has completed this Remedial Documentation Report for the excavation activities performed at the former Kreyer Country Store (Lutzen Property) located at 6858 U.S. Highway 18 in the Town of Mount Ida, Wisconsin.

Please feel free to contact General Engineering Company with any questions.

Sincerely yours,

GENERAL ENGINEERING COMPANY

A handwritten signature in blue ink that reads 'Brian Youngwirth'.

Brian Youngwirth
Project Manager

A handwritten signature in blue ink that reads 'Beth A. Erdman'.

Beth A. Erdman
Project Manager

c: Jeff and Gloria Lutzen (6858 Highway 18, Fennimore, Wisconsin 53809)

General Engineering Company
P.O. Box 340
916 Silver Lake Drive
Portage, WI 53901



608-742-2169 (Office)
608-742-2592 (Fax)
gec@generalengineering.net
www.generalengineering.net

Engineers • Consultants • Inspectors

REMEDIAL DOCUMENTATION REPORT

For

KREYER COUNTRY STORE (LUTZEN PROPERTY)

Located at

**6858 U.S. HIGHWAY 18
TOWM OF MOUNT IDA, WISCONSIN**

April 10, 2020

Prepared by:

GENERAL ENGINEERING COMPANY
916 Silver Lake Drive
Portage, WI 53901
GEC Project No.0710-190
(608) 742-2169

Client:

Jeff and Gloria Lutzen
6858 U.S. Highway 18
Fennimore, Wisconsin 53809

General Engineering Company
P.O. Box 340
916 Silver Lake Drive
Portage, WI 53901



Engineers • Consultants • Inspectors

608-742-2169 (Office)
608-742-2592 (Fax)
gec@generalengineering.net
www.generalengineering.net

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
<ul style="list-style-type: none">• General• Purpose• Scope• Authorization	
SITE FEATURES AND BACKGROUND	1-5
<ul style="list-style-type: none">• Site Features• Background	
REMEDIAL EXCAVATION FIELD ACTIVITIES	5-6
<ul style="list-style-type: none">• Remedial Excavation Field Activities• Site Geology• Volatile Vapor Emission Screening• Soil Sample Collection Procedures	
EVALUATION AND DISCUSSION	6
<ul style="list-style-type: none">• NR 720 Soil Standards• Laboratory Soil Results	
CONCLUSION	7
GENERAL COMMENTS	7

General Engineering Company
P.O. Box 340
916 Silver Lake Drive
Portage, WI 53901



608-742-2169 (Office)
608-742-2592 (Fax)
gec@generalengineering.net
www.generalengineering.net

Engineers • Consultants • Inspectors

APPENDICES

APPENDIX A

- Figure 1 – Site Location Map
- Figure 2 – Site Plan
- Figure 3 – Soil Probe, Boring and Monitoring Well Location Map
- Figure 4 – Limits of Remedial Excavation and Soil Sample Locations Map
- Figure 5 – Potable Well Location Map

APPENDIX B

- Table 1 – Soil Boring and Probe Analytical Results
- Table 2 – Groundwater Analytical Results
- Table 3 – Groundwater Elevation Results
- Table 4 – Vapor Sampling Results
- Table 5 – Remedial Excavation Soil Sampling Results

APPENDIX C

- Remedial Excavation Soil Analytical Report & Chain of Custody

APPENDIX D

- La Crosse County Landfill Soil Disposal Documentation

APPENDIX E

- Soil Boring Abandonment Form

INTRODUCTION

General

This report presents the findings of the remedial excavation of petroleum contaminated soils from the former Kreyer Country Store (Lutzen Property), located at 6858 U.S. Highway 18 in the Town of Mount Ida, Grant County, Wisconsin (Site). The remedial activities and this report were prepared under the authorization of Jeff and Gloria Lutzen, the responsible party for the release and current owners of the property.

Purpose

This remedial excavation was conducted to excavate and properly dispose of petroleum contaminated soils previously identified near the location of a former petroleum tank system consisting of three underground storage tanks (USTs) and three associated dispensers.

Scope

The scope of remedial services included: performance of the remedial excavation of up to 700 tons of petroleum contaminated soils, field and laboratory testing of selected soil samples, and an analysis of the data obtained. The remedial activities were structured specifically to address the presence of petroleum contaminated soils identified during the site investigation activities, which are discussed within the background section of the report.

Authorization

This "*Remedial Documentation Report*" has been prepared on behalf of, and exclusively for the use of Jeff and Gloria Lutzen. The information contained in this "*Remedial Documentation Report*" may not be relied upon by any other parties without the written consent of General Engineering Company (GEC).

SITE FEATURES AND BACKGROUND

Site Features

The Site is located at 6858 U.S. Highway 18 in the Town of Mount Ida, Wisconsin. The Site is situated within the northwest ¼ of the northwest ¼ of Section 29, Township 06 North, Range 03 West, Grant County, Wisconsin. The Site is located within a rural residential area surrounded by primarily other residential properties, wooded and agricultural land. A Site Location Map is shown in Figure 1, Appendix A.

The Site is currently occupied by a residence and garage on the southwestern portion of the Site with a few other outbuildings located to the northeast. The northwestern portion of the house is underlain by a basement. The southeastern portion of the house is underlain by a crawl space. The southeastern portion of the house is also surrounded by a fenced in patio block walkway.

Two, 300-gallon capacity USTs containing unleaded gasoline and fuel oil and one, 500-gallon capacity UST containing unleaded gasoline were formerly located just southeast of the southeast corner of the residence. A dispenser island with three dispensers was located southwest of the former tanks to the southeast of the current residence. The surface of the site is covered primarily by grass with gravel drive areas along the southwestern portion of the Site. A Site Plan is shown on Figure 2, Appendix A.

The surrounding properties are comprised of residential properties to the west/northwest; agricultural or wooded land to the north; residential properties followed by dense wooded land to the east; and US Highway 18, followed by residential properties and agricultural land to the south, southeast, and southwest.

The Site is serviced by a shared potable well located near the property line of the adjoining property to the southeast at 6846 U.S. Highway 18. Four other potable wells have also been identified within 1,200 feet of the

Site. GEC is currently evaluating the presence of other potable wells within 1,200 feet of the Site. Known potable well locations are shown on Figure 5, Appendix A.

There does not appear to be the potential for impacts to threatened or endangered species; sensitive species, habitat, or ecosystems; wetlands; outstanding or exceptional resource waters; or sites of historical or archaeological significance. No immediate or interim actions have been taken, and none appear warranted at this time.

Background

According to Wisconsin Department of Agriculture, Trade, and Consumer Protection (DATCP) Storage Tank Database, two, 300 gallon single-wall, coated steel tanks, each containing unleaded gasoline and fuel oil, and one, 500 gallon single-wall, coated steel tank containing unleaded gasoline are registered as closed/removed on November 6, 1998. The tanks were owned at that time by Mr. Donald Kreyer and were utilized for resale. The business operated as the former Kreyer Country Store.

The Wisconsin Department of Natural Resources (WDNR) was reportedly notified of contamination on the property prior to removal of the tank system on June 16, 1997. A responsible party (RP) letter was sent on July 8, 1997. A Site Investigation Work Plan was prepared by others and approved on January 23, 1998. According to the WDNR BRRS records, subsequent to the tank removal activities, no further action was taken until May 15, 2006, when a second RP letter was sent and push action was initiated. A deed affidavit for enforcement was filed by the WDNR on March 31, 2008, and an additional push action was taken on January 11, 2010. As a result, GEC was retained to perform a soil and groundwater investigation at the site on June 3, 2010.

The site investigation activities performed to date include the advancement of 7 soil probes, designated GP-1 to GP-7, the advancement of 11 soil borings (B-1 to B-11), which with the exception of B-7, were converted to monitoring wells MW-1L to MW-9L and MW-8AL. Soil samples were submitted for laboratory analysis from selected probes/borings and depths for the presence of petroleum volatile organic compounds (PVOCs) and naphthalene. To date, one to fourteen rounds of groundwater samples were collected from the site monitoring wells (MW-1L to MW-9L, MW-8AL) and available potable wells within 1,200 feet of the Site (PW-1, Klar PW, Speaker PW, Freymiller PW, and Jeidy PW) and submitted for laboratory analysis for the presence of volatile organic compounds (VOCs)/PVOCs, naphthalene, and/or 1,2 DCA and lead. An ambient air sample (Ambient 1) was collected from the crawl space beneath the house along the southeast side of the house nearest the former tank system. The sample was submitted for laboratory analysis of VOCs.

The soil probes were advanced by Kitson Environmental of Hellenville, Wisconsin under the direction of GEC. Soil samples were collected continuously with a truck-mounted or all-terrain geoprobe units by driving a 5-foot plastic sleeve within a metal sampler into undisturbed soils. The soil borings and monitoring wells were advanced by Ground Source of Green Bay, Wisconsin or Badger State Drilling of Stoughton, Wisconsin under the direction of GEC. The borings were advanced utilizing truck-mounted drilling rig and soil samples were collected at selected intervals and locations utilizing a steel split spoon sampler, which was advanced ahead of the augers into undisturbed soils. Air rotary drilling techniques were utilized to advance the borings beyond the refusal depths at all of test locations with the exception of B-7 and B-8/MW-7.

Soil probes GP-1 to GP-7 were advanced on September 22, 2010, in the vicinity of the former USTs and dispensers. The probes were utilized to define the extent of soil contamination. The locations of the soil probes are shown on Figure 3, Appendix A.

Soil boring B-1 was advanced on June 12, 2011, between the area of the former USTs and dispensers and converted to monitoring well MW-1L. Three additional monitoring wells were installed on September 8, 2011, including two on the Site near the U.S. Highway 18 right-of-way (ROW) (B-2/MW-2L) and one on the northeastern portion of the property (B-4/MW-4L) and one off-site on the southeastern portion of the property located at 6868 U.S. Highway 18 (B-3/MW-3L). An additional monitoring well (B-5/MW-5L) was advanced on the site beyond MW-4L on June 29, 2016. Subsequent to the remedial excavation, monitoring well B-6/MW-6L was advanced

near the northwestern property line of the Site between January 15 and 20, 2020. The week of March 10 to 16, 2020, subsequent to the remedial excavation activities, a soil boring (B-7) and a monitoring well (B-8/MW-7) were advanced between the area of the house on garage on the Site and three off-site monitoring wells (B-9/MW-8, B-10/MW-9, and B-11/MW-8A) were advanced on the property to the northwest located at 6868 U.S. Highway 18. At B-7, a sanitary gray water line was struck during the drilling and the boring was abandoned. An abandonment form is included in Appendix E.

Refusal was encountered at the probes at depths ranging from 13 feet (GP-1 to GP-3) to 20 feet (GP-7) below ground surface (bgs). Refusal was encountered at the borings at depths ranging from 8 feet bgs (MW-4L) to 28 feet bgs (MW7L). Auger refusal was encountered on sandstone and limestone/dolomite bedrock. The borings were advanced into bedrock utilizing air rotary drilling techniques (with the exception of B-7 and B-8/MW-7) to depths ranging from 35 feet bgs (MW-9) to 75 feet bgs (MW-8). As exceptions, during the air rotary drilling, clay layers were encountered between rock layers at MW-8A (28 feet to 35 feet bgs) and MW-9 (19 feet to 28 feet bgs). The monitoring wells were installed to depths ranging from 28 feet bgs (MW-7L) to 75 feet bgs (MW-8L). The monitoring wells were utilized to define the relative extent of the groundwater contamination. The locations of the soil borings and monitoring wells are shown on Figure 3, Appendix A.

