

**Wisconsin Department of Natural Resources  
Superfund Integrated Site Assessment  
SAMPLING PLAN**

**April 30, 2015**

**Site Name:** Aniwa Arsenic Site

**U.S. EPA ID#:** WIN000505573

**Location:** Tax Parcel ID#006192400000  
SE1/4 of the NW1/4 Section 19, T29N, R11E, Shawano County

**Directions to Site:** From Green Bay, WI, drive west on State Highway 29 to Wittenberg (approximately 61 miles). Then exit onto Highway 45 North and drive approximately 12 miles north to Marsh Road (between Birnamwood and Aniwa). Turn west onto Marsh Road and drive approximately 0.5 miles to the Site.

**Dates of Investigation:** May 2015

**Project Manager:** Tauren Beggs, Hydrogeologist  
Remediation & Redevelopment  
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Green Bay, WI 54313  
Phone: (920) 662-5178

**In cooperation with EPA Removals:** Kathy Halbur  
Federal On-Scene Coordinator  
United States Environmental Protection Agency, Region 5  
2984 Shawano Ave  
Green Bay, WI 54313  
Phone: (920) 662-5424

**Reviewed and Approved by:** Pat Hamblin, NPL Coordinator, EPA Region 5

**Prepared by Kathleen M Sylvester, Hydrogeologist  
Bureau for Remediation and Redevelopment  
Wisconsin Department of Natural Resources**

## Table of Contents

|      |  |   |
|------|--|---|
| I.   | Introduction.....  | 3 |
| A.   | Purpose of this Sampling Plan.....                         | 3 |
| B.   | Objective of Investigation.....                            | 3 |
| II.  | Site Description and History .....                         | 3 |
| III. | Site Geology/Hydrogeology .....                            | 5 |
| IV.  | Description of Work to be Performed .....                  | 5 |
| A.   | Waste Characteristics and Pathways to be Investigated..... | 5 |
| B.   | Sampling Rationale .....                                   | 6 |
| V.   | Sampling Procedures .....                                  | 7 |
| VI.  | Field Support Group Assignments .....                      | 7 |
| VII. | Sampling Report.....                                       | 8 |

### FIGURES

- 1 – Location Map
- 2 – Site Detail and Proposed Sample Locations Map
- 2A – Proposed Background Sample Location Area
- 3 – Arsenic Concentration Map
- 4 – 2011 EMI Conductivity Map
- 5 – Potable Wells Map

Table 1 – Sampling Rationale

Table 2 – Work Assignments

## **I. Introduction**

The Wisconsin Department of Natural Resources (WDNR), through a Cooperative Agreement with the United States Environmental Protection Agency (U.S. EPA) Region 5, is tasked to conduct a Integrated Site Assessment to determine if Aniwa Arsenic Site (Site) is eligible for placement on the National Priorities List (NPL) of Superfund sites.

A Preliminary Assessment (PA) was dated March 28, 1984 (Reference 1). A time-critical removal is currently scheduled by the U.S. EPA On-Scene Coordinator (OSC) for Wisconsin (Reference 2).

### **A. Purpose of this Sampling Plan**

The purpose of this sampling plan is to provide written protocols used by WDNR to assess the historical documentation, and to ensure that data of known quality are used to determine if the Site decision from 1984 (Reference 1) to assign a No Further Remedial Action Planned (NFRAP) from the NPL. This sampling plan will be coordinated and executed by the EPA Removals Program. Data received as a result of the time-critical removal will be evaluated and documented in an Integrated Site Assessment Report (ISA). This sampling plan will be sent to U.S. EPA Region 5 in advance of the sampling event; however, verbal approval was received from EPA Site Assessment (telephone discussions with Mr. Pat Hamblin) for WDNR to work with EPA Removals in order to obtain quality data in a timely manner.

### **B. Objective of Investigation**

The objective of this investigation is to collect samples of groundwater, surface water, drinking water, sediment, and soil to establish if hazardous material or waste, attributable to the site, remains in the environment after the time-critical removal. Sampling strategy and data evaluation will determine whether a threat to human health and the environment remains after the removal and mitigation work.

## **II. Site Description and History**

The Aniwa Arsenic Site is a 4.35 acre vacant lot that is heavily vegetated. It is located in a mixed residential and agricultural area between the Towns of Aniwa and Birnamwood in Shawano County, WI (Figure 1). The Site is bordered to the north by a marsh; to the east by farm land; to the south by farm land, woods, and a residence; and to the west by a State Recreation Trail (abandoned Chicago & NW Railroad line), with a residence beyond the trail, approximately 300 yards due west of the Site. The Plover River State Fishery Area, Plover River Woods State Natural Area, and Dells of the Eau Claire River State Natural Area are located within a five mile radius of the Site. All residences in the immediate area have private wells. The Town of Aniwa Clerk estimates the current population of the Town at approximately 582.

The Town of Aniwa purchased the property to use as a storage and distribution location for grasshopper pesticides in the 1930s. Arsenic-based pesticides were distributed by the United States Department of Agriculture and the Wisconsin Department of Agriculture at the time to control grasshopper infestation in potato crops. Records indicate that four types of arsenic pesticides were used during the 1930s. The most common type was sodium arsenite ( $\text{NaAsO}_2$ ), a white to grey powder that is highly water soluble. Other arsenic pesticides used at the time include arsenic trioxide ( $\text{As}_2\text{O}_3$ ), copper acetoarsenite ( $\text{C}_4\text{H}_6\text{O}_6\text{Cu}_4\text{As}_6$ ), and lead arsenate ( $\text{PbHAsO}_4$ ). It is believed that the pesticides were stored in concentrations between 50%-90% pure. The pesticides

were stored in a wooden shed (approximately 24'x12') at the Site and area farmers picked up a small supply for their use as needed. The farmers mixed the pesticides with molasses or sawdust and spread the mixture along the roadsides to attract grasshoppers from the fields.

The government recalled the arsenic pesticides after World War II; however, the pesticides stored at the Aniwa Site were not returned to the Department of Agriculture. The US Government prohibited the use of arsenic in and around homes in 1967.

