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*Engineers • Consultants • Inspectors*

November 21, 2019

Erin Niemisto  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, WI 53711

**SUBJECT: LIMITED PHASE II ENVIRONMENTAL SITE ASSESMENT  
AND NO FURTHER ACTION REQUEST**  
Templin Property  
102 W Maple  
Lime Ridge, Sauk County, Wisconsin  
WDNR 03-57-002197

Dear Ms. Niemisto,

Attached is a Limited Phase II Environmental Site Assessment and request for No Further Action (NFA) for the Templin Property, located at 102 W Maple Street, in the Village of Lime Ridge, Sauk County, Wisconsin

Please feel free to contact General Engineering Company with any questions at 608-742-2169.

Sincerely yours,

**GENERAL ENGINEERING COMPANY**

A handwritten signature in cursive script that reads 'Lynn M. Bradley'.

**Lynn M. Bradley**  
Environmental Project Manager

Portage

• Black River Falls

• La Crosse



Consulting Engineering • Structural Engineering • Building Design • Environmental Services • Building Inspection • GIS Services  
Grants & Funding Services • Land Surveying • Zoning Administration • Mechanical, Electrical, & Plumbing Services



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## Status Update Report

Templin Property

102 W. Maple St., Lime Ridge, Sauk County, WI

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## INTRODUCTION

### General

This report presents the findings and conclusions of the Limited Phase II Environmental Site Assessment (ESA) performed at the Templin Property, located at 102 W Maple Street, in the Village of Lime Ridge, Sauk County, Wisconsin. The activities were performed at the request and authorization of Sauk County; it is understood Sauk County may be acquiring the property through tax evasion.

### Purpose

The purpose of the work was to evaluate soil conditions at the subject site, due to diesel contamination encountered during a site assessment of an approximate 1,100-gallon underground storage tank (UST) removed from the property on August 23, 1994.

### Scope

The planned scope of the assessment included the advancement of three (3) soil probes to a depth of approximately 20 feet below the ground surface (BGS), or until refusal; collect soil samples from the soil probes; collect a groundwater sample, if encountered; and preparation of this report.

The assessment activities were structured specifically to evaluate whether a widespread release had occurred as result of the contamination detected during a site assessment for an UST removed from the property on April 23, 1994. The assessment is not sufficient to evaluate whether a small isolated release has occurred on the property. It should not be considered an all-inclusive search for hazardous substances across the property.

## SITE FEATURES AND BACKGROUND

### Site Features

The subject site is currently a vacant parcel of land (Sauk County Parcel Number 148-0092-00000), less than one acre in size, located approximately 100 feet west of the intersection of County Hwy G and West Maple Street (County Hwy K), in the Village of Lime Ridge, Sauk County, Wisconsin. A Site Location Map is shown on Figure 1, Appendix A. A site plan is shown on Figure 2, Appendix A.

The topography of the subject site is relatively flat. The property is located in an area of Lime Ridge developed primarily with residential and commercial properties. The property is bordered to the north by West Maple Street, followed by residential and downtown commercial properties; to the east by a vacant parking lot, followed by County Highway G; to the south by a tavern and an alley and commercial property; and to the west by residential properties.

### Background

General Engineering reviewed an Underground Tank Site Assessment Report prepared for the property by Marell Inc., located in Hillsboro, Wisconsin, dated June 1994 regarding an approximate 1,100-gallon underground storage tank removed from the property on May 23, 1994. The report was provided to General Engineering by the Wisconsin Department of Natural Resources. Based on the report, an UST was found by B & L Construction on April 22, 1994. The excavation company was demolishing the building and excavating the foundation when they encountered the tank. The tank contained approximately 700 gallons of contaminated water, which was pumped and disposed of by Soco Oil Co, LaCrosse, Wisconsin. It was noted the site was contaminated with heavy soil staining and odor present at the time of removal. It was also noted the property was formerly occupied by a service garage, which at that time was closed for many years. Soil samples were collected from beneath each end of the tank and submitted for laboratory analysis of





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diesel range organics (DRO). DRO concentrations were detected at concentrations of 4700 milligrams per kilogram (mg/kg) and 820 mg/kg. A map was provided in the report that indicated the tank was located approximately 136' west of the intersection of County Hwy G; east of the western property line, approximately 20 feet, and south of Maple Street approximately 53 feet

The WDNR was notified of a release on April 25, 1994. No work was completed until private well sampling was performed during a State lead on December 7, 2012. The results of the private well testing is unknown.

Due to the history of the property and the planned sale of the property by the current owners, the Limited Phase II ESA discussed herein was subsequently performed.

## FIELD ACTIVITIES AND PROCEDURES

### Scope Summary

The performed scope of the Limited Phase II ESA activities included the advancement of three soil probes to a depth of fifteen feet below the ground surface (bgs) with a track-mounted geoprobing unit. The location of the soil probes were estimated based on a map provided by Marell Inc. Two soil samples were collected from each soil probe and submitted for laboratory analysis for the presence of petroleum volatile organic compounds (PVOCs) and naphthalene. Groundwater was not encountered during the soil probes, so water samples were not collected. Upon completion of the soil and water testing, the probe boreholes were abandoned with bentonite. Abandonment forms are included in Appendix D.