The soil samples collected from soil probes GP-2, GP-3, and GP-5 reported concentrations of PVOCs and naphthalene exceeding their respective Wisconsin Administrative Code (WAC) NR 720 soil to groundwater, cancer (C) residual contaminant levels (RCLs), and/or direct contact standards. The highest concentrations were reported in the soil samples collected from GP-2 and GP-3 in the immediate vicinity of the former tanks and dispensers. Those soil samples reported maximum concentrations of benzene (4,630 micrograms per kilogram ($\mu\text{g}/\text{kg}$)), ethylbenzene (3,310 $\mu\text{g}/\text{kg}$), naphthalene (24,000 $\mu\text{g}/\text{kg}$), toluene (6,010 $\mu\text{g}/\text{kg}$), 1,2,4 trimethylbenzene (21,600 $\mu\text{g}/\text{kg}$), 1,3,5 trimethylbenzene (9,300 $\mu\text{g}/\text{kg}$), and xylenes (15,080 $\mu\text{g}/\text{kg}$). The sample collected from GP-3 within the direct contact zone (upper 4 feet) contained naphthalene at a concentration of 24,000 $\mu\text{g}/\text{kg}$, which exceeds its WAC NR 720 direct contact RCL of 5,520 $\mu\text{g}/\text{kg}$. The soil sample collected from soil boring B-8 at a depth of 17 to 18 feet bgs contained benzene (800 $\mu\text{g}/\text{kg}$), naphthalene (700 $\mu\text{g}/\text{kg}$), and trimethylbenzenes (6,900 $\mu\text{g}/\text{kg}$), which exceed their respective NR 720 soil to groundwater RCLs. The samples collected at the remaining probe or boring locations either did not contain petroleum compounds or did not contain them at levels exceeding their respective adjusted reporting limit or WAC NR 720 RCL standards. The results of the chemical analyses on the soil samples are summarized on Table 1, Appendix B.

One to fourteen rounds of groundwater sampling were performed at the site monitoring wells between July 5, 2011, and March 24, 2020. The groundwater samples collected from on-site monitoring wells MW-4L, MW-6L, and MW-7L have reported concentrations of PVOCs or naphthalene exceeding the WAC NR 140 enforcement standard (ES) during all the sampling rounds performed at those wells. The highest concentrations were detected at MW-7L, just northeast of the former tanks and excavation area, which reported concentration of benzene (2,030 micrograms per liter ($\mu\text{g}/\text{L}$)), ethylbenzene (1,670 $\mu\text{g}/\text{L}$), 1,2,4 trimethylbenzene (2,280 $\mu\text{g}/\text{L}$), 1,3,5 trimethylbenzene (620 $\mu\text{g}/\text{L}$), xylenes (6,640 $\mu\text{g}/\text{L}$), and naphthalene (450 $\mu\text{g}/\text{L}$). It should be noted that during the March 24, 2020, sampling round, possible free product was observed at monitoring well MW-6 after the removal of approximately 5 gallons of water from the monitoring well. The groundwater samples collected from MW-6 during the three sampling rounds performed have only reported benzene, ethylbenzene, 1,2,4 trimethylbenzene, xylenes, and naphthalene at concentrations exceeding the NR 140 ES with maximum concentrations of 360 $\mu\text{g}/\text{L}$, 1,420 $\mu\text{g}/\text{L}$, 1,630 $\mu\text{g}/\text{L}$, 5,290 $\mu\text{g}/\text{L}$, and 380J $\mu\text{g}/\text{L}$, respectively. It is possible that if the screened interval intersected the water table that higher concentrations would be observed.

The groundwater samples collected from monitoring well MW-1 during the initial two sampling rounds (July 5, 2011 and November 22, 2011) reported concentrations of benzene exceeding the WAC NR 140 ES but have not reported concentrations of PVOCs or naphthalene in the twelve other sampling rounds performed since 2012. The groundwater samples collected from monitoring well MW-8 reported concentrations of benzene exceeding the WAC NR 140 preventive action limit (PAL). The groundwater samples collected from monitoring wells MW-2, MW-3, MW-5, MW-8A, and MW-9 have not reported concentrations of PVOCs or naphthalene exceeding the laboratory detection limits.

A shallow perched water table is present on the Site that typically occurs at depths of less than 25 feet bgs around elevations (EL. 1195 to 1200). There is also a deeper, possible regional water table that appears to be present on the Site at depths ranging from 40 feet to below 70 feet bgs (below EL. 1170), depending on the surface elevation. Groundwater contamination appears to extend from the area of the former tanks/dispensers in the direction of groundwater flow toward the northwest/northeast/east and onto the off-site property located at 6868 U.S. Highway 18 within the shallow perched water table (see MW-6 and MW-7). The deeper water table appears to be substantially less impacted (see MW-1, MW-2, MW-3, MW-5 and MW-8) with the exception of MW-4. It should be noted that an additional leaking underground storage tank case (LUST) case is on-going at the Speaker Property, southeast of the site, at 6832 U.S. Highway 18 and the dynamics of the groundwater plumes and whether the releases are co-mingled is still being evaluated. The results of the groundwater analyses are summarized in Table 2 in Appendix B.

With regard to the potable well sampling, the shared potable well associated with the Site was sampled at the Lutzen residence (PW-1) on June 28, 2011, and June 7, 2018, and the Klar residence (Klar PW) potable well was also sampled on June 7, 2018. The samples did not report detectable concentrations of VOCs.

The other known potable wells within 1,200 feet of the Site are shared wells and are identified below along with what properties share the well. The locations accesses for sampling of each well are also identified below and include Jeidy PW, Freymiller PW, and 6770 PW. An evaluation of other potable wells within 1,200 feet of the site and how each of the wells are shared is on-going.

Well Location – 6832 U.S. Highway 18 – 300 feet southeast of the Site (Speaker PW). The Speaker potable well was recently re-drilled because it was reportedly dry. GEC was not aware the potable well was being re-installed. The well was re-drilled in the location of the previous potable well (southeast of the residence) to a depth of 500 feet on March 11, 2019. The well is cased to a depth of 304 feet. This well will be sampled in the future. The original Speaker PW was sampled on January 14, 2010, prior to the performance of any site investigation activities. The sample did not contain detectable concentrations of PVOCs or naphthalene.

Well Location – 6875 U.S. Highway 18 – 275 feet northwest of the Site, across U.S. Highway 18
Shared – 6861 U.S. Highway 18 (Jeidy PW)
Shared – 6868 U.S. Highway 18
Shared – 6880 U.S. Highway 18

Well Location – 6827 U.S. Highway 18 – 525 feet southeast, across U.S. Highway 18
Shared – 6819 U.S. Highway 18
Shared – 6807 U.S. Highway 18 (Freymiller PW)

Well Location – 6770 U.S. Highway 18 – 1000 feet southeast of the Site (6770 PW)
Shared – 6726 U.S. Highway 18

Possibly Shared – 6804 and 6792 U.S. Highway 18, currently being evaluated

Groundwater samples were collected from the Freymiller PW and Jeidy PW on December 4, 2019. A groundwater sample was collected from PW 6770 on March 12, 2020. None of the samples reported detectable concentrations of PVOCs, naphthalene, or 1,2 DCA. Potable well results are summarized on Table 2, Appendix B.

An ambient vapor sample (Ambient 1) was collected from the crawl space along the southeastern portion of the residence on January 30, 2019. The sample did not contain VOCs at concentrations exceeding their respective standards. Vapor analytical results are summarized in Table 4 in Appendix B.

As a result of the petroleum contaminants detected within the soil samples collected in the area of the former tanks and dispensers, the remedial activities discussed herein were subsequently performed.

REMEDIAL EXCAVATION FIELD ACTIVITIES

Remedial Excavation Field Activities

On November 19 and 20, 2019, GEC oversaw the excavation of 531.68 tons petroleum contaminated soils. Excavation activities were performed by Wiederholt Enterprises, LLC of Cuba City, Wisconsin. Contaminated soils were transported to La Crosse County Landfill in La Crosse, Wisconsin for proper disposal. Waste disposal documentation is included in Appendix D. Soil samples were periodically field screened, utilizing a photoionization detector (PID). The limits of the remedial soil excavation are shown on Figure 4, Appendix A.

The excavation activities were performed in the area of the three USTs and dispensers. The northwestern limits of the excavation were impeded by the residence. The northeastern limits of the excavation were impeded by the garage. The excavation was "L" shaped and extended approximately 40 feet northeast/southwest and 40 feet northwest and southeast. Obvious contaminated soils remained at the horizontal limits of the northwestern end of the excavation along the southeast end of the residence and near the southeastern corner of the garage near the bottom of the excavation at the maximum depth of the excavation at a depth of 17 feet bgs. The depth of the excavation extended to depths of approximately 10 feet to 17 feet bgs. A large slab of dolomite was encountered within the southeast central portion of the excavation. Monitoring well MW-1 was damaged during the excavation activities when the northwestern sidewall of the excavation unexpectedly collapsed into the excavation and the well was broken near the bottom of the excavation and could not be safely repaired or abandoned properly. Upon completion, the excavation was backfilled with compacted granular backfill.

Fifteen soil samples were collected from the sidewalls and bottom of the excavation, which were submitted for laboratory analysis for the presence of PVOCs, naphthalene, and/or lead. With regard to the soil samples submitted for laboratory analysis, six soil samples were collected from the sidewalls of the excavation at depths of 4 feet bgs (W-1 to W-6); eight soil samples were collected from near the sidewalls and/or bottom of the excavation at depths of 10 to 17 feet bgs (S-1 to S-8); and one soil sample was collected from the bottom of the excavation at a depth of 17 feet bgs (SB-1).

Site Geology

During the soil probing activities performed in the area of the former tanks and dispensers, the surface of the site consisted of sand and gravel fill. The near surface fill was underlain by variable soils consisting brown and reddish brown clayey silt and sandy silt and reddish brown silty clay with varying amounts of gravel to the refusal depths of the probes at depths ranging from 13 feet to 20 feet bgs. During the excavation activities similar soils were encountered to the maximum depths of the excavation at 10 feet to 17 feet bgs. A large slab of dolomite was observed surrounded by silty clay soils within the southeast central portion of the excavation. Groundwater was not encountered during the excavation activities. Water level data from the on-site monitoring wells is summarized on Table 3, Appendix B.

Volatile Vapor Emission Screening

Soil samples collected from the limits of the remedial excavation were screened for volatile organic vapor emissions with a PID. The soil samples were placed in a plastic bag and permitted to equilibrate to at least 70 degrees Fahrenheit for a period of at least 15 minutes, based upon the ambient outdoor temperature. The screening was then performed by inserting the probe in the bag and measuring the headspace. The PID is an electronic instrument that measures the relative concentration of volatile organic vapor emissions in the headspace of a container. The response of the instrument is dependent upon volatility, temperature, and the ionization potential of the compounds measured. The meter serves as one tool in selecting samples for analytical testing, as it only gives a relative indication of the presence of volatile organic vapor emission but cannot quantify concentrations of individual compounds. The soil samples collected from the limits of the excavation contained PID readings ranging from 0 to 2561 instrument units (IU) with the higher reading being observed along the bottom of the excavation near SB-1.

Soil Sample Collection Procedures

The soil samples for chemical analyses were selected from the excavation limits based upon location, depth, geology, the depth to groundwater, the direct contact zone, and PID results. Selected samples obtained from the excavation were submitted for laboratory analysis of PVOCs, naphthalene, and/or lead.

The soil samples submitted for laboratory analysis for the presence of PVOC and naphthalene were extracted from the soils utilizing a sterile syringe and approximately 10 to 15 grams of soil were transferred into laboratory prepared jar containing approximately 10 milliliters of methanol. The samples collected for laboratory analysis of lead were placed into a laboratory prepared 4 ounce plastic cup until no headspace remained within the container. The samples were placed on ice, and chain of custody procedures were initiated. The samples were then submitted to Synergy Environmental Laboratory in Appleton, Wisconsin, for laboratory analysis.

EVALUATION AND DISCUSSION

NR 720 Soil Standards

Chapter 720 of the WAC NR700 series code established RCLs for soils intended to be protective of the direct contact (upper 4 feet of soil defined by human exposure to substances in soil through inhalation of particulate matter, dermal absorption, incidental ingestion, or inhalation of vapors from the soil) and soil-to-groundwater pathways. The direct contact levels are dependent on the planned use and zoning of the affected property. Although these individual RCLs have been established for a wide range of compounds, the WDNR requires that the cumulative effects of detected compounds be evaluated through use of a WDNR interactive table where individual concentrations can be entered to evaluate whether the target cancer risk has been exceeded. The individual RCLs provided by the WDNR were developed using standard default exposure assumptions. As an alternative, site specific calculations can be performed utilizing the U.S. Environmental Protection Agency (EPA) Regional Screening Level Web Calculator.

Laboratory Soil Results

The soil samples collected from S-1, S-5, and SB-1 reported relatively low concentrations of benzene ranging from 36J µg/kg to 470 µg/kg exceeding its WAC NR 720 soil to groundwater RCL of 5.1 µg/kg. The samples collected at the remaining locations either did not contain detectable concentrations of PVOCs or naphthalene or did not report them at concentrations exceeding their respective standards. None of the soil samples collected from the upper four feet of soil contained PVOCs or naphthalene exceeding their respective WAC NR 720 direct contact standards.