In 1975, the remaining pesticide was buried in a pit approximately 8-10 feet below ground surface (bgs) adjacent to the storage shed (Figure 2). It is unknown how much pesticide remained and was buried at that time. The Wisconsin Department of Natural Resources (WDNR) became aware of the Site in January, 1983 and required the Town of Aniwa to conduct an investigation to determine the extent of contamination. In response, the Town hired a consultant (Becher-Hoppe) to assess the impact of the buried drums; relocated the wooden shed structure (shed's concrete foundation with dirt floor remained in place); confirmed the presence of the buried drums with a test trench; and, secured the Site. WDNR then requested EPA assistance. In November, 1983, EPA's Technical Assistance Team (TAT) Contractor, Weston-SPER, conducted a Site Assessment. Soil on the shed's dirt floor contained 39,800 parts per million (ppm) arsenic and soils near the pit contained 50-70 ppm arsenic at depths of 10-12 feet bgs. Naturally-occurring concentrations of arsenic in the area's soils average between 5-10 ppm. Groundwater directly under the shed foundation contained 1.04 milligram per liter (mg/L) arsenic, exceeding the standard for drinking water (0.05 mg/L). The concentration of arsenic detected in off-site wells was less than 0.004 mg/L. In December, 1983, an Action Memo requesting \$20,000 to remove and incinerate six-ten drums of sodium arsenite and to excavate and landfill 60 cubic yards of heavily contaminated soil was proposed but not approved.

In May, 1984, WDNR utilized state spill response funding (\$25,423) to conduct a limited removal action at the Site. There is not an official report of the removal action and available documents vary regarding the number of drums and the amount of contaminated soil that was excavated and transported for off-site disposal. Potentially up to nineteen drums (metal and wooden) and 60 cubic yards of contaminated soil were removed. In addition to the drum and soil removal, WDNR, with assistance from EPA's Environmental Response Team (ERT), performed an additional extent of contamination study during the May, 1984 mobilization. This included installation of additional groundwater monitoring wells. In March, 1985, WDNR notified the Town of Aniwa of its responsibility to conduct ongoing monitoring of the Site and to record a Deed Restriction. In exchange for these activities, WDNR did not seek cost reimbursement from the Town for the removal costs. The Deed Restriction was filed in February, 1992 and the Consent Order (LMD-88-13) between WDNR and the Town of Aniwa detailing the sampling requirements and long term care plan for the Site was finalized on February 27, 1990. (The Deed Restriction and the Consent Order can be found in the Administrative Record.)

Post-removal soil and groundwater monitoring conducted by the Town of Aniwa as well as an EM-31 Ground Conductivity Study performed by the Wisconsin Geologic and Natural History Survey (WGNHS) indicate that not all of the pesticide was successfully removed. High levels of arsenic are present in the surface and sub-surface soils. The arsenic has impacted the groundwater and contaminated a neighboring drinking water well. The Site is unsecured and there is evidence of regular recreational use of the property by trespassers. In 2011, WDNR required the Town of Aniwa to submit a work plan for remediation of the remaining arsenic contamination at the Site. The Town of Aniwa does not have the financial resources to conduct the necessary clean-up. The

Town has pursued numerous funding options, including contacting Wisconsin Governor Scott Walker (letter available in the Administrative Record), other elected officials, and Brownfields funding. The Town and WDNR also consulted with the Wisconsin Department of Agriculture, Trade, and Consumer Protection (DATCP) on possible funding options. All funding requests were unsuccessful. In September, 2014, WDNR requested that EPA reconsider conducting a removal action at this Site to abate the risks posed by the buried arsenic pesticides. The removal action has been approved and is scheduled for spring/summer 2015.

### **III. Site Geology/Hydrogeology**

The Site is located in the area between the Plover and Embarrass River Systems on a watershed divide. There are numerous associated creeks and wetlands in this area of glacial outwash. Groundwater flow is difficult to determine. Monitoring wells recharge rapidly all around the Site, particularly to the north and west. There is a direct correlation between arsenic contamination concentrations and groundwater levels; high water levels yield high arsenic concentrations. There is great seasonal variation in the monitoring results.

The northern portion of the Site is a low-lying wetland/marsh, with soils known as the Markey and Cathro mucks (Reference 3). The surface of the Site generally slopes to the south. Soils in the area are predominately silty, clayey sand with some gravel known as the Kennan bouldery fine sandy loam (Reference 3). There are no structures remaining on the property.

The upper geologic unit consists of Quaternary-age glacial deposits of gravels, sands, and clays. Bedrock in the area is identified as the Wolf River Batholith and is composed of gray anorthosite, a coarse-grained plagioclase-rich rock containing interstitial orthopyroxene, clinopyroxene, iron-titanium oxides, and apatite.

### **IV. Description of Work to be Performed**

#### **A. Waste Characteristics and Pathways to be Investigated**

This Site has been extensively studied since the completion of the initial removal action in 1984. In the years since the limited removal, additional groundwater monitoring wells have been installed at and around the Site; subsequent locations were determined based on the results of the various sampling events. The Town of Aniwa has primarily used one consultant throughout this time, Warren Hohn, who prepared a Thesis for the University of Wisconsin-Green Bay detailing his findings. A map (Figure 3) was prepared by Mr. Hohn to summarize the 1990 surface soil analytical data for arsenic. Additional soil sampling conducted in 2007 and 2012 and EM-31 conductivity survey completed (Figure 4) in 2011 along with the 1990 data assisted in establishing the locations of the remaining arsenic hotspots and the approximate 40' X 60' area for removal.

The highest total arsenic concentration detected in Site soils is 8,360 ppm, 2-4' bgs, from a boring collected in 2012. This was in an area south of the shed foundation and the burial pit (SB3, Figure 3). Surface soil total arsenic detections have been as high as 1,410 ppm. This was in an area west of the former shed location (SB6, Figure 2). On September 23, 2014, EPA FIELDS, OSC Halbur, and representatives from WDNR, the Wisconsin Department of Health Services (WDHS), and the Shawano-Menominee Counties Health Department conducted an XRF study at the Site to confirm contamination identified by the Town. Arsenic in the surface soils was readily and consistently measured at concentrations exceeding EPA's Removal Management Level (RML) for residential soils (67 ppm) across the Site (exceedances detected: 164 ppm, 227 ppm, 589 ppm, and 715 ppm).