### Field Exploration

On May 13, 2019, GEC was on-site to oversee the advancement of three soil probes (GP-1 to GP-3). The soil probes were performed by On-Site Environmental Services of Sun Prairie, Wisconsin, under the direction of GEC. Soil samples were collected by driving a 60-inch plastic sleeve within a metal sampling spoon into undisturbed soils. The soil probes were advanced to depths of up to 15 feet below ground surface (bgs). The soil probes and temporary monitoring well locations are shown of Figure 2, Appendix A.

### Field Volatile Vapor Emission Screening

Soil samples collected from the soil probes were screened for volatile organic vapor emissions with a Photovac Photoionization Detector (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 emissions, but cannot quantify concentrations of individual compounds. No volatile organic vapors were detected in any of the soil samples collected.

### Soil Sample Collection and Preparation

The soil samples for chemical analyses were selected from the probes, based upon visual and olfactory observations, the PID screenings, the refusal depth of the probes, and the depth to groundwater to document the encountered soil conditions. The soil samples were submitted for laboratory analysis for the presence of PVOC and Naphthalene.

The samples submitted for laboratory analysis for the presence of PVOC were extracted from the soils utilizing a sterile syringe and approximately 10 to 15 grams of soil were transferred into a clean, laboratory prepared vial containing approximately 10 milliliters of methanol. The samples were placed on ice, and chain





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of custody procedures were initiated. The samples were then submitted to Synergy Environmental Laboratory in Appleton, Wisconsin, for laboratory analysis.

## DESCRIPTION OF SUBSURFACE CONDITIONS

### General

A description of the subsurface conditions encountered at the soil probing locations is shown on the soil boring logs in Appendix D. The lines of demarcation shown on the logs represent an approximate boundary between the various soil classifications, but the transition is likely to be more gradual. It must be recognized that the soil descriptions are considered representative for the specific location, and that variations may occur between and beyond the sampling intervals and boring locations. A summary of the major soil profile components is described in the following paragraphs.

### Soil Conditions

The surface materials at all the soil probe locations was brown silty sand topsoil. The surface materials were generally underlain by Brown Sandy silt or clayey silt, with intermittent sand seams and some gravel to depths of 15 feet bgs.

Groundwater was not encountered in any of the soil probes. No unusual or petroleum odors, soil staining, or elevated PID results were detected in any of the soil samples collected to depths of 15 feet bgs.

## FIELD AND ANALYTICAL TESTING RESULTS

### NR 720 Soil Standards

Chapter 720 of the NR700 series code established residual contaminant levels (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. EPA Regional Screening Level Web Calculator.

### Laboratory Soil Results

Two soil samples were collected from each soil probe at depths ranging from 3 to 15 feet below the ground surface and submitted for laboratory analysis for the presence of PVOC and naphthalene. None of the soil samples collected reported detectable concentrations of PVOC or naphthalene.

Laboratory analytical results and chain of custody forms are included in the Appendix C.

## CONCLUSIONS

Locations of the soil probes were estimated based on measurements from the map provided in the Tank Assessment Report. It is not known if the measurements were taken from the sidewalk, the shoulder of the road, or the roadway itself. No PVOC or Naphthalene concentrations were detected in any of the samples. Based on the soil analytical results, visual observations of the collected soil samples, and the PID results, there is no obvious indication that a widespread release of PVOC or Naphthalene has occurred as a result of the former UST. It is possible that areas of contaminants associated with the former petroleum tank system could be present beyond the test locations.

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Based on the test results, it does not appear that any additional work is necessary at the present time. It is recommended this file be reviewed for No Further Action Required.