With regard to the lead testing within soil, lead was detected at variable concentrations ranging from 12.8 milligrams per kilogram (mg/kg) to 269 mg/kg within the remedial excavation confirmation samples. The highest concentrations were detected at S-2, S-3, S-5, S-7, and SB-1 which reported lead concentrations of 72.5 mg/kg, 52.2 mg/kg, 124 mg/kg, 269 mg/kg, and 52.1 mg/kg, respectively exceeding its NR 720 soil to groundwater RCL of 27 mg/kg or background threshold level of 52 mg/kg. However, the highest concentrations of lead were generally detected within the soil samples that reported relatively low or non-detectable concentrations of PVOCs and naphthalene. It appears unlikely that the lead concentrations are attributable to the release are indicative of locally high background concentrations.

Soil analytical results for samples collected during the remedial excavation are included in Table 5 in Appendix B and a copy of the analytical results and chain of custody are included in Appendix C. The locations of the remedial excavation soil samples are shown on Figure 4, Appendix A.

CONCLUSIONS

During the remedial excavation, 531.68 tons of petroleum contaminated soils were removed from the site and properly disposed. Residual contaminated soils appeared to remain along the northwestern and northeastern ends of the excavation at S-1 and S-5 and at the bottom of the excavation near SB-1. Relatively low concentrations of petroleum contamination were detected at S-1, S-5, and SB-1 including benzene concentrations of 36J µg/kg, 100 µg/kg, and 470 µg/kg, respectively. The excavation was impeded by the fenced patio block walk area along the house on the northwest end of the excavation and the garage on the northeast end of the excavation near S-1 and S-5. The excavation could not be extended beyond a depth of 17 feet near SB-1 due to the reach of the equipment and the potential risk of cave in and damage to buildings.

Petroleum contaminated soils have been removed and properly disposed to the maximum extent possible given the structures in the area of the contamination. However, based on the groundwater contamination at monitoring wells MW-6 and MW-7, it appears that contaminated groundwater (and possibly soil) is present beneath the garage and house. Although the garage does not appear to be of concern, it is recommended that additional ambient air samples be collected from within the crawl space and basement of the residence.

Based on the prior site investigation activities, it appears that the extent of soil and groundwater contamination has been adequately defined. In addition, none of the sampled potable wells appears to have been impacted by the release. Therefore, it is recommended that a Site Investigation Report be prepared. Due to the potential presence of free product at monitoring well MW-6 and that groundwater is currently present at an elevation that is approximately 5 feet above the screened interval at that location, it is recommended that an additional shallow monitoring well be installed within a few feet of MW-6 to a depth of approximately 35 feet bgs. The monitoring well would be utilized to evaluate whether a more substantial thickness of free product is present within the well and whether other remedial alternatives are necessary. If groundwater is present within the new shallower well, it is recommended that MW-6 be abandoned.

It is also recommended that the remaining potable wells within 1,200 feet of the site (if any) be sampled. It is recommended that quarterly (or an accelerated sampling schedule due to the PECFA sunset date, if approved by the WDNR) be performed to evaluate the effectiveness of the remedial excavation, and further evaluate the contaminant concentrations, plume stability, and whether this release is co-mingled with the Speaker case. If the contaminant concentrations appear stable and/or decreasing within the source area monitoring well (MW-7L) and other impacted down-gradient monitoring wells (MW-4L and MW-6L), it is recommended that a closure request be prepared, subject to the review and concurrence of the WDNR.

GENERAL COMMENTS

The investigative and remediation activities have been conducted in a manner consistent with that level of care ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. The findings, recommendations and opinions contained herein have been promulgated in accordance with generally accepted practice in similar fields. No other representations expressed or implied, and no warranty or guarantee is included or intended in this report.

The conclusions presented in this report were formulated from the data obtained during the course of exploratory work on the site, which may result in a redirection of conclusions and interpretations where new information is obtained. The regulatory climate and interpretation may also have an effect on the outcome of the environmental investigation for this site. The information contained in this report may have an effect on the value of the property and is considered confidential. Copies of this report will be submitted to others only with authorization from the client.

APPENDIX A
FIGURES



General Engineering Company

P.O. Box 340 • 916 Silver Lake Dr. • Portage, WI 53901
 608-742-2169 (Office) • 608-742-2592 (Fax)
www.generalengineering.net

This document contains confidential or proprietary information of General Engineering Company. Neither this document nor the information herein is to be reproduced, distributed, used or disclosed either in whole or in part except as specifically authorized by General Engineering Company.

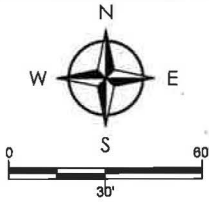
SITE LOCATION MAP

**Former Kreyer Country Store
 (Lutzen Property)
 Town of Mount Ida
 Grant County, WI**



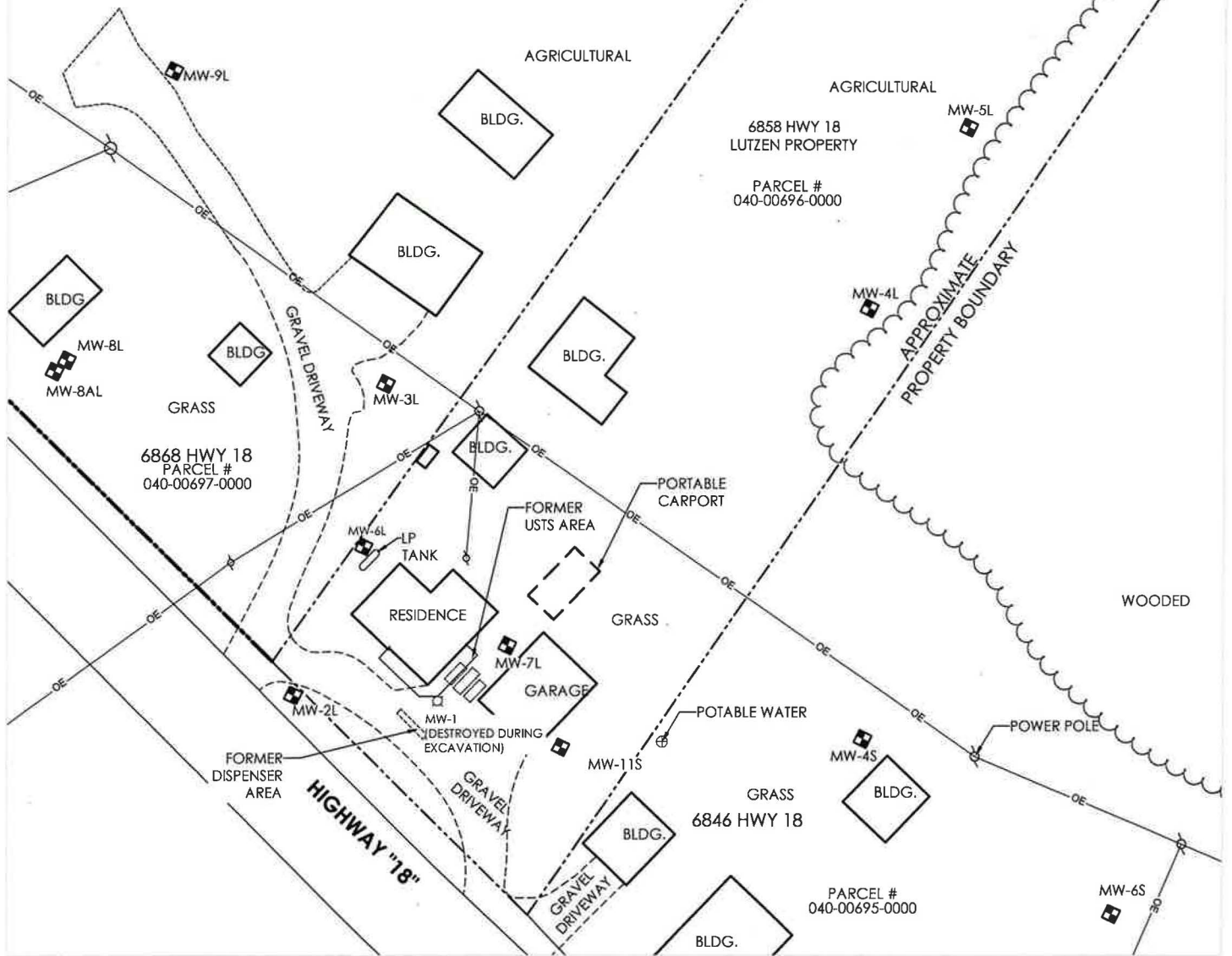
DRAWN BY	KP
REVIEWED BY	LMB
ISSUE DATE	APRIL 2020
GEC FILE NO.	0710-190
SHEET NO.	

FIGURE 1



FORMER UST AREA EXPLANATION

- 2 - 300 GALLON UNLEADED GASOLINE UST
- 1 - 500 GALLON UNLEADED GASOLINE UST



LEGEND

- MONITORING WELL
MW-1L
- MONITORING WELL FOR SPEAKER
MW-1S PROPERTY
- ABANDONED MONITORING WELL
MW-1 (DESTROYED DURING REMEDIATION)

General Engineering Company

P.O. Box 340 • 916 Silver Lake Dr. • Portage, WI 53901
 608-742-2169 (Office) • 608-742-2592 (Fax)
www.generalengineering.net

This document contains confidential or proprietary information of General Engineering Company. Neither this document nor the information herein is to be reproduced, distributed, used or disclosed either in whole or in part except as specifically authorized by General Engineering Company.

SITE PLAN MAP

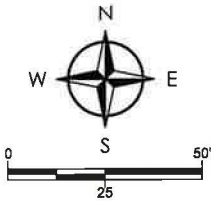
**Former Kreyer Country Store
(Lutzen Property)**

**Town of Mount Ida
Grant County, WI**

GEC

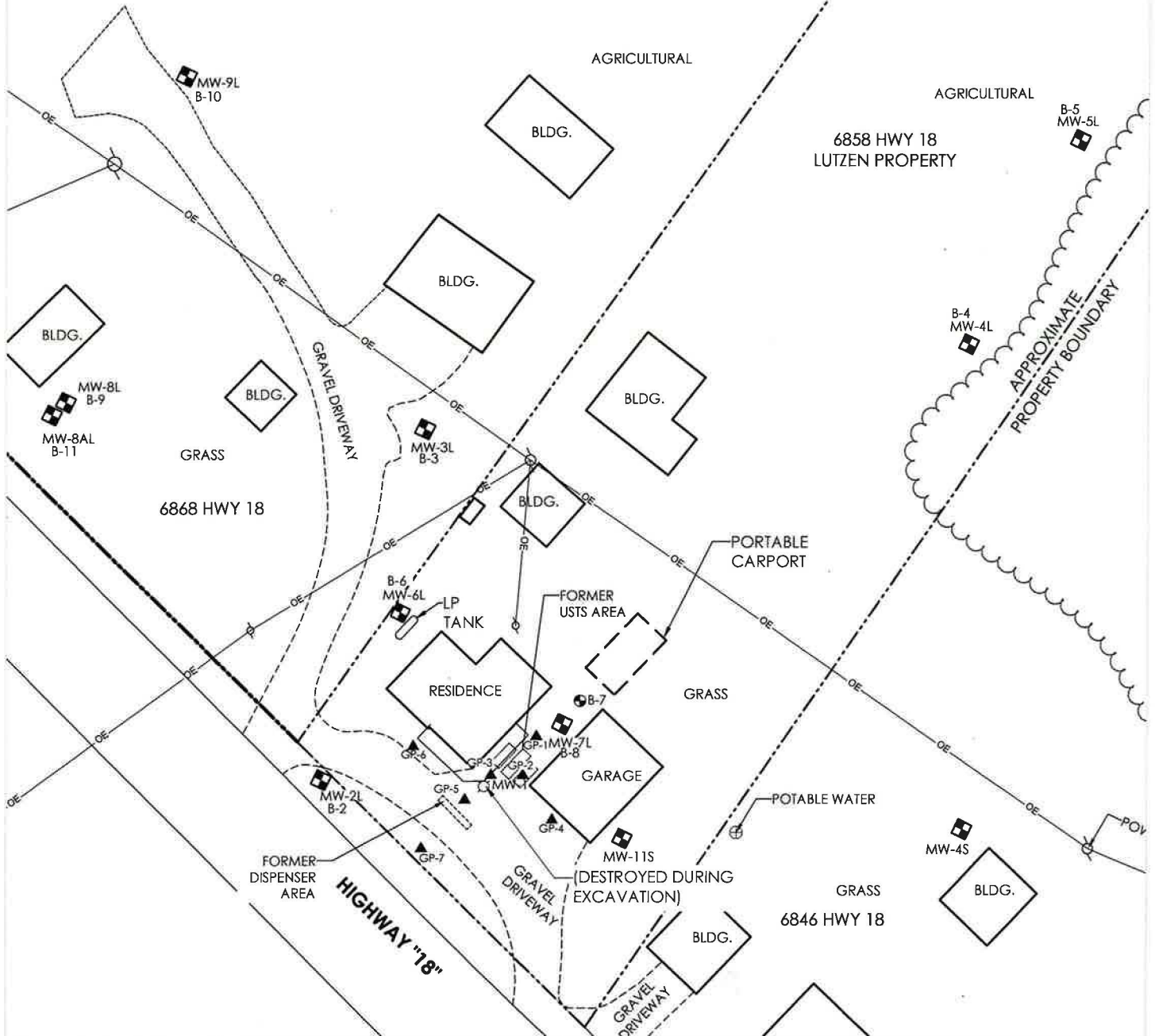
DRAWN BY	KP
REVIEWED BY	LMB
ISSUE DATE	APRIL 2020
GEC FILE NO.	0710-190
SHEET NO.	