The Site is unsecured and there is a recreational path through the vegetation across the center of the Site. Many of the XRF readings were taken from this path.

Additionally, the results of the EM-31 Ground Conductivity Study performed by WGNHS in 2011 indicate high conductivity at the Site (Reference 2). The EM-31 measures how well the ground conducts electricity; the higher the number the more conductive the ground is. The remaining arsenic pesticides in the Site soils result in ions in the water and higher conductivity. This study further confirms that arsenic pesticides remain at the Site around and south of the old shed.

Groundwater monitoring indicates the contamination is migrating. In 2011, arsenic concentrations in monitoring well B13 (under the shed foundation) were 72 mg/L (compared to 1.04 mg/L in groundwater under the shed in 1983). Figure 5 shows the private wells in the area surrounding the Site. The closest well, at the residence immediately west of the Site, consistently has detections of dissolved arsenic in the water. The highest concentration detected to date was 9.20 microgram per liter ( $\mu\text{g/L}$ ) dissolved arsenic. The WDNR Enforcement Standard (ES) and the EPA Maximum Contaminant Level for arsenic is 10  $\mu\text{g/L}$ . EPA's MCL Goal (MCLG) for arsenic in drinking water is 0 parts per million.

In summary, current impacts to the Site include groundwater and soil. Nearby private wells are at risk and one is known to be contaminated with arsenic above the drinking water standards. Because the property is vacant and there is evidence of people accessing the property, the contaminated soils pose a significant risk to human health and continue to impact groundwater in the area.

## **B. Sampling Rationale**

Sample collection for all media by the U.S. EPA Removals contractors is intended to document and confirm removal/decrease of the arsenic and lead-contamination. Figures 2 and 2A show the proposed sample locations. An XRF field screening will be conducted during the removal to assess the soil to remain. Ten to fifteen soil samples (SS-1 to SS-15) will be collected for confirmation of the extent of the excavation. Groundwater will be assessed pre- and post-excavation. Nine monitoring wells will be sampled pre-excavation. As a result of the excavation work, some wells will be removed. The remaining monitoring wells will be resampled approximately two to three months after the removal. The total number of monitoring wells sampled will range from 13 to 18 based on how many are permanently removed during the excavation. Up to two samples of surface water (SW-1, SW-2) and sediment (SD-1, SD-2) will be collected in the marsh area north of the source area. Background samples of soil (SS-19), surface water (SW-19), and sediment (SD-19) will be collected northeast outside the extent of contamination. Drinking water assessed at the adjacent residence (W19150 Marsh Rd) to the west was impacted. An additional drinking water sample will be collected after the point of entry system is installed to confirm it is functioning properly to remove the arsenic.

**TABLE 1  
Sampling Rationale Summary**

| <b>Sample Matrix</b> | <b>Sample Location Description</b>                                    | <b>Sample ID Numbers</b>                        | <b>Analyses</b>          | <b>Rationale for Sampling</b>  |
|----------------------|---|---|--------------------------|--|
| Soil                 | On-site: within excavation limits                                     | SS-1 to SS-15                                   | TAL Inorganics - Metals  | Soil attribution: post-excavation confirmation to determine if any contamination remains |
|                      | On-site: outside limits of contaminated area                          | SS-# (ID number depends on when it's collected) | TAL Inorganics - Metals  | Background for soil  |
| Groundwater          | On-site Up/Down/Side gradient monitoring wells (some will be removed) | B-10, B-12, B-13, B-13A, B-18, B-19, B-20, B-21 | TAL Inorganics - Metals  | Groundwater attribution: pre- and post-excavation  |
|                      | On-site monitoring wells  | B-13, B-19                                      | TAL Inorganics - Nitrate | Groundwater attribution: confirmation  |
|                      | On-site monitoring well   | B-11  | TAL Inorganics - Metals  | Background for groundwater   |
| Surface Water        | On-site ponding   | SW-1, SW-2                                      | TAL Inorganics - Metals  | Surface water impacts evaluation   |
|                      | On-site ponding   | SW-# (ID number depends on when it's collected) | TAL Inorganics - Metals  | Background for surface water   |
| Sediment             | On-site   | SD-1, SD-2                                      | TAL Inorganics - Metals  | Sediment attribution   |
|                      | On-site   | SD-# (ID number depends on when it's collected) | TAL Inorganics - Metals  | Background for sediment  |
| Drinking Water       | Timm-Burkart W19150 Marsh Rd  | TIMM-MMY (Month, year)                          | TAL Inorganics - Metals  | Collected after installation of treatment system to confirm its functioning properly     |

## V. Sampling Procedures

All samples will be taken by the U.S. EPA Removals contractor. Their procedures will follow a standard preparation and shipping of all samples and quality control requirements.

Per the U.S. EPA Action Memo (Reference 2), the removal action will be conducted in a manner not inconsistent with the NCP. The OSC has initiated planning for provision of post-removal Site control consistent with the provisions of Section 300.415(l) of the NCP.

All hazardous substances, pollutants, or contaminants removed off-site pursuant to this removal action for treatment, storage, and disposal shall be treated, stored, or disposed of at a facility in compliance, as determined by EPA, with the EPA Off-Site Rule, 40 C.F.R. § 300.440.

## VI. Field Support Group Assignments

Since the U.S. EPA Removals contractor will be performing the sampling activities, the WDNR project manager and sample custodian will assist as needed or requested by the OSC.

**TABLE 2**  
**Work Assignments**

| <b>Name</b>                     | <b>Media</b> | <b>Duties</b>  |
|---------------------------------|--------------|--|
| Tauren Beggs<br>Kathy Sylvester | All          | WDNR Project Manager to assist as requested by U.S. EPA OSC. |

**VII. Sampling Report**

The U.S. EPA OSC will provide the WDNR with the analytical results and associated documentation from the removal action. WDNR will develop an Integrated Site Assessment Report that will document the activities and if necessary, provide recommendations for further work.