**GENERAL COMMENTS**

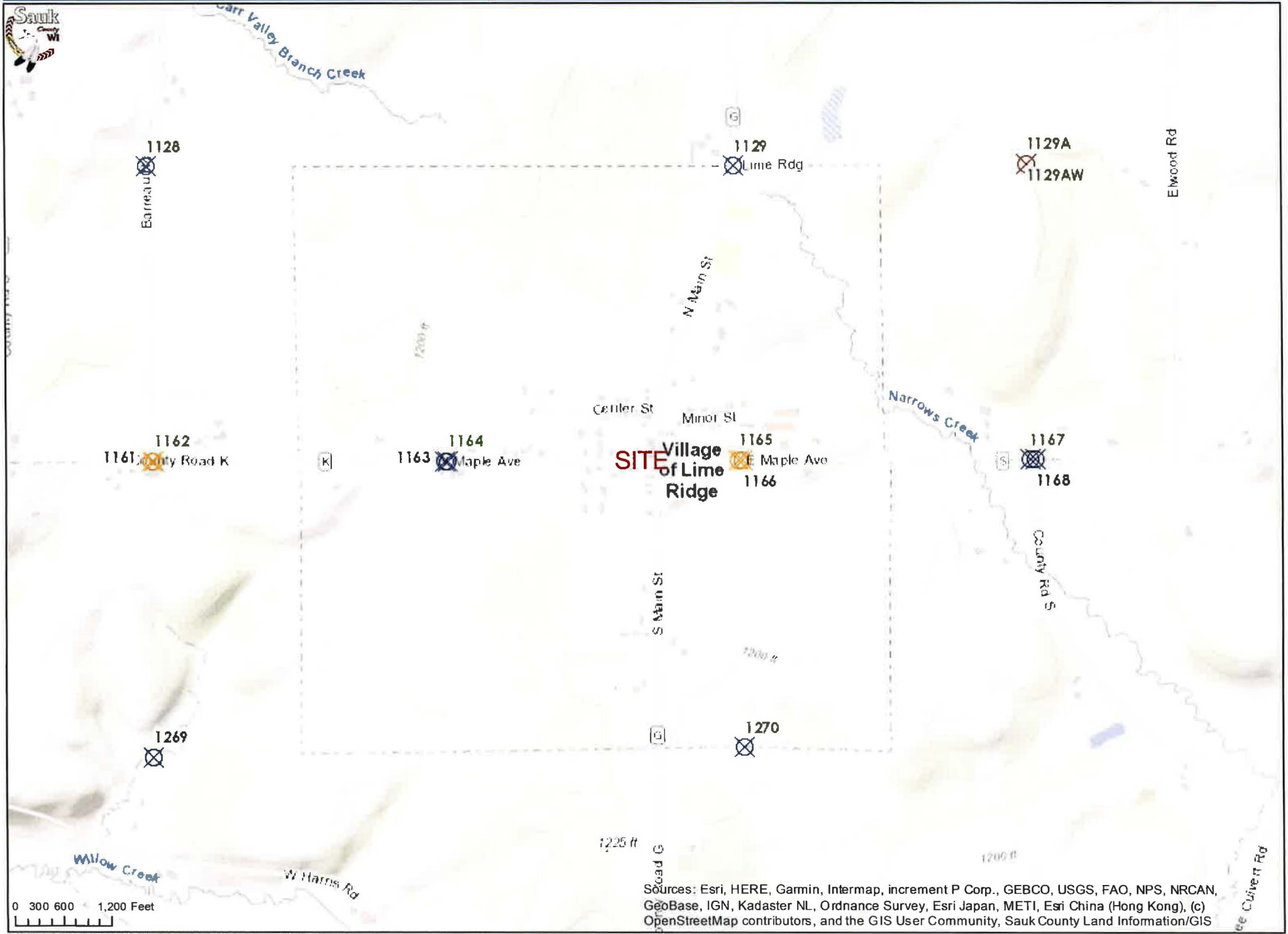
The investigative activities have been conducted in a manner consistent with that level of care ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. The findings, recommendations and opinions contained herein have been promulgated in accordance 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**



# Sauk County Land Information/GIS Web Map



**SITE**  
**Village of Lime Ridge**

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community, Sauk County Land Information/GIS

FOR INFORMATIONAL PURPOSES ONLY Sauk County does not attest to the accuracy of the data contained herein and makes no warranty with respect to its correctness or validity. Data contained in this map is limited by the method and accuracy of its collection.

# Sauk County Land Information/GIS Web Map

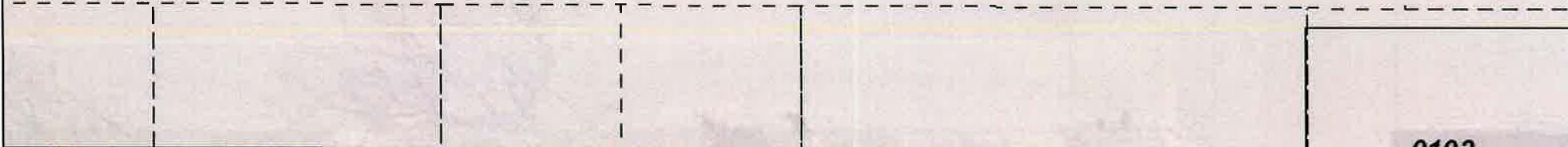


12149 0003 0001 C-4961 4 0004 Village of Lime Ridge (Original Plat) 0063

SE  
Sec 32  
T12  
R03

SESE

23



0089  
P-10029  
A

42  
0090

43  
0091

Assessor's Plat of Village of Lime Ridge  
SITE Village of Lime Ridge  
44  
0092  
Sec 05  
T11 R03