FIGURE 2



FORMER UST AREA EXPLANATION

- 2 - 300 GALLON UNLEADED GASOLINE UST
- 1 - 500 GALLON UNLEADED GASOLINE UST



LEGEND	
	SOIL BORING & MONITORING WELL
MW-1L	
B-1	
	SOIL BORING
SB-7	
	GEOPROBE
GP-1	
	MONITORING WELL FOR SPEAKER
MW-1S	PROPERTY

General Engineering Company

P.O. Box 340 • 916 Silver Lake Dr. • Portage, WI 53901
 608-742-2169 (Office) • 608-742-2592 (Fax)
www.generalengineering.net

This document contains confidential or proprietary information of General Engineering Company. Neither this document nor the information herein is to be reproduced, distributed, used or disclosed either in whole or in part except as specifically authorized by General Engineering Company.

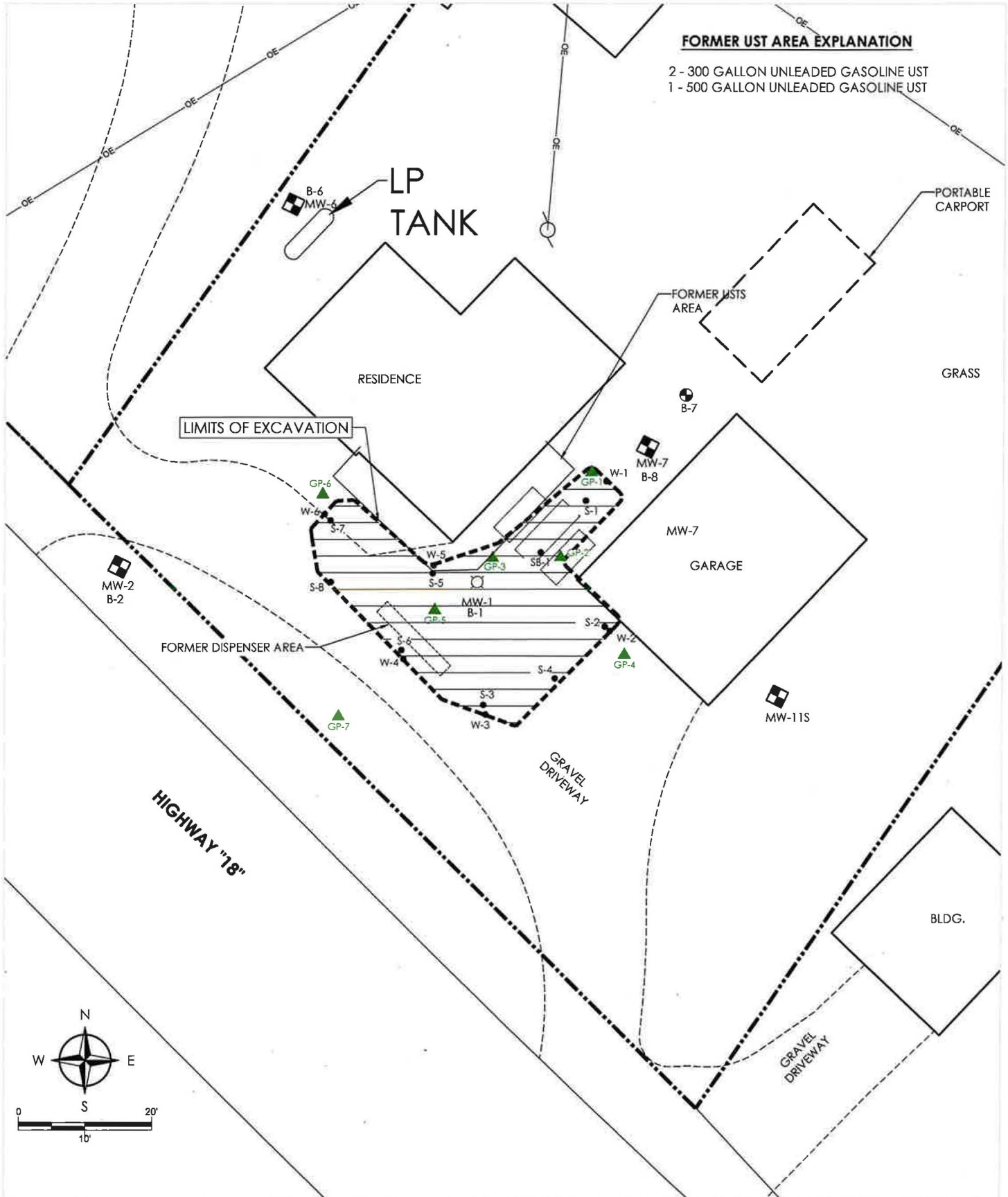
SOIL PROBE, BORING & MONITORING WELL LOCATIONS MAP

Former Kreyer Country Store
(Lutzen Property)
 Town of Mount Ida
 Grant County, WI

GEC

DRAWN BY	KP
REVIEWED BY	LMB
ISSUE DATE	APRIL 2020
GEC FILE NO.	0710-190
SHEET NO.	

FIGURE 3



GEC
 General Engineering Company
 P.O. Box 340 • 818 Shaw Lane Dr. • Piquette, MI 48864
 517.421.2188 (Office) • 517.421.2592 (Fax)
 www.generalengineering.com
 This document is prepared by General Engineering Company. It is not to be used for any other purpose without the written consent of General Engineering Company.

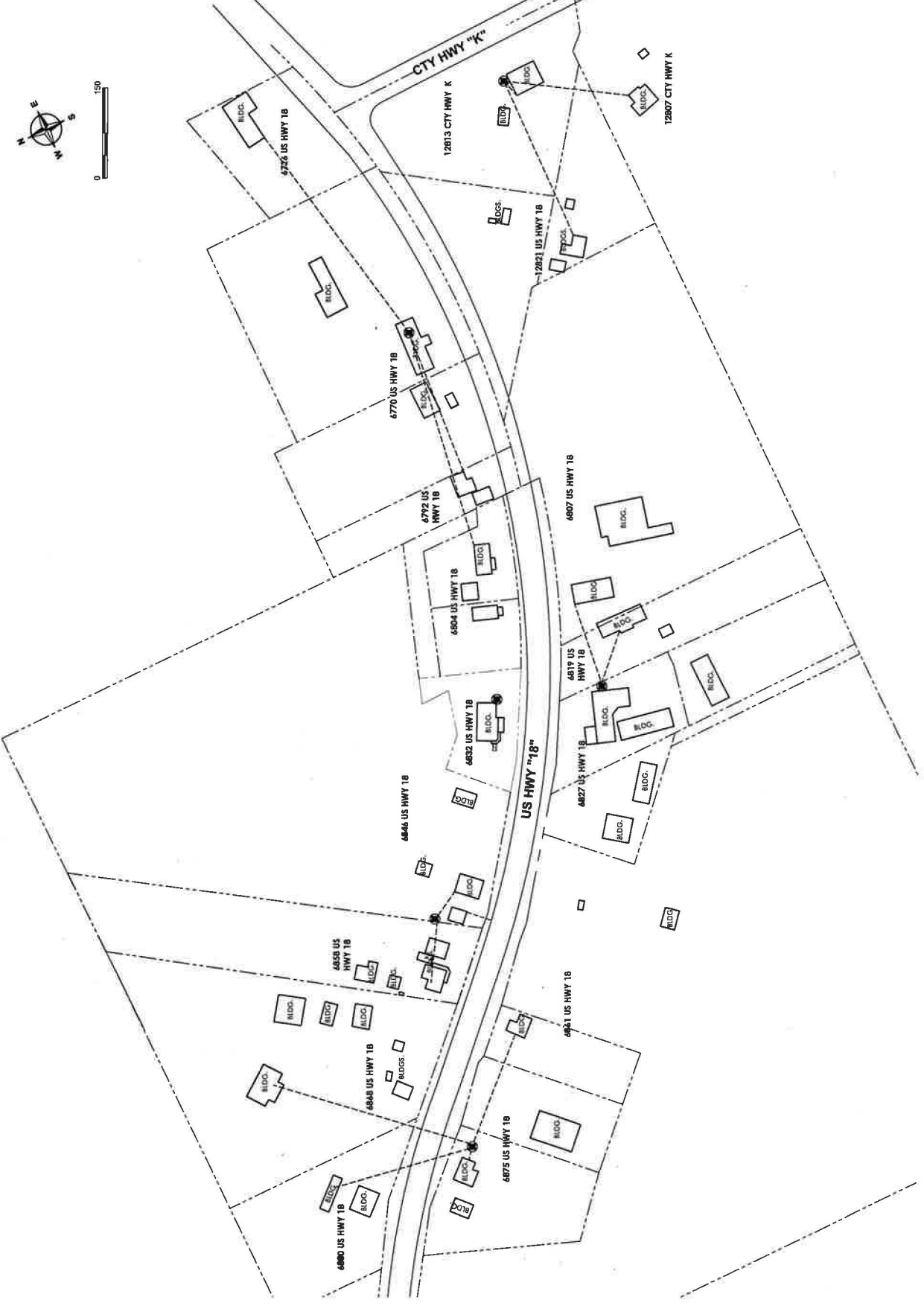
POTABLE WATER LOCATIONS MAP
 FORMER KREYER COUNTRY STORE
 (LUTZEN PROPERTY)
 6858 HWY "18"
 TOWN OF MT. IDA
 GRANT COUNTY, WI

EXPLANATION

- POTABLE WELLS
- APPROXIMATE PROPERTY LINE
- INDICATES PROPERTIES THAT SHARE WELLS

FIGURE 5

DRAWN BY	REVISED BY
DATE	DATE
SCALE	SCALE
SHEET NO.	SHEET NO.