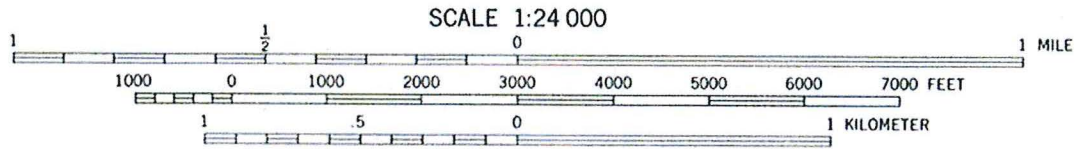
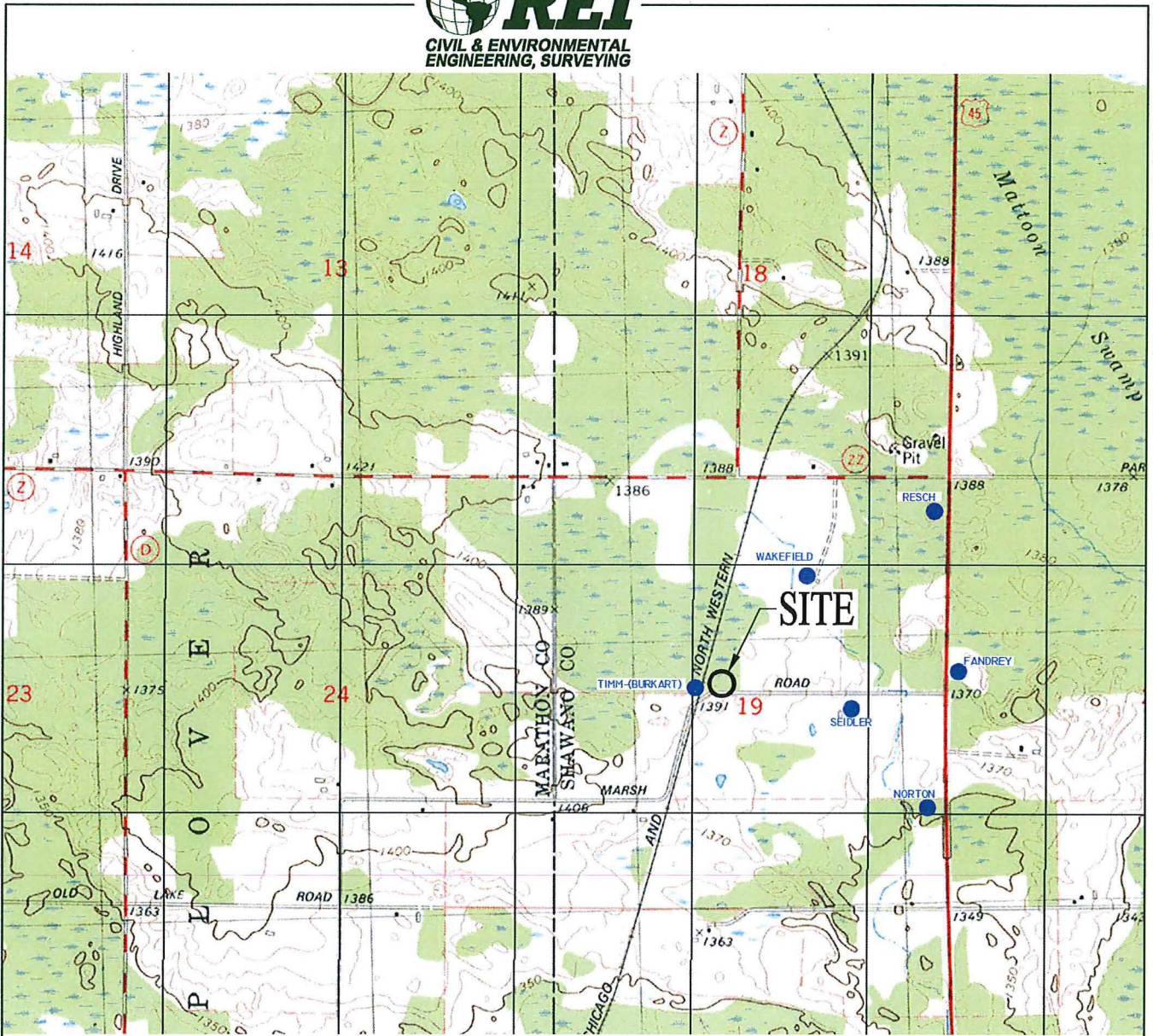


## REFERENCES

1. Preliminary Assessment Summary, WDNR/USEPA, March 28, 1984.
2. U.S. EPA Action Memo: Request for Approval and Funding for a Time-Critical Removal Action at the Aniwa Arsenic Site, Marsh Road, Aniwa, Shawano County, Wisconsin (Site ID #C53Z), dated February 6, 2015.\*
3. Soil Survey of Shawano County, U.S. Department of Agriculture, Soil Conservation Service, issued October 1982.\*

\* References too voluminous to attach; the Administrative Records for case file BRRTS #02-59-000198 can be reviewed at Wisconsin Department of Natural Resources-Northeast Region Headquarters.

DRAWING FILE: P:\6600-6699\6663-TOWN OF ANIWA - ARSENIC SITE\DWG\6663-VICN.DWG LAYOUT: VICN PLOTTED BY: TODDY

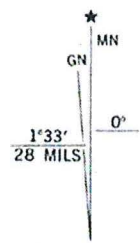


CONTOUR INTERVAL 10 FEET  
 NATIONAL GEODETIC VERTICAL DATUM OF 1929



QUADRANGLE LOCATION

● PRIVATE WELL



UTM GRID AND 1982 MAGNETIC NORTH  
 DECLINATION AT CENTER OF SHEET

**BIRNAMWOOD, WIS.**  
 NW/4 WITTENBERG 15' QUADRANGLE  
 N4452.5-W8907.5/7.5

1982  
 REI Engineering, INC.

TOWN OF ANIWA DISPOSAL SITE  
 MARSH ROAD NEAR CHICAGO & NW RAILROAD  
 TOWN OF ANIWA, SHAWANO COUNTY, WI

|                       |           |           |
|-----------------------|-----------|-----------|
| FIGURE 1 LOCATION MAP |           |           |
| PROJECT NO.           | DRAWN BY: | DATE:     |
| 6663                  | TAW       | 6/16/2014 |