0094  
45  
NE  
NESE  
0093

0103  
54  
0100

P-5609

0088-1  
1 40 C-3961  
0 20 40 Feet

0097 43

0095 46

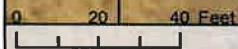
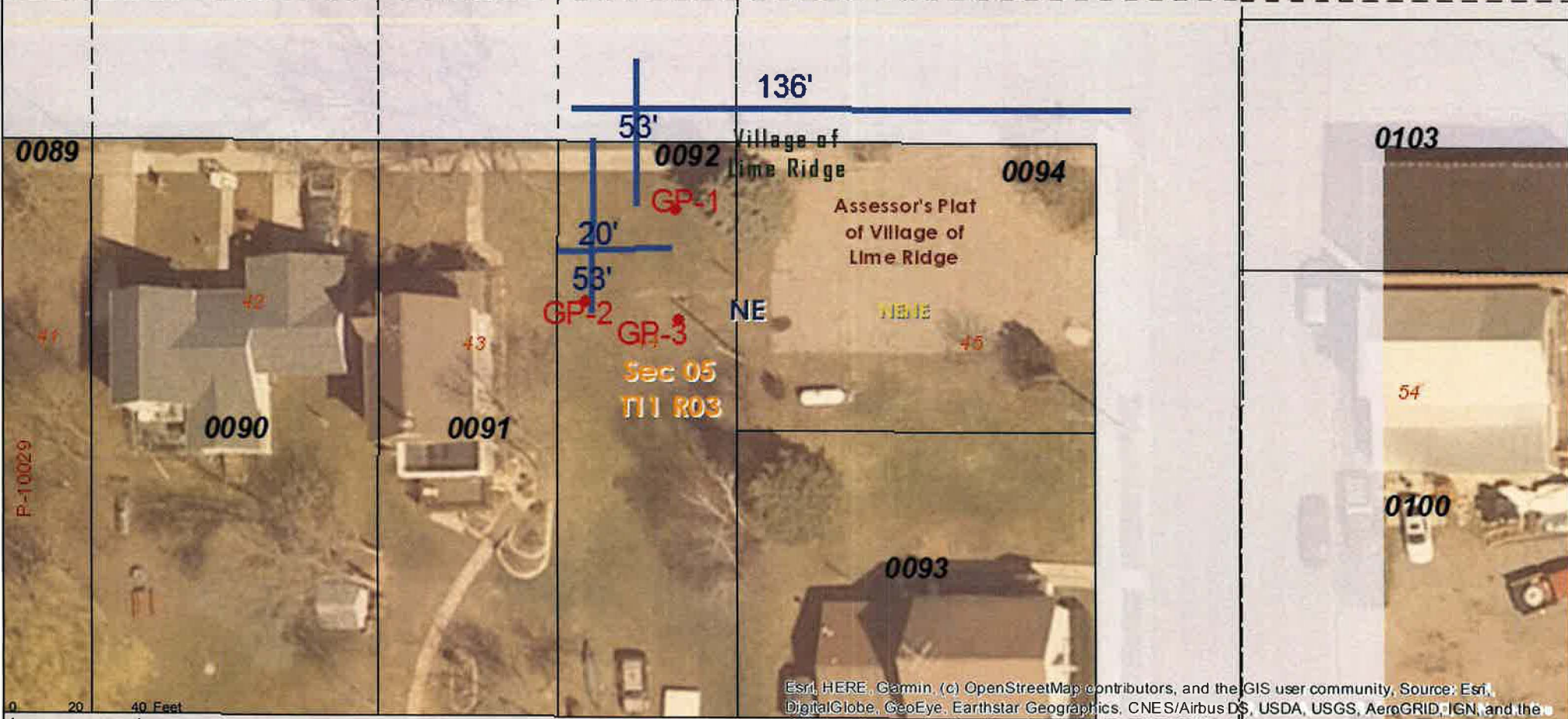
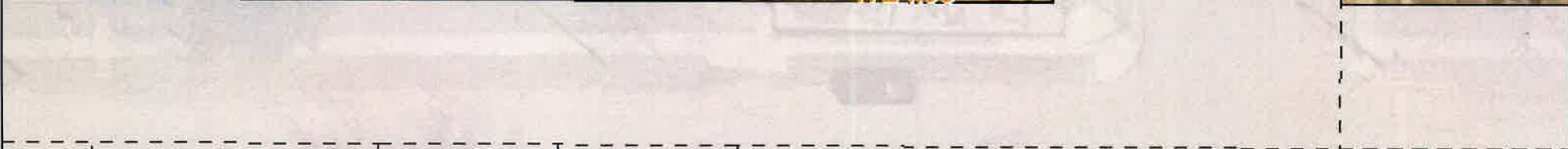
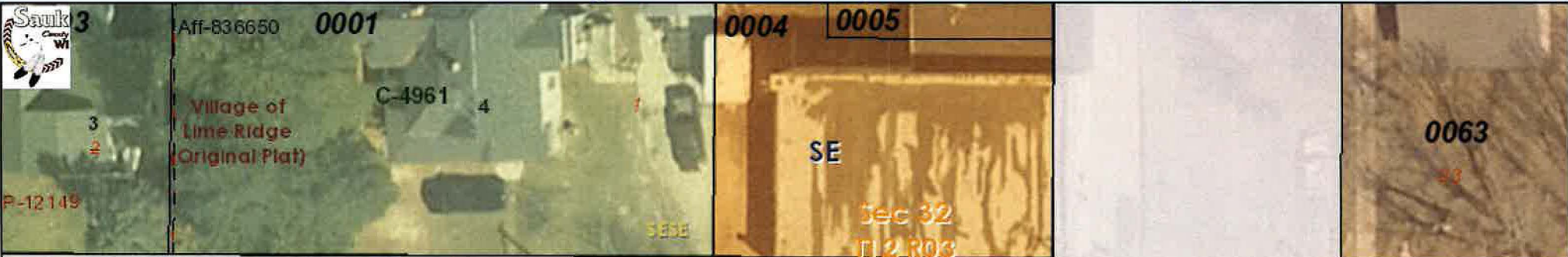
0099 53

Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Sauk County Land Information/GIS

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**APPENDIX B**  
**ANALYTICAL**

## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**

Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)  
Normal Turn Around \_\_\_\_\_

Lab I.D. # \_\_\_\_\_  
Account No. : \_\_\_\_\_ Quote No.: \_\_\_\_\_  
Project #: Sauk County Temple  
Sampler: (signature) [Signature]

Project (Name / Location): Sauk Cty - Temple Property - Lime Ridge

Reports To: <u>Lynn Bradley</u>	Invoice To:
Company: <u>General Energy</u>	Company: <u>SAME</u>
Address: <u>916 Silver Lake Dr</u>	Address: <u>SAME</u>
City State Zip: <u>Durand WI 53410</u>	City State Zip:
Phone: <u>608-792-2169</u>	Phone:
FAX:	FAX:

**Analysis Requested** **Other Analysis**

Lab I.D.	Sample I.D.	Collection		Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	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 542.2)	VOC (EPA 8260)	8-PCRA METALS	PID/ FID
		Date	Time																					
<u>5036211</u>	<u>A GP-1 3-5'</u>	<u>5/13/15</u>	<u>AM</u>		<input checked="" type="checkbox"/>	<u>N</u>	<u>2</u>	<u>S</u>	<u>Methanol</u>									<u>X</u>						
	<u>B GP-1 7-8'</u>				<input checked="" type="checkbox"/>													<u>X</u>						
	<u>C GP-2 3-5'</u>				<input checked="" type="checkbox"/>													<u>X</u>						
	<u>D GP-2 10-15'</u>				<input checked="" type="checkbox"/>													<u>X</u>						
	<u>E GP-3 3-4'</u>				<input checked="" type="checkbox"/>													<u>X</u>						
	<u>F GP-3 8-10'</u>				<input checked="" type="checkbox"/>													<u>X</u>						

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: <u>Client</u> Temp. of Temp. Blank _____ °C On Ice: <u>✓</u> Cooler seal intact upon receipt: <u>✓</u> Yes ___ No	Relinquished By: (sign) <u>[Signature]</u> Time Date <u>2:00 PM 5-21-15</u>	Received By: (sign) _____ Time Date _____
	Received in Laboratory By: <u>[Signature]</u> Time: <u>14:00</u> Date: <u>5/21/15</u>	

# Synergy Environmental Lab, INC

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

LYNN BRADLEY  
GENERAL ENGINEERING  
916 SILVER LAKE DRIVE  
PORTAGE, WI 53901

Report Date 31-May-19

Project Name SAUK CITY TEMPLIN PROPERTY  
Project #

Invoice # E36211

Lab Code 5036211A  
Sample ID GP-1 3-5  
Sample Matrix Soil  
Sample Date 5/13/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.0	%			1	5021		5/22/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		5/30/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		5/30/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		5/30/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/30/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		5/30/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/30/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		5/30/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		5/30/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		5/30/2019	CJR	1



**Project Name** SAUK CITY TEMPLIN PROPERTY  
**Project #**

**Invoice #** E36211

**Lab Code** 5036211B  
**Sample ID** GP-1 7-8  
**Sample Matrix** Soil  
**Sample Date** 5/13/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.4	%			1	5021		5/22/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		5/29/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		5/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		5/29/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/29/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		5/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		5/29/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		5/29/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		5/29/2019	CJR	1

**Lab Code** 5036211C  
**Sample ID** GP-2 3-5  
**Sample Matrix** Soil  
**Sample Date** 5/13/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.6	%			1	5021		5/22/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		5/30/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		5/30/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		5/30/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/30/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		5/30/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/30/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		5/30/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		5/30/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		5/30/2019	CJR	1

**Project Name** SAUK CITY TEMPLIN PROPERTY  
**Project #**

**Invoice #** E36211

**Lab Code** 5036211D  
**Sample ID** GP-2 10-15  
**Sample Matrix** Soil  
**Sample Date** 5/13/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.3	%			1	5021		5/22/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		5/30/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		5/30/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		5/30/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/30/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		5/30/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/30/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		5/30/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		5/30/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		5/30/2019	CJR	1