APPENDIX B
TABLES

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS (SOIL PROBES AND BORINGS)
KREYER COUNTRY STORE (LUTZEN PROPERTY)
GEC PROJECT NO. 0710-190

Sample No.	NR 720 Non-Cancer RCL Non-Industrial	NR 720 Direct Contact RCL	NR 720 Cancer RCL Non-Industrial	NR 720 Soil to Groundwater RCL	GP-1	GP-2	GP-2	GP-3	GP-3	GP-4	GP-5	GP-5	GP-6	GP-7	B-2/MW-2	B-3/MW-3	B-4/MW-4	B-8/MW-7		
					09/22/10	09/22/10	09/22/10	09/22/10	09/22/10	09/22/10	09/22/10	09/22/10	09/22/10	09/22/10	09/22/10	09/22/10	09/08/11	09/08/11	09/08/11	09/08/11
					12-13'	3-4	10-12	3-4	11-12	15-16	2-4	13-14	15-16	18-19	7.5-9'	7-9'	5-7'	17-18		
Saturated (S)/Unsaturated (U)					U	U	U	U	U	U	U	U	U	U	U	U	U	S		
PETROLEUM VOLATILE ORGANIC COMPOUNDS (PVOC) (µg/kg)																				
Benzene	106,000	1,600	1,600	5.1	<25	59.9J	4,630	341J	1,380	<25	36.9J	<62.5	<25	<25	<25.0	<25.0	<25.0	800		
Ethylbenzene	4,080,000	8,020	8,020	1,570	<25	225	3,310	2,250	459	<25	<25	1,490	<25	<25	<25.0	<25.0	<25.0	210		
Methyl tert-butyl ether	22,100,000	63,800	63,800	27	<25	<25	<25	<250	160J	<25	<25	<62.5	<25	<25	<25.0	<25.0	<25.0	<25.0		
Naphthalene	178,000	5,520	5,520	658	<25	394	1,150	24,000	13,900	<25	<25	5,190	<25	<25	<25.0	<25.0	<25.0	700		
Toluene	5,240,000	NE	818,000	1,107	<25	81.9	6,010	507J	<100	<25	31.2J	342	<25	<25	<25.0	<25.0	<25.0	150		
1,2,4-Trimethylbenzene	373,000	NE	219,000	1,382	<25	1,740	5,680	21,600	2,540	<25	<25	4,850	<25	<25	<25.0	<25.0	<25.0	4,600		
1,3,5-Trimethylbenzene	339,000	NE	182,000		<25	751	1,880	9,300	5,430	<25	<25	6,060	<25	<25	<25.0	<25.0	<25.0	2,300		
Xylenes, -m, -p	818,000	NE	260,000	3,960	<75	1,545	15,080	11,860	1,924J	<75	<75	5,490	<75	<75	<75.0	<75.0	<75.0	1,270		
Xylenes, -o																				

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

RCL = Residual Contaminant Level

SSL = Soil Screening Level

DCL = Direct Contact Level

NA = Parameter not analyzed

NE = NR 720 RCL not established

J = Analyte detected above laboratory limit of detection but below limit of quantitation.

Bold indicates analytical results exceed NR 720 RCL

**TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
KREYER COUNTRY STORE (LUTZEN PROPERTY)
GEC PROJECT NO. 0710-190**

Monitoring Well	NR 140		MW-1														
	ES	PAL	7/5/2011	11/22/2011	6/21/2012	6/4/2013	7/14/2014	2/11/2016	6/30/2016	10/17/2016	1/18/2017	8/17/2017	1/30/2018	6/7/2018	12/5/2018	3/27/2019	
VOLATILE ORGANIC COMPOUNDS (VOC) (µg/L)																	
Benzene	5	0.5	17.8	13.6	3.8	2.3	<0.24	<0.44	<0.44	<0.46	<0.17	<0.17	<0.22	<0.22	<0.22	<0.22	Well
Ethylbenzene	700	140	2.2	6.7	0.43J	2.2	<0.55	<0.71	<0.71	<0.73	<0.2	<0.2	<0.53	<0.53	<0.53	<0.26	Damaged
Methyl tert-butyl ether	60	12	<0.61	<0.38	<0.38	<0.37	<0.23	<1.1	<1.1	<0.49	<0.82	<0.82	<0.57	<0.57	<0.57	<0.28	During
Toluene	800	160	7	2.5	1.2	<0.58J	<0.69	<0.44	<0.44	<0.39	<0.67	<0.67	<0.45	<0.45	<0.45	<0.19	Remedial
1,2,4 -Trimethylbenzene	480	96	1.1	1	<0.43	<0.33	<2.2	<1.6	<1.6	<0.88	<1.14	<1.14	<0.73	<0.73	<0.73	<0.8	Excavation
1,3,5 -Trimethylbenzene			7.8	1.3	<0.40	<0.36	<1.4	<1.5	<1.5	<0.83	<0.91	<0.91	<0.75	<0.75	<0.75	<0.63	
Xylenes, -m, -p	2000	400	34.8	12	2.91J	1.49J	<1.32	<3.1	<3.1	<2.06	<1.95	<1.95	<1.58	<1.58	<1.58	<0.72	
Xylenes, -o																	
OTHER VOLATILE ORGANIC COMPOUNDS (VOC) (µg/L)																	
1,2-Dichloroethane	5	0.5	1.5	NA	NA	NA	NA	<0.48	<0.48	NA	<0.45	<0.45	NA	NA	NA	NA	
Naphthalene	100	10	<0.89	<0.40	<0.40	<0.37	<1.7	<1.6	<1.6	<2.6	<2.17	<2.17	NA	NA	NA	NA	
LEAD (µg/L)																	
Lead	15	1.5	1.6J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

ES = Enforcement Standard

PAL = Preventive Action Limit

µg/L = micrograms per liter

NA = Parameter not analyzed

NE = NR 140 ES not established

J = Analyte detected above laboratory limit of detection but below limit of quantitation.

Bold indicates analytical results above NR 140 ES

**TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
KREYER COUNTRY STORE (LUTZEN PROPERTY)
GEC PROJECT NO. 0710-190**

Monitoring Well	NR 140		MW-2													
	ES	PAL	6/21/2012	6/4/2013	7/14/2014	2/11/2016	6/30/2016	10/17/2016	1/18/2017	8/17/2017	1/30/2018	6/7/2018	12/5/2018	3/27/2019	12/4/2019	3/24/2020
VOLATILE ORGANIC COMPOUNDS (VOC) (µg/L)																
Benzene	5	0.5	<0.39	<0.34	<0.24	<0.44	<0.44	<0.46	<0.17	<0.17	<0.22	<0.22	<0.22	<0.22	<0.32	<0.48
Ethylbenzene	700	140	<0.41	<0.34	<0.55	<0.71	<0.71	<0.73	<0.2	<0.2	<0.53	<0.26	<0.53	<0.26	<0.29	<0.55
Methyl tert-butyl ether	60	12	<0.38	<0.37	<0.23	<1.1	<1.1	<0.49	<0.82	<0.82	<0.57	<0.28	<0.57	<0.28	<0.24	<0.71
Toluene	800	160	<0.42	<0.34	<0.69	<0.44	<0.44	<0.39	<0.67	<0.67	<0.45	<0.19	<0.45	<0.19	<0.29	<0.62
1,2,4-Trimethylbenzene	480	96	<0.43	<0.33	<2.2	<1.6	<1.6	<0.68	<1.14	<1.14	<0.73	<0.8	<0.73	<0.8	<0.46	<0.71
1,3,5-Trimethylbenzene			<0.40	<0.36	<1.4	<1.5	<1.5	<0.83	<0.91	<0.91	<0.75	<0.63	<0.75	<0.63	<0.67	<0.66
Xylenes, -m, -p	2000	400	<1.25	<1.03	<1.32	<3.1	<3.1	<2.06	<1.95	<1.95	<1.58	<0.72	<1.58	<0.72	<1.22	<2.04
Xylenes, -o			<1.25	<1.03	<1.32	<3.1	<3.1	<2.06	<1.95	<1.95	<1.58	<0.72	<1.58	<0.72	<1.22	<2.04
OTHER VOLATILE ORGANIC COMPOUNDS (VOC) (µg/L)																
1,2-Dichloroethane	5	0.5	NA	NA	NA	<0.48	<0.48	NA	<0.45	<0.45	NA	NA	NA	NA	NA	NA
Naphthalene	100	10	<0.40	<0.37	<1.7	<1.6	<1.6	<2.6	<2.17	<2.17	NA	NA	NA	NA	NA	NA
LEAD (µg/L)																
Lead	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ES = Enforcement Standard

PAL = Preventive Action Limit

µg/L = micrograms per liter

NA = Parameter not analyzed

NE = NR 140 ES not established

J = Analyte detected above laboratory limit of detection but below limit of quantitation.

Bold indicates analytical results above NR 140 ES

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
KREYER COUNTRY STORE (LUTZEN PROPERTY)
GEC PROJECT NO. 0710-190

Monitoring Well	NR 140		MW-3												
	ES	PAL	6/21/2012	7/14/2014	2/11/2016	6/30/2016	10/17/2016	1/18/2017	6/17/2017	1/30/2018	6/7/2018	12/5/2018	3/27/2019	12/4/2019	3/24/2020
VOLATILE ORGANIC COMPOUNDS (VOC) (µg/L)															
Benzene	5	0.5	<0.39	<0.24	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Ethylbenzene	700	140	<0.41	<0.55	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Methyl tert-butyl ether	60	12	<0.38	<0.23	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Toluene	800	160	<0.42	<0.69	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
1,2,4-Trimethylbenzene	480	96	<0.43	<2.2	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
1,3,5-Trimethylbenzene			<0.40	<1.4	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Xylenes, -m, -p	2000	400	<1.25	<1.32	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Xylenes, -o			<1.25	<1.32	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
OTHER VOLATILE ORGANIC COMPOUNDS (VOC) (µg/L)															
1,2-Dichloroethane	5	0.5	NA	NA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
Naphthalene	100	10	<0.40	<1.7	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
LEAD (µg/L)															
Lead	15	1.5	NA	NA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY

ES = Enforcement Standard

PAL = Preventive Action Limit

µg/L = micrograms per liter

NA = Parameter not analyzed

NE = NR 140 ES not established

J = Analyte detected above laboratory limit of detection but below limit of quantitation.

Bold indicates analytical results above NR 140 ES

**TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
KREYER COUNTRY STORE (LUTZEN PROPERTY)
GEC PROJECT NO. 0710-190**

Monitoring Well	NR 140		MW-4														
	ES	PAL	11/22/2011	6/21/2012	6/4/2013	7/14/2014	2/11/2016	6/30/2016	10/17/2016	1/18/2017	8/17/2017	1/30/2018	6/7/2018	12/5/2018	3/27/2019	12/4/2019	3/24/2020
VOLATILE ORGANIC COMPOUNDS (VOC) (µg/L)																	
Benzene	5	0.5	96	211	104	29.2	46	111	70	170	141	63	119	85	106	18.9	79
Ethylbenzene	700	140	21.9	136	77	19.2	33	67	17.2	73	107	27.1	107	55	60	4.9	42
Methyl tert-butyl ether	60	12	<0.61	4.3	3.4	<0.23	<1.1	<1.1	<0.49	<0.82	<0.82	<0.28	<0.28	<0.28	<0.28	<0.24	<0.71
Toluene	800	160	15.9	6.8	11.3	1.93J	5.1	9.3	3.2	10.6	13.2	6.5	16	1.68	2.89	1.26	7.4
1,2,4-Trimethylbenzene	480	96	10.3	71.7	64.4	7.5	28.7	48	17.3	101	117	46	89	57	41	3.7	20.9
1,3,5-Trimethylbenzene			7.7	24.4	1.3	<1.4	2.29J	1.89J	<0.83	1.03J	<0.91	1.01J	<0.63	0.95J	<0.63	<0.67	<0.66
Xylenes, -m, -p	2000	400	38.4	70.4	46.4	<6.43	31.14	37.1	15.28	60.4	83.2	38.4	47	42.1	<39.8	7.52	39.7
Xylenes, -o																	
OTHER VOLATILE ORGANIC COMPOUNDS (VOC) (µg/L)																	
1,2-Dichloroethane	5	0.5	3.5	NA	NA	NA	<0.48	<0.48	NA	1.63	0.82J	1.07	1.07	3.3	3.3	NS	NS
Naphthalene	100	10	2.6J	28	1.8	<1.7	2.3J	3.3J	<2.6	5.6J	16.7	10.2	3.2J	24	<2.1	NS	NS
LEAD (µg/L)																	
Lead	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ES = Enforcement Standard

PAL = Preventive Action Limit

µg/L = micrograms per liter

NA = Parameter not analyzed

NE = NR 140 ES not established

J = Analyte detected above laboratory limit of detection but below limit of quantitation.