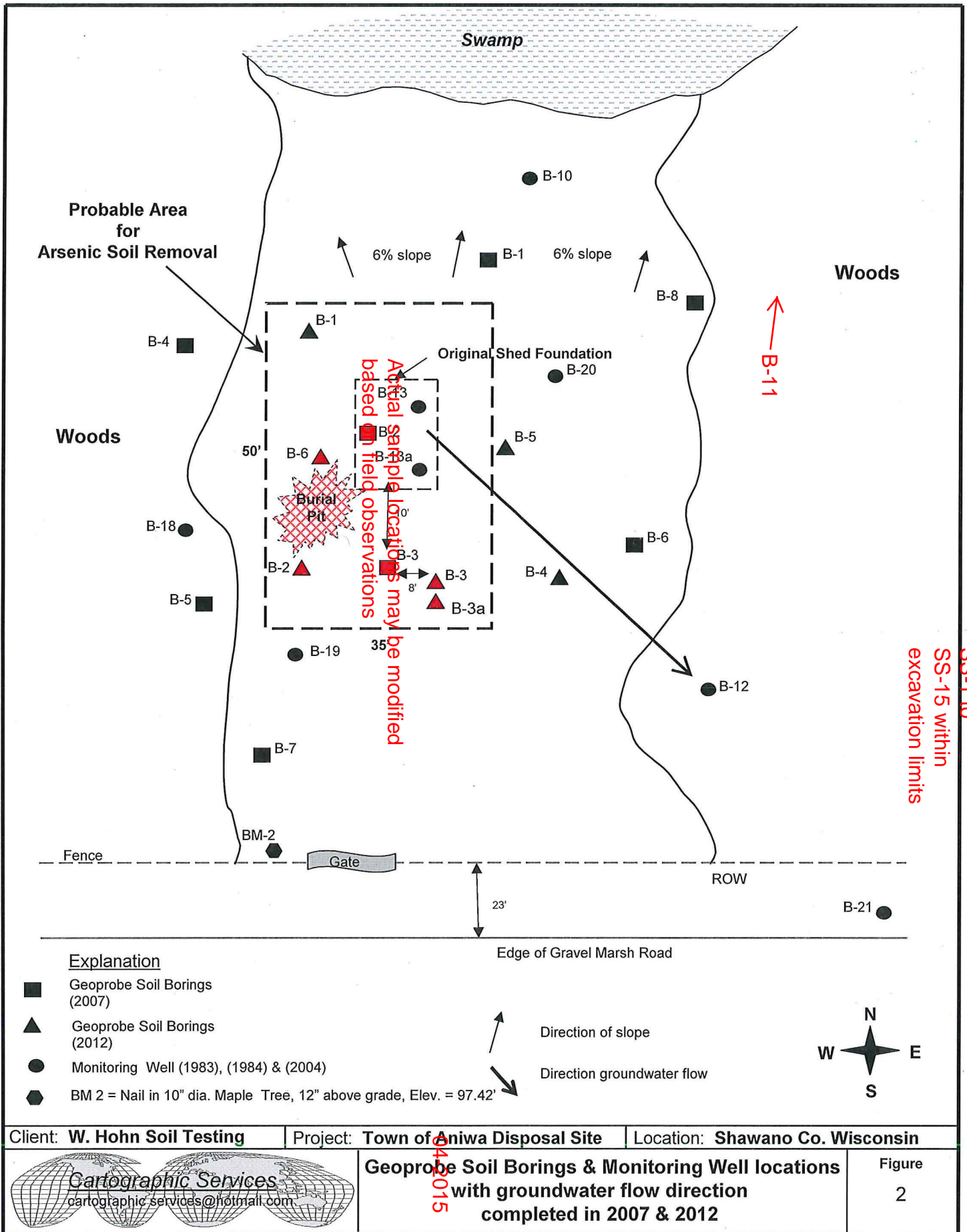
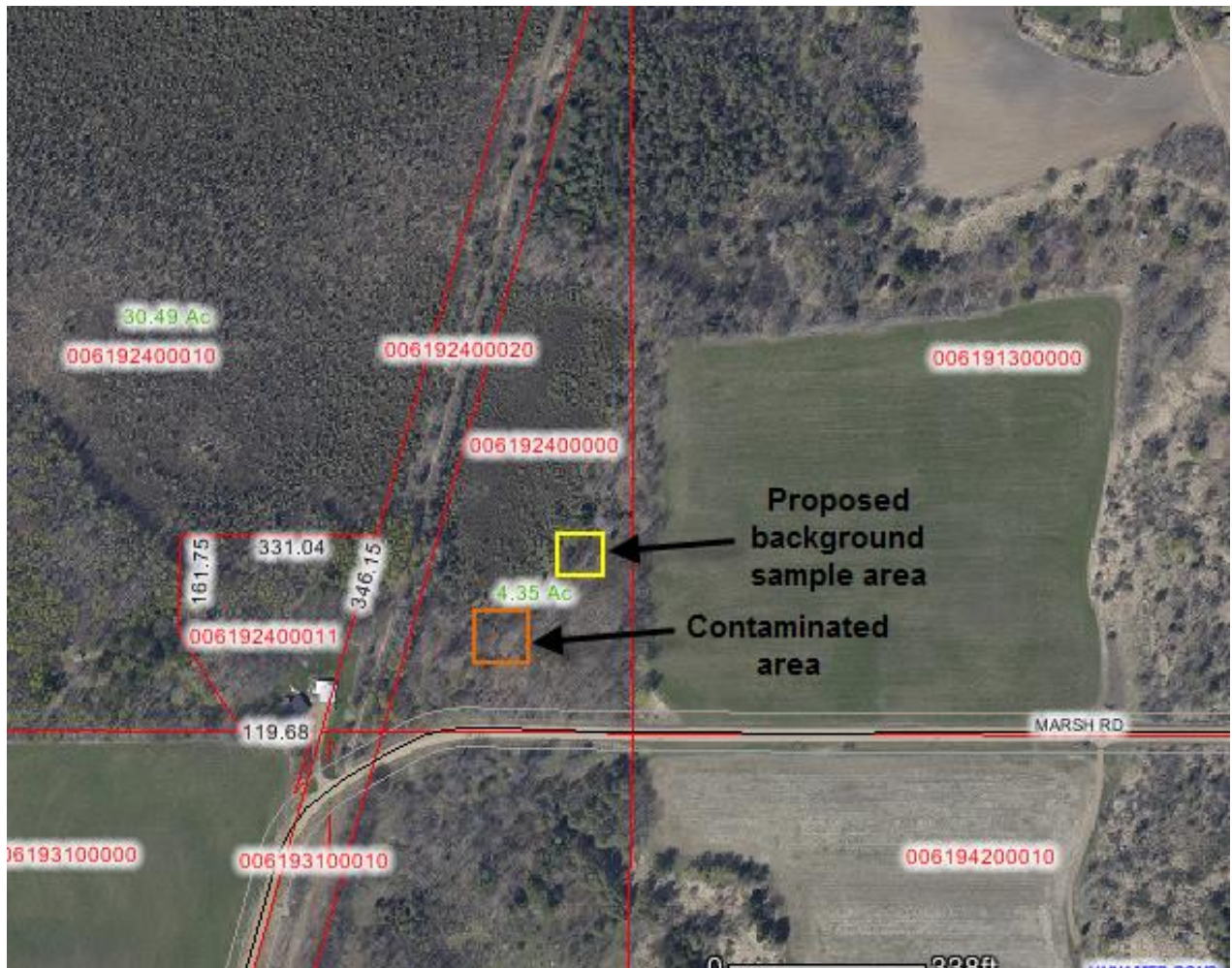