**Lab Code** 5036211E  
**Sample ID** GP-3 3-4  
**Sample Matrix** Soil  
**Sample Date** 5/13/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	78.5	%			1	5021		5/22/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		5/30/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		5/30/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		5/30/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/30/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		5/30/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/30/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		5/30/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		5/30/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		5/30/2019	CJR	1

**Project Name** SAUK CITY TEMPLIN PROPERTY  
**Project #**

**Invoice #** E36211

**Lab Code** 5036211F  
**Sample ID** GP-3 8-10  
**Sample Matrix** Soil  
**Sample Date** 5/13/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
<b>General</b>										
<b>General</b>										
Solids Percent	82.2	%			1	5021		5/22/2017	NJC	1
<b>Organic</b>										
<b>PVOC + Naphthalene</b>										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		5/30/2019	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		5/30/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		5/30/2019	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/30/2019	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		5/30/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/30/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		5/30/2019	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		5/30/2019	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		5/30/2019	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

**Code**      **Comment**

1      Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

**Authorized Signature**

**APPENDIX C**  
**BORING LOGS AND ABANDONMENT FORMS**



All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable.

<b>(1) Well Location Information</b>				<b>(2) Facility Name / Owner Information</b>			
County <b>SAUK</b>		Wi Unique Well # of removed Well		Hicap#		Facility Name <b>TEMPLIN PROPERTY</b>	
Latitude / Longitude (Degrees & Minutes)			Method Code (see instructions)		Facility ID (FID or PWS)		
NE1/4 of NE 1/4 Gov't Lot		Section <b>5</b>	Township <b>11N</b>	Range <b>3E</b>		License / Permit / GEC #	Well / Boring # <b>GP- /</b>
Well Street Address				Original Well Owner			
Well City, Village or Town			Zip Code		Present Well Owner		
Subdivision name			Lot #		Mailing Address of Present Owner <b>102 West Maple Ave</b>		
Reason for Removal <b>Sampling Completed</b>			Date of Abandonment <b>5/13/2019</b>		City of Present Owner <b>Lime Ridge</b>	State <b>WI</b>	Zip Code <b>53942</b>

<b>(3) Well / Drillhole / Borehole Information</b>				<b>4. Pump, Liner, Screen, Casting &amp; Sealing Material</b>			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date <b>5/13/2019</b> <small>If a Well Construction Report is Available, Please attach.</small>		Pump & Piping Removed? <input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable If No, Explain			
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify)				Was Casing Cut Off Below Surface? <input type="checkbox"/> YES <input type="checkbox"/> No Did Sealing Material Rise To Surface? <input type="checkbox"/> YES <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> YES <input type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> YES <input type="checkbox"/> No			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input checked="" type="checkbox"/> Other (Explain) <u>Gravity</u>			
Total Well Depth From Groundsurface (ft)		Casing Diameter (ins)		Sealing Materials      For monitoring wells and Monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite <input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout			
Lower Drillhole Diameter (in)		Casing Depth (ft)					
Was Well Annular Space Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		If Yes, To What Depth (ft)		Depth to Water (ft)			
<b>5. Material Used To Fill Well / Drillhole</b> <b>3/8" Chipped Bentonite</b>				From (ft.) <b>15</b>	To (ft.) <b>Surface</b>	No. Bags, Casks, or other Volume (circle One) <b>0.25 bags</b>	Mix Ratio or Mud Weight
<b>6. Comments</b>							

<b>7. Supervision of Work</b>				<b>DNR Use Only</b>			
Name of Person or Firm Doing Sealing Work <b>On-Site Environmental</b>		Date of Abandonment <b>5/13/2019</b>		Date Received		Noted By	
Street or Route		Telephone No.		Comments			
City <b>Sun Prairie</b>		State <b>WI</b>	Zip Code	Signature of Person Doing Work			Date Signed

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable.

<b>(1) Well Location Information</b>				<b>(2) Facility Name / Owner Information</b>			
County <b>SAUK</b>		Wi Unique Well # of removed Well		Hicap#		Facility Name <b>TEMPLIN PROPERTY</b>	
Latitude / Longitude (Degrees & Minutes)			Method Code (see instructions)		Facility ID (FID or PWS)		
NE 1/4 of NE 1/4		Section <b>5</b>	Township <b>11N</b>	Range <b>3E</b>		License / Permit / GEC #	Well / Boring # <b>GP-2</b>
Gov't Lot				Original Well Owner			
Well Street Address				Present Well Owner			
Well City, Village or Town			Zip Code		Mailing Address of Present Owner <b>102 West Maple Ave</b>		
Subdivision name			Lot #		City of Present Owner <b>Lime Ridge</b>		
Reason for Removal <b>Sampling Completed</b>			Date of Abandonment <b>5/13/2019</b>		State <b>WI</b>	Zip Code <b>53942</b>	