Bold indicates analytical results above NR 140 ES

**TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
KREYER COUNTRY STORE (LUTZEN PROPERTY)
GEC PROJECT NO. 0710-190**

Monitoring Well	NR 140		MW-5										MW-6			MW-7	MW-8	MW-8A	MW-9
	ES	PAL	6/30/2016	10/17/2016	1/18/2017	8/17/2017	1/30/2018	6/7/2018	12/5/2018	3/27/2019	12/4/2019	3/24/2020	1/20/2020	2/3/2020	2/3/2020	3/24/2020	3/24/2020	3/24/2020	3/24/2020
VOLATILE ORGANIC COMPOUNDS (VOC) (µg/L)																			
Benzene	5	0.5	<0.44	<0.46	<0.17	DRY	DRY	DRY	DRY	DRY	<0.32	DRY	264	360	150	2,030	0.99J	<0.48	<0.48
Ethylbenzene	700	140	<0.71	<0.73	<0.2	DRY	DRY	DRY	DRY	DRY	<0.29	DRY	1,420	209	590	1,670	0.56J	<0.55	<0.55
Methyl tert-butyl ether	60	12	<1.1	<0.49	<0.82	DRY	DRY	DRY	DRY	DRY	<0.24	DRY	<28	<35.5	<23.5	<47	<0.71	<0.71	<0.71
Toluene	800	160	<0.44	<0.39	<0.67	DRY	DRY	DRY	DRY	DRY	<0.29	DRY	330	180	153	650	0.72J	<0.62	<0.62
1,2,4-Trimethylbenzene	480	96	<1.6	<0.68	<1.14	DRY	DRY	DRY	DRY	DRY	<0.46	DRY	2,630	340	1,630	2,280	0.86J	<0.71	<0.71
1,3,5-Trimethylbenzene			<1.5	<0.83	<0.91	DRY	DRY	DRY	DRY	DRY	<0.67	DRY	770	121	450	630	<0.66	<0.66	<0.66
Xylenes, -m, -p	2000	400	<3.1	<2.06	<1.95	DRY	DRY	DRY	DRY	DRY	<1.22	DRY	5,280	1,190	2,320	6,640	0.93J	<2.04	<2.04
Xylenes, -o																			
OTHER VOLATILE ORGANIC COMPOUNDS (VOC) (µg/L)																			
1,2-Dichloroethane	5	0.5	<0.48	NA	<0.45	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NA	NA	<19.5	<39	NA	NA	NA
Naphthalene	100	10	<1.6	<2.6	<2.17	DRY	DRY	DRY	DRY	DRY	DRY	DRY	380J	47J	156J	450	<1.44	<1.44	<1.44
LEAD (µg/L)																			
Lead	15	1.5	NA	NA	NA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NA	NA	NA	NA	NA	NA	NA

ES = Enforcement Standard
 PAL = Preventive Action Limit
 µg/L = micrograms per liter
 NA = Parameter not analyzed
 NE = NR 140 ES not established
 J = Analyte detected above laboratory limit of detection but below limit of quantitation,
 Bold indicates analytical results above NR 140 ES

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
KREYER COUNTRY STORE (LUTZEN PROPERTY)
GEC PROJECT NO. 0710-190

Monitoring Well	NR 140		SPEAKER PW	PW-1		KLAR PW	FREYMILLER PW	JEIDY PW	PW 6770
Sampling Date	ES	PAL	1/14/2010	6/28/2011	6/7/2018	6/7/2018	12/4/2019	12/4/2019	3/12/2020
VOLATILE ORGANIC COMPOUNDS (VOC) (µg/L)									
Benzene	5	0.5	<0.39	<0.41	<0.22	<0.22	<0.22	<0.22	<0.48
Ethylbenzene	700	140	<0.41	<0.54	<0.26	<0.26	<0.26	<0.26	<0.55
Methyl tert-butyl ether	60	12	<0.38	<0.61	<0.28	<0.28	<0.28	<0.28	<0.71
Toluene	800	160	<0.42	<0.67	<0.19	<0.19	<0.19	<0.19	<0.62
1,2,4 -Trimethylbenzene	480	96	<0.43	<0.97	<0.8	<0.8	<0.8	<0.8	<0.71
1,3,5 -Trimethylbenzene			<0.40	<0.83	<0.63	<0.63	<0.63	<0.63	<0.66
Xylenes, -m, -p	2000	400	<1.25	<2.63	<0.72	<0.72	<0.72	<0.72	<2.04
Xylenes, -o									
OTHER DETECTED VOLATILE ORGANIC COMPOUNDS (VOC) (µg/L)									
Chloromethane	30	3	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5	0.5	NA	<0.36	<0.25	<0.25	<0.25	<0.25	NA
Isopropylbenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
Napthalene	100	10	<0.40	<0.89	<2.1	<2.1	<2.1	<2.1	<1.44
n-Propylbenzene	NE	NE	NA	NA	NA	NA	NA	NA	NA
LEAD (µg/L)									
Lead	15	1.5	NA	NA	NA	NA	NA	NA	NA

ES = Enforcement Standard

PAL = Preventive Action Limit

µg/L = micrograms per liter

NA = Parameter not analyzed

NE = NR 140 ES not established

J = Analyte detected above laboratory limit of detection but below limit of quantitation.

Bold indicates analytical results above NR 140 ES

**TABLE 3
WATER LEVEL DATA
KREYER COUNTRY STORE (LUTZEN PROPERTY)
GEC PROJECT NO. 0710-190**

Monitoring Well Number	Top of Well Casing Elevation	Screen Interval	Date Measured	Depth to Water (Ft.)	Groundwater Elevation (Ft.)
MW-1	1219.51	1177	7/5/2011	37.00	1182.51
			11/22/2011	36.37	1183.14
			6/21/2012	35.12	1184.39
			6/4/2013	30.86	1188.65
		1162	7/14/2014	28.92	1190.59
			6/9/2015	34.37	1185.14
			2/11/2016	34.51	1185.00
			6/30/2016	33.46	1186.05
			10/17/2016	33.81	1185.70
			1/18/2017	36.72	1182.79
			8/17/2017	35.43	1184.08
			1/30/2018	38.61	1180.90
			6/7/2018	34.41	1185.10
			12/5/2018	33.66	1185.85
3/27/2019	35.58	1185.85			
11/20/2019	Well Damaged During Excavation				
MW-2	1220.39	1178.49	7/5/2011	NA	NA
			11/22/2011	DRY	DRY
			6/21/2012	52.35	1168.04
		1163.49	6/4/2013	DRY	DRY
			7/14/2014	55.15	1165.24
			6/9/2015	54.96	1165.43
			2/11/2016	55.65	1164.74
			6/30/2016	55.90	1164.49
			10/17/2016	55.92	1164.47
			1/18/2017	56.10	1164.29
			8/17/2017	56.06	1164.33
			1/30/2018	56.43	1163.96
			6/7/2018	56.16	1164.23
			12/5/2018	55.92	1164.47
			3/27/2019	54.40	1165.99
			12/4/2019	55.37	1165.02
			2/3/2020	Snow and Ice	
3/24/2020	54.67	1165.72			
MW-3	1221.03	1179.62	7/5/2011	NA	NA
			11/22/2011	DRY	DRY
			6/21/2012	51.62	1169.41
		1164.62	6/4/2013	54.35	1166.68
			7/14/2014	56.18	1164.85
			6/9/2015	DRY	DRY
			2/11/2016	DRY	DRY
			6/30/2016	DRY	DRY
			10/17/2016	DRY	DRY
			1/18/2017	DRY	DRY
			8/17/2017	DRY	DRY
			1/30/2018	DRY	DRY
			6/7/2018	DRY	DRY
			12/5/2018	DRY	DRY
			3/27/2019	DRY	DRY
			12/4/2019	DRY	DRY
			2/3/2020	DRY	DRY
3/24/2020	DRY	DRY			
MW-4	1205.18	1172.98	7/5/2011	NA	NA
			11/22/2011	39.44	1165.74
			6/21/2012	41.46	1163.72
		1157.98	6/4/2013	39.67	1165.51
			7/14/2014	40.28	1164.90
			6/9/2015	40.27	1164.91
			2/11/2016	40.18	1165.00
			6/30/2016	40.07	1165.11
			10/17/2016	40.03	1165.15
			1/18/2017	40.06	1165.12
			8/17/2017	40.24	1164.94
			1/30/2018	40.36	1164.82
			6/7/2018	40.27	1164.91
			12/5/2018	40.28	1164.90
			3/27/2019	40.31	1164.87
			12/4/2019	40.24	1164.94
			2/3/2020	NR	--
3/24/2020	40.17	1165.01			

ft = feet
NR=Not recorded
Elevations in feet in reference to Mean Sea Level (MSL)

**TABLE 3
WATER LEVEL DATA
KREYER COUNTRY STORE (LUTZEN PROPERTY)
GEC PROJECT NO. 0710-190**

Monitoring Well Number	Top of Well Casing Elevation	Screen Interval	Date Measured	Depth to Water (Ft.)	Groundwater Elevation (Ft.)
MW-5	1197.66	1167.8	6/30/2016	25.00	1172.66
			10/17/2016	44.07	1153.59
			1/18/2017	43.47	1154.19
		1152.8	8/17/2017	44.10	1153.56
			1/30/2018	DRY	--
			6/7/2018	DRY	--
			12/5/2018	44.08	1153.58
			3/27/2019	44.12	1153.54
			12/4/2019	43.86	1153.80
			2/3/2020	NR	--
			3/24/2020	DRY	--
MW-6	1222.18	1192.18	2/3/2020	49.65	1172.53
			3/24/2020	25.07	1197.11
		1172.18			
MW-7	1219.33	1206.56	3/24/2020	16.43	1202.90
		1191.56			
MW-8	1225.07	1165.7	3/24/2020	73.44	1151.63
		1150.7			
MW-8A	1225	1201.65	3/24/2020	27.40	1197.60
		1186.65			
MW-9	1221.18	1202.56	3/24/2020	22.09	1199.09
		1187.56			

ft = feet
 NR=Not recorded
 Elevations in feet in reference to Mean Sea Level (MSL).

TABLE 4
SUMMARY OF CRAWL SPACE AMBIENT VAPOR ANALYTICAL RESULTS
KREYER COUNTRY STORE (LUTZEN PROPERTY)
GEC PROJECT NO. 0710-190

TABLE 1 REGIONAL SCREENING LEVEL SUMMARY		
Sample No.	Residential Indoor Air VAL	Ambient 1
Sampling Date		01/30/18
	ug/m3	
<i>VOLATILE ORGANIC COMPOUNDS (VOC) (ug/m3)</i>		
Benzene	3.6	0.610
Chloroform	1.2	<0.930
1,1 Dichloroethane	18	<0.685
1,1-Dichloroethene	210	<0.646
cis-1,2-Dichloroethene	NE	<0.515
trans-1,2-Dichloroethene	NE	<0.614
Ethylbenzene	11	<0.733
Trichlorofluoromethane	NE	1.31
Dichlorodifluoromethane	100	1.54
Methylene Chloride	630	<0.538
Naphthalene	0.83	<2.69
Tetrachloroethylene	42	8.23
Toluene	5200	<0.625
1,1,1-Trichloroethane	5200	<1.21
Trichloroethylene	2.1	<0.975
1,2,4-Trimethylbenzene	7.3	<0.790
1,3,5-Trimethylbenzene	NE	<1.03
Vinyl chloride	1.7	<0.389
m&p-Xylene	100	<1.37
o-Xylene	100	<0.915
TPH (GC/MS)	NE	--

UG/M³- Micrograms per Cubic Meter of Air
 Bold indicates analytical results exceed sub-slab screening level

**TABLE 5
SUMMARY OF SOIL ANALYTICAL RESULTS (REMEDIAL EXCAVATION)
KREYER COUNTRY STORE (LUTZEN PROPERTY)
GEC PROJECT NO. 0710-190**

Sample No.	NR 720 Non Cancer RCL	NR 720 Direct Contact RCL	NR 720 Cancer RCL Non- Industrial	NR 720 Soil to Groundwater RCL	Background Threshold	W-1	W-2	W-3	W-4	W-5	W-6	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	SB-1	
						11/19/19	11/20/19	11/20/19	11/20/19	11/20/19	11/20/19	11/19/19	11/20/19	11/20/19	11/20/19	11/20/19	11/20/19	11/20/19	11/20/19	11/20/19	11/20/19
Sample Depth (feet)	Non- Industrial	Contact RCL	Non- Industrial	Groundwater RCL	Threshold	4	4	4	4	4	4	11	17	17	10	14	10	10	14	17	
Saturated (S)/Unsaturated (U)						U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	
LEAD (mg/kg)																					
Lead	400	400	NE	27	52	35	26.8	15.3	13.6	13.3	12.8	NE	72.5	52.2	46.5	124	35.9	269	NS	52.1	
PETROLEUM VOLATILE ORGANIC COMPOUNDS (PVOC) (µg/kg)																					
Benzene	106,000	1,600	1,600	5.1	NE	<25	<25	<25	<25	<25	<25	36J	<25	<25	<25	100	<25.0	<25.0	<25.0	470	
Ethylbenzene	4,080,000	8,020	8,020	1,570	NE	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	
Methyl tert-butyl ether	22,100,000	63,800	63,800	27	NE	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	
Naphthalene	178,000	5,520	5,520	658	NE	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	36	<25.0	<25.0	<25.0	33	
Toluene	5,240,000	NE	818,000	1,107	NE	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	25.4J	35J	<25.0	<25.0	27.8	
1,2,4-Trimethylbenzene	373,000	NE	219,000	1,382	NE	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25.0	<25.0	<25.0	<25.0	<25.0	
1,3,5-Trimethylbenzene	339,000	NE	182,000			<25	<25	<25	<25	<25	<25	<25	<25	25.6J	<25	<25	<25.0	<25.0	<25.0	<25.0	51
Xylenes, -m, -p	818,000	NE	260,000	3,960	NE	<75	<75	<75	<75	<75	<75	<75	<75	<75	28.9J	135J	<75.0	<75.0	<75.0	35.2J	
Xylenes, -o																					

mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
RCL = Residual Contaminant Level
NS = Parameter Not Sampled
DCL = Direct Contact Level
NA = Parameter not analyzed
NE = NR 720 RCL not established
J = Analyte detected above laboratory limit of detection but below limit of quantitation.
Bold indicates analytical results exceed NR 720 RCL