FIG 2 Site Detail Map.doc

**Figure 2A**  
**Proposed Background Sample Location Area**



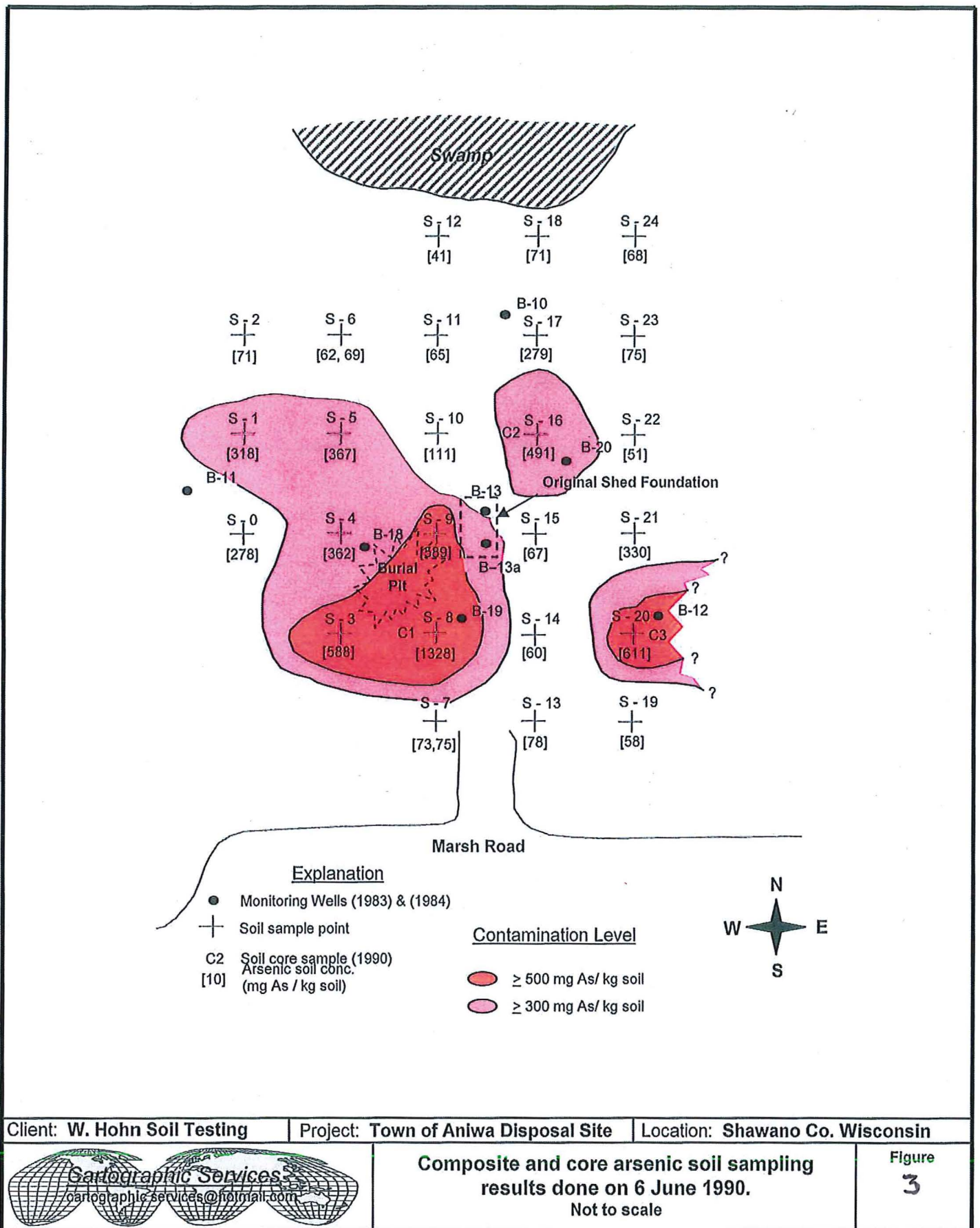
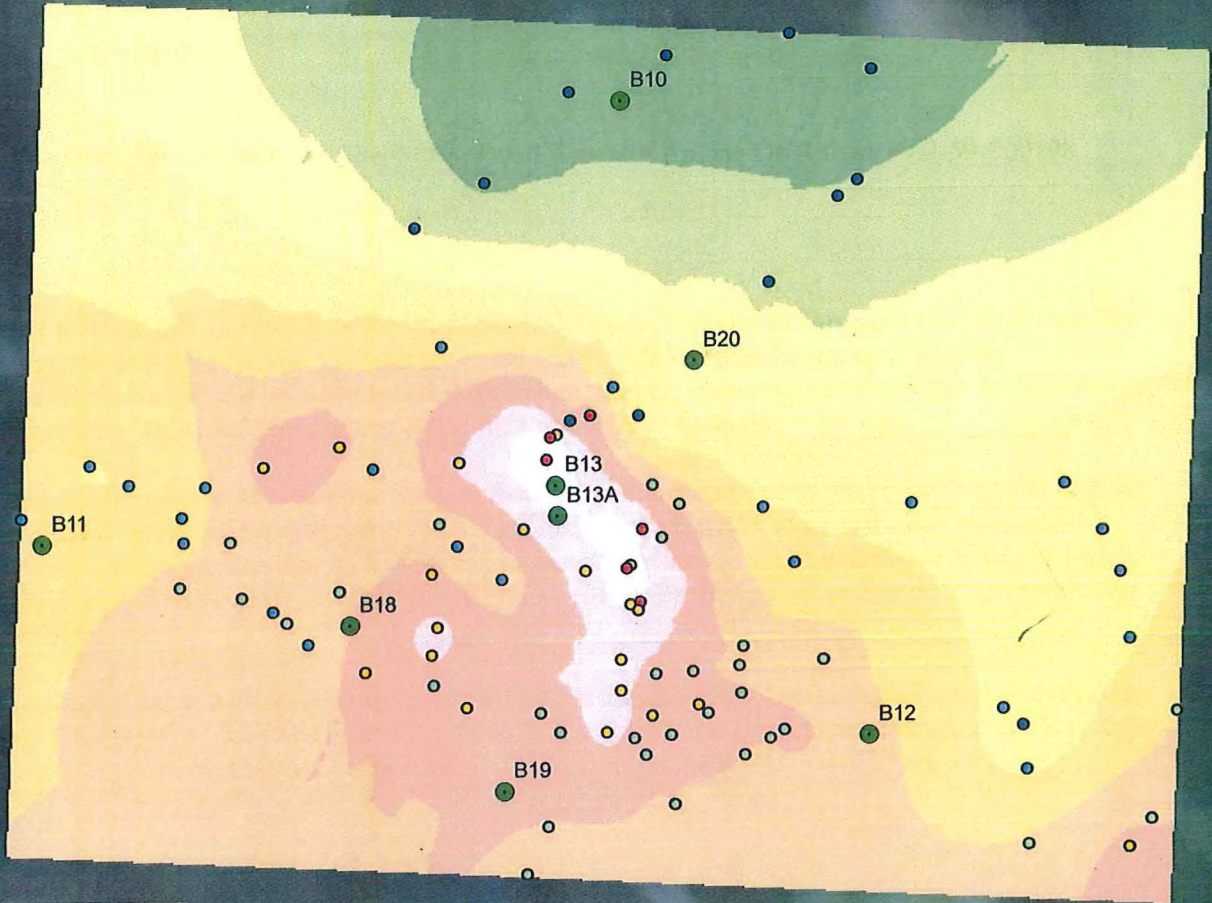


Figure 20



**EM-31 Results  
(mS/m)**

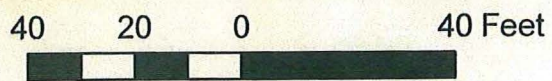
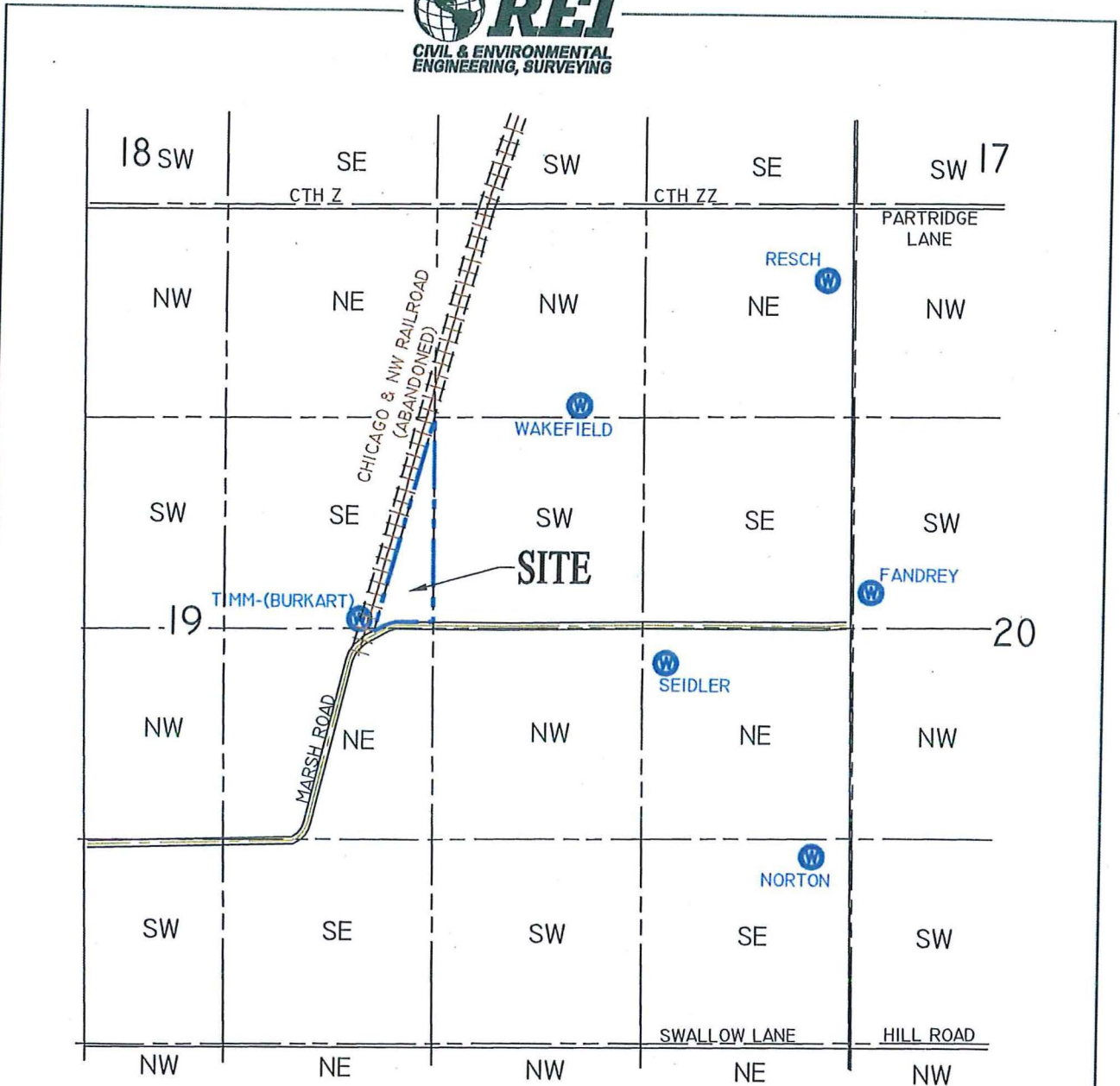
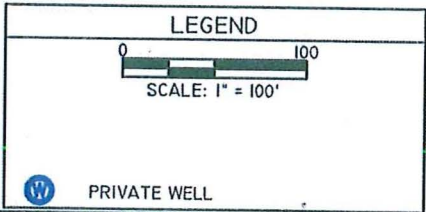


FIGURE  
4



DRAWING FILE: P:\6600-6699\6663-TOWN OF ANIWA - ARSENIC SITE\DWG\6663-PLAT.DWG LAYOUT: PLAT PLOTTED: JUL 03, 2014 - 11:54AM PLOTTED BY: NATHANP



REI Engineering, INC.

TOWN OF ANIWA DISPOSAL SITE  
 MARSH ROAD NEAR CHICAGO & NW RAILROAD  
 TOWN OF ANIWA, SHAWANO COUNTY, WI

|   |           |          |
|---|-----------|----------|
| <b>FIGURE 5 POTABLE WELLS MAP (KMS)</b> |           |          |
| PROJECT NO.                             | DRAWN BY: | DATE:    |
| 6663                                    | TAW       | 7/2/2014 |

3/28/87

# REFERENCE 1

## PRELIMINARY ASSESSMENT SUMMARY

TN. OF ANIWA (Arsenic Burial Site)

WI/ (not assigned)

SE $\frac{1}{4}$ , SE $\frac{1}{4}$ , NW $\frac{1}{4}$ , of Sec. 19, T29N - R11E

Background & Site Description: In the early 1930's the federal government purchased arsenic and with the help of the Department of Agriculture, distributed it to counties and townships for a grasshopper control program. The liquid and powdered arsenic was then mixed with molasses, bran, sawdust or whey and spread around fields and along roads to attract the grasshoppers. The Town of Aniwa constructed a 12'x15' shed on a parcel of land in 1937 for storage of the arsenic. After the grasshopper control program came to an end, the State of Wisconsin recalled the pesticide in the late 1940's. Unfortunately, the arsenic at Aniwa was not collected and later in 1975 it was buried outside of the shed.

Area Description: This site, owned by the Town of Aniwa, is located in a rural area. Silty-clayey sands are found to a depth of 13.5 feet. There is a 8-10% slope north of the shed to the wetland. Groundwater flows to the south.

Site Priority: (High) Since the soil here is severely contaminated and groundwater monitoring has shown arsenic concentrations above the drinking water standard, it is ranked a high priority. Clean-up and remedial action will be implemented in the spring of 1984. EPA "technical assistance" will provide further information regarding the spread of contamination.

Comments: Contamination is found at high concentration in surface soils and has migrated vertically in the area below the shed. The drums appear to lie immediately above or at the water table. It is likely the arsenic is being transported by the groundwater from the shed and adjacent pit area. The most contaminated soils, the first 1-2 feet of shed soils and soils around and below the drums, will be removed, replaced with clean soils and capped with clay. This is the immediate plan. The long-term remedial action will be to install more borings, piezometers and monitoring wells. All groundwater monitoring should be performed quarterly for a year to evaluate the movement of arsenic in the groundwater and the effect if any on down gradient groundwater users.

Site Inspection Contact Persons: Doug Rossberg - DNR/LMD (414)497-4047  
and Jim Reyburn - DNR/LMD (414)497-4327

DNR District's Role on Site Inspection: Assigned staff will provide site briefing, access to files and accompany F.I.T. on-site inspection.

Prepared by: Mary Feenstra - DNR/LMD (414)497-3228





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 W. JACKSON BLVD  
CHICAGO, IL 60604

**MEMORANDUM**

**SUBJECT:** Request for Approval and Funding for a Time-Critical Removal Action at the Aniwa Arsenic Site, Marsh Road, Aniwa, Shawano County, Wisconsin (Site ID #C53Z)

**FROM:** Kathy Halbur, On-Scene Coordinator  
Emergency Response Branch I, Removal Section 1

**THRU:** Jason H. El-Zein, Chief  
Emergency Response Branch I

**TO:** Richard C. Karl, Director  
Superfund Division

**I. PURPOSE**

The purpose of this memorandum is to request and document your approval to expend up to \$534,236 to conduct a time-critical removal action at the Aniwa Arsenic Site, (or the Site) located between the towns of Aniwa and Birnamwood in Shawano County, Wisconsin 50448. The response actions proposed herein are necessary to mitigate threats to public health, welfare, and the environment posed by the presence of uncontrolled hazardous substances at the Site. The Site contains high concentrations of arsenic in the surface and sub-surface soils as well as in the groundwater, threatening a nearby residential well.

This Action Memorandum would serve as approval for expenditures by EPA, as lead technical agency, to take actions described herein to abate the imminent and substantial endangerment posed by hazardous substances at the Site. The proposed removal of hazardous substances would be taken pursuant to Section 104(a)(1) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. § 9604(a)(1), and 40 C.F.R. § 300.415 of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP).

The uncontrolled conditions of the hazardous substances present at the Site, and the potential threats they present require that this action be classified as a time-critical

REFERENCE 3

United States  
Department of  
Agriculture

Soil  
Conservation  
Service

In Cooperation with the  
Research Division of the  
College of Agricultural  
and Life Sciences  
University of Wisconsin

Soil Survey of  
Shawano County,  
Wisconsin