<b>(3) Well / Drillhole / Borehole Information</b>				<b>4. Pump, Liner, Screen, Casting &amp; Sealing Material</b>			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date <b>5/13/2019</b> <small>If a Well Construction Report is Available, Please attach.</small>		Pump & Piping Removed? <input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable If No, Explain			
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify)				Was Casing Cut Off Below Surface? <input type="checkbox"/> YES <input type="checkbox"/> No Did Sealing Material Rise To Surface? <input type="checkbox"/> YES <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> YES <input type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> YES <input type="checkbox"/> No			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input checked="" type="checkbox"/> Other (Explain) <u>Gravity</u>			
Total Well Depth From Groundsurface (ft)		Casing Diameter (ins)		Sealing Materials		For monitoring wells and Monitoring well boreholes only	
Lower Drillhole Diameter (in)		Casing Depth (ft)		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite		<input type="checkbox"/> Bentonite Pellets <input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout	
Was Well Annular Space Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		If Yes, To What Depth (ft)		Depth to Water (ft)			
<b>5. Material Used To Fill Well / Drillhole</b> <b>3/8" Chipped Bentonite</b>				From (ft.)	To (ft.)	No. Bags, Cubic Yards or Volume (circle One)	Mix Ratio or Mud Weight
				15	Surface	0.25 bags	

6. Comments

<b>7. Supervision of Work</b>				<b>DNR Use Only</b>			
Name of Person or Firm Doing Sealing Work <b>On-Site Environmental</b>		Date of Abandonment <b>5/13/2019</b>		Date Received		Noted By	
Street or Route		Telephone No.		Comments			
City <b>Sun Prairie</b>		State <b>WI</b>	Zip Code	Signature of Person Doing Work			Date Signed

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable.

<b>(1) Well Location Information</b>				<b>(2) Facility Name / Owner Information</b>			
County <b>SAUK</b>	Wi Unique Well # of removed Well	Hicap#		Facility Name <b>TEMPLIN PROPERTY</b>			
Latitude /Longitude (Degrees & Minutes)		Method Code (seeinstructions)		Facility ID (FID or PWS)			
NE1/4 of NE 1/4 Gov't Lot	Section <b>5</b>	Township <b>11N</b>	Range <b>3E</b>	License / Permit / GEC #	Well / Boring # <b>GP-3</b>		
Well Street Address				Original Well Owner			
Well City, Village or Town		Zip Code		Present Well Owner			
Subdivision name		Lot #		Mailing Address of Present Owner <b>102 West Maple Ave</b>			
Reason for Removal <b>Sampling Completed</b>		Date of Abandonment <b>5/13/2019</b>		City of Present Owner <b>Lime Ridge</b>		State <b>WI</b>	Zip Code <b>53942</b>

<b>(3) Well / Drillhole / Borehole Information</b>				<b>4. Pump, Liner, Screen, Casting &amp; Sealing Material</b>			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date <b>5/13/2019</b> <small>If a Well Construction Report is Available, Please attach.</small>		Pump & Piping Removed? <input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable If No, Explain			
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify)				Was Casing Cut Off Below Surface? <input type="checkbox"/> YES <input type="checkbox"/> No Did Sealing Material Rise To Surface? <input type="checkbox"/> YES <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> YES <input type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> YES <input type="checkbox"/> No			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input checked="" type="checkbox"/> Other (Explain) <u>Gravity</u>			
Total Well Depth From Groundsurface (ft)		Casing Diameter (ins)		Sealing Materials      For monitoring wells and Monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (concrete) Grout <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Chipped Bentonite			
Lower Drillhole Diameter (in)		Casing Depth (ft)					
Was Well Annular Space Grouted? <input type="checkbox"/> YES <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (ft)					
If Yes, To What Depth (ft)							
<b>5. Material Used To Fill Well / Drillhole</b>				From (ft.)	To (ft.)	No. Bags, Casks, Carrels or Volume (circle One)	Mix Ratio or Mud Weight
<b>3/8" Chipped Bentonite</b>				15	Surface	0.25 bags	
<b>6. Comments</b>							


<b>7. Supervision of Work</b>				<b>DNR Use Only</b>			
Name of Person or Firm Doing Sealing Work <b>On-Site Environmental</b>		Date of Abandonment <b>5/13/2019</b>		Date Received		Noted By	
Street or Route		Telephone No.		Comments			
City <b>Sun Prairie</b>	State <b>WI</b>	Zip Code	Signature of Person Doing Work			Date Signed	

- Route To:
- Solid Waste
  - Emergency Response
  - Wastewater
  - Haz. Waste
  - Underground Tanks
  - Water Resources
  - Other

Facility / Project Name <b>Templin Property</b>		License / Permit / Monitoring / GEC Project N		Boring Number <b>GP-1</b>	
Boring Drilled By (Firm name and name of crew chief) <b>On-Site Environmental Tony</b>		Drilling Method <b>Direct Push</b>		Borehole Diameter <b>2"</b>	
Date Drilling Started <b>5/13/2019</b>	Date Drilling Ended <b>5/13/2019</b>	Boring Location State Plane N, E <b>NE1/4 of the NE 1/4, Sec5, T11N, R3E</b>			DNR County Code <b>5</b>
Local Grid Location (If applicable) Feet S                      Feet W		County		Civil Town / City / Village	