APPENDIX C

**REMEDIAL EXCAVATION SOIL ANALYTICAL REPORT
AND CHAIN OF CUSTODY FORM**

Lab I.D. #
 QUOTE # :
 Project #:
 Sampler: (signature) *[Signature]*

www.synergy-lab.net
 1990 Prospect Ct. • Appleton, WI 54914
 920-830-2455 • mrsynergy@wi.twcbc.com

Sample Handling Request
 Rush Analysis Date Required: _____
 (Rushes accepted only with prior authorization)
 Normal Turn Around

Project (Name / Location): *Lu 720 / MD Eden*

Reports To: _____ Invoice To: _____
 Company: *SPP* Company: *C/O GE*
 Address: _____ Address: _____
 City State Zip: _____ City State Zip: _____
 Phone: *01* Phone: _____
 Email: _____ Email: _____

Analysis Requested										Other Analysis									
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	B-ACRA METALS	PID/ FID				
		X					X												
		X					X								256				

Lab I.D.	Sample I.D.	Collection Date	Time	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
S05175M	S-7 10'	11/2/19	P/A	N	1 2/100	S	3
N	S-8 14'				1 2/100	S	2
0	SB-1 17'				1 mult 2/100	S	3

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

Sample Integrity - To be completed by receiving lab.
 Method of Shipment: *Chut*
 Temp. of Temp. Blank: _____ °C On Ice:
 Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) *[Signature]* Time _____ Date *11/21/19*
 Received in Laboratory By: *[Signature]* Time: *9:33* Date: *11/21/19*

Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

BRIAN YOUNGWIRTH
 GENERAL ENGINEERING
 916 SILVER LAKE DRIVE
 PORTAGE, WI 53901

Report Date 11-Dec-19

Project Name LUTZEN/MT IDA
 Project #

Invoice # E37175

Lab Code 5037175A
 Sample ID W-1 4'
 Sample Matrix Soil
 Sample Date 11/19/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	72.8	%			1	5021		11/22/2019	NJC	1
Inorganic										
Metals										
Lead, Total	35.0	mg/Kg	0.17	0.58	1	6010B		11/29/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.018	0.056	1	GRO95/8021		12/2/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/2/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.025	0.01	1	GRO95/8021		12/2/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.055	1	GRO95/8021		12/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/2/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.026	0.083	1	GRO95/8021		12/2/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.013	0.056	1	GRO95/8021		12/2/2019	CJR	1

Project Name LUTZEN/MT IDA

Invoice # E37175

Project #

Lab Code 5037175B

Sample ID W-2 4'

Sample Matrix Soil

Sample Date 11/20/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	72.5	%			1	5021		11/22/2019	NJC	1
Inorganic										
Metals										
Lead, Total	26.8	mg/Kg	0.17	0.58	1	6010B		11/29/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.018	0.056	1	GRO95/8021		12/2/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/2/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.025	0.01	1	GRO95/8021		12/2/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.055	1	GRO95/8021		12/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/2/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.026	0.083	1	GRO95/8021		12/2/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.013	0.056	1	GRO95/8021		12/2/2019	CJR	1

Lab Code 5037175C

Sample ID W-3 4'

Sample Matrix Soil

Sample Date 11/20/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	71.3	%			1	5021		11/22/2019	NJC	1
Inorganic										
Metals										
Lead, Total	15.3	mg/Kg	0.17	0.58	1	6010B		11/29/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.018	0.056	1	GRO95/8021		12/2/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/2/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.025	0.01	1	GRO95/8021		12/2/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.055	1	GRO95/8021		12/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/2/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.026	0.083	1	GRO95/8021		12/2/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.013	0.056	1	GRO95/8021		12/2/2019	CJR	1

Project Name LUTZEN/MT IDA

Invoice # E37175

Project #

Lab Code 5037175D

Sample ID W-4 4'

Sample Matrix Soil

Sample Date 11/20/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	71.8	%			1	5021		11/22/2019	NJC	1
Inorganic										
Metals										
Lead, Total	13.6	mg/Kg	0.17	0.58	1	6010B		11/29/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.018	0.056	1	GRO95/8021		12/2/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/2/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.025	0.01	1	GRO95/8021		12/2/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.055	1	GRO95/8021		12/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/2/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.026	0.083	1	GRO95/8021		12/2/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.013	0.056	1	GRO95/8021		12/2/2019	CJR	1

Lab Code 5037175E

Sample ID W-5 4'

Sample Matrix Soil

Sample Date 11/20/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	79.9	%			1	5021		11/22/2019	NJC	1
Inorganic										
Metals										
Lead, Total	13.3	mg/Kg	0.17	0.58	1	6010B		11/29/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.018	0.056	1	GRO95/8021		12/2/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/2/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.025	0.01	1	GRO95/8021		12/2/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.055	1	GRO95/8021		12/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/2/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.026	0.083	1	GRO95/8021		12/2/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.013	0.056	1	GRO95/8021		12/2/2019	CJR	1

Project Name LUTZEN/MT IDA

Invoice # E37175

Project #

Lab Code 5037175F

Sample ID W-6 4'

Sample Matrix Soil

Sample Date 11/20/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	80.2	%			1	5021		11/22/2019	NJC	1
Inorganic										
Metals										
Lead, Total	12.8	mg/Kg	0.17	0.58	1	6010B		11/29/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.018	0.056	1	GRO95/8021		12/2/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/2/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.025	0.01	1	GRO95/8021		12/2/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.055	1	GRO95/8021		12/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/2/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.026	0.083	1	GRO95/8021		12/2/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.013	0.056	1	GRO95/8021		12/2/2019	CJR	1

Lab Code 5037175G

Sample ID S-1 11'

Sample Matrix Soil

Sample Date 11/19/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	76.4	%			1	5021		11/22/2019	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	0.036 "J"	mg/kg	0.018	0.056	1	GRO95/8021		12/2/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/2/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/2/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.025	0.01	1	GRO95/8021		12/2/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.055	1	GRO95/8021		12/2/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/2/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/2/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.026	0.083	1	GRO95/8021		12/2/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.013	0.056	1	GRO95/8021		12/2/2019	CJR	1

Project Name LUTZEN/MT IDA

Invoice # E37175

Project #

Lab Code 5037175H
 Sample ID S-2 17'
 Sample Matrix Soil
 Sample Date 11/20/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	61.0	%			1	5021		11/22/2019	NJC	1
Inorganic										
Metals										
Lead, Total	72.5	mg/Kg	0.17	0.58	1	6010B		11/29/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.018	0.056	1	GRO95/8021		12/3/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/3/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/3/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.025	0.01	1	GRO95/8021		12/3/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.055	1	GRO95/8021		12/3/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/3/2019	CJR	1
1,3,5-Trimethylbenzene	0.0256 "J"	mg/kg	0.011	0.036	1	GRO95/8021		12/3/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.026	0.083	1	GRO95/8021		12/3/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.013	0.056	1	GRO95/8021		12/3/2019	CJR	1

Lab Code 5037175I
 Sample ID S-3 17'
 Sample Matrix Soil
 Sample Date 11/20/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	65.9	%			1	5021		11/22/2019	NJC	1
Inorganic										
Metals										
Lead, Total	52.2	mg/Kg	0.17	0.58	1	6010B		11/29/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.018	0.056	1	GRO95/8021		12/3/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/3/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/3/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.025	0.01	1	GRO95/8021		12/3/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.055	1	GRO95/8021		12/3/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/3/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/3/2019	CJR	1
m&p-Xylene	< 0.050	mg/kg	0.026	0.083	1	GRO95/8021		12/3/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.013	0.056	1	GRO95/8021		12/3/2019	CJR	1

Project #

Lab Code 5037175J
 Sample ID S-4 10'
 Sample Matrix Soil
 Sample Date 11/20/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	67.7	%			1	5021		11/22/2019	NJC	1
Inorganic										
Metals										
Lead, Total	46.5	mg/Kg	0.17	0.58	1	6010B		11/29/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.018	0.056	1	GRO95/8021		12/3/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/3/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/3/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.025	0.01	1	GRO95/8021		12/3/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.055	1	GRO95/8021		12/3/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/3/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/3/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.026	0.083	1	GRO95/8021		12/3/2019	CJR	1
o-Xylene	0.0289 "J"	mg/kg	0.013	0.056	1	GRO95/8021		12/3/2019	CJR	1

Lab Code 5037175K
 Sample ID S-5 14'
 Sample Matrix Soil
 Sample Date 11/20/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	65.4	%			1	5021		11/22/2019	NJC	1
Inorganic										
Metals										
Lead, Total	124	mg/Kg	3.4	11.6	20	6010B		12/10/2019	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	0.1	mg/kg	0.018	0.056	1	GRO95/8021		12/3/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/3/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/3/2019	CJR	1
Naphthalene	0.036	mg/kg	0.025	0.01	1	GRO95/8021		12/3/2019	CJR	1
Toluene	0.0254 "J"	mg/kg	0.013	0.055	1	GRO95/8021		12/3/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/3/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/3/2019	CJR	1
m&p-Xylene	0.079 "J"	mg/kg	0.026	0.083	1	GRO95/8021		12/3/2019	CJR	1
o-Xylene	0.056 "J"	mg/kg	0.013	0.056	1	GRO95/8021		12/3/2019	CJR	1

Project Name LUTZEN/MT IDA
Project #

Invoice # E37175

Lab Code 5037175L
Sample ID S-6 10'
Sample Matrix Soil
Sample Date 11/20/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	64.1	%			1	5021		11/22/2019	NJC	1
Inorganic										
Metals										
Lead, Total	35.9	mg/Kg	0.17	0.58	1	6010B		11/29/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.018	0.056	1	GRO95/8021		12/3/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/3/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/3/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.025	0.01	1	GRO95/8021		12/3/2019	CJR	1
Toluene	0.035 "J"	mg/kg	0.013	0.055	1	GRO95/8021		12/3/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/3/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/3/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.026	0.083	1	GRO95/8021		12/3/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.013	0.056	1	GRO95/8021		12/3/2019	CJR	1

Lab Code 5037175M
Sample ID S-7 10'
Sample Matrix Soil
Sample Date 11/20/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	73.1	%			1	5021		11/22/2019	NJC	1
Inorganic										
Metals										
Lead, Total	269	mg/Kg	0.17	0.58	1	6010B		11/29/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.018	0.056	1	GRO95/8021		12/4/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/4/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/4/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.025	0.01	1	GRO95/8021		12/4/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.055	1	GRO95/8021		12/4/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/4/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/4/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.026	0.083	1	GRO95/8021		12/4/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.013	0.056	1	GRO95/8021		12/4/2019	CJR	1

Project Name LUTZEN/MT IDA

Invoice # E37175

Project #

Lab Code 5037175N

Sample ID S-8 14'

Sample Matrix Soil

Sample Date 11/20/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	61.2	%			1	5021		11/22/2019	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.018	0.056	1	GRO95/8021		12/4/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/4/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/4/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.025	0.01	1	GRO95/8021		12/4/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.055	1	GRO95/8021		12/4/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/4/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/4/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.026	0.083	1	GRO95/8021		12/4/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.013	0.056	1	GRO95/8021		12/4/2019	CJR	1

Lab Code 5037175O

Sample ID SB-1 17'

Sample Matrix Soil

Sample Date 11/20/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	60.7	%			1	5021		11/22/2019	NJC	1
Inorganic										
Metals										
Lead, Total	52.1	mg/Kg	0.17	0.58	1	6010B		11/29/2019	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	0.47	mg/kg	0.018	0.056	1	GRO95/8021		12/4/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		12/4/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/4/2019	CJR	1
Naphthalene	0.033	mg/kg	0.025	0.01	1	GRO95/8021		12/4/2019	CJR	1
Toluene	0.0278 "J"	mg/kg	0.013	0.055	1	GRO95/8021		12/4/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/4/2019	CJR	1
1,3,5-Trimethylbenzene	0.051	mg/kg	0.011	0.036	1	GRO95/8021		12/4/2019	CJR	1
m&p-Xylene	0.08 "J"	mg/kg	0.026	0.083	1	GRO95/8021		12/4/2019	CJR	1
o-Xylene	0.0272 "J"	mg/kg	0.013	0.056	1	GRO95/8021		12/4/2019	CJR	1

APPENDIX D
SOIL AND GROUNDWATER DISPOSAL
DOCUMENTATION

Date 12/02/19
 Time 14:17:24

La Crosse County, WI

Page 1

Material Analysis Report by Material

Inbound and outbound materials for the period 11/01/2019 - 12/02/2019
 Summary Report for Sites: 1, 2, 99

Accounts 50069 - 50069 Customer Types - Z Materials - ZZZZZZZZZZ Material Types - ZZ

Date	Material	Type	Customer	Type	Tickets	Count	Est. vol.	Act. Vol.	Est. Wt.	Actual Wt.	Charge
	ADC			Total	26	0	0	0	(658.10)	658.10	15,794.40
	(Speaker)			Average		0	0	0	25.31	25.31	607.48
	BIOPILE			Total	21	0	0	0	(531.68)	531.68	15,950.40
	(Lutzen)			Average		0	0	0	25.32	25.32	759.54
	PERMITB			Total	9	9	0	0	0.00	0.00	225.00
				Average		1	0	0	0.00	0.00	25.00
				Report Total	56	9	0	0	1189.78	1189.78	31,969.80
				Report Average		0	0	0	21.25	21.25	570.89

(Speaker)
 (Lutzen)

La Crosse County Solid Waste

3200 Berlin Drive
 La Crosse, WI 54601
 Phone: (608) 785-9572

INVOICE

Account #	
50069	
Invoice #	
1760	
Invoice Date	Terms
11/30/2019	Net EOM
Current Charges	Total Due
\$ 31,969.80	\$ 31,969.80

Bill To: General Engineering Company
 916 Silver Lake Drive
 Portage, WI 53901

total ²²⁵ 31,744.80

Date	Ticket	Truck	Reference	Description	Quantity	Amount
				Previous Balance		0.00
11/18/19	01-00043086	SW1019-03	151	ADC Petro Impacted S	27.25	654.00
11/18/19	01-00043086	SW1019-03	151	Permit 3 Day	1.00	25.00
11/18/19	01-00043091	SW1019-03A	110	ADC Petro Impacted S	25.69	616.56
11/18/19	01-00043091	SW1019-03A	110	Permit 3 Day	1.00	25.00
11/18/19	01-00043098	SW1019-03	112	ADC Petro Impacted S	26.16	627.84
11/18/19	01-00043098	SW1019-03	112	Permit 3 Day	1.00	25.00
11/18/19	01-00043099	SW1019-03A	19-01	ADC Petro Impacted S	20.60	494.40
11/18/19	01-00043099	SW1019-03A	19-01	Permit 3 Day	1.00	25.00
11/18/19	01-00043100	SW1019-03B	8	ADC Petro Impacted S	21.37	512.88
11/18/19	01-00043100	SW1019-03B	8	Permit 3 Day	1.00	25.00
11/18/19	01-00043102	SW1019-03C	109	ADC Petro Impacted S	25.62	614.88
11/18/19	01-00043102	SW1019-03C	109	Permit 3 Day	1.00	25.00
11/18/19	01-00043104	SW1019-03D	113	ADC Petro Impacted S	25.70	616.80
11/18/19	01-00043104	SW1019-03D	113	Permit 3 Day	1.00	25.00
11/18/19	01-00043115	SW1019-03	104	ADC Petro Impacted S	23.00	552.00
11/18/19	01-00043115	SW1019-03	104	Permit 3 Day	1.00	25.00
11/18/19	01-00043116	SW1019-03A	115	ADC Petro Impacted S	24.52	588.48
11/18/19	01-00043116	SW1019-03A	115	Permit 3 Day	1.00	25.00
11/18/19	01-00043196	SW1019-03	110	ADC Petro Impacted S	29.09	698.16
11/18/19	01-00043203	SW1019-03A	19-01	ADC Petro Impacted S	24.74	593.76
11/18/19	01-00043213	SW1019-03B	109	ADC Petro Impacted S	25.82	619.68
11/18/19	01-00043221	SW1019-03	113	ADC Petro Impacted S	27.01	648.24
11/19/19	01-00043248	SW1019-03	112	ADC Petro Impacted S	25.62	614.88
11/19/19	01-00043250	SW1019-03A	115	ADC Petro Impacted S	24.89	597.36
11/19/19	01-00043252	SW1019-03B	8	ADC Petro Impacted S	25.24	605.76
11/19/19	01-00043253	SW1019-03C	104	ADC Petro Impacted S	25.75	618.00
11/19/19	01-00043263	SW1019-03	151	ADC Petro Impacted S	26.97	647.28
11/19/19	01-00043273	SW1019-03	19-01	ADC Petro Impacted S	22.13	531.12
11/19/19	01-00043275	SW1019-03A	109	ADC Petro Impacted S	27.11	650.64
11/19/19	01-00043283	SW1019-03B	113	ADC Petro Impacted S	25.29	606.96
11/19/19	01-00043285	SW1019-03	110	ADC Petro Impacted S	24.59	590.16
11/19/19	01-00043327	SW1019-03	112	ADC Petro Impacted S	28.24	677.76
11/19/19	01-00043330	SW1019-03A	115	ADC Petro Impacted S	27.11	650.64
11/19/19	01-00043332	SW1019-03B	104	ADC Petro Impacted S	23.87	572.88
11/19/19	01-00043337	SW1019-03C	8	ADC Petro Impacted S	24.72	593.28
11/19/19	01-00043354	SW1019-02	151	Biopile Pet Impact S	28.61	858.30
11/19/19	01-00043365	SW1019-02A	109	Biopile Pet Impact S	26.13	783.90
11/19/19	01-00043368	SW1019-02	19-01	Biopile Pet Impact S	22.89	686.70
11/19/19	01-00043374	SW1019-02A	113	Biopile Pet Impact S	25.57	767.10

Speaker 658.10 tons \$24/ton
Lutz

La Crosse County Solid Waste Invoice

Account #: 50069
 Invoice #: 1760
 Total Due: \$ 31,969.80

Date	Ticket	Truck	Reference	Description	Quantity	Amount
11/19/19	01-00043379	SW1019-02	110	Biopile Pet Impact S	26.95	808.50
11/20/19	01-00043419	SW1019-02	115	Biopile Pet Impact S	27.69	830.70
11/20/19	01-00043420	SW1019-02A	8	Biopile Pet Impact S	25.18	755.40
11/20/19	01-00043421	SW1019-02B	104	Biopile Pet Impact S	25.91	777.30
11/20/19	01-00043433	SW1019-02	112	Biopile Pet Impact S	28.56	856.80
11/20/19	01-00043437	SW1019-02A	151	Biopile Pet Impact S	27.68	830.40
11/20/19	01-00043446	SW1019-02	19-01	Biopile Pet Impact S	24.57	737.10
11/20/19	01-00043451	SW1019-02	109	Biopile Pet Impact S	24.97	749.10
11/20/19	01-00043452	SW1019-02A	113	Biopile Pet Impact S	24.67	740.10
11/20/19	01-00043486	SW1019-02	110	Biopile Pet Impact S	27.53	825.90
11/20/19	01-00043499	SW1019-02	115	Biopile Pet Impact S	25.01	750.30
11/20/19	01-00043507	SW1019-02B	104	Biopile Pet Impact S	22.67	680.10
11/20/19	01-00043520	SW1019-02	8	Biopile Pet Impact S	22.68	680.40
11/20/19	01-00043531	SW1019-02	112	Biopile Pet Impact S	24.51	735.30
11/20/19	01-00043542	SW1019-02A	151	Biopile Pet Impact S	24.94	748.20
11/20/19	01-00043543	SW1019-02B	19-01	Biopile Pet Impact S	22.21	666.30
11/20/19	01-00043551	SW1019-02	109	Biopile Pet Impact S	22.75	682.50

Lutzen 531.68 tons @ 30/ton

Net weight: 1,189.78

Invoice amount excluding Finance charge	\$ 31,969.80
Finance charge	\$ 0.00
Current charges	\$ 31,969.80
Payments received	\$ 0.00
Previous Balance Due	\$ 0.00
Total Amount Due	\$ 31,969.80

0 - 29	30 - 59	60 - 89	Over 90
31,969.80	0.00	0.00	0.00

= 225.⁰⁶

Please reference Account # 50069 and Invoice # 1760 when submitting payment.

APPENDIX E

MONITORING WELL ABANDONMENT FORMS

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, 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. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County <u>Grant</u>		WI Unique Well # of Removed Well		Hicap #		Facility Name <u>Kroyer Country Store</u>	
Latitude / Longitude (see instructions) <u>42.9726559</u> N <u>-90.7615856</u> W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)	
1/4 1/4 NW 1/4 NW or Gov't Lot #		Section <u>29</u>		Township <u>6 N</u>		Range <input type="checkbox"/> E <input checked="" type="checkbox"/> W	
Well Street Address <u>6858 STA 18</u>				Original Well Owner <u>Jeff E Gloria Lutzen</u>			
Well City, Village or Town <u>MAIDA</u>				Present Well Owner <u>Jim</u>			
Subdivision Name				Well ZIP Code <u>53809</u>		Mailing Address of Present Owner <u>6858 STA 18</u>	
Reason for Removal from Service <u>3/10/20</u>				WI Unique Well # of Replacement Well		City of Present Owner <u>Franklin</u>	
State				State		ZIP Code <u>53809</u>	

3. Filled & Sealed Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) <u>3/10/20</u>		Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Liner(s) removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Borehole / Drillhole		Construction Type:		Liner(s) perforated?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		Screen removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Other (specify): _____		<input type="checkbox"/> Dug		Casing left in place?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Formation Type:				Was casing cut off below surface?			
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Total Well Depth From Ground Surface (ft.) <u>12</u>		Casing Diameter (in.) <u>12</u>		Did sealing material rise to surface?			
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Was well annular space grouted?				Did material settle after 24 hours?			
<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
If yes, to what depth (feet)?		Depth to Water (feet) <u>2.0</u>		If yes, was hole retopped?			
_____		_____		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
5. Material Used to Fill Well / Drillhole				Required Method of Placing Sealing Material			
<u>3/8" chips</u>		From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)	
_____		Surface		12		8 Bags	
_____		_____		_____		_____	
6. Comments				Sealing Materials			
_____				<input type="checkbox"/> Neat Cement Grout			
_____				<input type="checkbox"/> Sand-Cement (Concrete) Grout			
_____				<input type="checkbox"/> Concrete			
_____				<input type="checkbox"/> Bentonite Chips			
_____				For Monitoring Wells and Monitoring Well Boreholes Only:			
_____				<input type="checkbox"/> Bentonite Chips			
_____				<input type="checkbox"/> Bentonite - Cement Grout			
_____				<input type="checkbox"/> Granular Bentonite			
_____				<input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used to Fill Well / Drillhole				DNR Use Only	
From (ft.)		To (ft.)		Date Received	
Surface		12		Noted By	
_____		_____		_____	
_____		_____		_____	

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <u>General Engineering Company</u>		License #		Date Received	
Street or Route <u>916 Silver Lake Drive</u>		Date of Filling & Sealing or Verification (mm/dd/yyyy) <u>3/10/20</u>		Noted By	
City <u>Portage</u>		Telephone Number <u>(608) 742 2169</u>		Comments	
State <u>WI</u>		ZIP Code <u>53901</u>		Signature of Person Doing Work <u>[Signature]</u>	
_____		_____		Date Signed <u>4/9/20</u>	