Depth Below Surface/Elev. (ft)	VISUAL SOIL CLASSIFICATION Ground Surface Elevation:	Sample No.	USCS	Graphic Log	Well	Blow Count	N Value	Odor	PID	Remarks
1	-1.0									
2	-2.0									
3	-3.0									
4	-4.0									
5	-5.0									Sample 3-5'
6	-6.0									
7	-7.0									
8	-8.0									
9	-9.0									
10	-10.0									Sample 7-8'
11	-11.0									
12	-12.0									
13	-13.0									
14	-14.0									
15	-15.0									END OF BORING 15'
16	-16.0									
17	-17.0									
27	-27.0									
28	-28.0									

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

Signature 	Lynn Bradley	Firm <b>General Engineering Company</b> 916 Silver Lake Dr., P.O. BOX 340 Portage WI 53901
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Lines of demarcation represent approximate boundaries between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual.



- Route To:
- Solid Waste
  - Emergency Response
  - Wastewater
  - Haz. Waste
  - Underground Tanks
  - Water Resources
  - Other

<b>Facility / Project Name</b> Templin Property		<b>License /Permit /Monitoring / GEC Project N</b>		<b>Boring Number</b>  <b>GP-2</b>	
<b>Boring Drilled By (Firm name and name of crew chief)</b> On-Site Environmental Tony		<b>Drilling Method</b> Direct Push		<b>Borehole Diameter</b> 2"	
<b>Date Drilling Started</b> 5/13/2019	<b>Date Drilling Ended</b> 5/13/2019	<b>Boring Location State Plane N, E</b> NE1/4 of the NE 1/4, Sec5, T11N, R3E			<b>DNR County Code</b> 5
<b>Local Grid Location (If applicable)</b> Feet S                      Feet W		<b>County</b>		<b>Civil Town / City / Village</b>	

Depth Below Surface/Elev. (ft)	VISUAL SOIL CLASSIFICATION Ground Surface Elevation:	Sample No.	USCS	Graphic Log	Well	Blow Count	N Value	Odor	PID	Remarks
1	-1.0	Brown Silty SAND Topsoil								
2	-2.0	Brown Silty Clay with Intermittent seams								
3	-3.0									
4	-4.0									
5	-5.0									
6	-6.0	Brown, Silty, Sandy, CLAY								
7	-7.0	Brown sandy SILT								
8	-8.0									
9	-9.0	Brown Sandy SILT								
10	-10.0	Brown Silty CLAY, with some gravel								
11	-11.0									
12	-12.0									
13	-13.0	Sandy SILT								
14	-14.0									
15	-15.0	END OF BORING 15'								
16	-16.0									

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

Signature <i>Lynn Bradley</i> Lynn Bradley	Firm <b>General Engineering Company</b> 916 Silver Lake Dr., P.O. BOX 340 Portage WI 53901
---	--

Lines of demarcation represent approximate boundaries between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual.

- Route To:
- Solid Waste
  - Emergency Response
  - Wastewater
  - Haz. Waste
  - Underground Tanks
  - Water Resources
  - Other

Facility / Project Name <b>Templin Property</b>		License / Permit / Monitoring / GEC Project N		Boring Number <b>GP-3</b>							
Boring Drilled By (Firm name and name of crew chief) <b>On-Site Environmental Tony</b>		Drilling Method <b>Direct Push</b>	Borehole Diameter <b>2"</b>								
Date Drilling Started <b>5/13/2019</b>	Date Drilling Ended <b>5/13/2019</b>	Boring Location State Plane N, E <b>NE1/4 of the NE 1/4, Sec5, T11N, R3E</b>			DNR County Code <b>5</b>						
Local Grid Location (if applicable) Feet S                      Feet W		County	Civil Town / City / Village								
Depth Below Surface/Elev. (ft)	VISUAL SOIL CLASSIFICATION Ground Surface Elevation:		Sample No.	USCS	Graphic Log	Well	Blow Count	N Value	Odor	PID	Remarks
1	-1.0	Black Topsoil, followed by Brown Sandy SILT									
2	-2.0										
3	-3.0	Brown Silty CLAY with some Gravel									
4	-4.0	Brown Sandy SILT									Sample 3-4'
5	-5.0										
6	-6.0	Silty CLAY with intermittent Sand Layers, Moist at 8'									
7	-7.0										
8	-8.0										
9	-9.0										
10	-10.0	Silty CLAY with some Gravel									Sample 8-10'
11	-11.0	Sandy CLAY, with some Gravel									
12	-12.0										
13	-13.0										
14	-14.0	Silty SAND with Gravel									
15	-15.0										
21	-21.0	<b>END OF BORING: 15'</b>									

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

Signature <i>Lynn Bradley</i>	Lynn Bradley	Firm	<b>General Engineering Company</b> 916 Silver Lake Dr., P.O. BOX 340 Portage WI 53901
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Lines of demarcation represent approximate boundaries between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual.