State of Wisconsin
Department of Natural Resources
P.O. Box 7921, Madison, WI 53707-7921

GIS REGISTRY (Cover Sheet)
Form 4400-280 (R 6/13)

Source Property Information

CLOSURE DATE: 11/06/2014

BRRTS #: **02-57-562795**

FID #: 157005530

ACTIVITY NAME: BAAP PARCEL R3

DATCP #: NA

PROPERTY ADDRESS: S7560 STH 12

PECFA#: NA

MUNICIPALITY: NORTH FREEDOM

PARCEL ID #: R3

***WTM COORDINATES:**

X: **539112** Y: **321361**

** Coordinates are in WTM83, NAD83 (1991)*

WTM COORDINATES REPRESENT:

○ Approximate Center Of Contaminant Source

◉ Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

CONTINUING OBLIGATIONS

Contaminated Media for Residual Contamination:

☐ Groundwater Contamination > ES *(236)*

- ☐ Contamination in ROW
- ☐ Off-Source Contamination

*(**note:** for list of off-source properties see "Impacted Off-Source Property Information, Form 4400-246")*

☒ Soil Contamination > *RCL or **SSRCL *(232)*

- ☐ Contamination in ROW
- ☐ Off-Source Contamination

*(**note:** for list of off-source properties see "Impacted Off-Source Property Information, Form 4400-246")*

Site Specific Obligations:

☐ Soil: maintain industrial zoning *(220)*

*(**note:** soil contamination concentrations between non-industrial and industrial levels)*

☐ Structural Impediment *(224)*

☐ Site Specific Condition *(228)*

☐ Cover or Barrier *(222)*

- ☐ Direct Contact
- ☐ Soil to GW Pathway

☐ Vapor Mitigation *(226)*

☐ Maintain Liability Exemption *(230)*

*(**note:** local government unit or economic development corporation was directed to take a response action)*

Monitoring Wells:

Are all monitoring wells properly abandoned per NR 141? *(234)*

◉ Yes ○ No ○ N/A

** Residual Contaminant Level*
***Site Specific Residual Contaminant Level*

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
3911 Fish Hatchery Road
Fitchburg WI 53711-5397

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

November 6, 2014

Ms. Joan Kenney - Commander's Representative
Badger Army Ammunition Plant
S7560 Highway 12
North Freedom, WI 53951

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with a Continuing Obligation
Badger Army Ammunition Plant Parcel R3, S7560 Hwy 12, North Freedom, WI; Sauk County
DNR BRRTS Activity #: 02-57-562795

Dear Ms. Kenney:

The Department of Natural Resources (DNR) considers the Parcel R3 case closed, with a continuing obligation. No further investigation or remediation is required at this time. However, you and future property owners, and occupants of the property must comply with the continuing obligation as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that the Army complies with all conditions and other on-going requirements. Provide this letter to anyone who purchases, rents or leases this property from you.

This final closure decision is based on the correspondence and data provided, and is issued under chs. NR 726 and 727, Wisconsin Administrative Code. The South Central Region (SCR) Closure Committee reviewed the request for closure on November 6, 2014. This committee reviewed this environmental remediation case for compliance with state laws and standards to maintain consistency in the closure of these cases.

This closure decision includes the following:

- closure of the areas of Parcel R3 that have been remediated by soil excavation: above-ground storage tanks (northeast quadrant of the parcel) for metals contaminants; the Salvage Yard for metals and polychlorinated byphenyls (PCBs); the Corporation Yard for metals; post-demolition buildings Oil Drum Storage, Truck Garage, and Maintenance Shop for lead and PCBs;
- no-further-action for those areas investigated with some detected contamination but no remediation needed: Oil Drum Storage (Account #0521-01); Maintenance Shop (Account #0241-01) 1,000 gallon waste oil underground storage tank and grease trap; the sewer line removal;
- no-action-required for the remainder of the parcel as discussed in the Parcel Assessment section of the "Parcel R3 – Wisconsin Department of Natural Resources Case Closure Request, Badger Army Ammunition Plant", dated October 7, 2014.

The conditions of closure, including contaminant clean-up levels used, and the continuing obligation required were based on the assumption that the Parcel R3 property will be used for residential purposes, although this is in actuality not possible. The DNR, future owner of this parcel, will be using this parcel for recreational purposes.

Continuing Obligations

The continuing obligation for this site is summarized below. Further details on actions required are found in the Closure Conditions section below.

- Residual soil contamination may exist that would have to be properly managed should it be excavated or removed.

The DNR fact sheet, "Continuing Obligations for Environmental Protection", RR-819, helps to explain a property owner's responsibility for continuing obligations on their property. The fact sheet may be obtained at http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf.

Closure Conditions

Compliance with the requirements of this letter is a responsibility to which the Army and any subsequent property owners must adhere. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wisconsin Statutes, to ensure compliance with the specified requirements, limitations or other conditions related to the property.

Please send written notifications and inspection reports in accordance with the following requirements to:

Department of Natural Resources
Attn: Remediation and Redevelopment Program Environmental Program Associate
3911 Fish Hatchery Road
Fitchburg, WI 53711

Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code; or ch. 289, Stats.)

All current and future owners and occupants of the property need to be aware that excavation of any contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

In Closing

Please be aware that the case may be reopened pursuant to s. NR 727.13, Wis. Adm. Code, for any of the following situations:

- if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment;
- if the property owner does not comply with the conditions of closure, with any deed restrictions applied to the property, or with a certificate of completion issued under s. 292.15, Wis. Stats; or
- if a property owner fails to maintain or comply with a continuing obligation (imposed under this closure approval letter).

The DNR appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Hank Kuehling at 608.275.3286 or at Harlan.Kuehling@wisconsin.gov.

Sincerely,

Linda Hanefeld, Team Supervisor
SCR Remediation & Redevelopment Program

c (via e-mail): Mike Sitton – U.S. Army
Laura Olah - CSWAB

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Case Closure - GIS Registry

SUBMIT AS UNBOUND PACKAGE IN THE ORDER SHOWN

Notice: Pursuant to ch. 292, Wis. Stats., and chs. NR 726 and 746, Wis. Adm. Code, this form is required to be completed for case closure requests. The closure of a case means that the Department of Natural Resources (DNR) has determined that no further response is required at that time based on the information that has been submitted to the DNR. All sections of this form must be completed unless otherwise directed by the Department. Incomplete forms will be considered "administratively incomplete" and processing of the request will stop until required information is provided. Any section of the form not relevant to the case closure request must be fully filled out or explained on a separate page and attached to the relevant section of this form. DNR will consider your request administratively complete when the form and all sections are completed, all attachments are included, and the applicable fees required under ch. NR 749, Wis. Adm. Code, are included, and sent to the proper destinations. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

Site Information

BRRTS No.	Parcel ID No.		
BRRTS Activity (Site) Name BAAP Parcel R3	WTM Coordinates X 539112	Y 321361	
Street Address S7560 U.S. Highway 12	City North Freedom	State WI	ZIP Code 53951
Responsible Party (RP) Name United States Army			
Company Name -			
Street Address S7560 U.S. Highway 12	City North Freedom	State WI	ZIP Code 53951
Phone Number (608) 643-3361	Email joan.m.kenney.civ@mail.mil		

☒ Check here if the RP is the owner of the source property.

Environmental Consultant Name Brian Jacobs			
Consulting Firm Badger Technical Services, LLC BAAP			
Street Address S7560 U.S. Highway 12	City North Freedom	State WI	ZIP Code 53951
Phone Number (608) 643-3361	Email brian.jacobs@specpro-inc.com		
Acres Ready For Use 35.75	Voluntary Party Liability Exemption Site? ○ Yes ◉ No		

Fees and Mailing of Closure Request

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

1. **Send a copy of page one** of this form and the applicable ch. NR 749, Wis. Adm. Code, fee(s) to the DNR regional Environmental Program Associate at **http://dnr.wi.gov/topic/Brownfields/Contact.html**. Check all fees that apply:

   ☐ $1,050 Closure Fee

   ☐ $300 Database Fee for Soil

   ☐ $350 Database Fee for Groundwater or Other Condition (MW Not Abandoned)

   Total Amount of Payment $ Closure and GIS Registry fees paid by Army as part of grant to WDNR

2. **Send one paper copy and one e-copy on compact disk of the entire closure package** to the Regional Project Manager assigned to your site. Submit as *unbound, separate documents* in the order and with the titles prescribed by this form. For electronic document submittal requirements, see **http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf.**

Site Summary

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

1. General Site Information and Site History

A. **Site Location**: Describe the physical location of the site, both generally and specific to its immediate surroundings.
Located in the western portion of the Badger Army Ammunition Plant (BAAP), Parcel R3 is an open prairie grassland (formerly a maintenance and salvage area) and is surrounded by open prairie grassland.

B. **Prior and current site usage**: Specifically describe the current and historic occupancy and types of use.
Parcel R3 was used for production support of propellants and salvage yard. Parcel R3 is scheduled for property transfer to WDNR for recreational purposes as part of an extension of Devil's Lake State Park.

C. Describe how and when site contamination was discovered.
A Plexus Scientific Corporation Environmental Baseline Survey (EBS), completed in 1999, identified the parcel where a release of petroleum products occurred. The EBS also indicated it was an area that was unevaluated or required additional evaluation (see 1.D.). The Parcel was used for the support of propellant production, demolition and remediation activities. Vehicle maintenance shops and a fuel storage area were also located on this Parcel. The Parcel also served as a salvage yard and equipment storage yard.

D. Describe the type(s) and source(s) or suspected source(s) of contamination.
Many of the buildings were constructed with materials that could present a risk to human health or the environment. These materials included siding, insulation, paint and caulk materials that had the potential to asbestos, lead and polychlorinated biphenyls (PCBs), and surrounding barricade structures that were constructed of creosote-treated timbers. There were also diesel range organic (DRO) impacted soil in this parcel as a result of a leaking underground storage tank. Residues from explosive and propellant manufacturing were also potentially present.

E. Other relevant site description information (or enter Not Applicable).
Not Applicable.

F. List BRRTS activity site name and number for all other BRRTS activities at this property, including closed cases.
Parcel R3: Gas and Diesel Tank - BRRTS No. 0257549745 and Truck Garage - BRRTS No. 0357557583.

G. List BRRTS activity/site name(s) and number(s) for all properties immediately adjacent to this site, and those impacted by contamination from this site.
BAAP Lead Burning House - BRRTS No. 0257555505, BAAP Parcel R Locomotive Shop - BRRTS No. 0257558278, BAAP Parcel Y2 - BRRTS No. 0257559830, BAAP Parcel Y - BRRTS No. 0257559831, BAAP Parcel Y1 - BRRTS No. 0257558418. See WDNR RR Sites Map at: http://dnrmaps.wi.gov/sl/?Viewer=RR%20Sites

H. **Current zoning** (e.g. industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).
Parcel R3 and the surrounding parcels are zoned "governmental-agricultural conservation".

2. General Site Conditions

A. Soil/Geology

i. Describe soil type(s) and relevant physical properties, thickness of soil column across the site, vertical and lateral variations in soil types.
Soil-Medium brown silty sands/sandy silts, and sandy clay. Geology-Unconsolidated glacial sediments consisting of outwash sands, interlayered sand/gravel, with some inter-bedded till underlaid by sandstone bedrock at 150-200'.

ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.
Subsequent to the respective soil excavation, the areas were backfilled with material from one of the on-site soil borrow areas. This was typically glacial till soil. Generally, the Truck Garage area has a depth of fill ranging between 3 to 8 feet below the ground surface (bgs), the Salvage Yard between 1 to 3 feet bgs, the Corporation Yard between 1 to 4 feet bgs, the Sewer Line area between 25 to 30 feet bgs and the post-demolition slab removal areas between 0.5 to 3 feet bgs. This information is summarized in the Badger Technical Services, LLC., 2014, Wisconsin Department of Natural Resources Closure Request report, Pages 3 - 8. Reports referenced in this document are contained on the enclosed CD.

iii. Depth to bedrock, bedrock type, and whether or not it was encountered during the investigation.
Approximately 150-200' - Cambrian sandstone (not encountered during investigation).

iv. Describe the nature and locations of current surface cover(s) across the site (e.g. natural vegetation, landscaped areas, gravel, hard surfaces, and buildings).
Natural vegetation is predominant in the southern half of the parcel; however, two quonset huts remain. These structures were historically used for storage but have been vacated. Approximately 60 % of the the northern half of the parcel has a surface cover consisting of asphalt or gravel. The remaining 40% of this parcel is natural vegetation. One

structure remains in the north half of the parcel which was historically used to store empty gas cylinders. This structure has also been vacated.

B. Groundwater

i. **Discuss depth to groundwater and piezometric elevations**. Describe and explain depth variations, and whether free product affects measurement or water table elevation. Describe the stratigraphic unit(s) where water table was found or which were measured for piezometric levels.

Though groundwater was not encountered during investigation or remediation activities, a well approximateley 1,000 feet northeast of the parcel identify groundwater at approximately 85 bgs. See the Badger Technical Services, LLC, December, 2011, Revised Alternative Feasibility Study, Groundwater Remedial Strategy, Badger Army Ammunition Plant report Chapter 6, pgs 17 - 20 for additional groundwater depth information. This report is contained on the enclosed compact disk (CD).

ii. Discuss groundwater flow direction(s), shallow and deep. Describe and explain flow variations, including fracture flow if present.

Groundwater flow direction is south/southeast. See the Badger Technical Services, LLC, December, 2011, Revised Alternative Feasibility Study, Groundwater Remedial Strategy, Badger Army Ammunition Plant report Chapter 6, pgs 17 - 20 for additional groundwater flow direction information. This report is contained on the enclosed CD.

iii. Discuss groundwater flow characteristics: hydraulic conductivity, flow rate and permeability, or state why this information was not obtained.

Average flow velocity and hydraulic conductivity across the BAAP site are 0.72 ft/day and 4x10E-2 cm/sec. See the Badger Technical Services, LLC, December, 2011, Revised Alternative Feasibility Study, Groundwater Remedial Strategy, Badger Army Ammunition Plant report Chapter 6, pgs 17 - 20 for additional groundwater flow characteristics information. This report is contained on the enclosed CD.

iv. Identify and describe locations/distance of potable and/or municipal Wells within 1200 feet of the site.

A potable/municipal well is located approximately 270 feet west (upgradient) of the Parcel R3 boundary and is used by the Department of the Army as their potable well and as a backup well for the community of Bluffview located west of U.S Highway 12.

3. Site Investigation Summary

A. General

i. Provide a brief summary of the site investigation history. Reference previous submittals by name and date. Describe site investigation activities undertaken since the last submittal for this project and attach the appropriate documentation in Attachment C, if not previously provided.

An EBS for this area, conducted in 1999, recommended that the area be further evaluated. The EBS was updated in 2004 and again in 2010. Investigations completed in 2003 and 2012 identified areas within the Salvage Yard that contained concentrations exceeding cleanup objectives. In 2005, an investigation in the vicinity of the Truck Garage identified diesel range organics. Previous investigations of the process and sanitary sewer lines identified residues from explosive and propellant manufacturing. In July 2011, prior to sewer removal, shallow soil in the vicinity of the sewer lines was investigated. Results of this investigation did not identify any contaminants at concentrations exceeding cleanup objectives. The Oil Drum Storage area was evaluated in August 2011. Impacts exceeding cleanup objectives were not identified. In September 2011, the Maintenance Shop was investigated. This study did not identify any compounds at concentrations exceeding cleanup objectives. The Corporation Yard was investigated in September 2012 which identified arsenic, chromium and lead exceeding cleanup objectives in shallow soil. In 2012, post-demolition sampling at 3 former accounts identified lead and PCBs at concentrations exceeding cleanup objectives. In July 2013, the areas in the vicinity of two former above ground storage tanks were investigated. Results of this investigation identified soil at concentrations exceeding cleanup objectives. These investigations are discussed in greater detail in the Badger Technical Services, LLC, 2014, Wisconsin Department of Natural Resources Closure Request report, Pages 3 - 8. The reports referenced in this document are contained on the enclosed CD.

ii. Identify whether contamination extends beyond the source property boundary, describe the off-site media (e.g., soil, groundwater, etc.) impacted, and the vertical and horizontal extent of off-site impacts.

Soil contaminants do not extend beyond the boundary of Parcel R3. Groundwater impacts have not been identified in Parcel R3.

iii. Identify any structural impediments to the completion of site investigation and/or remediation and whether these impediments are on the source property or off the source property. Identify the type and location of any structural impediment (e.g., structure) that also serves as the performance standard barrier for protection of the direct contact or the groundwater pathway.

Structural impediments were not encountered during investigation or remedial activities, and are not being used as an engineering control.

B. Soil

i. Describe degree and extent of **soil contamination** at and from this site. Relate this to known or suspected sources and known or potential receptors/migration pathways.

Generally, the above ground storage tank area was excavated to a depth of approximately 4 feet bgs, the Truck Garage

area was excavated to a depth between 3 to 8 feet bgs, the Salvage Yard between 1 to 3 feet bgs, the Corporation Yard between 1 to 4 feet bgs, the Sewer Line area between 25 to 30 feet bgs, the post-demolition slab removal areas between 0.5 to 3 feet bgs and the above ground storage tank area to approximately 4 feet bgs. The lateral and vertical extent of the excavation was determined using analytical testing results. This information is summarized in the Badger Technical Services, LLC, 2014, Wisconsin Department of Natural Resources Closure Request report, Pages 3 - 8. Reports referenced in this document are contained on the enclosed CD. Potential receptor - groundwater: not impacted.

ii. Describe the level and types of **soil contaminants** found in the upper four feet of the soil column.
All known soil contaminants found within the upper four feet have been removed. See the Badger Technical Services, LLC, 2014, Wisconsin Department of Natural Resources Closure Request report, Pages 3 - 8. Reports referenced in this document are contained on the enclosed CD.

iii. Identify the ch. NR 720, Wis. Adm. Code, method used to establish the soil cleanup standards for this site. This includes a soil performance standard established in accordance with s. NR 720.08, a Residual Contaminant Level (RCL) established in accordance with s. NR 720.10 that is protective of groundwater quality, or an RCL established in accordance with s. NR 720.12 that is protective of human health from direct contact with contaminated soil. Identify the land use classification that was used to establish cleanup standards. Provide a copy of the supporting calculations/ information in Attachment C.
Default ch. NR 720, Wis. Adm. Code (Residential), United States Environmental Protection Agency Regional Screening Levels (Residential), and BAAP Background Levels.

C. Groundwater

i. Describe degree and extent of groundwater contamination at or from this site. Relate this to known or suspected sources and known or potential receptors/migration pathways. Specifically address any potential or existing impacts to water supply wells or interception with building foundation drain systems.
Groundwater is not impacted in Parcel R3.

ii. Describe the presence of free product at the site, including the thickness, depth, and locations.
No free product exists in Parcel R3.

D. Vapor

i. Describe how the vapor migration pathway was assessed, including locations where vapor or indoor air samples were collected. If the vapor pathway was not assessed, explain reasons why.
Vapor pathway was not assessed due to localized, low contaminant concentrations, human occupancy greater than 2,500 feet from residual contaminant location, and absence of structures/basements within property.

ii. Identify the applicable DNR action levels and the land use classification used to establish them. Describe where the DNR action levels were reached or exceeded (e.g., sub slab, indoor air or both).
Not Applicable.

E. Surface Water and Sediment

i. Identify whether surface water and/or sediment was assessed and describe the impacts found. If this pathway was not assessed, explain why.
There is no surface water and/or sediment in Parcel R3.

ii. Identify any surface water and/or sediment action levels used to assess the impacts for this pathway and how these were derived. Describe where the DNR action levels were reached or exceeded.
Not Applicable.

4. Remedial Actions Implemented and Residual Levels at Closure

A. General: Provide a brief summary of the remedial action history. List previous remedial action report submittals by name and date. Identify remedial actions undertaken since the last submittal for this project and provide the appropriate documentation in Attachment C.
In the 1980's a leaking underground storage tank was removed in the Truck Garage area and in August of 1998, 2 underground storage tanks were removed from the Maintenance Shop area . Generally, the Truck Garage area was excavated to a depth between 3 to 8 feet bgs, the Salvage Yard between 1 to 3 feet bgs, the Corporation Yard between 1 to 4 feet bgs, the Sewer Line area between 25 to 30 feet bgs and the post-demolition slab removal areas between 0.5 to 3 feet bgs and the above ground storage tank area to approximately 4 feet bgs. The lateral and vertical extent of the excavation was determined using analytical testing results. This information is summarized in the Badger Technical Services, LLC., 2014, Wisconsin Department of Natural Resources Closure Request report, Pages 3 - 8. Reports referenced in this document are contained on the enclosed CD.

B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code.
See the Badger Technical Services, LLC., 2014, Wisconsin Department of Natural Resources Closure Request report, Pages 3 - 8. Reports referenced in this document are contained on the enclosed CD.

C. Describe the *active* remedial actions taken at the site, including: type of remedial system(s) used for each media impacted; the size and location of any excavation or in-situ treatment; the effectiveness of the systems to address the contaminated media and substances; operational history of the systems; and summarize the performance of the active remedial actions. Provide any system performance documentation in Attachment A.7.

There is no active remediation at the site. See the Badger Technical Services, LLC, 2014, Wisconsin Department of Natural Resources Closure Request report, Pages 3 - 8 for information pertaining to previous remediation activities. Reports referenced in this document are contained on the enclosed CD.

D. Provide a discussion of the nature, degree and extent of residual contamination that will remain at the site or on off-site affected properties after case closure.

No residual contamination remains.

E. Describe the remaining soil contamination within four feet of ground surface (direct contact zone) that attains or exceeds Residual Contaminant Levels established under s. NR 720. 12 , the ch. NR720, Wis. Adm. Code, for protection of human health from direct contact.

All direct contact zone soil impacts have been removed.

F. Describe the remaining soil contamination in the vadose zone that attains or exceeds the soil standard(s) for the groundwater pathway.

No groundwater pathway residual contamination remains.

G. Describe how the residual contamination will be addressed, including but not limited to details concerning: covers, engineering controls or other barrier features; use of natural attenuation of groundwater; and vapor mitigation systems or measures.

No residual contamination remains.

H. If using natural attenuation as a groundwater remedy, describe how the data collected supports the conclusion that natural attenuation is effective in reducing contaminant mass and concentration, (e.g. stable or receding groundwater plume).

Groundwater contamination is not associated with this site.

I. Identify how all exposure pathways were removed and/or adequately addressed by immediate and/or remedial action(s) described above in paragraphs, B, C, D, E and F.

Source removal (remedial excavation) of impacted soil limits potential migration of residual contaminants.

J. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain.

Not Applicable.

K. Identify the need for a ch. NR 140, Wis. Adm. Code, groundwater Preventive Action Limit (PAL) or Enforcement Standard (ES) exemption, and identify the affected monitoring points and applicable substances.

Not Applicable.

L. If a DNR action level for vapor intrusion was exceeded (for indoor air, sub slab, or both) describe where it was exceeded and how the pathway was addressed.

Not Applicable.

M. Describe the surface water and/or sediment contaminant concentrations and areas after remediation. If a DNR action level was exceeded, describe where it was exceeded and how the pathway was addressed.

Not Applicable.

5. Continuing Obligations: Situations where a maintenance plan(s) and inclusion on DNR's GIS Registry are required.

Directions: Check all that apply to this case closure request:

	This scenario Applies to this Case Closure		Case Closure Scenario: Maintenance Plans and GIS Registry	Maintenance Plan (s) Required in Attachment D	GIS Registry Listing
	A. On-Site	B. Off-Site			
i.	☐	☐	Engineering Control/Barrier for Direct Contact	✓	✓
ii.	☐	☐	Engineering Control/Barrier for Groundwater Infiltration	✓	✓
iii.	☐	☐	Vapor Mitigation - post closure passive system	✓	✓
iv.	☐	☐	Vapor Mitigation - post closure active system	✓	✓
v.	☒	☒	None of the above scenarios apply to this case closure	NA	NA

6. Continuing Obligations: Situations where inclusion on DNR's GIS Registry is required.

Directions: Check all that apply to this case closure request:

	This scenario Applies to this Case Closure		Case Closure Scenario: GIS Registry Only	GIS Registry Listing
	A. On-Site	B. Off-Site		
i.	☐	☐	Residual soil contamination exceeds ch. NR 720 generic or site-specific RCLs	✓
ii.	☐	☐	Sites with groundwater contamination equal to or greater than the ch. NR 140, enforcement standards (ES)	✓
iii.	☐	☐	Monitoring wells: lost, transferred or remaining in use	✓
iv.	☐	☐	Structural Impediment (not as a performance standard)	✓
v.	☐	☐	Residual soil contamination remaining at ch. NR 720 Industrial Use levels	✓
vi.	☐	☐	Vapor intrusion may be future, post-closure issue if building use or land use changes	✓
vii.	☒	☒	None of the above scenarios apply to this case closure	NA

7. Underground Storage Tanks

A. Were any tanks, piping or other associated tank system components removed as part of the investigation or remedial action? ◉ Yes ○ No

B. Do any upgraded tanks meeting the requirements of ch. SPS 310, Wis. Adm. Code, exist on the property? ○ Yes ◉ No

C. If the answer to question 7b is yes, is the leak detection system currently being monitored? ○ Yes ○ No

Data Tables (Attachment A)

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form.All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

General directions for Data Tables:

- Use bold and italics font on information of importance on tables and figures. Use **bold font** for ch. NR 140, Wis. Adm. Code, groundwater enforcement standard (ES) attainments or exceedances, and *italicized font* for ch. NR 140, Wis. Adm. Code, groundwater preventive action limit (PAL) standard attainments or exceedances.
- Do not use shading or highlighting on the analytical tables.
- Include on Data Tables the level of detection for results which are below the detection level (i.e. do not just list as no detect (ND)).
- Include the units on data tables.
- Summaries of all data must include information collected by previous consultants.

- Do not submit lab data sheets unless these have not been submitted in a previous report. Tabulate all data required in s. NR 716.15 (3)(c), Wis. Adm. Code, in the format required in s. NR 716.15(4)(e), Wis. Adm. Code.
- Include in Attachment A all of the following tables, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: A.1. Groundwater Analytical Table; A.2. Pre-remedial Soil Analytical Table, etc).
- For required documents, each table (e.g., A.1., A.2., etc.,) should be a separate PDF.

A. Data Tables

A.1. **Groundwater Analytical Table(s):** Table(s) showing the analytical results and collection dates, for all groundwater sampling points e.g. monitoring wells, temporary wells, sumps, extraction wells, any potable wells and any other wells, extraction wells and any potable wells for which samples have been collected.

A.2. **Pre-remedial Soil Analytical Table(s):** Table(s) showing the soil analytical results and collection dates - prior to conducting the interim and/or remedial action. Indicate if sample was collected above or below the all-time low water table (unsaturated verses saturated).

A.3. **Post-remedial Soil Analytical Table(s):** Table(s) showing the post-remedial action soil analytical results and collection dates. Indicate if sample was collected above or below the all-time low water table (unsaturated verses saturated).

A.4. **Pre and Post Remaining Soil Contamination Soil Analytical Table(s):** Table(s) showing only the pre and post remedial action soil analytical results that exceed a Residual Contaminate Level (RCL) or a Site-Specific Residual Level (SSRCL).

A.5. **Vapor Analytical Table**: Table(s) showing type(s) of samples, sample collection methods, analytical method, sample results, date of sample collection, time period for sample collection, method and results of leak detection, and date, method and results of communication testing.

A.6. **Other Media of Concern (e.g., sediment or surface water)**: Table(s) showing type(s) of sample, sample collection method, analytical method, sample results, date of sample collection, time period for sample collection, method and results sampling.

A.7. **Water Level Elevations:** Table(s) showing all water level elevation measurements and dates from all monitoring wells. If present, free product should be noted on the table.

A.8. **Other:** This attachment should include: 1) any available tabulated natural attenuation data; 2) data tables pertaining to engineered remedial systems that document operational history, demonstrate system performance and effectiveness, and display emissions data; and (3) any other data tables relevant to case closure not otherwise noted above. If this section is not applicable, please explain the reasons why.

Maps and Figures (Attachment B)

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

General Directions for all Maps and Figures:

- If any map or figure is not relevant to the case closure request, you must fully explain the reason(s) why and attach that explanation (properly labeled with the map/ figure title) in Attachment B.
- Provide on paper no larger than 11 x 17 inches, unless otherwise directed by the Department. Maps and figures may be submitted in a larger electronic size than 11x17 inches, in a portable document format (pdf) readable by the Adobe Acrobat Reader. However, those larger-size documents must be legible when printed.
- Prepare visual aids, including maps, plans, drawings, fence diagrams, tables and photographs according to the applicable portions of ss. NR 716.15(4), 726.09(2) and 726.11(3), (5) and (6), Wis Adm. Code.
- Do not use shading or highlights on any of the analytical tables.
- Include all sample locations.
- Contour lines should be clearly labeled and defined.
- Include in Attachment B all of the following maps and figures, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: B.1. Location Map; B.2. Detailed Site Map, etc).
- For the electronic copies that are required, each map (e.g., B.1.a., B.2.a, etc.,) should be a separate PDF.

B.1. Location Maps

B.1.a. **Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all impacted and/or adjacent parcels. If groundwater standards are exceeded, include the location of all potable wells, including municipal wells, within 1200 feet of the area of contamination.

B.1.b. **Detailed Site Map:** A map that shows all relevant features (buildings, roads, current ground surface cover, individual property boundaries for on-site and applicable off-site properties, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) established in accordance with the provisions contained in s. NR 720.10 or s. NR 720.12, Wis. Adm. Code.

B.1.c. **RR Site Map:** From RR Sites Map (http://dnrmaps.wi.gov/sl/?Viewer=RR Sites) attach a map depicting the source

property, and all open and closed BRRTS sites within a half-mile radius or less of the property.

B.2. Soil Figures

B.2.a. **Pre-remedial Soil Contamination:** Figure(s) showing the sample location of all pre-remedial, unsaturated contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeded a Residual Contaminant Level (RCL) established in accordance with the provisions contained in s. NR 720.10 or s. NR 720.12, Wis. Adm. Code.

B.2.b. **Post-remedial Soil Contamination :** Figure(s) showing the sample location of all post-remedial, unsaturated contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) established in accordance with the provisions contained in s. NR 720.10 or s. NR 720.12, Wis. Adm. Code. A separate contour line should be used to indicate the extent of residual direct contact exceedances.

B.2.c. **Pre/Post Remaining Soil Contamination:** Figure(s) showing the only location of all pre and post remedial residual soil sample location(s) where unsaturated contaminated soil remains after remediation and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminate Level (RCL) established in accordance with the provisions contained in s. NR 720.10 or s. NR 720.12, Wis. Adm. Code. A separate contour line should be used to indicate the extent of residual direct contact exceedances.

B.3. Groundwater Figures

B.3.a. **Geologic Cross-Section Figure(s):** One or more cross-section diagrams showing soil types and correlations across the site, water table and piezometric elevations, and locations and elevations of geologic rock units, if encountered. Display on one or more figures all of the following:

- Source location(s) and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).
- Source location(s) and lateral and vertical extent if groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES)
- Surface features, including buildings and basements, and show surface elevation changes.
- Any areas of active remediation within the cross section path, such as excavations or treatment zones.
- Include a map displaying the cross-section location(s), if they are not displayed on the Detailed Site Map (Map B.1b)

B.3.b. **Groundwater Isoconcentration:** Figure(s) showing the horizontal extent of the post-remedial groundwater contamination exceeding a ch. NR 140, Wis. Adm. Code, Preventive Action Limit (PAL) and/or an Enforcement Standard (ES). Indicate the date and direction of groundwater flow based on the most recent sampling data.

B.3.c. **Groundwater Flow Direction:** Figure(s) representing groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit two groundwater flow maps showing the maximum variation in flow direction.

B.3.d. **Monitoring Wells:** Figure(s) showing all monitoring wells, with well identification number. Clearly designate any wells that: (1) are proposed to be abandoned; (2) cannot be located; (3) are being transferred; (4) will be retained for further sampling, or (5) have been previously abandoned.

B.4. Vapor Maps and Other Media

B.4.a. **Vapor Intrusion Map:** Map(s) showing all locations and results for samples taken to investigate the vapor intrusion pathway, in relation to remaining soil and groundwater contamination, including sub-slab, indoor air, soil vapor, ambient air, and communication testing. Show locations and footprints of affected structures and utility corridors, and/or where residual contamination poses a future risk of vapor intrusion.

B.4.b. **Other media of concern (e.g., sediment or surface water)**: Map(s) showing all sampling locations and results for other media investigation. Include the date of sample collection and identify where any standards are exceeded.

B.4.c. **Other:** Include any other relevant maps and figures not otherwise noted above. (This section may remain blank)

Documentation of Remedial Action (Attachment C)

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

General Directions:

- Include in Attachment C all of the following documentation, in the order prescribed below, with the specific Closure Form titles noted on the separate attachments (e.g., Title: C.1. Site Investigation Documentation; C.2. Investigative Waste, etc).
- If the documentation requested below is "not applicable" to the site-specific circumstances, include a brief explanation to support that conclusion.
- If the documentation requested below has already been submitted to the Department, please note the title and date of the report for that particular document requested.

C.1. **Site investigation documentation,** that has not otherwise been previously submitted.

C.2. **Investigative waste** disposal documentation.

C.3. **Provide a description of the methodology used along with all supporting documentation if the Residual Contaminant Levels are different than those contained in the Department's RCL Spreadsheet available at: http://dnr.wi.gov/topic/Brownfields/Professionals.html.**

C.4. **Construction documentation** or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), Wis. Adm. Code.

C.5. **Decommissioning of Remedial Systems.** Include plans to properly abandon any systems or equipment upon receiving conditional closure.

C.6. **Photos.** For sites or facilities with a cover or other performance standard, a structural impediment or a vapor mitigation system. Include one or more photographs documenting the condition and extent of the feature at the time of the closure request. Pertinent features should be visible and discernible. Photographs must be labeled with the site name, the features shown, location and the date on which the photograph was taken.

C.7. **Other**. Include any other relevant documentation not otherwise noted above. (This section may remain blank)

Maintenance Plan(s) and Photographs (Attachment D)

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

When one or more "maintenance plans" are required for a site closure, include in each maintenance plan all required information listed below, and attach the plan(s) in Attachment D. The following "model" maintenance plans can be located at: (1) Maintenance plan for a engineering control or cover: http://dnr.wi.gov/topic/Brownfields/documents/maintenance-plan.pdf; and (2) Maintenance plan for vapor intrusion: http://dnr.wi.gov/topic/Brownfields/documents/appendix5_606.pdf.

D.1. **Location map(s)** which show(s): (1) the feature that requires maintenance; (2) the location of the feature(s) that require(s) maintenance - on and off the source property; (3) the extent of the structure or feature(s) to be maintained, in relation to other structures or features on the site; (4) the extent and type of residual contamination; and (5) and all property boundaries.

D.2. **Brief descriptions** of the type, depth and location of residual contamination.

D.3. **Description of maintenance action(s)** required for maximizing effectiveness of the engineered control, vapor mitigation system, feature or other action for which maintenance is required.

D.4. **Inspection log**, to be maintained on site, or at a location specified in the maintenance plan or approval letter.

D.5. **Contact information,** including the name, address and phone number of the individual or facility who will be conducting the maintenance.

D.6 Photographs

D.6.a. For site or facilities with a cover or other performance standard, a structural impediment or a vapor mitigation system, include one or more photographs documenting the condition and extent of the feature at the time of the closure request. Pertinent features shall be visible and discernible.

D.6.b. Photographs shall be submitted with a title related to the site name and location, and the date on which it was taken.

Monitoring Well Information (Attachment E)

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

General Directions:

Attach monitoring well construction and development forms (DNR FORM 4400-113 A and B: http://dnr.wi.gov/topic/groundwater/documents/forms/4400_113_1_2.pdf) for all wells that will remain in-use, be transferred to another party or that could not be located. A figure of these wells should be included in Attachment B.3.d.

Select One:

◉ No monitoring wells were required as part of this response action.

◯ All monitoring wells have been located and will be properly abandoned upon the DNR granting conditional closure to the site

◯ ***Select One or More:***

☐ Not all monitoring wells can be located, despite good faith efforts. Attachment E must include description of efforts made to locate the "lost" wells.

☐ One or more wells will be transferred to another owner upon case closure being granted. Attachment E should include documentation identifying the name, address and email for the new owner(s).

☐ One or more wells will remain in use at the site after this closure. Attachment E must include documentation as to the reason(s) the well(s) will remain in use.

Notifications to Owners of Impacted Properties (Attachment F)

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

General Directions:

- State law requires that the responsible party provide a 30-day, written advance notice (i.e., a letter) to certain persons prior to applying for case closure. This requirement applies if: (1) the person conducting the response action does not own the source property; (2) the contamination has migrated onto another property; and/or (3) one or more monitoring wells will not be abandoned.
- Use of Form 4400-286, Notification of Residual Contamination and Continuing Obligations, is required under ch. NR 725 for notifying property owners and right-of-way holders about residual contamination affecting their properties, and of continuing obligations which may be imposed. This form can be downloaded at http://dnr.wi.gov/files/PDF/forms/4400/4400-286.pdf.

Check all that apply to the site-specific circumstances of this case closure:

	A. Impacted Source Property and Owner is not Conducting Cleanup	B. Impacted Right of Way	C. Impacted Off-Site Property Owner	Impacted Property Notification Situations: Ch. NR 726 Appendix A Letter
1.	☐	☐	☐	Residual groundwater contamination exceeds Ch. NR 140 Wis. Administrative Code enforcement standards.
2.	☐	☐	☐	Residual soil contamination that attains or exceeds standards is present after the remedial action is complete, and must be properly managed should it be excavated or removed.
3.	☐	☐	☐	An engineered cover or a soil barrier (e.g. pavement) must be maintained over contaminated soil for direct contact or groundwater infiltration concerns.
4.	☐	☐	☐	Industrial land use soil standards were used for the clean-up standard.
5.	☐	☐	☐	A vapor mitigation system (or other specific vapor protection) must be operated and maintained.
6.	☐	☐	☐	Vapor assessment needed if use changes.
7.	☐	☐	☐	Structural impediment.
8.	☐	☐	☐	Lost, transferred or open monitoring wells.
9.	☒	☒	☒	Not Applicable.

If any of the previous boxes in rows 1 thru 8 were checked, include the following as part of Attachment F:

- FORM 4400-246;
- Copy of each letter sent, 30 days or more prior to requesting closure; and
- Proof of receipt for each letter.
- For this site closure, _____ (number) property (ies) has/have been impacted, the owners have been notified, and copies of the letters and receipts are included in Attachment F.

Source Legal Documents (Attachment G)

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form.All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

Include all of the following documents, in this order, in Attachment G:

G.1. **Deeds - Source Property and Other Impacted Properties:** The most recent deed with legal descriptions clearly labeled for (1) the **Source Property** (where the contamination originated) and (2) all **off-source** (off-site) properties where letters were required to be sent per the ch. NR 700, Wis. Adm. Code, rule series (e.g., off-site cover maintenance required, lost monitoring well, off-site cover property impacts to groundwater exceeding the ch. NR 140, Wis. Adm. Code.

Note: *If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*

G.2. ***Certified Survey Map:*** *A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map.* (Lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).

G.3. **Verification of Zoning**: Documentation (e.g., official zoning map or letter from municipality) of the property's or properties' current zoning status.

G.4. **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description(s) accurately describe(s) the correct contaminated property or properties.

Signatures and Findings for Closure Determination

If any section is not relevant to the case closure request, you must fully explain the reasons why and attach that explanation to the relevant section of the form. All information submitted shall be legible. Providing illegible information may result in a submittal being considered incomplete until corrected.

Check the correct box for this case closure request, and have either a professional engineer or a hydrogeologist, as defined in ch. NR 712, Wis. Adm. Code, sign this document.

☐ A response action(s) for this site addresses groundwater contamination (including natural attenuation remedies).

☒ The response action(s) for this site addresses media other than groundwater.

Engineering Certification

I Brian S. Jacobs hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this case closure request has been prepared by me or prepared under my supervision in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this case closure request is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

Brian S. Jacobs	Senior Project Engineer
Printed Name	Title
Signature	10/02/14 Date
	R.E. Stamp and Number

WISCONSIN PROFESSIONAL ENGINEER BRIAN JACOBS E-35309-006 MADISON

Hydrogeologist Certification

I _____ hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this case closure request is correct and the document was prepared by me or prepared by me or prepared under my supervision and, in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code. Specifically, with respect to compliance with the rules, in my professional opinion a site investigation has been conducted in accordance with ch. NR 716, Wis. Adm. Code, and all necessary remedial actions have been completed in accordance with chs. NR 140, NR 718, NR 720, NR 722, NR 724 and NR 726, Wis. Adm. Codes."

Printed Name	Title
Signature	Date

Data Tables Not Relevant To Case Closure Request

A.1. Groundwater Analytical Table

No groundwater monitoring wells exist within the Parcel R3 boundary.

Table A.2.a.

Pre-Remedial Soil Analytical Table - Salvage Yard

Parcel R3 - Wisconsin Department of Natural Resources Case Closure Report

Badger Army Ammunition Plant

Sample ID	Status	Date Sampled	Depth (feet bgs)	Arsenic (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	TCLP Lead (mg/l)	Mercury (mg/kg)	Benzene (mg/kg)	2,4-DNT (mg/kg)	PCB-1254 (mg/kg)	PCB-1254 [C] (mg/kg)	PCB-1260 (mg/kg)	PCB-1260 [C] (mg/kg)	PAHs
SY-03-01	Remaining	10/06/03	0.5	4.28 (D)	6.3 (J)	<9.53	NA	<0.013	<0.015	<0.04	NA	NA	NA	NA	N
SY-03-01 Dup	Remaining	10/06/03	0.5	4.2 (D)	4.93 (J)	<9.58	NA	<0.013	<0.015	<0.04	NA	NA	NA	NA	N
SY-03-02	Remaining	10/06/03	0.5	7.71(D)	20.6	34	NA	0.035 (J)	<0.015	<0.04	NA	NA	NA	NA	N
SY-03-03	Removed	10/06/03	0.5	**14 (D)**	20.3	**505**	NA	2.3 (D)	<0.015	<0.04	NA	NA	NA	NA	**Y**
SY-03-04	Removed	10/06/03	0.5	**13.7 (D)**	25.3	**649**	NA	0.27	**65**	<0.05	NA	NA	NA	NA	**Y**
SY-03-05	Removed	10/06/03	0.5	**28.7 (D)**	**89.9**	**1,890 (D)**	NA	1.49	<0.015	<0.04	NA	NA	NA	NA	**Y**
SY-03-06	Removed	10/07/03	0.5	9.4	17.3	**5,290 (D)**	NA	0.480 (D)	<0.015	<0.04	NA	NA	NA	NA	**Y**
SY-03-07	Removed	10/07/03	0.5	**28.8 (D)**	18.9	**6,360 (D)**	NA	1.20 (D)	<0.015	<0.05	NA	NA	NA	NA	**Y**
SY-03-08	Remaining	10/07/03	0.5	4.91 (D)	13.6	110	NA	<0.014	<0.015	NA	NA	NA	NA	NA	N
SY-03-09	Remaining	10/07/03	0.5	4.28 (D)	6.99 (J)	87.4	NA	<0.014	<0.015	<0.05	NA	NA	NA	NA	**Y**
SY-03-10	Remaining	10/07/03	0.5	4.27 (D)	11.3	10.3	NA	<0.014	<0.015	<0.05	NA	NA	NA	NA	**Y**
SY-03-11	Removed	10/07/03	0.5	**35.3 (D)**	**62.3**	**1,520 (D)**	NA	1.19 D	<0.015	<0.05	NA	NA	NA	NA	**Y**
SY-03-12	Removed	10/07/03	0.5	7.7 (D)	2.56	**5,710 (D)**	NA	0.225	<0.015	<0.04	NA	NA	NA	NA	**Y**
SY-03-13	Remaining	10/07/03	0.5	NA	NA	202 (D,J)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-03-14-S	Remaining	10/22/03	0.5	5.04 (D)	<2.62	110	NA	0.017 (J)	<0.08	<0.04	NA	NA	NA	NA	N
SY-03-14-D	Remaining	10/22/03	0.5	2.35 (D)	<2.58	<9.42	NA	<0.013	<0.08	<0.04	NA	NA	NA	NA	N
SY-1-0.5	Remaining	10/16/12	0.5	5.0 (D,J)	19.6 (D)	113 (D,MH,R)	0.04 (D,B,J)	0.039	<0.088 (VSE)	<0.08 (SL)	<0.120	<0.120	<0.0961	0.0977 (J,C)	N
SY-2-0.5	Remaining	10/16/12	0.5	5.0 (J,D)	16.6 (D)	18.8 (D)	<0.02 (B,D)	0.027 (J)	<0.869 (VSE)	<0.08	<0.116	<0.116	<0.093	<0.093	N
SY-3-0.5	Removed	10/16/12	0.5	9.6 (D)	34.2 (D)	**437** (D)	0.42 (B,D)	0.474	<0.074	<0.08 (SL)	<0.112	<0.112	**1.22**	**1.23**	N
SY-4-0.5	Removed	10/16/12	0.5	4.1 (D,J)	13.9 (D)	23.1 (D)	0.02 (J,B,D)	0.022 (J)	<0.065	<0.08	<0.112	<0.112	<0.0898	<0.0898	**Y**
SY-5-0.5	Removed	10/16/12	0.5	**38.0** (D)	**80.0** (D)	**1,640** (D)	4.20 (B,D)	0.737 (D)	<0.059	<0.08 (SL)	<0.118	<0.118	**0.392**	**0.491**	Y
SY-6-0.5	Removed	10/17/12	0.5	6.1 (D,J)	14.6 (D)	**574** (D)	3.40 (B,D)	0.265	<0.080	<0.07	<0.114	<0.114	**0.801**	**0.896**	Y
SY-7-0.5	Removed	10/17/12	0.5	7.1 (D)	**47.6** (D)	**615** (D)	1.26 (B,D)	4.016^ (D)	<0.064	<0.08	<0.115	<0.115	**0.452**	**0.591**	Y
SY-8-0.5	Removed	10/17/12	0.5	5.3 (D,J)	13.3 (D)	**127** (D)	0.08 (B,D)	0.082	<0.064	<0.08	<0.110	<0.110	**0.253**	**0.283**	N
SY-9-0.5	Removed	10/17/12	0.5	**34.0** (D)	8.6 (D)	**107** (D)	<0.02 (B,D)	0.034	<0.075 (VSE)	<0.08	<0.109	<0.109	<0.0873	<0.0873	N
SY-10-0.5	Remaining	10/17/12	0.5	<2.2 (D)	5.9 (D,J)	6.2 (D,J)	<0.02 (B,D)	0.014 (J)	<0.066	<0.08	<0.108	<0.108	<0.0862	<0.0862	Y
SY-11-0.5	Remaining	10/17/12	0.5	6.6 (D)	12.9 (D)	161 (D)	0.16 (B,D)	0.082	<0.064	<0.08	<0.112	<0.112	<0.0894 (SL)	<0.0894	Y
SY-12-0.5	Remaining	10/17/12	0.5	2.3 (D,J)	5.8 (D,J)	13.1 (D)	<0.02 (D)	<0.011	<0.061	<0.07	<0.107	<0.107	<0.0852	<0.0852	N
SY-13-0.5	Remaining	10/17/12	0.5	5.9 (D,J)	16.1 (D)	114 (D)	0.23 (D)	0.090	<0.074	<0.08	<0.114	<0.114	<0.0912	<0.0912	N
SY-15-0.5	Remaining	10/17/12	0.5	7.1 (D,J)	23.1 (D)	15.7 (D)	<0.02 (D)	0.030	<0.066	0.09 (J)	<0.116	<0.116	<0.0931	<0.0931	Y
SY-16-0.5	Remaining	10/17/12	0.5	6.2 (D,J)	18.9 (D)	29.8 (D)	1.82 (D)	0.031	<0.086 (VSE)	<0.08 (SL)	<0.109	<0.109	<0.0869	<0.0869	N
SY-17-0.5	Removed	10/17/12	0.5	8.6 (D)	**36.7** (D)	**574** (D)	2.87 (D)	0.092	<0.082	0.13 (J)	<0.118	<0.118	0.136 (J)	0.190	Y
SY-18-0.5	Removed	10/17/12	0.5	5.6 (D,J)	25.4 (D)	**467** (D)	1.8 (D)	0.239	<0.065	<0.08	<0.111	<0.111	**8.59** (D)	**8.92** (D)	**Y**
SY-19-0.5	Removed	10/17/12	0.5	5.2 (D,J)	**54.2** (D)	**155** (D)	0.11 (D)	0.230	<0.075	<0.08	<0.114	<0.114	**0.759**	**0.792**	N
SY-20-0.5	Remaining	10/17/12	0.5	4.0 (D,J)	15.9 (D)	25.4 (D)	0.05 (D,J)	0.042	<0.086 (VSE)	<0.08 (SL)	<0.116	<0.116	<0.0927	0.126 (C,J)	N
SY-21-0.5	Removed	10/18/12	0.5	7.8 (D)	26.4 (D)	**1,830** (D,ML)	0.18 (D)	0.284 (D,MH)	<0.075	<0.08	<0.114	<0.114	**0.262**	**0.336**	Y
SY-22-0.5	Remaining	10/18/12	0.5	3.4 (D,J)	10.0 (D)	26.4 (D)	0.04 (D,J)	0.036	<0.066	<0.08	<0.110	<0.110	0.114 (J)	0.153 (J)	N
SY-23-0.5	Remaining	10/18/12	0.5	7.2 (D,J)	17.3 (D)	53.6 (D)	<0.02 (D)	0.042	<0.082 (VSE)	<0.08	<0.117	<0.117	<0.0936	<0.0936	N
SY-24-0.5	Removed	10/18/12	0.5	2.4 (D,J)	8.6 (D)	**50.6** (D)	0.14 (D)	0.101	<0.073	<0.08	<0.101 (D)	<0.101 (D)	0.218 (SL,D)	**0.250** (SL,D)	Y
SY-25-0.5	Removed	10/18/12	0.5	8.5 (D)	**54.6** (D)	**448** (D)	1.85 (D)	2.176 (D)	<0.067	<0.08	<0.112	<0.112	**1.58** (SL)	**1.73**	Y
SY-26-0.5	Removed	10/18/12	0.5	**20.8** (D)	**86.0** (D)	**1,010** (D)	**6.18** (D)	**11.95** (D)	<0.066	<0.08	<0.116	<0.116	**0.880**	**0.994**	Y
SY-27-0.5	Removed	10/18/12	0.5	**29.3** (D)	**70.2** (D)	**1,920** (D)	2.94 (D)	0.285	<0.084	0.87	<0.121	<0.121	0.134 (J)	0.216	Y
SY-28-0.5	Removed	10/18/12	0.5	3.8 (D,J)	**44.1** (D)	**200** (D)	0.06 (D)	0.189	<0.065	<0.08	<0.111	<0.111	0.124 (J)	0.166 (J)	N
SY-29-0.5	Removed	10/18/12	0.5	**34.2** (D)	**81.7** (D)	**3,060** (D)	**26.2** (D)	0.184	**3.29**	1.5	<0.120	<0.120	<0.0958 (SL)	0.168 (C,J)	**Y**
SY-30-0.5	Removed	10/18/12	0.5	**30.4** (D)	26.7 (D)	**590** (D)	0.11 (D)	0.157	<0.097 (VSE)	0.19 (J)	<0.128	<0.128	0.196 (J)	**0.255**	Y
SY-31-0.5	Removed	10/22/12	0.5	5.6 (D,J,MH)	20.6 (D,MH,R)	**169** (D,ML,R)	0.08 (D)	2.761 (D)	<0.069	<0.08	<0.115	<0.115	**0.533**	**0.560**	Y
SY-32-0.5	Removed	10/22/12	0.5	7.6 (D)	**42.4** (D)	**433** (D)	2.33 (D)	0.587 (D)	<0.072	0.53	<0.113	<0.113	**0.858** (ML)	**0.808**	Y

Sample ID	Status	Date Sampled	Depth (feet bgs)	Arsenic (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	TCLP Lead (mg/l)	Mercury (mg/kg)	Benzene (mg/kg)	2,4-DNT (mg/kg)	PCB-1254 (mg/kg)	PCB-1254 [C] (mg/kg)	PCB-1260 (mg/kg)	PCB-1260 [C] (mg/kg)	PAHs
SY-33-0.5	*Removed*	*10/22/12*	*0.5*	***11.6*** *(D)*	***64.0*** *(D)*	***1,690*** *(D)*	*0.48 (D)*	*1.304 (D)*	*<0.089 (VSE)*	*<0.08*	*<0.118*	*<0.118*	***3.08*** *(D)*	***3.30*** *(D)*	***Y***
SY-34-0.5	*Removed*	*10/22/12*	*0.5*	***38.1*** *(D)*	***64.5*** *(D)*	***3,780*** *(D)*	***8.54*** *(D)*	*1.377 (D)*	*<0.080*	*0.28 (J)*	*<0.116*	*<0.116*	***0.994***	***0.857***	*Y*
SY-35-0.5	*Removed*	*10/22/12*	*0.5*	*6.1 (D,J)*	*16.8 (D)*	***344*** *(D)*	***32.6*** *(D)*	*0.125 (ML,R)*	*<0.063*	*<0.08*	*<0.113*	*<0.113*	*<0.090*	*<0.090*	*N*
SY-36-0.5	*Removed*	*10/22/12*	*0.5*	***15.8*** *(D)*	***58.2*** *(D)*	***1,090*** *(D)*	*3.30 (D)*	*2.253 (D)*	*<0.057*	*<0.08*	*<0.114*	*<0.114*	***1.37***	***1.38***	*Y*
SY-37-0.5	*Removed*	*10/22/12*	*0.5*	*6.7 (D,J)*	*21.4 (D)*	***3,810*** *(D)*	*0.06 (D)*	*0.281*	*<0.058*	*<0.08 (SL)*	*<0.116*	*<0.116*	*<0.0930*	*<0.0930*	*N*
SY-38-0.5	*Removed*	*10/22/12*	*0.5*	*7.3 (D)*	*27.8 (D)*	***3,620*** *(D)*	*0.03 (D,J)*	*0.066*	*<0.059*	*<0.08 (SL)*	*<0.118*	*<0.118*	*<0.0947*	*0.112 (C,J)*	*Y*
SY-39-0.5	*Removed*	*10/22/12*	*0.5*	*5.4 (D,J)*	*25.6 (D)*	***192*** *(D)*	*0.86 (D)*	*0.203*	*<0.073*	***3.3***	*<0.122*	*<0.122*	***1.05***	***0.972***	*Y*
SY-40-0.5	*Removed*	*10/22/12*	*0.5*	***18.7*** *(D)*	*24.4 (D)*	***427*** *(D)*	*0.26 (D)*	*0.271*	*<0.071*	*<0.08*	*<0.121*	*<0.121*	*0.104 (J)*	*0.126 (J)*	*Y*
SY-41-0.5	*Removed*	*10/22/12*	*0.5*	*5.2 (D,J)*	*13.6 (D)*	***147*** *(D)*	*0.12 (D)*	*0.052*	*<0.054*	*<0.08*	*<0.109*	*<0.109*	*0.165 (J)*	***0.226***	*Y*
SY-42-0.5	*Remaining*	*10/22/12*	*0.5*	*3.4 (D,J)*	*10.7 (D)*	*70.7 (D)*	*0.08 (D)*	*0.053*	*<0.056*	*<0.08*	*<0.111*	*<0.111*	*<0.0891*	*0.0966 (C,J)*	*Y*
SY-43-0.5	*Remaining*	*10/22/12*	*0.5*	*6.5 (D,J)*	*19.5 (D)*	*50.7 (D)*	*<0.02 (D)*	*0.048*	*<0.082*	*<0.09 (SL)*	*<0.126*	*<0.126*	*<0.101*	*<0.101*	*N*
SY-44-0.5	*Removed*	*10/22/12*	*0.5*	*4.4 (D,J)*	*14.0 (D)*	***127*** *(D)*	*0.08 (D)*	*0.108*	*<0.056*	*<0.08*	*<0.111*	*<0.111*	***0.297***	***0.299***	*Y*
SY-45-0.5	*Removed*	*10/22/12*	*0.5*	*6.3 (D,J)*	*19.3 (D)*	***255*** *(D)*	*0.40 (B,D)*	*0.163*	*<0.089*	*<0.09*	*<0.134*	*<0.134*	***0.239***	***0.264***	*Y*
SY-46-0.5	*Remaining*	*10/22/12*	*0.5*	*6.5 (D,J)*	*7.0 (D,J)*	*100 (D)*	*0.07 (B,D)*	*0.108*	*<0.069*	*<0.08*	*<0.113*	*<0.113*	*<0.0908*	*0.0965 (C,J)*	*N*
SY-47-0.5	*Removed*	*10/22/12*	*0.5*	*9.1 (D)*	*27.3 (D)*	***361*** *(D)*	*0.85 (B,D)*	*0.170*	*<0.093 (VSE)*	*<0.08*	*<0.120*	*<0.120*	*0.174 (J)*	*0.177 (J)*	*Y*
SY-48-0.5	*Removed*	*10/22/12*	*0.5*	*5.9 (D,J)*	*16.2 (D)*	***261*** *(D)*	*0.18 (B,D)*	*0.034*	*<0.081*	*<0.08*	*<0.117*	*<0.117*	***0.387***	***0.408***	*Y*
SY-49-0.5	*Removed*	*10/22/12*	*0.5*	*4.5 (D,J)*	*32.5 (D)*	***107*** *(D)*	*0.31 (B,D)*	*0.274*	*<0.082*	*<0.09*	***2.22*** *(D)*	***2.22*** *(D)*	*<0.104*	*<0.104*	*Y*
SY-50-0.5	*Remaining*	*10/22/12*	*0.5*	*3.7 (J)*	*10.0*	*39.8*	*0.22 (B,D)*	*2.837*	*<0.067*	*<0.08*	*<0.112*	*<0.112*	*0.212 (MH)*	*0.211 (MH)*	*N*
Cleanup Objective†				10	35.5	50/250*	5.0	10	1.1	1.6	0.22	0.22	0.22	0.22	_

bgs - Below ground surface
mg/kg - Milligrams per kilogram
mg/l - Milligrams per liter
Bold text identifies Cleanup Objective exceedance.
Italicized text and shaded cell identifies previously reported result.
DNT - Dinitrotoluene
PAH - Polynuclear Aromatic Hydrocarbons
PCB - Polychlorinated Biphenyl
NA - Not analyzed
B - Analyte was detected in associated Method Blank.
C - Confirmatory analysis did not confirm the presence of the analyte.
D - Elevated Limit of Detection (LOD) and Limit of Quantitation (LOQ) are due to dilution/volume of the sample.
J - Analytical result is between the LOD and LOQ.
MH - Matrix Spike and/or Matrix Spike Duplicate recovery exceeded the upper control limit.
ML - Matrix spike and/or matrix spike duplicate was below the lower control limit.
R - Relative percent difference for the matrix spike/matrix spike duplicate exceeded the upper control limit.
SH - Surrogate recovery exceeded the upper control limit. Analytical results for the parameter should be considered estimates.
SL - Surrogate recovery was below the lower control limit. Analytical results for the parameter should be considered estimates.
VSE - Less than 8.0 grams of soil collected for volatile organic compound (VOC) extraction.
TCLP - Toxicity Characteristic Leaching Procedure
* When lead is the only contaminant of concern.
^ TCLP mercury analysis reported no detection (<0.0001 mg/l).
^^ - TCLP arsenic analysis reported no detection (<0.04 (D)) mg/l.
~ - TCLP chromium analysis reported no detection (<0.02 mg/l (D)).
Y - detected
Y - detected at elevated concentration
N - not detected
- Pentachlorophenol (PCP) was detected at 1.4 (SL) mg/kg, which is above the USEPA RSL of 0.89 mg/kg.
† - See Table 1

Table A.2.b.

Pre-Remedial Soil Analytical Table - Corporation Yard

Parcel R3 - Wisconsin Department of Natural Resources Case Closure Request

Badger Army Ammunition Plant

Sample ID	Status	Date Sampled	Depth (feet bgs)	Arsenic (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)
CYN-1-0.5	*Removed*	*09/24/12*	*0.5*	***23.0*** *(D)*	*21.7 (D)*	*18.1 (D,ML)*
CYN-2-0.5	*Removed*	*09/24/12*	*0.5*	***85.5*** *(D)*	***55.1*** *(D)*	*15.8 (D)*
CYN-3-0.5	*Remaining*	*09/24/12*	*0.5*	*4.0 (D,J)*	*8.1 (D)*	*14.1 (D)*
CYN-4-0.5	*Remaining*	*09/24/12*	*0.5*	*4.2 (D,J)*	*9.7 (D)*	*35.2 (D)*
CYN-5-0.5	*Removed*	*09/24/12*	*0.5*	***37.0*** *(D)*	*15.0 (D)*	*14.6 (D)*
CYN-6-0.5	*Removed*	*09/24/12*	*0.5*	***26.6*** *(D)*	***44.4*** *(D)*	***50.5*** *(D)*
CYN-7-0.5	*Removed*	*09/24/12*	*0.5*	***12.7*** *(D)*	***39.0*** *(D)*	***183*** *(D)*
CYN-8-0.5	*Remaining*	*09/24/12*	*0.5*	*8.7 (D)*	*15.0 (D)*	*25.1 (D)*
CYN-9-0.5	*Removed*	*09/24/12*	*0.5*	***21.4*** *(D)*	*15.5 (D)*	*12.8 (D)*
CYN-10-0.5	*Remaining*	*09/24/12*	*0.5*	*5.1 (D,J)*	*16.5 (D)*	*96.2 (D)*
CYN-11-0.5	*Removed*	*09/24/12*	*0.5*	***33.1*** *(D)*	*33.0 (D)*	*14.1 (D)*
CYN-12-0.5	*Removed*	*09/24/12*	*0.5*	***14.5*** *(D)*	*20.8 (D)*	***102*** *(D)*
CYN-13-0.5	*Removed*	*09/24/12*	*0.5*	***57.5*** *(D)*	***54.2*** *(D)*	***69.8*** *(D)*
CYN-14-0.5	*Remaining*	*09/24/12*	*0.5*	*2.7 (D,J)*	*9.5 (D)*	*6.1 (D,J)*
CYN-15-0.5	*Remaining*	*09/24/12*	*0.5*	*4.5 (D,J)*	9.0 (D)	*20.3 (D)*
CYN-16-0.5	*Removed*	*09/24/12*	*0.5*	***30.8*** *(D)*	*28.2 (D)*	*35.7 (D)*
CYS-1-0.5	*Remaining*	*09/26/12*	*0.5*	*9.9 (D)*	*10.0 (D)*	*42.4 (D,ML)*
CYS-2-0.5	*Remaining*	*09/26/12*	*0.5*	*4.3 (D,J)*	*8.8 (D)*	*19.4 (D)*
CYS-3-0.5	*Remaining*	*09/26/12*	*0.5*	*4.8 (D,J)*	*9.2 (D)*	*21.9 (D)*
CYS-4-0.5	*Removed*	*09/26/12*	*0.5*	***14.1*** *(D)*	*12.9 (D)*	*30.2 (D)*
CYS-5-0.5	*Remaining*	*09/26/12*	*0.5*	*7.0 (D,J)*	*20.3 (D)*	*25.9 (D)*
CYS-6-0.5	*Removed*	*09/26/12*	*0.5*	***50.5*** *(D)*	*17.8 (D)*	*39.9 (D)*
CYS-7-0.5	*Removed*	*09/26/12*	*0.5*	***94.9*** *(D)*	*15.5 (D)*	*34.6 (D)*
CYS-8-0.5	*Remaining*	*09/26/12*	*0.5*	*3.1 (D,J)*	*11.1 (D)*	*8.0 (D)*
Cleanup Objective†				10	35.5	50/250*

bgs - Below ground surface
mg/kg - Milligrams per kilogram
NA - Not analyzed
Bold text identifies Cleanup Objective exceedance.
Italicized text cell identifies previously reported result.
D - Elevated Limit of Detection (LOD) and Limit of Quantitation (LOQ) are due to dilution/volume of the sample.
J - Analytical result is between the LOD and LOQ.
MH - Matrix Spike and / or Matrix Spike Duplicate recovery exceeded the upper control limit.
ML - Matrix spike and/or matrix spike duplicate was below the lower control limit.
* When lead is the only contaminant of concern.
† - See Table 1

Table A.2.c.

Pre-Remedial Soil Analytical Table - Post-Demolition

Parcel R3 - Wisconsin Department of Natural Resources Case Closure Request

Badger Army Ammunition Plant

Sample ID	Status	Date Sampled	Depth (feet bgs)	Lead (mg/kg)	PCB-1254 (mg/kg)	PCB-1254 [2C] (mg/kg)	PCB-1260 (mg/kg)	PCB-1260 [2C] (mg/kg)
0521-01-7-0.5	*Removed*	*08/25/11*	*0.5*	*88.5 (B, D)*	*<0.115*	*<0.115*	***0.264***	***0.279***
PCR-024101-1-0.5	Remain	06/21/12	0.5	5.4 (D, J)	<0.101	<0.101	<0.101	<0.101
PCR-024101-2-0.5	Remain	06/21/12	0.5	5.6 (D, J)	<0.100	<0.100	<0.100	<0.100
PCR-024101-3-0.5	Remain	06/21/12	0.5	16.7 (D)	<0.101	<0.101	<0.101 (CL)	<0.101
PCR-024101-4-0.5	Remain	06/21/12	0.5	12.6 (D)	<0.102	<0.102	<0.102 (CL)	<0.102
PCR-024101-5-0.5	Remain	06/21/12	0.5	14.5 (D)	<0.103	<0.103	<0.103 (CL)	<0.103
PCR-024101-6-0.5	Remain	06/21/12	0.5	11.3 (D)	<0.100	<0.100	<0.100 (CL)	<0.100
PCR-024101-7-0.5	Remain	06/21/12	0.5	10.5 (D)	<0.102	<0.102	<0.102 (CL)	<0.102
PCR-024101-8-0.5	Remain	06/21/12	0.5	21.9 (D)	<0.104	<0.104	<0.104	<0.104
PCR-024101-9-0.5	Remain	06/21/12	0.5	7.4 (D)	<0.101	<0.101	<0.101	<0.101
PCR-024101-10-0.5	Removed	06/21/12	0.5	47.6 (D)	**0.304**	**0.399**	0.106 (J)	0.141 (J)
PCR-051800-1-0.5	Removed	06/21/12	0.5	**205 (D)**	**0.695**	**0.633**	**0.573**	**0.639**
PCR-051800-2-0.5	Remain	06/21/12	0.5	10.3 (D)	<0.102	<0.102	<0.102	0.139 (C, J)
PCR-051800-3-0.5	Remain	06/21/12	0.5	14.1 (D)	<0.102	<0.102	<0.102	<0.102
Cleanup Objective†				50/250*	0.22	0.22	0.22	0.22

bgs - Below ground surface
mg/kg - Milligrams per kilogram
Bold text identifies Cleanup Objective exceedance.
Italicized text identifies previously reported result.
PCB - Polychlorinated Biphenyl
NA - Not analyzed
B - Analyte was detected in associated Method Blank.
C - Confirmatory analysis did not confirm the presence of the analyte.
CL - Calibration Verification Standard recovery was below the lower control limit.
D - Elevated Limit of Detection (LOD) and Limit of Quantitation (LOQ) are due to dilution/volume of the sample.
J - Analytical result is between the LOD and LOQ.
a - Analysis completed by a subcontract laboratory.
* When lead is the only contaminant of concern.
† - See Table 1

Table A.3.a

Post-Remedial Soil Analytical Table - Salvage Yard

Parcel R3 - Wisconsin Department of Natural Resources Case Closure Request

Badger Army Ammunition Plant

Sample ID	Status	Date Sampled	Depth (feet bgs)	Arsenic (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	TCLP Lead (mg/l)	Mercury (mg/kg)	Benzene (mg/kg)	2,4-DNT (mg/kg)	PCB-1254 (mg/kg)	PCB-1254 [C] (mg/kg)	PCB-1260 (mg/kg)	PCB-1260 [C] (mg/kg)	PAHs
SY-3A-1.0	Remaining	11/14/12	1.0	4.7 (D,J)	13.1 (D)	7.4 (D)	NA	0.018 (J)	NA	<0.07	<0.106	<0.106	<0.0845	<0.0845	N
SY-4A-1.0	Remaining	11/14/12	1.0	8.5 (D)	22.6 (D)	13.1 (D)	NA	0.029 (J)	NA	<0.08	<0.121	<0.121	<0.0971	<0.0971	N
SY-5A-1.0	Remaining	11/14/12	1.0	5.6 (D,J)	17.8 (D)	27.5 (D)	NA	0.036	NA	<0.08	<0.116	<0.116	<0.093	<0.093	N
SY-6A-1.0	Removed	11/13/12	1.0	9.5 (D)	16.5 (D)	**454 (D)**	NA	0.112	NA	<0.08	<0.113	<0.113	<0.0902	0.119 (C,J,SH)	Y
SY-6A-3.0	Remaining	12/13/12	3.0	<2.2 (D)	6.7 (D)	31.2 (D,ML)	NA	0.011 (J)	NA	NA	NA	NA	NA	NA	NA
SY-6B-1.5	Remaining	12/13/12	1.5	4.8 (D,J)	14.3 (D)	23.6 (D)	NA	0.023 (J)	NA	NA	NA	NA	NA	NA	NA
SY-6C-1.5	Remaining	12/13/12	1.5	<2.1 (D)	5.9 (D)	3.5 (D,J)	NA	<0.011	NA	NA	NA	NA	NA	NA	NA
SY-7A-1.0	Remaining	11/13/12	1.0	<2.2 (D)	6.0 (D)	5.7 (D,J)	NA	<0.011	NA	<0.08	<0.108	<0.108	<0.0864	<0.0864	N
SY-8A-1.0	Remaining	11/13/12	1.0	3.3 (D,J)	10.1 (D)	17.0 (D)	NA	0.022 (J)	NA	<0.08	<0.111	<0.111	<0.0890	<0.0890	N
SY-9A-1.0	Remaining	11/13/12	1.0	2.2 (D,J)	6.1 (D)	6.9 (D)	NA	<0.011 (J)	NA	<0.08	<0.112	<0.112	<0.0899	<0.0899	N
SY-14-0.5	*Removed*	*11/13/12*	*0.5*	*7.9 (D)*	*16.1 (D)*	***138** (D)*	*0.06 (D)*	*0.065*	*<0.087 (VSE)*	*<0.08 (SL)*	*<0.121*	*<0.121*	*0.157 (J)*	***0.221** (SH)*	*Y*
SY-14A-1.0	Remaining	10/17/12	1.0	2.3 (D,J)	7.0 (D)	3.4 (D,J)	NA	<0.011	NA	<0.08	<0.110	<0.110	<0.0878	<0.0878	N
SY-17A-1.0	Remaining	11/13/12	1.0	4.1 (D,J)	11.4 (D)	6.5 (D,J)	NA	<0.012 (J)	NA	<0.08	<0.112	<0.112	<0.0898	<0.0898	N
SY-18A-1.0	Remaining	11/13/12	1.0	2.1 (D,J)	6.6 (D)	3.6 (D,J)	NA	<0.011	NA	<0.07	<0.106	<0.106	<0.0898	<0.0898	N
SY-19A-1.0	Remaining	11/13/12	1.0	3.7 (D,J)	10.3 (D)	6.5 (J,D)	NA	<0.013 (J)	NA	<0.08	<0.108	<0.108	<0.0861	<0.0861	N
SY-21A-1.0	Removed	11/13/12	1.0	**11.8 (D)**	21.9 (D)	13.6 (D)	NA	0.032 (J)	NA	<0.09	<0.125	<0.125	<0.0998	<0.0998	N
SY-21A-2.0	Remaining	12/17/12	2.0	4.3 (D,J)	12.2 (D)	16.0 (D)	NA	0.027 (J)	NA	NA	NA	NA	NA	NA	NA
SY-24A-1.0	Remaining	11/14/12	1.0	7.0 (D)	20.4 (D)	13.7 (D)	NA	0.030 (J)	NA	<0.08	<0.121	<0.121	<0.0965	<0.0965	N
SY-25A-1.0	Remaining	11/14/12	1.0	5.1 (D,J)	16.2 (D)	12.4 (D)	NA	0.024 (J)	NA	<0.09	<0.124	<0.124	<0.0989	<0.0989	N
SY-26T-0.5	Removed	11/15/12	0.5	NA	NA	NA	**15.4** (D)	<0.0001^	NA	NA	NA	NA	NA	NA	NA
SY-26TT-0.5	Removed	12/19/12	0.5	NA	NA	NA	0.76 (D)	NA	NA	NA	NA	NA	NA	NA	NA
SY-26-1.0	Remaining	02/14/13	1.0	6.9 (D,J)	19.9 (D,MH)	14.8 (D)	NA	0.023 (J)	NA	NA	<0.125	<0.125	<0.100 (SL)	<0.100	NA
SY-27A-1.0	Remaining	11/14/12	1.0	7.0 (D,J)	20.5 (D)	13.7 (D)	NA	0.022 (J)	NA	<0.09	<0.127	<0.127	<0.102	<0.102	N
SY-28A-1.0	Remaining	11/14/12	1.0	4.8 (D,J)	16.1 (D)	11.4 (D)	NA	0.019 (J)	NA	<0.09	<0.122	<0.122	<0.0974	<0.0974	N
SY-29T-0.5	Removed	11/15/12	0.5	NA	NA	NA	**5.3** (D)	NA	NA	NA	NA	NA	NA	NA	NA
SY-29TT-0.5	Removed	12/19/12	0.5	NA	NA	NA	0.36 (D)	NA	NA	NA	NA	NA	NA	NA	NA
SY-29-1.0	Remaining	02/14/13	1.0	7.9 (D)	19.4 (D)	250 (D)	NA	0.079	<0.073	NA	NA	NA	NA	NA	NA
SY-30A-1.0	Remaining	11/14/12	1.0	6.2 (D,J)	17.4 (D)	15.0 (D)	NA	0.023 (J)	NA	<0.09	<0.125	<0.125	<0.0997	<0.0997	N
SY-31A-1.0	Removed	11/14/12	1.0	6.7 (D)	19.3 (D)	**62.7** (D)	NA	0.025 (J)	NA	<0.08	<0.115	<0.115	**0.314**	**0.275**	Y
SY-31A-2.0	Remaining	12/13/12	2.0	3.1 (D,J)	14.6 (D)	19.3 (D)	NA	0.023 (J)	NA	NA	<0.106	<0.106	<0.0845	<0.0845	N
SY-31B-1.0	Remaining	12/13/12	1.0	5.5 (D,J)	25.8 (D)	40.4 (D)	NA	0.030 (J)	NA	NA	<0.122	<0.122	<0.0972	<0.0972	N
SY-32A-1.0	Remaining	11/14/12	1.0	6.5 (D,J)	16.3 (D)	14.6 (D)	NA	0.024 (J)	NA	<0.08	<0.119	<0.119	<0.0953	<0.0953	N
SY-33A-1.0	Remaining	11/14/12	1.0	7.5 (D)	21.1 (D)	15.8 (D)	NA	0.028	NA	<0.08	<0.118	<0.118	<0.0942	<0.0942	N
SY-34T-0.5	Removed	11/15/12	0.5	NA	NA	NA	2.82 (D)	NA	NA	NA	NA	NA	NA	NA	NA
SY-34A-1.0	Remaining	12/06/12	1.0	9.2 (D)	25.4 (D)	18.3 (D)	NA	0.031 (J)	NA	<0.09	<0.124	<0.124	<0.0988	<0.0988	N
SY-35T-0.5	Removed	11/15/12	0.5	NA	NA	NA	0.78 (D)	NA	NA	NA	NA	NA	NA	NA	NA
SY-35A-1.0	Remaining	12/06/12	1.0	9.0 (D)	18.0 (D,MH)	30.9 (D)	NA	0.041	NA	NA	NA	NA	NA	NA	NA
SY-36A-1.0	Remaining	11/14/12	1.0	4.9 (D,J)	16.5 (D)	14.4 (D)	NA	0.030	NA	<0.08	<0.120	<0.120	<0.0958	<0.0958	N
SY-37A-1.0	Remaining	11/14/12	1.0	5.8 (D,J)	18.6 (D)	11.8 (D)	NA	0.028	NA	<0.08	<0.116	<0.116	<0.0930	<0.0930	N
SY-38A-1.0	Remaining	11/14/12	1.0	7.4 (D,J)	21.2 (D)	15.9 (D)	NA	0.032	NA	<0.08	<0.117	<0.117	<0.0935	<0.0935	N
SY-39A-1.0	Remaining	11/14/12	1.0	4.9 (D,J)	14.2 (D)	9.6 (D)	NA	0.021 (J)	NA	<0.08	<0.119	<0.119	<0.0954	<0.0954	N
SY-40A-1.0	Remaining	11/14/12	1.0	4.2 (D,J)	18.2 (D)	18.8 (D)	NA	0.035 (J)	NA	<0.09	<0.133	<0.133	<0.106	<0.106	N
SY-41A-1.0	Remaining	11/15/12	1.0	4.3 (D,J)	10.1 (D)	26.2 (D,ML)	NA	0.019 (J)	NA	<0.08	<0.111	<0.111	<0.0887	<0.0887	N
SY-44A-1.0	Remaining	11/15/12	1.0	7.6 (D,J)	23.4 (D)	21.3 (D)	NA	0.033 (J)	NA	<0.08	<0.121	<0.121	<0.0971	<0.0971	N
SY-45A-1.0	Removed	11/15/12	1.0	6.6 (D,J)	16.1 (D)	**155** (D)	NA	0.091	NA	<0.08	<0.587 (D)	<0.587 (D)	**3.83** (D,SL)	**3.30** (D)	N
SY-45A-2.0	Remaining	12/17/12	2.0	4.3 (D, J)	11.7 (D)	10.9 (D)	NA	<0.012	NA	<0.08	<0.119	<0.119	<0.0954	<0.0954	N
SY-47A-1.0	Remaining	11/15/12	1.0	5.2 (D,J)	17.2 (D)	21.8 (D)	NA	0.020 (J)	NA	<0.08	<0.121	<0.121	<0.0971	<0.0971	N
SY-48A-1.0	Remaining	11/15/12	1.0	6.5 (D,J)	18.8 (D)	23.2 (D)	NA	0.029 (J)	NA	<0.09	<0.122	<0.122	<0.0973	<0.0973	Y

Sample ID	Status	Date Sampled	Depth (feet bgs)	Arsenic (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	TCLP Lead (mg/l)	Mercury (mg/kg)	Benzene (mg/kg)	2,4-DNT (mg/kg)	PCB-1254 (mg/kg)	PCB-1254 [C] (mg/kg)	PCB-1260 (mg/kg)	PCB-1260 [C] (mg/kg)	PAHs
SY-49A-1.0	Remaining	11/15/12	1.0	4.9 (D,J)	18.8 (D)	14.5 (D)	NA	0.028 (J)	NA	<0.09	<0.130	<0.130	<0.104	<0.104	N
SY-51-0.5	Removed	11/14/12	0.5	**10.7** (D)	**41.5** (D)	**260** (D)	NA	3.121^ (D)	NA	<0.08	<0.113	<0.113	<0.0908	0.102 (C,J)	N
SY-51A-1.0	Remaining	12/13/12	1.0	8.7 (D)	22.6 (D)	78.0 (D)	NA	0.039	NA	NA	NA	NA	NA	NA	NA
SY-51B-0.5	Removed	12/13/12	0.5	**33.6 (D)**	**48.7 (D)**	**1,830 (D)**	0.57 (D)	0.370	NA	NA	NA	NA	NA	NA	NA
SY-51C-1.0	Remaining	05/01/13	1.0	9.6 (D)	16.8 (D)	76.4 (D)	NA	NA	NA	NA	<0.123	<0.123	<0.0985 (SL)	<0.0985	NA
SY-51D-1.0	Remaining	05/01/13	1.0	2.3 (D,J)	6.5 (D)	3.8 (D,J)	NA	NA	NA	NA	<0.110	<0.110	<0.0881 (SL)	<0.0881	NA
SY-51E-2.0	Remaining	05/01/13	2.0	8.5 (D)	26.7 (D)	16.8 (D)	NA	NA	NA	NA	<0.127	<0.127	<0.102	<0.102	NA
SY-52-0.5	Removed	11/14/12	0.5	**31.2** (D)	**42.7** (D)	**1,460** (D)	0.46 (D)	0.050	NA	<0.08	<0.120	<0.120	<0.0959	<0.0959	**Y**
SY-52A-1.0	Remaining	12/13/12	1.0	6.6 (D,J)	19.5 (D)	43.0 (D)	NA	0.093	NA	NA	NA	NA	NA	NA	NA
SY-52B-0.5	Removed	12/13/12	0.5	**27.7 (D)**	**13,000 (D)**	**1,920 (D)**	**32.3 (D)**	0.093	NA	NA	NA	NA	NA	NA	NA
SY-52B-0.5TT	Removed	05/01/13	0.5	NA	NA	NA	0.30 (B,D)	NA	NA	NA	NA	NA	NA	NA	NA
SY-52B-2.0	Remaining	05/14/13	2.0	8.1 (D)	24.4 (D)	19.6 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-52C-1.0	Remaining	05/01/13	1.0	6.7 (D,J)	19.8 (D)	151 (D)	NA	NA	NA	NA	<0.125	<0.125	<0.0996	0.100 (C,J)	NA
SY-52D-2.0	Remaining	05/01/13	2,0	5.5 (D,J)	16.2 (D)	12.9 (D)	NA	NA	NA	NA	<0.123	<0.123	<0.0980 (SL)	<0.0980	NA
SY-52E-1.0T	Remaining	05/14/13	1.0	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	NA	NA	NA
SY-53-0.5	Remaining	11/14/12	0.5	4.6 (D,J)	10.8 (D)	38.9 (D)	NA	0.027 (J)	NA	<0.08	<0.111	<0.111	0.101 (J)	0.154 (J)	N
SY-54-0.5	Removed	11/14/12	0.5	8.0 (D)	19.3 (D)	**146** (D)	NA	0.058 (MH)	NA	0.70	<0.121	<0.121	**0.368**	**0.346**	N
SY-54A-1.0	Remaining	12/13/12	1.0	7.3 (D,J)	23.4 (D)	13.4 (D)	NA	0.032 (J)	NA	NA	<0.119	<0.119	<0.0949	<0.0949	NA
SY-54B-0.5	Removed	12/13/12	0.5	7.4 (D,J)	26.2 (D)	**314 (D)**	NA	0.063	NA	NA	<0.118	<0.118	**0.840**	**0.822**	NA
SY-54B-1.0	Remaining	02/19/13	0.5	NA	NA	23.3 (D)	NA	NA	NA	NA	<0.124	<0.124	<0.0993 (SL)	0.119 (C,J)	NA
SY-54C-0.5	Removed	02/19/13	0.5	NA	NA	**554 (D)**	NA	NA	NA	NA	<0.119	<0.119	**1.46**	**1.69**	NA
SY-54C-0.5T	Removed	03/13/13	0.5	^^	NA	NA	0.29 (B,D)	NA	NA	NA	NA	NA	NA	NA	NA
SY-54D-0.5	Remaining	02/19/13	0.5	NA	NA	23.7 (D)	NA	NA	NA	NA	<0.122	<0.122	<0.0978 (SL)	0.133 (C,J)	NA
SY-54E-0.5	Remaining	02/19/13	0.5	NA	NA	17.5 (D)	NA	NA	NA	NA	<0.122	<0.122	<0.0976 (SL)	<0.0976	NA
SY-54F-1.0	Removed	05/01/13	1.0	NA	NA	21.2 (D)	NA	NA	NA	NA	<0.121	<0.121	**0.874**	**0.909**	NA
SY-54G-2.0	Remaining	05/01/13	2.0	NA	NA	24	NA	NA	NA	NA	<0.120	<0.120	<0.0962 (SL)	<0.0962	NA
SY-54H-1.0	Remaining	05/14/13	1.0	NA	NA	NA	NA	NA	NA	NA	<0.121	<0.121	<0.0968	<0.0968	NA
SY-54I-1.0	Remaining	05/14/13	1.0	NA	NA	NA	NA	NA	NA	NA	<0.120	<0.120	<0.0963	<0.0963	NA
SY-54J-2.0	Remaining	05/14/13	2.0	NA	NA	NA	NA	NA	NA	NA	<0.121	<0.121	<0.0967	<0.0967	NA
SY-55-0.5	Remaining	11/14/12	0.5	7.1 (D)	20.8 (D)	12.1 (D)	NA	0.024 (J)	NA	<0.08	<0.120	<0.120	<0.0960	<0.0960	N
SY-56-0.5	Remaining	11/14/12	0.5	5.2 (D,J)	16.2 (D)	12.7 (D)	NA	0.027 (J)	NA	<0.08	<0.120	<0.120	<0.0959	<0.0959	N
SY-57-0.5	Remaining	11/14/12	0.5	4.9 (D,J)	15.5 (D)	12.6 (D)	NA	0.023 (J)	NA	<0.08	<0.115	<0.115	<0.0923	<0.0923	N
SY-58-0.5	Remaining	11/14/12	0.5	9.3 (D)	26.7 (D)	14.3 (D)	NA	0.038	NA	<0.08	<0.121	<0.121	<0.0968	<0.0968	N
SY-59-0.5	Remaining	11/15/12	0.5	9.8 (D)	25.8 (D)	174 (D)	NA	0.064	NA	0.14 (J)	<0.125	<0.125	<0.0998	<0.0998	Y
SY-60-0.5	Removed	11/15/12	0.5	**20.8** (D)	27.0 (D)	**468** (D)	NA	0.179	NA	0.16 (J)	<0.121	<0.121	<0.0972	<0.0972 (SL)	N
SY-60A-1.0	Remaining	12/18/12	1.0	8.0 (D)	22.4 (D)	16.1 (D)	NA	0.030 (J)	NA	NA	NA	NA	NA	NA	NA
SY-60B-0.5	Remaining	12/18/12	0.5	4.7 (D,J)	14.0 (D)	128 (D)	NA	0.086	NA	NA	NA	NA	NA	NA	NA
SY-61-0.5	Removed	11/15/12	0.5	**17.1** (D)	7.7 (D)	**103** (D)	NA	0.265	NA	<0.07	<0.106	<0.106	<0.0850	<0.0850	N
SY-61A-2.0	Remaining	01/17/13	2.0	7.0 (D,J)	NA	33.4 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-62-0.5	Removed	11/15/12	0.5	6.0 (D,J)	25.4 (D)	**200** (D)	NA	0.070	NA	<0.08	<0.117	<0.117	**0.221**	**0.225**	Y
SY-62A-2.0	Remaining	01/17/13	2.0	NA	NA	8.3 (D)	NA	NA	NA	NA	<0.106	<0.106	<0.0848	<0.0848 (SH)	NA
SY-63-0.5	Removed	11/15/12	0.5	**10.4** (D)	**175~** (D)	**3,120** (D)	3.73 (D)	0.326	NA	<0.08	<0.107	<0.107	0.172	0.159 (J)	Y
SY-63A-1.0	Remaining	01/08/13	1.0	5.9 (D,J)	17.6 (D)	11.8 (D)	NA	0.019 (J)	NA	NA	NA	NA	NA	NA	NA
SY-63B-0.5	Removed	01/08/13	0.5	**13.7 (D)**	8.6 (D)	**81.9 (D)**	NA	0.062	NA	NA	NA	NA	NA	NA	NA
SY-63B-1.0	Removed	02/19/13	1.0	**11.1 (D)**	NA	16.6 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-63B-2.0	Remaining	05/01/13	2.0	3.3 (D,J)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-63C-0.5	Remaining	02/19/13	0.5	5.9 (D,J)	NA	15.0 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-63D-0.5	Remaining	02/19/13	0.5	9.5 (D)	NA	19.5 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-63E-0.5	Remaining	02/19/13	0.5	4.8 (D,J)	NA	17.3 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-64-0.5	Removed	11/15/12	0.5	**20.0** (D)	13.5 (D)	**462** (D)	NA	0.404	NA	<0.08	<0.114	<0.114	0.152 (J)	0.111 (J)	Y
SY-64A-2.0	Remaining	01/17/13	2.0	4.5 (D,J)	NA	15.5 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-65-0.5	Removed	11/15/12	0.5	5.2 (D,J)	7.6 (D)	**449** (D)	NA	0.071	NA	0.10 (J)	<0.106	<0.106	<0.0849	<0.0849	N

Sample ID	Status	Date Sampled	Depth (feet bgs)	Arsenic (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	TCLP Lead (mg/l)	Mercury (mg/kg)	Benzene (mg/kg)	2,4-DNT (mg/kg)	PCB-1254 (mg/kg)	PCB-1254 [C] (mg/kg)	PCB-1260 (mg/kg)	PCB-1260 [C] (mg/kg)	PAHs
SY-65A-0.5	Removed	12/17/12	0.5	**31.0 (D)**	13.6 (D)	**90.8 (D)**	NA	0.108	NA	NA	NA	NA	NA	NA	NA
SY-65A-1.0	Remaining	12/17/12	1.0	3.7 (D,J)	13.0 (D)	8.9 (D)	NA	0.014 (J)	NA	NA	NA	NA	NA	NA	NA
SY-65AA-1.0	Remaining	02/19/13	1.0	4.6 (D,J)	NA	8.9 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-65B-0.5	Removed	02/19/13	0.5	5.1 (D,J)	NA	**404 (D)**	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-65C-0.5	Remaining	02/19/13	0.5	5.8 (D,J)	NA	25.8 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-65D-0.5	Removed	02/19/13	0.5	**240 (D)**	NA	**340 (D)**	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-65D-0.5T	Removed	03/27/13	0.5	^^	NA	NA	**11.4 (B,D)**	NA	NA	NA	NA	NA	NA	NA	NA
SY-65D-0.5TT	Removed	05/01/13	0.5-2.0	NA	NA	NA	**100 (B,P)**	NA	NA	NA	NA	NA	NA	NA	NA
SY-65D-0.5TTT	Removed	05/15/13	0.5-2.0	NA	NA	NA	**12.0**	NA	NA	NA	NA	NA	NA	NA	NA
SY-65D-0.5T4	Removed	05/22/13	0.5-2.0	NA	NA	NA	0.015	NA	NA	NA	NA	NA	NA	NA	NA
SY-65E-1.0	Removed	05/01/13	1.0	NA	NA	**276 (D)**	NA	NA	NA	NA	<0.0118	<0.0118	<0.0942	<0.0942	NA
SY-65F-1.0	Removed	05/01/13	1.0	NA	NA	**193 (D)**	NA	NA	NA	NA	<0.107	<0.107	0.222 (SL)	**0.265**	NA
SY-65G-1.0	Remaining	05/01/13	1.0	NA	NA	17.7 (D)	NA	NA	NA	NA	<0.110	<0.110	0.0934 (J)	0.0911 (J)	NA
SY-65H-1.0	Remaining	05/01/13	1.0	NA	NA	174 (D)	NA	NA	NA	NA	<0.110	<0.110	<0.0879 (SL)	<0.0879	NA
SY-65I-1.0	Remaining	05/01/13	1.0	NA	NA	15.6 (D)	NA	NA	NA	NA	<0.128	<0.128	<0.102 (SL)	<0.102	NA
SY-65J-2.0	Remaining	05/01/13	2.0	NA	NA	15.5 (D)	NA	NA	NA	NA	<0.123	<0.123	<0.0980 (SL)	<0.0980 (SL)	NA
SY-65K-2.0	Remaining	05/01/13	2.0	NA	NA	11.7 (D)	NA	NA	NA	NA	<0.118	<0.118	<0.0941 (SL)	<0.0941 (SL)	NA
SY-65L-2.0	Remaining	05/01/13	2.0	NA	NA	13.8 (D)	NA	NA	NA	NA	<0.114	<0.114	<0.0915	<0.0915	NA
SY-65M-1.0	Remaining	05/01/13	1.0	NA	NA	15.1 (D)	NA	NA	NA	NA	<0.121	<0.121	<0.0966	<0.0966 (SL)	NA
SY-65N-1.0-1.5T	Remaining	05/14/13	1.0-1.5	NA	NA	NA	0.22	NA	NA	NA	NA	NA	NA	NA	NA
SY-65O-1.0	Remaining	05/14/13	1.0	NA	NA	4.9 (D,J)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-65P-1.0	Remaining	05/14/13	1.0	NA	NA	11.0 (D)	NA	NA	NA	NA	<0.113	<0.113	<0.0902	<0.0902	NA
SY-65Q-2.0	Removed	05/22/13	2.0	NA	NA	**1490**	NA	NA	NA	NA	<0.113	<0.113	<0.0902	<0.0902	NA
SY-65Q-2.0T	Removed	06/10/13	2.0-4.0	NA	NA	NA	**5.63 (B,D)**	NA	NA	NA	NA	NA	NA	NA	NA
SY-65R-4.0	Remaining	06/11/13	4.0	NA	NA	9.1 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-66-0.5	Remaining	11/15/12	0.5	<2.1 (D)	6.4 (D)	95.7 (D)	NA	0.088	NA	<0.07	<0.105	<0.105	<0.0836	<0.0836	N
SY-67-0.5	Removed	11/15/12	0.5	**13.1** (D)	14.5 (D)	**490** (D)	NA	0.300	NA	<0.07	<0.104	<0.104	0.159 (J)	0.171	Y
SY-67A-1.0	Remaining	01/08/13	1.0	6.8 (D,J)	13.8 (D)	13.6 (D)	NA	0.021 (J)	NA	NA	NA	NA	NA	NA	NA
SY-67B-0.5	Remaining	01/08/13	0.5	2.3 (D,J)	7.2 (D)	6.8 (D)	NA	<0.009	NA	NA	NA	NA	NA	NA	NA
SY-67C-0.5	Remaining	02/19/13	0.5	2.4 (D,J)	NA	12.2 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-67D-0.5	Remaining	02/19/13	0.5	2.4 (D,J)	NA	8.6 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-68-0.5	Removed	11/15/12	0.5	**11.4** (D)	**565**~ (D)	**571** (D)	0.14 (D)	0.208	NA	<0.09	<0.129	<0.129	<0.103	0.104 (C,J)	Y
SY-68A-1.0	Remaining	01/08/13	1.0	6.4 (D,J)	18.4 (D)	15.8 (D)	NA	0.023 (J)	NA	NA	NA	NA	NA	NA	NA
SY-68B-0.5	Removed	01/08/13	0.5	**46.9 (D)**	11.5 (D)	36.0 (D)	NA	0.092	NA	NA	NA	NA	NA	NA	NA
SY-68C-0.5	Remaining	02/20/13	0.5	5.1 (D,J)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-68D-0.5	Remaining	02/20/13	0.5	<2.0 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-03A-1.0	Remaining	11/15/12	1.0	5.6 (D,J)	19.6 (D)	19.6 (D)	NA	0.025 (J)	NA	<0.09	<0.126	<0.126	<0.101	<0.101	N
SY-03A-06-1.0	Removed	11/15/12	1.0	**13.9** (D)	23.1 (D)	**162** (D)	NA	0.063	NA	<0.08	<0.121	<0.121	**1.14**	**1.05**	N
SY-03A-06-2.5	Remaining	12/13/12	2.5	2.6 (D,T)	9.9 (D)	4.3 (D,J)	NA	0.017 (J)	NA	NA	<0.112	<0.112	<0.0896	<0.0896	NA
SY-03B-06-1.0	Remaining	12/13/12	1.0	7.5 (D)	16.4 (D)	10.6 (D)	NA	0.020 (J)	NA	NA	<0.116	<0.116	<0.0.0930	<0.0930	NA
SY-03-12A-1.0	Remaining	11/19/12	1.0	3.3 (D,J)	9.2 (D)	8.0 (D)	NA	0.015 (J)	NA	<0.08	<0.118	<0.118	<0.0945	<0.0945	N
Cleanup Objective†				10	35.5	50/250*	5.0	10	1.1	1.6	0.22	0.22	0.22	0.22	_

bgs - Below ground surface
mg/kg - Milligrams per kilogram
mg/l - Milligrams per liter
Bold text identifies Cleanup Objective exceedance.
Italicized text and shaded cell identifies previously reported result.
DNT - Dinitrotoluene
PAH - Polynuclear Aromatic Hydrocarbons
PCB - Polychlorinated Biphenyl
NA - Not analyzed
B - Analyte was detected in associated Method Blank.
C - Confirmatory analysis did not confirm the presence of the analyte.
D - Elevated Limit of Detection (LOD) and Limit of Quantitation (LOQ) are due to dilution/volume of the sample.
J - Analytical result is between the LOD and LOQ.
MH - Matrix Spike and/or Matrix Spike Duplicate recovery exceeded the upper control limit.
ML - Matrix spike and/or matrix spike duplicate was below the lower control limit.

R - Relative percent difference for the matrix spike/matrix spike duplicate exceeded the upper control limit.
SH - Surrogate recovery exceeded the upper control limit. Analytical results for the parameter should be considered estimates.
SL - Surrogate recovery was below the lower control limit. Analytical results for the parameter should be considered estimates.
VSE - Less than 8.0 grams of soil collected for volatile organic compound (VOC) extraction.
TCLP - Toxicity Characteristic Leaching Procedure
* When lead is the only contaminant of concern.
^ TCLP mercury analysis reported no detection (<0.0001 mg/l).
^^ - TCLP arsenic analysis reported no detection (<0.04 (D)) mg/l.
~ - TCLP chromium analysis reported no detection (<0.02 mg/l (D)).
Y - detected
Y - detected at elevated concentrations
N - not detected
- Pentachlorophenol (PCP) was detected at 1.4 (SL) mg/kg, which is above the USEPA RSL of 0.89 mg/kg.
† - See Table 1

Table A.3.b

Post-Remedial Soil Analytical Table - Corporation Yard

Parcel R3 - Wisconsin Department of Natural Resources Case Closure Request

Badger Army Ammunition Plant

Sample ID	Status	Date Sampled	Depth (feet bgs)	Arsenic (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)
CYN-1A-1.0	Remaining	11/19/12	1.0	5.9 (D,J)	12.1 (D)	10.8 (D)
CYN-2A-1.0	Remaining	11/19/12	1.0	6.1 (D,J)	19.4 (D)	15.8 (D)
CYN-5A-1.0	Removed	11/19/12	1.0	**22.6** (D)	13.3 (D)	32.3 (D)
CYN-5B-3.0	Remaining	01/10/13	3.0	4.4 (D,J)	NA	NA
CYN-5C-1.0	Remaining	01/10/13	1.0	3.7 (D,J)	NA	NA
CYN-5D-1.0	Remaining	01/14/13	1.0	2.2 (D,J)	NA	NA
CYN-5E-1.0	Remaining	01/14/13	1.0	6.1 (D,J)	NA	NA
CYN-6A-1.0	Remaining	11/19/12	1.0	9.1 (D)	20.4 (D)	14.1 (D)
CYN-7A-1.0	Remaining	11/19/12	1.0	3.6 (D,J)	10.0 (D)	10.7 (D)
CYN-9A-1.0	Removed	11/19/12	1.0	**29.2** (D)	**38.8** (D)	**105** (D)
CYN-9B-2.0	Remaining	01/14/13	2.0	4.6 (D,J)	18.1 (D)	10.9 (D)
CYN-9C-1.0	Remaining	01/14/13	1.0	5.9 (D,J)	11.1 (D)	10.1 (D)
CYN-9D-1.0	Remaining	01/14/13	1.0	4.1 (D,J)	18.3 (D)	13.1 (D)
CYN-9E-1.0	Remaining	01/14/13	1.0	4.3 (D,J)	19.8 (D)	11.6 (D)
CYN-11A-1.0	Removed	11/19/12	0.5	**11.2** (D)	32.4 (D)	17.0 (D)
CYN-11B-3.0	Remaining	01/10/13	3.0	5.2 (D,J)	NA	NA
CYN-11C-1.0	Remaining	01/10/13	1.0	6.2 (D,J)	NA	NA
CYN-11D-1.0	Remaining	01/10/13	1.0	4.2 (D,J)	NA	NA
CYN-11E-1.0	Remaining	01/15/13	1.0	7.9 (D)	NA	NA
CYN-12A-1.0	Remaining	11/19/12	1.0	5.0 (D,J)	18.0 (D)	15.5 (D)
CYN-13A-1.0	Remaining	11/19/12	1.0	9.2 (D)	12.4 (D)	33.9 (D)
CYN-16A-1.0	Removed	11/19/12	1.0	**23.4** (D)	15.2 (D)	32.2 (D)
CYN-16B-2.0	Remaining	01/14/13	2.0	4.3 (D,J)	NA	NA
CYN-16C-1.0	Remaining	01/14/13	1.0	2.6 (D,J)	NA	NA
CYN-16D-1.0	Removed	01/17/13	1.0	**16.4 (D)**	NA	NA
CYN-16E-2.0	Remaining	02/20/13	2.0	5.0 (D,J)	NA	NA
CYN-16F-1.0	Remaining	02/20/13	1.0	4.4 (D,J)	NA	NA
CYN-16G-1.0	Remaining	02/20/13	1.0	3.9 (D,J)	NA	NA
CYN-17-0.5	Removed	11/19/12	0.5	**49.8** (D)	**56.8** (D)	37.7 (D)
CYN-17A-1.0	Remaining	01/15/13	1.0	6.2 (D,J)	18.1 (D)	NA
CYN-17B-0.5	Removed	01/15/13	0.5	**25.4 (D)**	27.0 (D)	NA
CYN-17C-0.5	Removed	01/15/13	0.5	**13.4 (D)**	11.6 (D)	NA
CYN-17D-0.5	Removed	02/21/13	0.5	**16.0 (D)**	NA	NA
CYN-17E-0.5	Remaining	02/21/13	0.5	5.8 (D,J)	NA	NA
CYN-17F-0.5	Remaining	02/21/13	0.5	3.0 (D,J)	NA	NA
CYN-17G-2.0	Remaining	05/01/13	2.0	3.9 (D,J)	NA	NA
CYN-17H-1.0	Removed	05/01/13	1.0	**10.4 (D)**	NA	NA
CYN-17I-1.0	Remaining	05/01/13	1.0	5.1 (D,J)	NA	NA
CYN-17J-1.0	Remaining	05/14/13	1.0	<1.9 (D)	NA	NA
CYN-17K-1.0	Remaining	05/14/13	1.0	3.1 (D,J)	NA	NA
CYN-17L-2.0	Remaining	05/14/13	2.0	5.6 (D,J)	NA	NA
CYN-18-0.5	Removed	11/19/12	0.5	**33.5** (D)	19.7 (D)	18.6 (D)

Sample ID	Status	Date Sampled	Depth (feet bgs)	Arsenic (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)
CYN-18A-1.0	Removed	01/15/13	1.0	**11.9 (D)**	NA	NA
CYN-18A-4.0	Remaining	02/21/13	4.0	7.9 (D)	NA	NA
CYN-18B-1.0	Remaining	02/21/13	1.0	5.1 (D,J)	NA	NA
CYN-18C-1.0	Remaining	02/21/13	1.0	7.1 (D)	NA	NA
CYN-19-0.5	Remaining	11/19/12	0.5	3.4 (D,J)	4.8 (D)	2.7 (D,J)
CYN-20-0.5	Removed	11/19/12	0.5	**20.7** (D)	21.2 (D)	39.0 (D)
CYN-20A-1.0	Remaining	01/14/13	1.0	3.3 (D,J)	NA	NA
CYN-20B-0.5	Remaining	01/14/13	0.5	2.6 (D,J)	NA	NA
CYN-20C-0.5	Remaining	01/14/13	0.5	4.0 (D,J)	NA	NA
CYN-21-0.5	Removed	11/19/12	0.5	**55.8** (D)	28.5 (D)	34.1 (D)
CYN-21A-1.0	Remaining	01/17/13	1.0	6.6 (D,J)	NA	NA
CYN-21B-0.5	Removed	01/17/13	0.5	**11.7 (D)**	NA	NA
CYN-21C-0.5	Remaining	02/20/13	0.5	7.2 (D,J)	NA	NA
CYN-21D-0.5	Remaining	02/21/13	0.5	7.6 (D,J)	NA	NA
CYN-22-0.5	Remaining	11/19/12	0.5	5.3 (D,J)	8.1 (D)	8.3 (D)
CYN-23-0.5	Remaining	11/19/12	0.5	5.1 (D,J)	13.3 (D)	18.3 (D)
CYS-4A-1.0	Remaining	11/13/12	1.0	7.7 (D,J)	22.7 (D,MH)	14.8 (D)
CYS-6A-1.0	Remaining	11/13/12	1.0	9.9 (D)	27.1 (D)	14.4 (D)
CYS-7A-1.0	Removed	11/13/12	1.0	**11.1 (D)**	26.4 (D)	15.0 (D)
CYS-7B-2.0	Remaining	01/09/13	2.0	8.9 (D)	NA	NA
CYS-7C-1.0	Remaining	01/09/13	1.0	7.9 (D,J)	NA	NA
CYS-7D-1.0	Remaining	01/09/13	1.0	5.2 (D,J)	NA	NA
CYS-7E-1.0	Remaining	01/10/13	1.0	7.6 (D)	NA	NA
CYS-9-0.5	Removed	11/13/12	0.5	**29.2 (D)**	9.0 (D)	3.6 (D,J)
CYS-9A-1.0	Remaining	01/08/13	1.0	6.9 (D,J)	18.0 (D)	16.0 (D)
CYS-9B-0.5	Remaining	01/08/13	0.5	4.6 (D,J)	8.4 (D)	38.1 (D)
CYS-9C-0.5	Remaining	01/08/13	0.5	5.7 (D,J)	16.7 (D)	18.6 (D)
CYS-9D-0.5	Remaining	01/09/13	0.5	4.4 (D,J)	8.6 (D)	13.3 (D,ML)
CYS-10-0.5	Remaining	11/13/12	0.5	3.1 (D,J)	9.0 (D)	9.6 (D)
CYS-11-0.5	Remaining	11/13/12	0.5	7.0 (D)	9.0 (D)	20.0 (D)
CYS-12-0.5	Removed	11/13/12	0.5	**13.5 (D)**	8.1 (D)	27.3 (D)
CYS-12A-1.0	Remaining	01/08/13	1.0	4.3 (D,J)	17.4 (D)	13.2 (D)
CYS-12B-0.5	Removed	01/08/13	0.5	**18.9 (D)**	10.4 (D)	30.2 (D)
CYS-12C-0.5	Remaining	01/08/13	0.5	8.6 (D)	8.6 (D)	17.4 (D)
CYS-12D-0.5	Remaining	01/08/13	0.5	8.5 (D)	8.8 (D)	18.0 (D)
CYS-12E-0.5	Remaining	02/20/13	0.5	7.0 (D,J)	NA	NA
CYS-12F-0.5	Remaining	02/20/13	0.5	2.6 (D,J)	NA	NA
Cleanup Objective†				10	35.5	50/250*

bgs - Below ground surface
mg/kg - Milligrams per kilogram
NA - Not analyzed
† - See Table 1
Bold text identifies Cleanup Objective exceedance.
Italicized text cell identifies previously reported result.
D - Elevated Limit of Detection (LOD) and Limit of Quantitation (LOQ) are due to dilution/volume of the sample.
J - Analytical result is between the LOD and LOQ.
MH - Matrix Spike and / or Matrix Spike Duplicate recovery exceeded the upper control limit.
ML - Matrix spike and/or matrix spike duplicate was below the lower control limit.
* When lead is the only contaminant of concern.

Table A.3.c

Post-Remedial Soil Analytical Table - Post-Demolition

Parcel R3 - Wisconsin Department of Natural Resources Case Closure Request

Badger Army Ammunition Plant

Sample ID	Status	Date Sampled	Depth (feet bgs)	Lead (mg/kg)	PCB-1254 (mg/kg)	PCB-1254 [2C] (mg/kg)	PCB-1260 (mg/kg)	PCB-1260 [2C] (mg/kg)
051800-1A-2.0	Removed	07/19/12	2.0	**79.5 (D)**	<0.017 (a)	NA	**0.22**	NA
051800-1B-2.0	Remain	07/19/12	2.0	9.7 (D)	<0.017 (a)	NA	<0.020 (a)	NA
051800-1C-2.0	Remain	07/19/12	2.0	23.4 (D)	<0.019 (a)	NA	0.053 (a, J)	NA
051800-1D-4.0	Remain	07/19/12	4.0	32.1 (D)	<0.018 (a)	NA	0.11 (a)	NA
024101-10A-2.0	Remain	07/19/12	2.0	NA	<0.017 (a)	NA	<0.020 (a)	NA
024101-10B-2.0	Remain	07/19/12	2.0	NA	<0.017 (a)	NA	<0.021 (a)	NA
024101-10C-2.0	Remain	07/19/12	2.0	NA	<0.063 (a)	NA	<0.021 (a)	NA
024101-10D-4.0	Remain	07/19/12	4.0	NA	<0.022 (a)	NA	<0.026 (a)	NA
051800-1A1-2.0	Removed	08/16/12	2.0	**110 (D)**	0.216 (J)	0.197 (J)	<0.117	<0.117
052101-7A-0.5	Removed	08/23/12	0.5	NA	<0.102	<0.102	<0.102	<0.102
052101-7B-0.5	Removed	08/23/12	0.5	NA	<0.102	<0.102	<0.102	0.130 (J, C)
052101-7C-0.5	Removed	08/23/12	0.5	NA	<0.101	<0.101	**1.75**	**1.68**
052101-7D-4.0	Remain	08/23/12	4.0	NA	<0.123	<0.123	<0.123	<0.123
052101-7C1-2.0	Remain	09/13/12	2.0	NA	<0.123	<0.123	<0.123	<0.123
Cleanup Objective†				50/250*	0.22	0.22	0.22	0.22

bgs - Below ground surface
mg/kg - Milligrams per kilogram
Bold text identifies Cleanup Objective exceedance.
Italicized text identifies previously reported result.
PCB - Polychlorinated Biphenyl
NA - Not analyzed
C - Confirmatory analysis did not confirm the presence of the analyte.
CL - Calibration Verification Standard recovery was below the lower control limit.
B - Analyte was detected in associated Method Blank.
D - Elevated Limit of Detection (LOD) and Limit of Quantitation (LOQ) are due to dilution/volume of the sample.
J - Analytical result is between the LOD and LOQ.
a - Analysis completed by a subcontract laboratory.
* When lead is the only contaminant of concern.
† - See Table 1

Data Tables Not Relevant To Case Closure Request

A.4. Pre and Post Remaining Soil Contamination Soil Analytical Table

Analytical results indicate that no soil remains in concentrations that exceed the remediation goals.

Data Tables Not Relevant To Case Closure Request

A.5. Vapor Analytical Table

Vapor pathway was not assessed due to localized, low contaminant concentrations, human occupancy greater than 2,500 feet from residual contaminant location, and absence of structures/basements within property.

Data Tables Not Relevant To Case Closure Request

A.6. Other Media of Concern

No surface water is present at or adjacent to property.

Data Tables Not Relevant To Case Closure Request

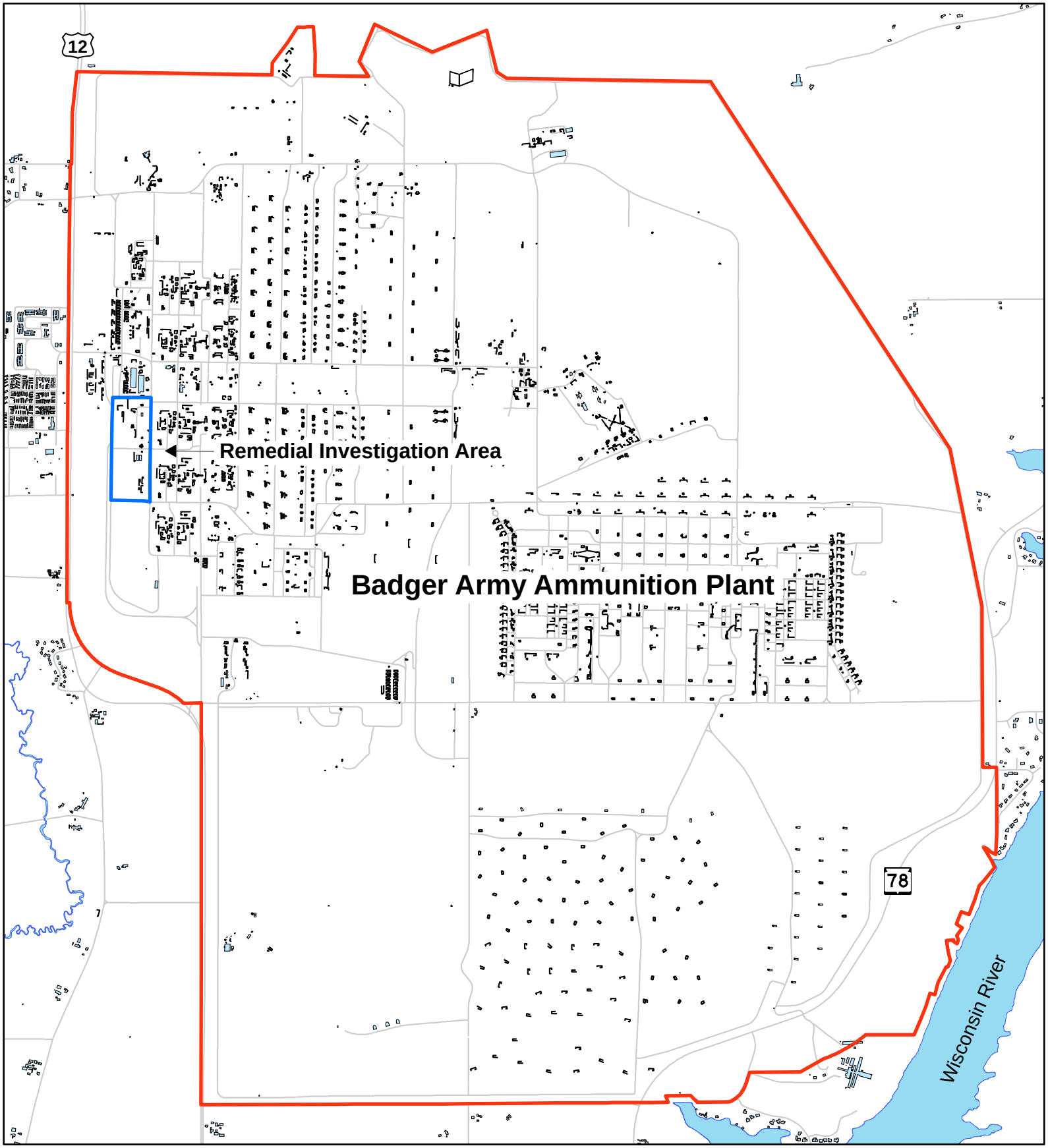
A.7. Water Level Elevations

No groundwater monitoring wells exist within the Parcel R3 boundary.

Data Tables Not Relevant To Case Closure Request

A.8. Other

No other remedial actions beyond the above ground and underground storage tank removals and limited soil excavations have taken place on this parcel. Long term groundwater monitoring will continue for the entire site. There is currently no natural attenuation data being collected, and no additional remediation is anticipated.



Legend

- Badger Army Ammunition Plant Boundary
- Remedial Investigation Area
- Paved Road
- Existing Building Footprint
- Former Building Footprint

Figure B.1.a

Site Location Map
Parcel R3 - Wisconsin Department of Natural Resources Case Closure Request
Badger Army Ammunition Plant

1 inch = 2,500 feet

0 3,500 7,000 Feet

BTS BADGER TECHNICAL SERVICES

N

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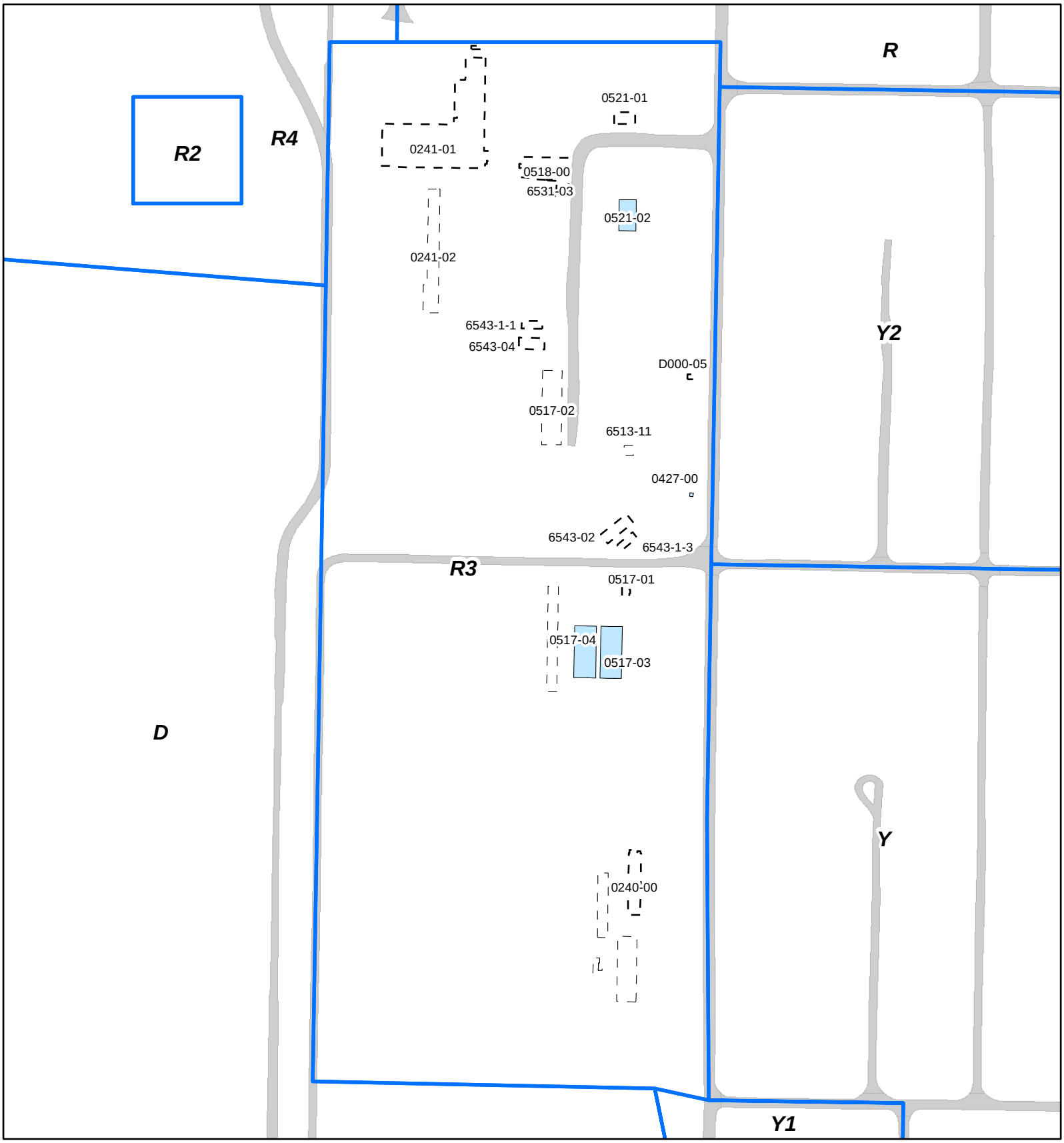

Figure B.1.b.

Detailed Site Map
Parcel R3 - Wisconsin Department of
Natural Resources Case Closure Request
Badger Army Ammunition Plant

Legend

- Parcel Boundary
- Paved Road
- Former Building Footprint
- Existing Building Footprint
- 241-1 Account #

1 inch = 250 feet

0 250 500 Feet

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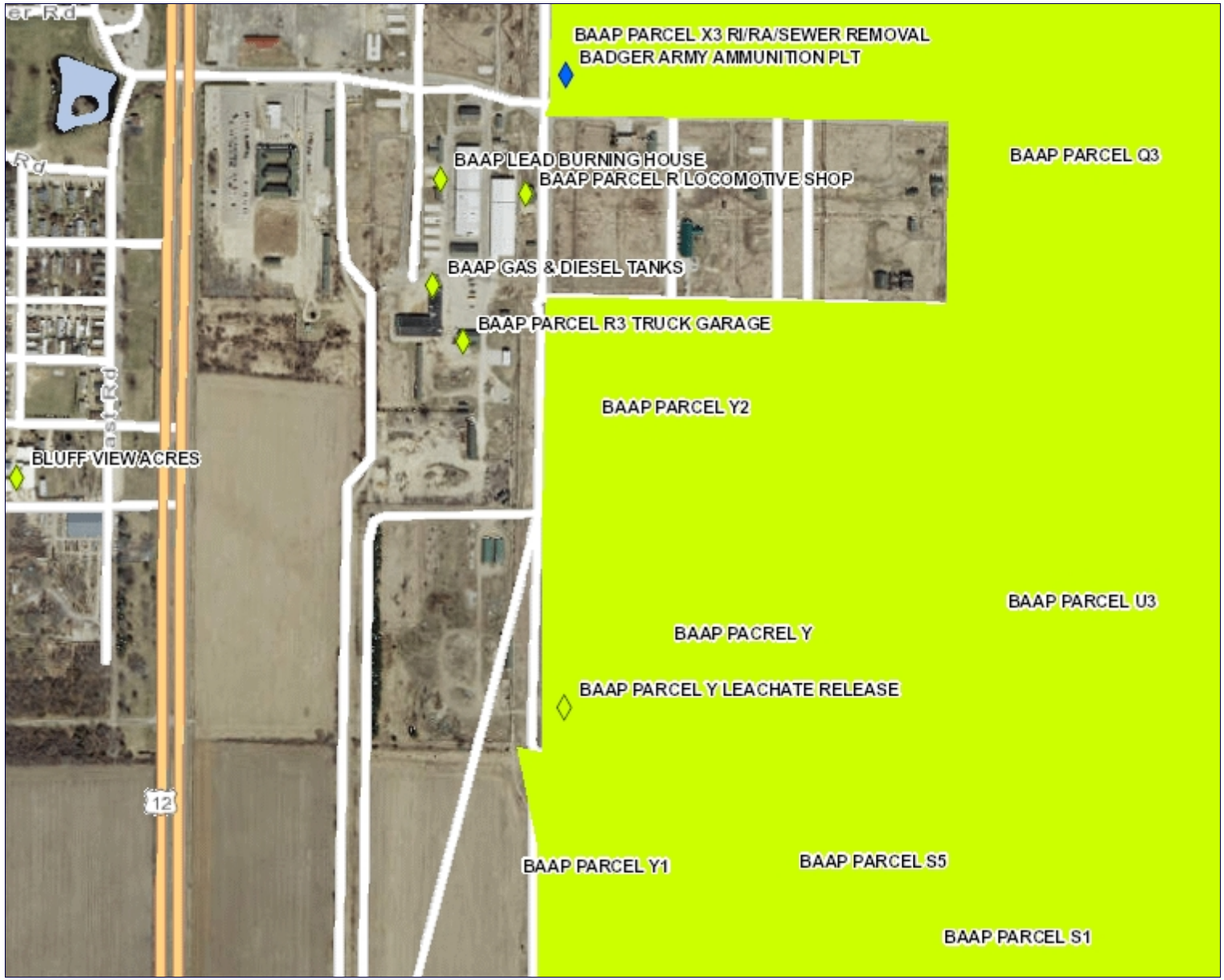
R3\Figure B1b Detailed Site Map.mxd

Figure B.1.c.
RR Site Map



Legend

- Open Site (ongoing cleanup)
- Open Site Boundary
- Closed Site (completed cleanup)
- Closed Site Boundary
- Airport
- 2010 Air Photos (WROC)
- Cities
- Villages

0.3 0 0.13 0.3 Miles

NAD_1983_HARN_Wisconsin_TM

1: 8,039

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Note: Not all sites are mapped.

Notes

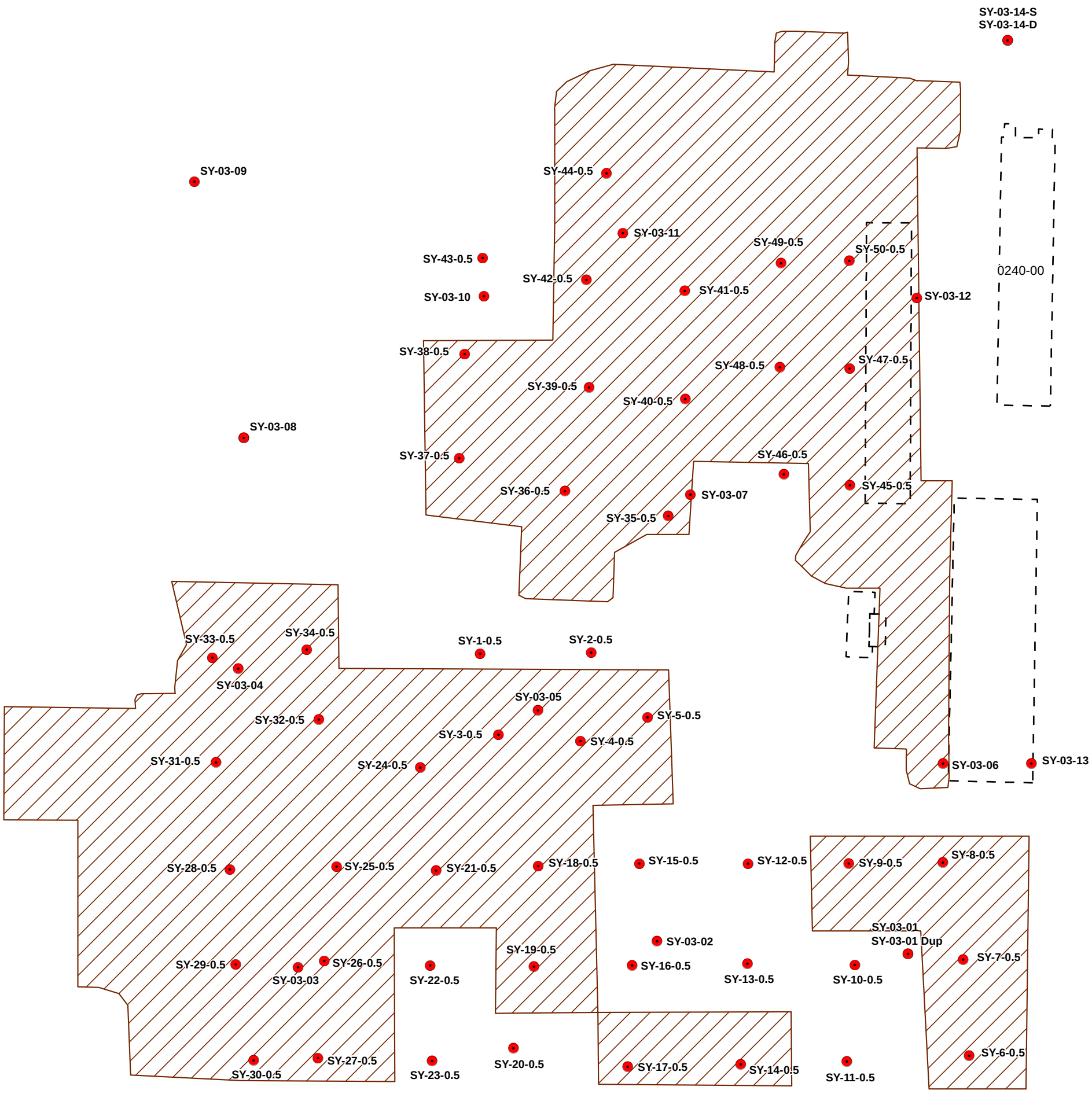

Figure B.2.a.1.

Legend

- Remedial Investigation Sample Location
- Remedial Excavation Boundary
- Former Building Footprint
- 0240-00 Account #

Salvage Yard Pre-Remedial
Soil Contamination Sample Location Map
Parcel R3 - Wisconsin Department of
Natural Resources Case Closure Request
Badger Army Ammunition Plant

1 inch = 50 feet

0 30 60 120 Feet

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R3\Figure B2a1 Salvage Yard Pre-Remedial.mxd

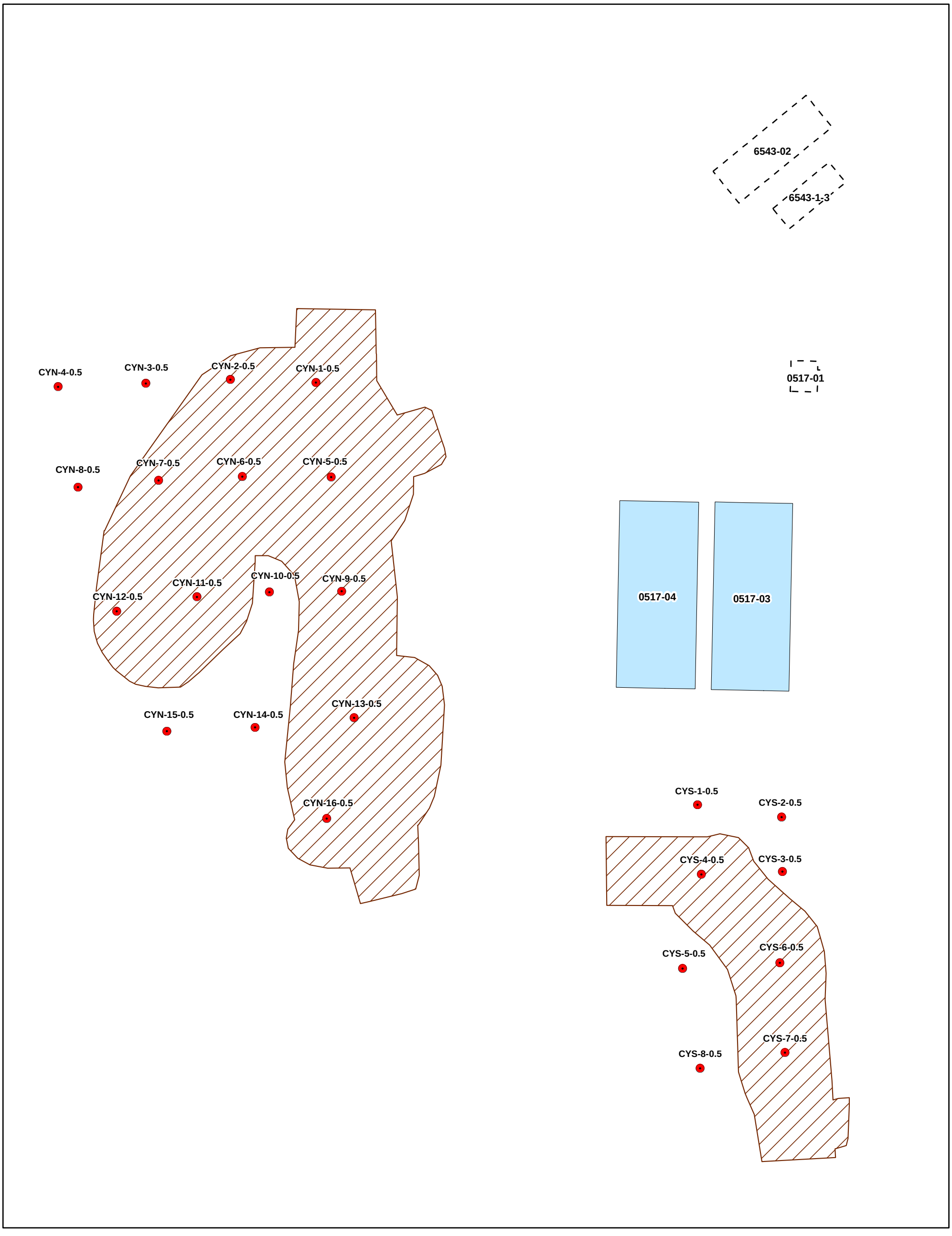

Figure B.2.a.2.

Legend

- Remedial Investigation Sample Location
- Remedial Excavation Boundary
- Existing Building Footprint
- Former Building Footprint
- 0240-00 Account #

Corporation Yard Pre-Remedial
Soil Contamination Sample Location Map
Parcel R3 - Wisconsin Department of
Natural Resources Case Closure Request
Badger Army Ammunition Plant

1 inch = 50 feet

0 50 100 Feet

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R3\Figure B2a2 Corporation Yard Pre-Remedial.mxd

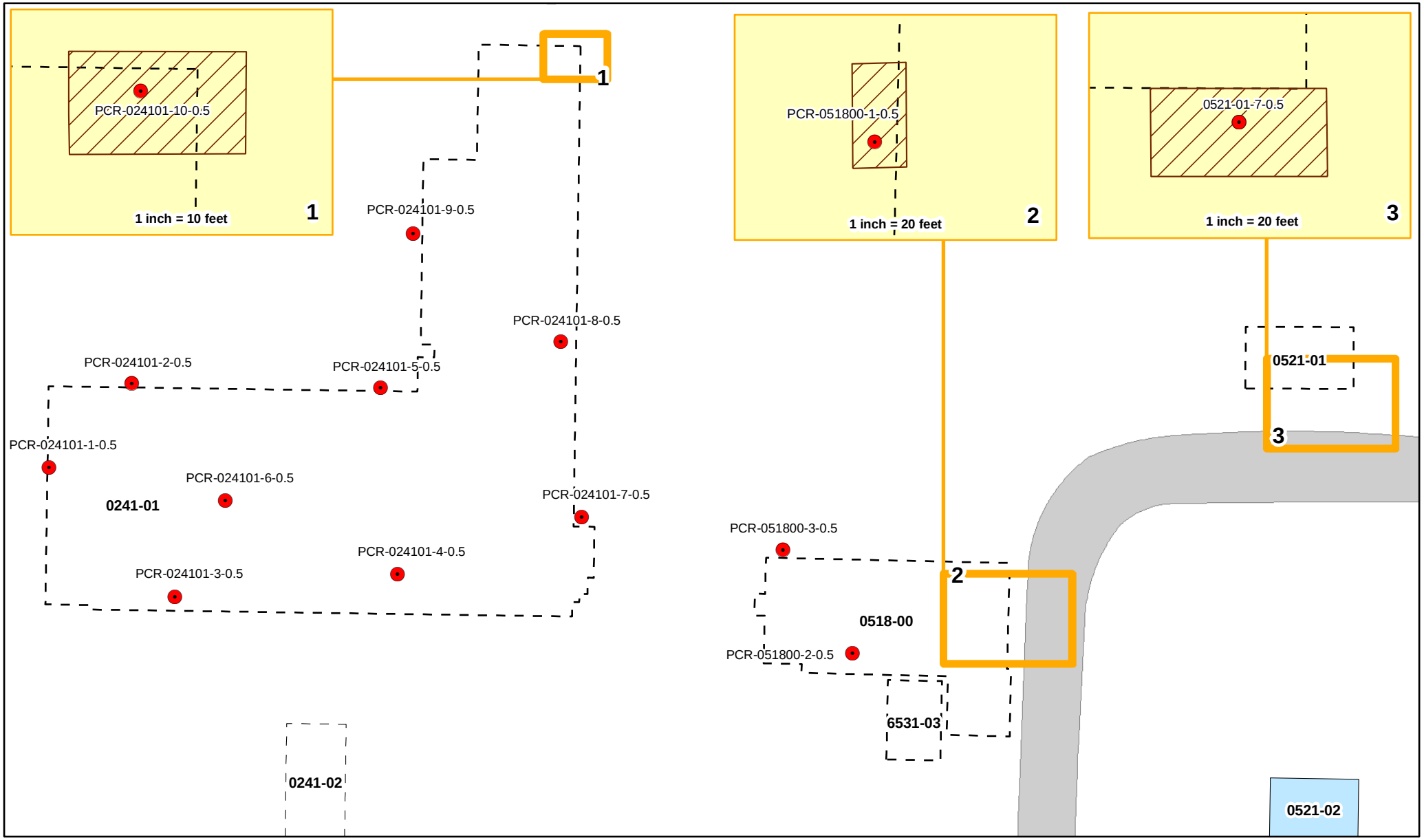

Figure B.2.a.3.

Post-Demolition Pre-Remedial
Soil Contamination Sample Location Map
Parcel R3 - Wisconsin Department of
Natural Resources Case Closure Request
Badger Army Ammunition Plant

Legend

- Remedial Investigation Sample Location
- Remedial Excavation Boundary
- Former Building Footprint
- Existing Building Footprint
- 241-1 Account #

1 inch = 50 feet

0 50 100 Feet

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R3\Figure B2a3 Post-Demo Pre-Remedial.mxd

Table A.3.a

Post-Remedial Soil Analytical Table - Salvage Yard

Parcel R3 - Wisconsin Department of Natural Resources Case Closure Request

Badger Army Ammunition Plant

Sample ID	Status	Date Sampled	Depth (feet bgs)	Arsenic (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	TCLP Lead (mg/l)	Mercury (mg/kg)	Benzene (mg/kg)	2,4-DNT (mg/kg)	PCB-1254 (mg/kg)	PCB-1254 [C] (mg/kg)	PCB-1260 (mg/kg)	PCB-1260 [C] (mg/kg)	PAHs
SY-3A-1.0	Remaining	11/14/12	1.0	4.7 (D,J)	13.1 (D)	7.4 (D)	NA	0.018 (J)	NA	<0.07	<0.106	<0.106	<0.0845	<0.0845	N
SY-4A-1.0	Remaining	11/14/12	1.0	8.5 (D)	22.6 (D)	13.1 (D)	NA	0.029 (J)	NA	<0.08	<0.121	<0.121	<0.0971	<0.0971	N
SY-5A-1.0	Remaining	11/14/12	1.0	5.6 (D,J)	17.8 (D)	27.5 (D)	NA	0.036	NA	<0.08	<0.116	<0.116	<0.093	<0.093	N
SY-6A-1.0	Removed	11/13/12	1.0	9.5 (D)	16.5 (D)	**454 (D)**	NA	0.112	NA	<0.08	<0.113	<0.113	<0.0902	0.119 (C,J,SH)	Y
SY-6A-3.0	Remaining	12/13/12	3.0	<2.2 (D)	6.7 (D)	31.2 (D,ML)	NA	0.011 (J)	NA	NA	NA	NA	NA	NA	NA
SY-6B-1.5	Remaining	12/13/12	1.5	4.8 (D,J)	14.3 (D)	23.6 (D)	NA	0.023 (J)	NA	NA	NA	NA	NA	NA	NA
SY-6C-1.5	Remaining	12/13/12	1.5	<2.1 (D)	5.9 (D)	3.5 (D,J)	NA	<0.011	NA	NA	NA	NA	NA	NA	NA
SY-7A-1.0	Remaining	11/13/12	1.0	<2.2 (D)	6.0 (D)	5.7 (D,J)	NA	<0.011	NA	<0.08	<0.108	<0.108	<0.0864	<0.0864	N
SY-8A-1.0	Remaining	11/13/12	1.0	3.3 (D,J)	10.1 (D)	17.0 (D)	NA	0.022 (J)	NA	<0.08	<0.111	<0.111	<0.0890	<0.0890	N
SY-9A-1.0	Remaining	11/13/12	1.0	2.2 (D,J)	6.1 (D)	6.9 (D)	NA	<0.011 (J)	NA	<0.08	<0.112	<0.112	<0.0899	<0.0899	N
SY-14-0.5	*Removed*	*11/13/12*	*0.5*	*7.9 (D)*	*16.1 (D)*	***138** (D)*	*0.06 (D)*	*0.065*	*<0.087 (VSE)*	*<0.08 (SL)*	*<0.121*	*<0.121*	*0.157 (J)*	***0.221** (SH)*	*Y*
SY-14A-1.0	Remaining	10/17/12	1.0	2.3 (D,J)	7.0 (D)	3.4 (D,J)	NA	<0.011	NA	<0.08	<0.110	<0.110	<0.0878	<0.0878	N
SY-17A-1.0	Remaining	11/13/12	1.0	4.1 (D,J)	11.4 (D)	6.5 (D,J)	NA	<0.012 (J)	NA	<0.08	<0.112	<0.112	<0.0898	<0.0898	N
SY-18A-1.0	Remaining	11/13/12	1.0	2.1 (D,J)	6.6 (D)	3.6 (D,J)	NA	<0.011	NA	<0.07	<0.106	<0.106	<0.0898	<0.0898	N
SY-19A-1.0	Remaining	11/13/12	1.0	3.7 (D,J)	10.3 (D)	6.5 (J,D)	NA	<0.013 (J)	NA	<0.08	<0.108	<0.108	<0.0861	<0.0861	N
SY-21A-1.0	Removed	11/13/12	1.0	**11.8 (D)**	21.9 (D)	13.6 (D)	NA	0.032 (J)	NA	<0.09	<0.125	<0.125	<0.0998	<0.0998	N
SY-21A-2.0	Remaining	12/17/12	2.0	4.3 (D,J)	12.2 (D)	16.0 (D)	NA	0.027 (J)	NA	NA	NA	NA	NA	NA	NA
SY-24A-1.0	Remaining	11/14/12	1.0	7.0 (D)	20.4 (D)	13.7 (D)	NA	0.030 (J)	NA	<0.08	<0.121	<0.121	<0.0965	<0.0965	N
SY-25A-1.0	Remaining	11/14/12	1.0	5.1 (D,J)	16.2 (D)	12.4 (D)	NA	0.024 (J)	NA	<0.09	<0.124	<0.124	<0.0989	<0.0989	N
SY-26T-0.5	Removed	11/15/12	0.5	NA	NA	NA	**15.4** (D)	<0.0001^	NA	NA	NA	NA	NA	NA	NA
SY-26TT-0.5	Removed	12/19/12	0.5	NA	NA	NA	0.76 (D)	NA	NA	NA	NA	NA	NA	NA	NA
SY-26-1.0	Remaining	02/14/13	1.0	6.9 (D,J)	19.9 (D,MH)	14.8 (D)	NA	0.023 (J)	NA	NA	<0.125	<0.125	<0.100 (SL)	<0.100	NA
SY-27A-1.0	Remaining	11/14/12	1.0	7.0 (D,J)	20.5 (D)	13.7 (D)	NA	0.022 (J)	NA	<0.09	<0.127	<0.127	<0.102	<0.102	N
SY-28A-1.0	Remaining	11/14/12	1.0	4.8 (D,J)	16.1 (D)	11.4 (D)	NA	0.019 (J)	NA	<0.09	<0.122	<0.122	<0.0974	<0.0974	N
SY-29T-0.5	Removed	11/15/12	0.5	NA	NA	NA	**5.3** (D)	NA	NA	NA	NA	NA	NA	NA	NA
SY-29TT-0.5	Removed	12/19/12	0.5	NA	NA	NA	0.36 (D)	NA	NA	NA	NA	NA	NA	NA	NA
SY-29-1.0	Remaining	02/14/13	1.0	7.9 (D)	19.4 (D)	250 (D)	NA	0.079	<0.073	NA	NA	NA	NA	NA	NA
SY-30A-1.0	Remaining	11/14/12	1.0	6.2 (D,J)	17.4 (D)	15.0 (D)	NA	0.023 (J)	NA	<0.09	<0.125	<0.125	<0.0997	<0.0997	N
SY-31A-1.0	Removed	11/14/12	1.0	6.7 (D)	19.3 (D)	**62.7** (D)	NA	0.025 (J)	NA	<0.08	<0.115	<0.115	**0.314**	**0.275**	Y
SY-31A-2.0	Remaining	12/13/12	2.0	3.1 (D,J)	14.6 (D)	19.3 (D)	NA	0.023 (J)	NA	NA	<0.106	<0.106	<0.0845	<0.0845	N
SY-31B-1.0	Remaining	12/13/12	1.0	5.5 (D,J)	25.8 (D)	40.4 (D)	NA	0.030 (J)	NA	NA	<0.122	<0.122	<0.0972	<0.0972	N
SY-32A-1.0	Remaining	11/14/12	1.0	6.5 (D,J)	16.3 (D)	14.6 (D)	NA	0.024 (J)	NA	<0.08	<0.119	<0.119	<0.0953	<0.0953	N
SY-33A-1.0	Remaining	11/14/12	1.0	7.5 (D)	21.1 (D)	15.8 (D)	NA	0.028	NA	<0.08	<0.118	<0.118	<0.0942	<0.0942	N
SY-34T-0.5	Removed	11/15/12	0.5	NA	NA	NA	2.82 (D)	NA	NA	NA	NA	NA	NA	NA	NA
SY-34A-1.0	Remaining	12/06/12	1.0	9.2 (D)	25.4 (D)	18.3 (D)	NA	0.031 (J)	NA	<0.09	<0.124	<0.124	<0.0988	<0.0988	N
SY-35T-0.5	Removed	11/15/12	0.5	NA	NA	NA	0.78 (D)	NA	NA	NA	NA	NA	NA	NA	NA
SY-35A-1.0	Remaining	12/06/12	1.0	9.0 (D)	18.0 (D,MH)	30.9 (D)	NA	0.041	NA	NA	NA	NA	NA	NA	NA
SY-36A-1.0	Remaining	11/14/12	1.0	4.9 (D,J)	16.5 (D)	14.4 (D)	NA	0.030	NA	<0.08	<0.120	<0.120	<0.0958	<0.0958	N
SY-37A-1.0	Remaining	11/14/12	1.0	5.8 (D,J)	18.6 (D)	11.8 (D)	NA	0.028	NA	<0.08	<0.116	<0.116	<0.0930	<0.0930	N
SY-38A-1.0	Remaining	11/14/12	1.0	7.4 (D,J)	21.2 (D)	15.9 (D)	NA	0.032	NA	<0.08	<0.117	<0.117	<0.0935	<0.0935	N
SY-39A-1.0	Remaining	11/14/12	1.0	4.9 (D,J)	14.2 (D)	9.6 (D)	NA	0.021 (J)	NA	<0.08	<0.119	<0.119	<0.0954	<0.0954	N
SY-40A-1.0	Remaining	11/14/12	1.0	4.2 (D,J)	18.2 (D)	18.8 (D)	NA	0.035 (J)	NA	<0.09	<0.133	<0.133	<0.106	<0.106	N
SY-41A-1.0	Remaining	11/15/12	1.0	4.3 (D,J)	10.1 (D)	26.2 (D,ML)	NA	0.019 (J)	NA	<0.08	<0.111	<0.111	<0.0887	<0.0887	N
SY-44A-1.0	Remaining	11/15/12	1.0	7.6 (D,J)	23.4 (D)	21.3 (D)	NA	0.033 (J)	NA	<0.08	<0.121	<0.121	<0.0971	<0.0971	N
SY-45A-1.0	Removed	11/15/12	1.0	6.6 (D,J)	16.1 (D)	**155** (D)	NA	0.091	NA	<0.08	<0.587 (D)	<0.587 (D)	**3.83** (D,SL)	**3.30** (D)	N
SY-45A-2.0	Remaining	12/17/12	2.0	4.3 (D, J)	11.7 (D)	10.9 (D)	NA	<0.012	NA	<0.08	<0.119	<0.119	<0.0954	<0.0954	N
SY-47A-1.0	Remaining	11/15/12	1.0	5.2 (D,J)	17.2 (D)	21.8 (D)	NA	0.020 (J)	NA	<0.08	<0.121	<0.121	<0.0971	<0.0971	N
SY-48A-1.0	Remaining	11/15/12	1.0	6.5 (D,J)	18.8 (D)	23.2 (D)	NA	0.029 (J)	NA	<0.09	<0.122	<0.122	<0.0973	<0.0973	Y

Sample ID	Status	Date Sampled	Depth (feet bgs)	Arsenic (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	TCLP Lead (mg/l)	Mercury (mg/kg)	Benzene (mg/kg)	2,4-DNT (mg/kg)	PCB-1254 (mg/kg)	PCB-1254 [C] (mg/kg)	PCB-1260 (mg/kg)	PCB-1260 [C] (mg/kg)	PAHs
SY-49A-1.0	Remaining	11/15/12	1.0	4.9 (D,J)	18.8 (D)	14.5 (D)	NA	0.028 (J)	NA	<0.09	<0.130	<0.130	<0.104	<0.104	N
SY-51-0.5	Removed	11/14/12	0.5	**10.7** (D)	**41.5** (D)	**260** (D)	NA	3.121^ (D)	NA	<0.08	<0.113	<0.113	<0.0908	0.102 (C,J)	N
SY-51A-1.0	Remaining	12/13/12	1.0	8.7 (D)	22.6 (D)	78.0 (D)	NA	0.039	NA	NA	NA	NA	NA	NA	NA
SY-51B-0.5	Removed	12/13/12	0.5	**33.6 (D)**	**48.7 (D)**	**1,830 (D)**	0.57 (D)	0.370	NA	NA	NA	NA	NA	NA	NA
SY-51C-1.0	Remaining	05/01/13	1.0	9.6 (D)	16.8 (D)	76.4 (D)	NA	NA	NA	NA	<0.123	<0.123	<0.0985 (SL)	<0.0985	NA
SY-51D-1.0	Remaining	05/01/13	1.0	2.3 (D,J)	6.5 (D)	3.8 (D,J)	NA	NA	NA	NA	<0.110	<0.110	<0.0881 (SL)	<0.0881	NA
SY-51E-2.0	Remaining	05/01/13	2.0	8.5 (D)	26.7 (D)	16.8 (D)	NA	NA	NA	NA	<0.127	<0.127	<0.102	<0.102	NA
SY-52-0.5	Removed	11/14/12	0.5	**31.2** (D)	**42.7** (D)	**1,460** (D)	0.46 (D)	0.050	NA	<0.08	<0.120	<0.120	<0.0959	<0.0959	**Y**
SY-52A-1.0	Remaining	12/13/12	1.0	6.6 (D,J)	19.5 (D)	43.0 (D)	NA	0.093	NA	NA	NA	NA	NA	NA	NA
SY-52B-0.5	Removed	12/13/12	0.5	**27.7 (D)**	**13,000 (D)**	**1,920 (D)**	**32.3 (D)**	0.093	NA	NA	NA	NA	NA	NA	NA
SY-52B-0.5TT	Removed	05/01/13	0.5	NA	NA	NA	0.30 (B,D)	NA	NA	NA	NA	NA	NA	NA	NA
SY-52B-2.0	Remaining	05/14/13	2.0	8.1 (D)	24.4 (D)	19.6 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-52C-1.0	Remaining	05/01/13	1.0	6.7 (D,J)	19.8 (D)	151 (D)	NA	NA	NA	NA	<0.125	<0.125	<0.0996	0.100 (C,J)	NA
SY-52D-2.0	Remaining	05/01/13	2,0	5.5 (D,J)	16.2 (D)	12.9 (D)	NA	NA	NA	NA	<0.123	<0.123	<0.0980 (SL)	<0.0980	NA
SY-52E-1.0T	Remaining	05/14/13	1.0	NA	NA	NA	<0.02	NA	NA	NA	NA	NA	NA	NA	NA
SY-53-0.5	Remaining	11/14/12	0.5	4.6 (D,J)	10.8 (D)	38.9 (D)	NA	0.027 (J)	NA	<0.08	<0.111	<0.111	0.101 (J)	0.154 (J)	N
SY-54-0.5	Removed	11/14/12	0.5	8.0 (D)	19.3 (D)	**146** (D)	NA	0.058 (MH)	NA	0.70	<0.121	<0.121	**0.368**	**0.346**	N
SY-54A-1.0	Remaining	12/13/12	1.0	7.3 (D,J)	23.4 (D)	13.4 (D)	NA	0.032 (J)	NA	NA	<0.119	<0.119	<0.0949	<0.0949	NA
SY-54B-0.5	Removed	12/13/12	0.5	7.4 (D,J)	26.2 (D)	**314 (D)**	NA	0.063	NA	NA	<0.118	<0.118	**0.840**	**0.822**	NA
SY-54B-1.0	Remaining	02/19/13	0.5	NA	NA	23.3 (D)	NA	NA	NA	NA	<0.124	<0.124	<0.0993 (SL)	0.119 (C,J)	NA
SY-54C-0.5	Remaining	02/19/13	0.5	NA	NA	**554 (D)**	NA	NA	NA	NA	<0.119	<0.119	**1.46**	**1.69**	NA
SY-54C-0.5T	Remaining	03/13/13	0.5	^^	NA	NA	0.29 (B,D)	NA	NA	NA	NA	NA	NA	NA	NA
SY-54D-0.5	Remaining	02/19/13	0.5	NA	NA	23.7 (D)	NA	NA	NA	NA	<0.122	<0.122	<0.0978 (SL)	0.133 (C,J)	NA
SY-54E-0.5	Remaining	02/19/13	0.5	NA	NA	17.5 (D)	NA	NA	NA	NA	<0.122	<0.122	<0.0976 (SL)	<0.0976	NA
SY-54F-1.0	Removed	05/01/13	1.0	NA	NA	21.2 (D)	NA	NA	NA	NA	<0.121	<0.121	**0.874**	**0.909**	NA
SY-54G-2.0	Remaining	05/01/13	2.0	NA	NA	24	NA	NA	NA	NA	<0.120	<0.120	<0.0962 (SL)	<0.0962	NA
SY-54H-1.0	Remaining	05/14/13	1.0	NA	NA	NA	NA	NA	NA	NA	<0.121	<0.121	<0.0968	<0.0968	NA
SY-54I-1.0	Remaining	05/14/13	1.0	NA	NA	NA	NA	NA	NA	NA	<0.120	<0.120	<0.0963	<0.0963	NA
SY-54J-2.0	Remaining	05/14/13	2.0	NA	NA	NA	NA	NA	NA	NA	<0.121	<0.121	<0.0967	<0.0967	NA
SY-55-0.5	Remaining	11/14/12	0.5	7.1 (D)	20.8 (D)	12.1 (D)	NA	0.024 (J)	NA	<0.08	<0.120	<0.120	<0.0960	<0.0960	N
SY-56-0.5	Remaining	11/14/12	0.5	5.2 (D,J)	16.2 (D)	12.7 (D)	NA	0.027 (J)	NA	<0.08	<0.120	<0.120	<0.0959	<0.0959	N
SY-57-0.5	Remaining	11/14/12	0.5	4.9 (D,J)	15.5 (D)	12.6 (D)	NA	0.023 (J)	NA	<0.08	<0.115	<0.115	<0.0923	<0.0923	N
SY-58-0.5	Remaining	11/14/12	0.5	9.3 (D)	26.7 (D)	14.3 (D)	NA	0.038	NA	<0.08	<0.121	<0.121	<0.0968	<0.0968	N
SY-59-0.5	Remaining	11/15/12	0.5	9.8 (D)	25.8 (D)	174 (D)	NA	0.064	NA	0.14 (J)	<0.125	<0.125	<0.0998	<0.0998	Y
SY-60-0.5	Removed	11/15/12	0.5	**20.8** (D)	27.0 (D)	**468** (D)	NA	0.179	NA	0.16 (J)	<0.121	<0.121	<0.0972	<0.0972 (SL)	N
SY-60A-1.0	Remaining	12/18/12	1.0	8.0 (D)	22.4 (D)	16.1 (D)	NA	0.030 (J)	NA	NA	NA	NA	NA	NA	NA
SY-60B-0.5	Remaining	12/18/12	0.5	4.7 (D,J)	14.0 (D)	128 (D)	NA	0.086	NA	NA	NA	NA	NA	NA	NA
SY-61-0.5	Removed	11/15/12	0.5	**17.1** (D)	7.7 (D)	**103** (D)	NA	0.265	NA	<0.07	<0.106	<0.106	<0.0850	<0.0850	N
SY-61A-2.0	Remaining	01/17/13	2.0	7.0 (D,J)	NA	33.4 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-62-0.5	Removed	11/15/12	0.5	6.0 (D,J)	25.4 (D)	**200** (D)	NA	0.070	NA	<0.08	<0.117	<0.117	**0.221**	**0.225**	Y
SY-62A-2.0	Remaining	01/17/13	2.0	NA	NA	8.3 (D)	NA	NA	NA	NA	<0.106	<0.106	<0.0848	<0.0848 (SH)	NA
SY-63-0.5	Removed	11/15/12	0.5	**10.4** (D)	**175~** (D)	**3,120** (D)	3.73 (D)	0.326	NA	<0.08	<0.107	<0.107	0.172	0.159 (J)	Y
SY-63A-1.0	Remaining	01/08/13	1.0	5.9 (D,J)	17.6 (D)	11.8 (D)	NA	0.019 (J)	NA	NA	NA	NA	NA	NA	NA
SY-63B-0.5	Removed	01/08/13	0.5	**13.7 (D)**	8.6 (D)	**81.9 (D)**	NA	0.062	NA	NA	NA	NA	NA	NA	NA
SY-63B-1.0	Removed	02/19/13	1.0	**11.1 (D)**	NA	16.6 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-63B-2.0	Remaining	05/01/13	2.0	3.3 (D,J)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-63C-0.5	Remaining	02/19/13	0.5	5.9 (D,J)	NA	15.0 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-63D-0.5	Remaining	02/19/13	0.5	9.5 (D)	NA	19.5 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-63E-0.5	Remaining	02/19/13	0.5	4.8 (D,J)	NA	17.3 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-64-0.5	Removed	11/15/12	0.5	**20.0** (D)	13.5 (D)	**462** (D)	NA	0.404	NA	<0.08	<0.114	<0.114	0.152 (J)	0.111 (J)	Y
SY-64A-2.0	Remaining	01/17/13	2.0	4.5 (D,J)	NA	15.5 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-65-0.5	Removed	11/15/12	0.5	5.2 (D,J)	7.6 (D)	**449** (D)	NA	0.071	NA	0.10 (J)	<0.106	<0.106	<0.0849	<0.0849	N

Sample ID	Status	Date Sampled	Depth (feet bgs)	Arsenic (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	TCLP Lead (mg/l)	Mercury (mg/kg)	Benzene (mg/kg)	2,4-DNT (mg/kg)	PCB-1254 (mg/kg)	PCB-1254 [C] (mg/kg)	PCB-1260 (mg/kg)	PCB-1260 [C] (mg/kg)	PAHs
SY-65A-0.5	Removed	12/17/12	0.5	**31.0 (D)**	13.6 (D)	**90.8 (D)**	NA	0.108	NA	NA	NA	NA	NA	NA	NA
SY-65A-1.0	Remaining	12/17/12	1.0	3.7 (D,J)	13.0 (D)	8.9 (D)	NA	0.014 (J)	NA	NA	NA	NA	NA	NA	NA
SY-65AA-1.0	Remaining	02/19/13	1.0	4.6 (D,J)	NA	8.9 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-65B-0.5	Remaining	02/19/13	0.5	5.1 (D,J)	NA	**404 (D)**	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-65C-0.5	Remaining	02/19/13	0.5	5.8 (D,J)	NA	25.8 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-65D-0.5	Removed	02/19/13	0.5	**240 (D)**	NA	**340 (D)**	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-65D-0.5T	Removed	03/27/13	0.5	^^	NA	NA	**11.4 (B,D)**	NA	NA	NA	NA	NA	NA	NA	NA
SY-65D-0.5TT	Removed	05/01/13	0.5-2.0	NA	NA	NA	**100 (B,P)**	NA	NA	NA	NA	NA	NA	NA	NA
SY-65D-0.5TTT	Removed	05/15/13	0.5-2.0	NA	NA	NA	**12.0**	NA	NA	NA	NA	NA	NA	NA	NA
SY-65D-0.5T4	Removed	05/22/13	0.5-2.0	NA	NA	NA	0.015	NA	NA	NA	NA	NA	NA	NA	NA
SY-65E-1.0	Removed	05/01/13	1.0	NA	NA	**276 (D)**	NA	NA	NA	NA	<0.0118	<0.0118	<0.0942	<0.0942	NA
SY-65F-1.0	Removed	05/01/13	1.0	NA	NA	**193 (D)**	NA	NA	NA	NA	<0.107	<0.107	0.222 (SL)	**0.265**	NA
SY-65G-1.0	Remaining	05/01/13	1.0	NA	NA	17.7 (D)	NA	NA	NA	NA	<0.110	<0.110	0.0934 (J)	0.0911 (J)	NA
SY-65H-1.0	Remaining	05/01/13	1.0	NA	NA	174 (D)	NA	NA	NA	NA	<0.110	<0.110	<0.0879 (SL)	<0.0879	NA
SY-65I-1.0	Remaining	05/01/13	1.0	NA	NA	15.6 (D)	NA	NA	NA	NA	<0.128	<0.128	<0.102 (SL)	<0.102	NA
SY-65J-2.0	Remaining	05/01/13	2.0	NA	NA	15.5 (D)	NA	NA	NA	NA	<0.123	<0.123	<0.0980 (SL)	<0.0980 (SL)	NA
SY-65K-2.0	Remaining	05/01/13	2.0	NA	NA	11.7 (D)	NA	NA	NA	NA	<0.118	<0.118	<0.0941 (SL)	<0.0941 (SL)	NA
SY-65L-2.0	Remaining	05/01/13	2.0	NA	NA	13.8 (D)	NA	NA	NA	NA	<0.114	<0.114	<0.0915	<0.0915	NA
SY-65M-1.0	Remaining	05/01/13	1.0	NA	NA	15.1 (D)	NA	NA	NA	NA	<0.121	<0.121	<0.0966	<0.0966 (SL)	NA
SY-65N-1.0-1.5T	Remaining	05/14/13	1.0-1.5	NA	NA	NA	0.22	NA	NA	NA	NA	NA	NA	NA	NA
SY-65O-1.0	Remaining	05/14/13	1.0	NA	NA	4.9 (D,J)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-65P-1.0	Remaining	05/14/13	1.0	NA	NA	11.0 (D)	NA	NA	NA	NA	<0.113	<0.113	<0.0902	<0.0902	NA
SY-65Q-2.0	Removed	05/22/13	2.0	NA	NA	**1490**	NA	NA	NA	NA	<0.113	<0.113	<0.0902	<0.0902	NA
SY-65Q-2.0T	Removed	06/10/13	2.0-4.0	NA	NA	NA	**5.63 (B,D)**	NA	NA	NA	NA	NA	NA	NA	NA
SY-65R-4.0	Remaining	06/11/13	4.0	NA	NA	9.1 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-66-0.5	Remaining	11/15/12	0.5	<2.1 (D)	6.4 (D)	95.7 (D)	NA	0.088	NA	<0.07	<0.105	<0.105	<0.0836	<0.0836	N
SY-67-0.5	Removed	11/15/12	0.5	**13.1** (D)	14.5 (D)	**490** (D)	NA	0.300	NA	<0.07	<0.104	<0.104	0.159 (J)	0.171	Y
SY-67A-1.0	Remaining	01/08/13	1.0	6.8 (D,J)	13.8 (D)	13.6 (D)	NA	0.021 (J)	NA	NA	NA	NA	NA	NA	NA
SY-67B-0.5	Remaining	01/08/13	0.5	2.3 (D,J)	7.2 (D)	6.8 (D)	NA	<0.009	NA	NA	NA	NA	NA	NA	NA
SY-67C-0.5	Remaining	02/19/13	0.5	2.4 (D,J)	NA	12.2 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-67D-0.5	Remaining	02/19/13	0.5	2.4 (D,J)	NA	8.6 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-68-0.5	Removed	11/15/12	0.5	**11.4** (D)	**565**~ (D)	**571** (D)	0.14 (D)	0.208	NA	<0.09	<0.129	<0.129	<0.103	0.104 (C,J)	Y
SY-68A-1.0	Remaining	01/08/13	1.0	6.4 (D,J)	18.4 (D)	15.8 (D)	NA	0.023 (J)	NA	NA	NA	NA	NA	NA	NA
SY-68B-0.5	Removed	01/08/13	0.5	**46.9 (D)**	11.5 (D)	36.0 (D)	NA	0.092	NA	NA	NA	NA	NA	NA	NA
SY-68C-0.5	Remaining	02/20/13	0.5	5.1 (D,J)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-68D-0.5	Remaining	02/20/13	0.5	<2.0 (D)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SY-03A-1.0	Remaining	11/15/12	1.0	5.6 (D,J)	19.6 (D)	19.6 (D)	NA	0.025 (J)	NA	<0.09	<0.126	<0.126	<0.101	<0.101	N
SY-03A-06-1.0	Removed	11/15/12	1.0	**13.9** (D)	23.1 (D)	**162** (D)	NA	0.063	NA	<0.08	<0.121	<0.121	**1.14**	**1.05**	N
SY-03A-06-2.5	Remaining	12/13/12	2.5	2.6 (D,T)	9.9 (D)	4.3 (D,J)	NA	0.017 (J)	NA	NA	<0.112	<0.112	<0.0896	<0.0896	NA
SY-03B-06-1.0	Remaining	12/13/12	1.0	7.5 (D)	16.4 (D)	10.6 (D)	NA	0.020 (J)	NA	NA	<0.116	<0.116	<0.0.0930	<0.0930	NA
SY-03-12A-1.0	Remaining	11/19/12	1.0	3.3 (D,J)	9.2 (D)	8.0 (D)	NA	0.015 (J)	NA	<0.08	<0.118	<0.118	<0.0945	<0.0945	N
Cleanup Objective†				10	35.5	50/250*	5.0	10	1.1	1.6	0.22	0.22	0.22	0.22	_

bgs - Below ground surface
mg/kg - Milligrams per kilogram
mg/l - Milligrams per liter
Bold text identifies Cleanup Objective exceedance.
Italicized text and shaded cell identifies previously reported result.
DNT - Dinitrotoluene
PAH - Polynuclear Aromatic Hydrocarbons
PCB - Polychlorinated Biphenyl
NA - Not analyzed
B - Analyte was detected in associated Method Blank.
C - Confirmatory analysis did not confirm the presence of the analyte.
D - Elevated Limit of Detection (LOD) and Limit of Quantitation (LOQ) are due to dilution/volume of the sample.
J - Analytical result is between the LOD and LOQ.
MH - Matrix Spike and/or Matrix Spike Duplicate recovery exceeded the upper control limit.
ML - Matrix spike and/or matrix spike duplicate was below the lower control limit.

R - Relative percent difference for the matrix spike/matrix spike duplicate exceeded the upper control limit.
SH - Surrogate recovery exceeded the upper control limit. Analytical results for the parameter should be considered estimates.
SL - Surrogate recovery was below the lower control limit. Analytical results for the parameter should be considered estimates.
VSE - Less than 8.0 grams of soil collected for volatile organic compound (VOC) extraction.
TCLP - Toxicity Characteristic Leaching Procedure
* When lead is the only contaminant of concern.
^ TCLP mercury analysis reported no detection (<0.0001 mg/l).
^^ - TCLP arsenic analysis reported no detection (<0.04 (D)) mg/l.
~ - TCLP chromium analysis reported no detection (<0.02 mg/l (D)).
Y - detected
Y - detected at elevated concentrations
N - not detected
- Pentachlorophenol (PCP) was detected at 1.4 (SL) mg/kg, which is above the USEPA RSL of 0.89 mg/kg.
† - See Table 1

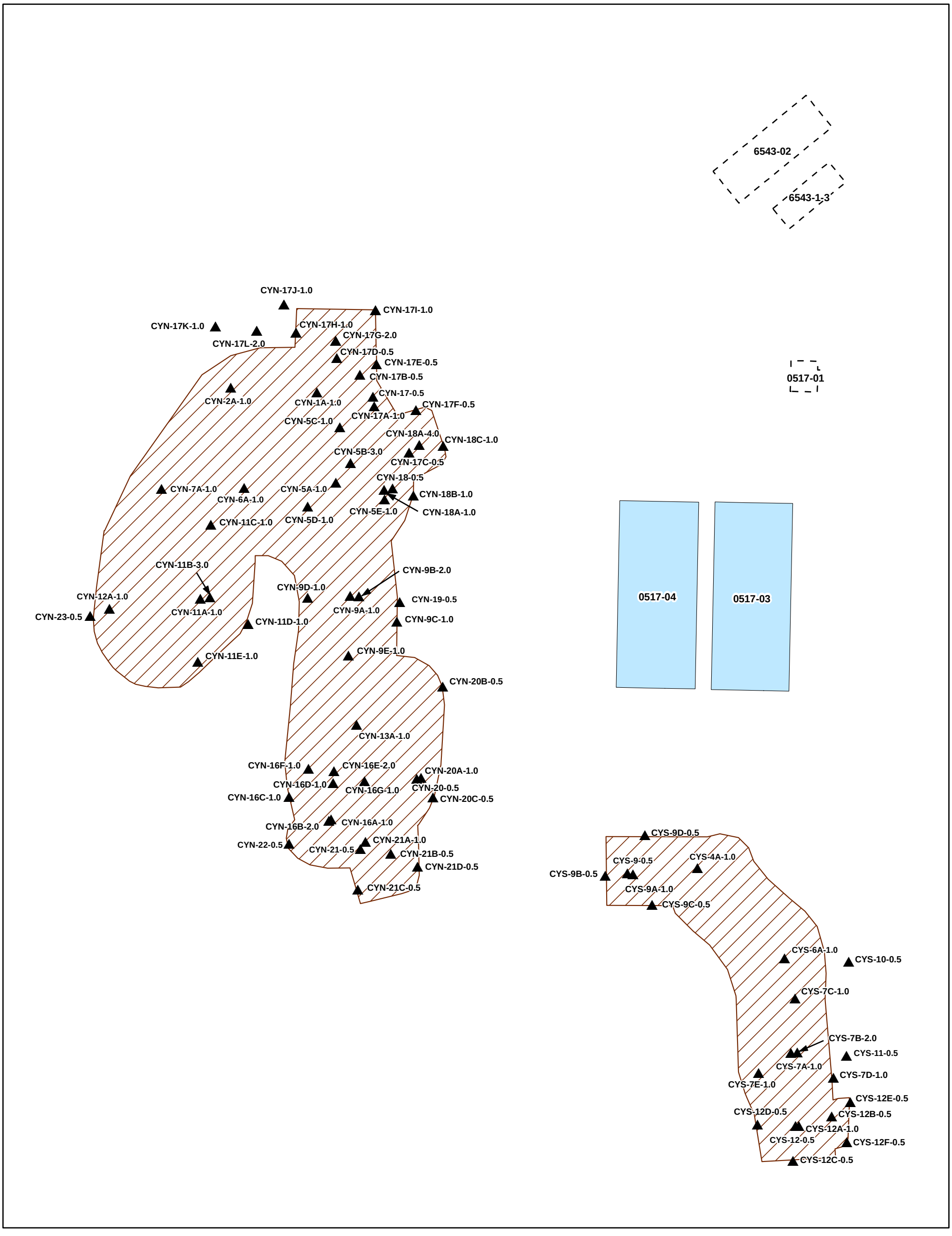

Figure B.2.b.2.

Legend

- ▲ Remedial Action Sample Location
- Remedial Excavation Boundary
- Existing Building Footprint
- Former Building Footprint
- 0240-00 Account #

Corporation Yard Post-Remedial
Soil Contamination Sample Location Map
Parcel R3 - Wisconsin Department of
Natural Resources Case Closure Request
Badger Army Ammunition Plant

1 inch = 50 feet

0 50 100 Feet

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N

D:\GIS_Projects\WDNR Closure Request\
R3\Figure B2b2 Corporation Yard Post-Remedial.mxd

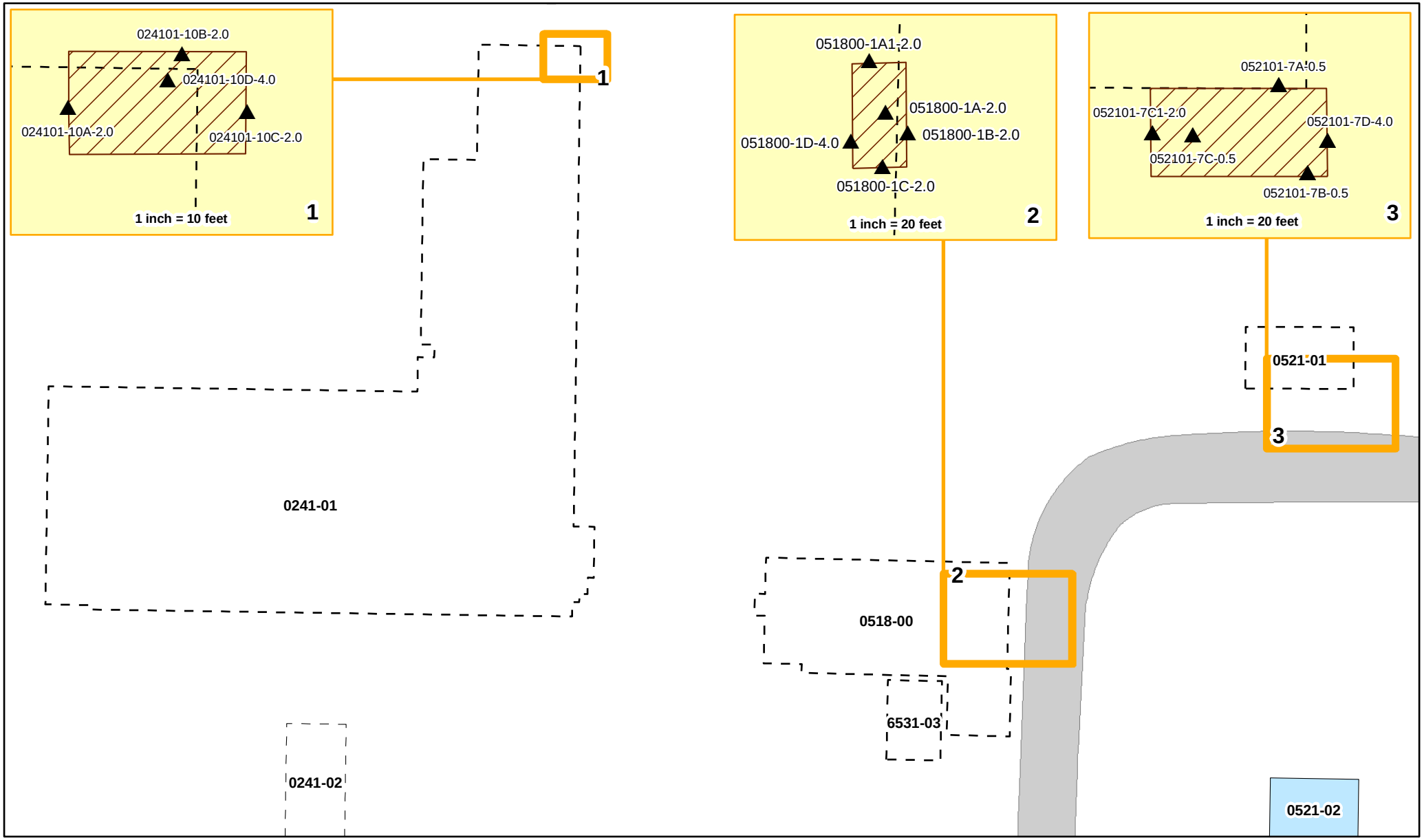


Figure B.2.b.3.

Post-Demolition Post-Remedial
Soil Contamination Sample Location Map
Parcel R3 - Wisconsin Department of
Natural Resources Case Closure Request
Badger Army Ammunition Plant

Legend

- ▲ Remedial Action Sample Location
- Remedial Excavation Boundary
- Former Building Footprint
- Existing Building Footprint
- 241-1 Account #

1 inch = 50 feet

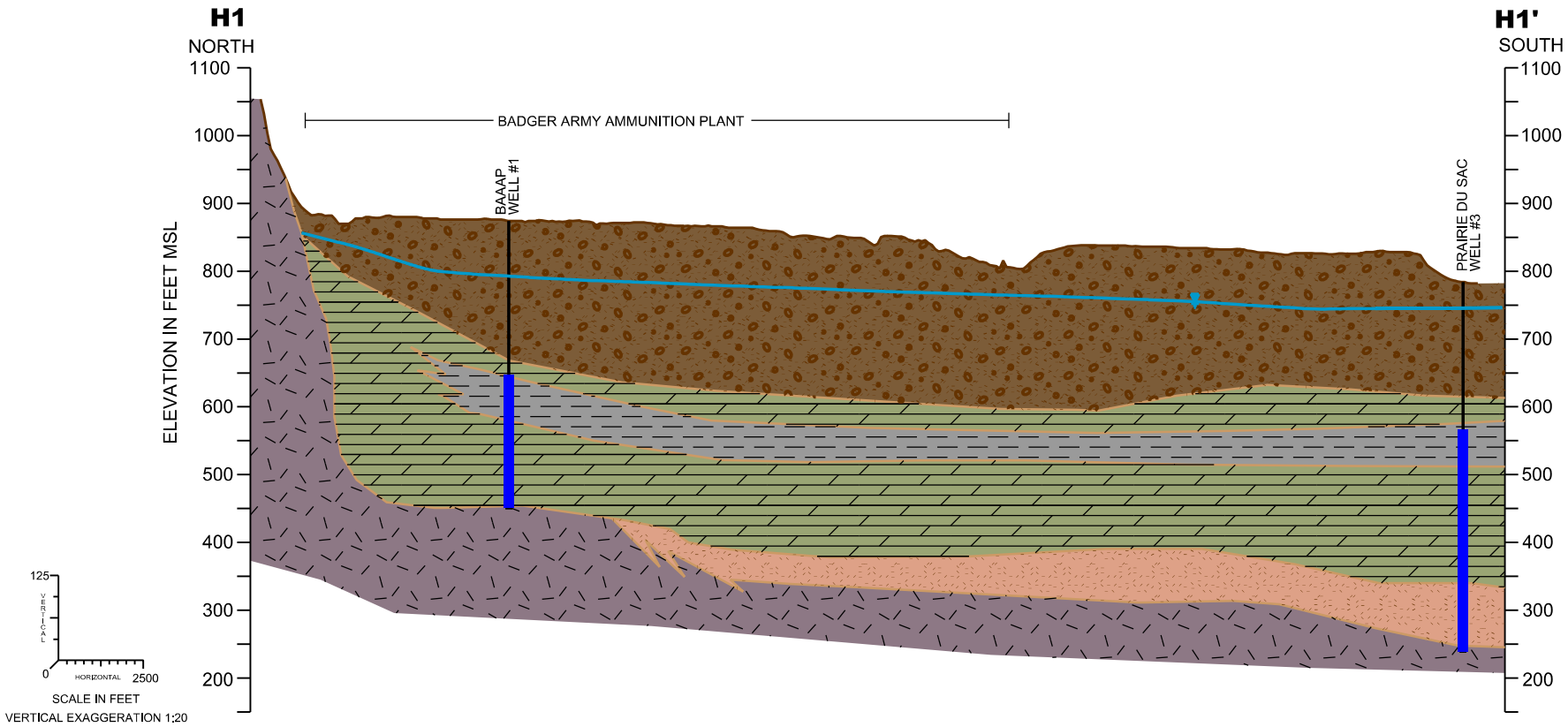
0 50 100 Feet

D:\GIS_Projects\WDNR Closure Request\
R3\Figure B2b3 Post-Demo Post-Remedial.mxd

Figures Not Relevant To Case Closure Request

B.2.c. Pre/Post Remaining Soil Contamination

There were no soil samples remaining, following remedial activities, which contained concentrations of contaminants above the Cleanup Objectives in Parcel R3.



LEGEND

BAAAP WELL #1 — WELL DESIGNATION; SUFFIXES REFER TO WATER TABLE WELL (A) AND PIEZOMETER (B,C,D &E)

GROUND SURFACE

WATER TABLE ELEVATION

DRINKING WATER WELL SCREEN

BOTTOM OF EXPLORATION

GEOLOGIC DESCRIPTIONS:

- SAND AND GRAVEL, AQUIFER
- EAU CLAIRE FORMATION, AQUITARD/AQUIFER (SHALE, DOLOMITE, SILTSTONE, SANDSTONE)
- EAU CLAIRE FORMATION, AQUITARD (SHALE)
- MT. SIMON FORMATION, AQUIFER (SANDSTONE)
- BARABOO FORMATION, AQUITARD (QUARTZITE)

NOTES:
ADAPTED FROM GOTKOWITZ AND OTHERS (2005), HYDROGEOLOGY AND SIMULATION OF GROUNDWATER FLOW IN SAUK COUNTY, WISCONSIN

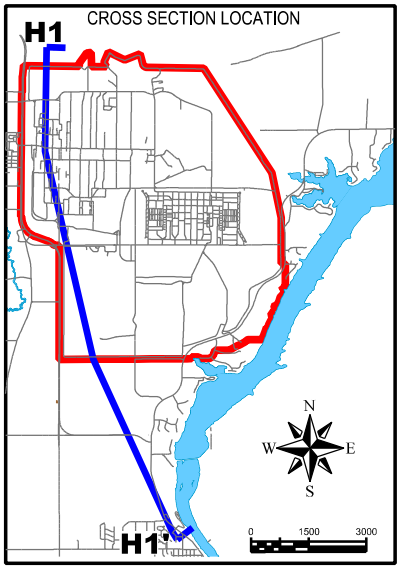


Figure B.3.a

Parcel R3-WDNR Closure Request

FIGURE 4

GENERALIZED GEOLOGIC CROSS SECTION NORTH-SOUTH

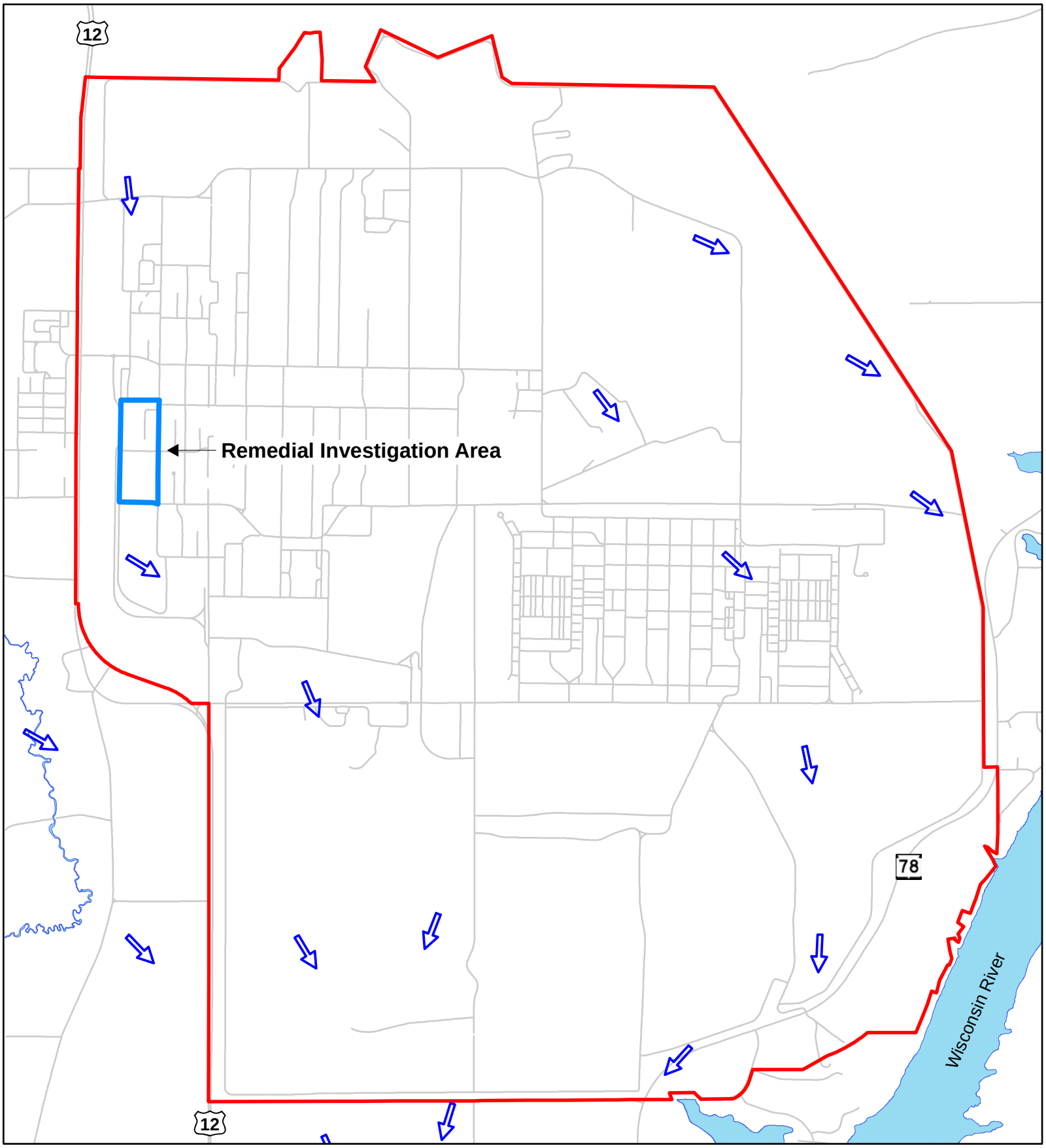
ALTERNATIVE FEASIBILITY STUDY
BADGER ARMY AMMUNITION PLANT

BTS
BADGER TECHNICAL SERVICES

Figures Not Relevant To Case Closure Request

B.3.b. Groundwater Isoconcentrations

Groundwater concentrations exceeding Cleanup Objectives have not been identified in Parcel R3.



Legend

- Badger Army Ammunition Plant Boundary
- Paved Road
- Groundwater Flow
- Wisconsin River
- Parcel R3 Boundary

Figure B.3.c.

Groundwater Flow Map
Parcel R3 - Wisconsin Department of
Natural Resources Case Closure Request
Badger Army Ammunition Plant

1 inch = 2,500 feet

0 1,800 3,600 7,200 Feet

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BADGER TECHNICAL SERVICES

N

GIS_Projects\WDNR Closure Request\
R3\Figure B3c GW Flow Map

Figures Not Relevant To Case Closure Request

B.3.d. Monitoring Wells

No groundwater monitoring wells exist within the Parcel R3 boundary.

Figures Not Relevant To Case Closure Request

B.4.a. Vapor Intrusion Map

Vapor pathway was not assessed due to localized, low contaminant concentrations, human occupancy greater than 2,500 feet from residual contaminant location, and absence of structures/basements within property.

Figures Not Relevant To Case Closure Request

B.4.b. Other Media of Concern

No surface water is present at or adjacent to property.

Figures Not Relevant To Case Closure Request

B.4.c. Other

No other remedial actions beyond the underground storage tank removals and limited soil excavations have taken place on this parcel. Long term groundwater monitoring will continue for the entire site. There is currently no natural attenuation data being collected, and no additional remediation is anticipated.

Documentation of Remedial Action (Attachment C)

DISCLAIMER

Documents contained in Attachment C of the Case Closure – GIS Registry (Form 4400-202) are not included in the electronic version (GIS Registry Packet) available on RR Sites Map to limit file size.

For information on how to obtain a copy or to review the file, please contact the Remediation & Redevelopment (RR) Environmental Program Associate (EPA) at dnr.wi.gov/topic/Brownfields/Contact.html

WISCONSIN
DEPT. OF NATURAL RESOURCES

Maintenance Plan Not Relevant To Case Closure Request

D.1. Location Map(s)

Maintenance plan not required for closure.

Maintenance Plan Not Relevant To Case Closure Request

D.2. Brief Descriptions

Maintenance plan not required for closure.

Maintenance Plan Not Relevant To Case Closure Request

D.3. Description of Maintenance Action(s)

Maintenance plan not required for closure.

Maintenance Plan Not Relevant To Case Closure Request

D.4. Inspection Log

Maintenance plan not required for closure.

Maintenance Plan Not Relevant To Case Closure Request

D.5. Contact Information

Maintenance plan not required for closure.

Maintenance Plan Not Relevant To Case Closure Request

D.6. Photographs

Maintenance plan not required for closure.

Monitoring Well Information

No monitoring wells exist within the Parcel R3 boundary.

Notifications to Owners of Impacted Properties

Not applicable. The releases on Parcel R3 have not impacted off-site properties.

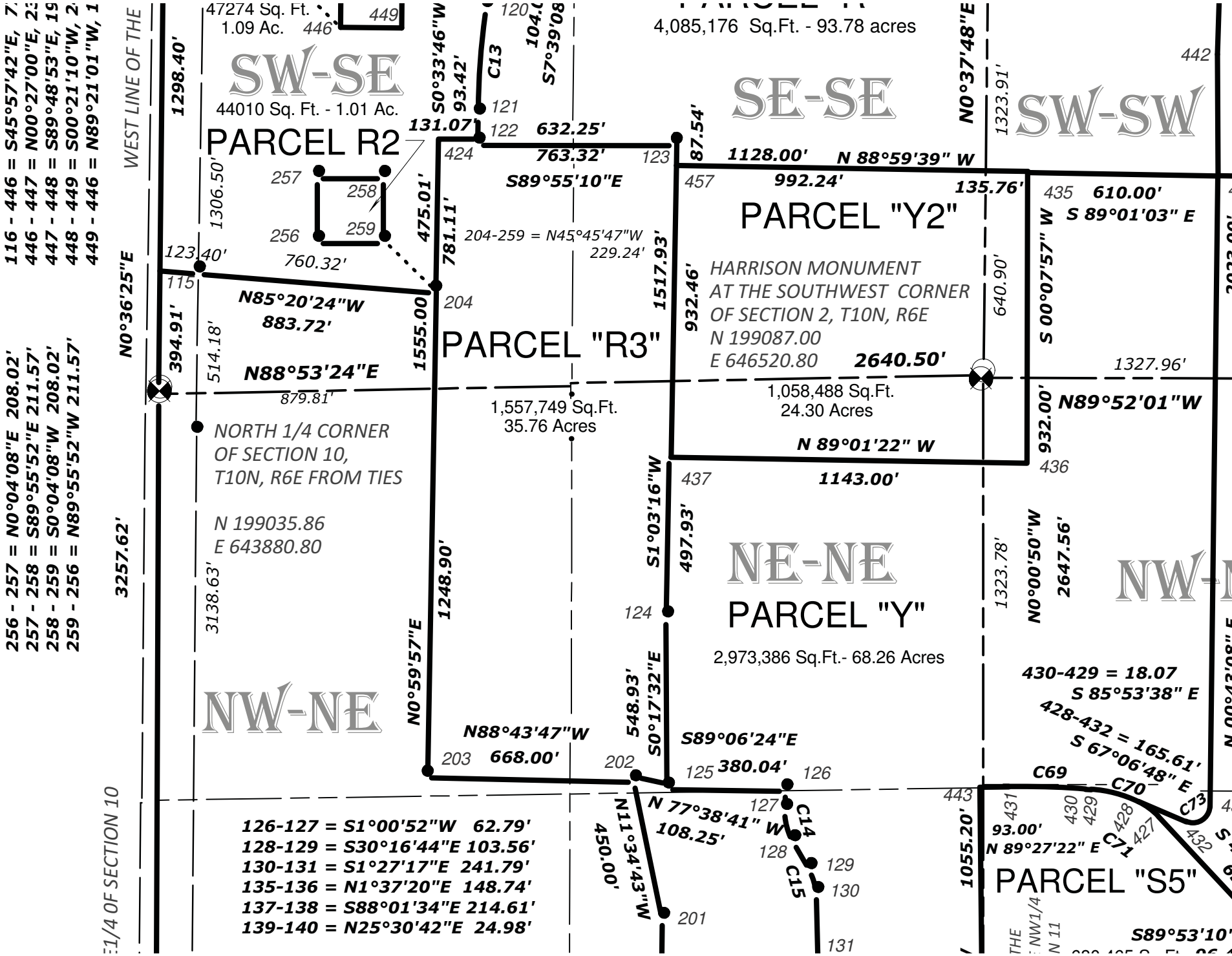
The Badger Army Ammunitions Plant land was acquired by the United States for use as an ammunition plant, so under ss. 1.02(intro.) and (1), Wis. States., it is a “site for the erection of …magazines, arsenals,…” over which the United States has exclusive jurisdiction as a “federal enclave.” Once Wisconsin cedes exclusive jurisdiction to the United States over a place or tract of land within the state pursuant to ss. 1.02(1) and 1.03, States., the United States retains exclusive jurisdiction” so long… as the place or tract shall remain the property of the United States.” To date, Parcel R3 remains United States property subject to the exclusive jurisdiction of the United States.

PARCEL "R3"

A parcel of land located in the SW1/4 of the SE1/4 and the SE1/4 of the SE1/4 of Section 3, the NW1/4 of the NE1/4 and the NE1/4 of the NE1/4 of Section 10, all in T10N, R6E, Town of Sumpter, Sauk County, Wisconsin more particularly described as follows:

Commencing at the southwest corner of the SW1/4 of the SE1/4 of said Section 10; thence N88°53'24"E along the south line of said SW1/4 of the SE1/4, 879.81 ft. to the point of beginning; thence N00°59'57"E, 781.11 ft.; thence S89°55'10"E, 763.32 ft. to a 3/4" solid round iron rod; thence S01°03'16"W, 1517.93 ft. to a 3/4" solid round iron rod; thence S00°17'32"E, 548.93 ft. to a 3/4" solid round iron rod; thence N77°38'41"W, 108.25 ft. to a 3/4" solid round iron rod; thence N88°43'47"W, 668.00 ft. to a 3/4" solid round iron rod; thence N00°59'57"E, 1248.90 ft. to the point of beginning.

Containing 1,557,749 square feet or 35.76 acres


SW-SE
44010 Sq. Ft. - 1.01 Ac.
47274 Sq. Ft.
1.09 Ac.
PARCEL R2
4,085,176 Sq.Ft. - 93.78 acres
SE-SE
SW-SW
PARCEL "Y2"
HARRISON MONUMENT
AT THE SOUTHWEST CORNER
OF SECTION 2, T10N, R6E
N 199087.00
E 646520.80
1,058,488 Sq.Ft.
24.30 Acres
PARCEL "R3"
1,557,749 Sq.Ft.
35.76 Acres
NORTH 1/4 CORNER
OF SECTION 10,
T10N, R6E FROM TIES
N 199035.86
E 643880.80
NE-NE
PARCEL "Y"
2,973,386 Sq.Ft.- 68.26 Acres
NW-NE
PARCEL "S5"
WEST LINE OF THE
E1/4 OF SECTION 10
116 - 446 = S45°57'42"E, 7
446 - 447 = N00°27'00"E, 23
447 - 448 = S89°48'53"E, 19
448 - 449 = S00°21'10"W, 2
449 - 446 = N89°21'01"W, 1
256 - 257 = N0°04'08"E 208.02'
257 - 258 = S89°55'52"E 211.57'
258 - 259 = S0°04'08"W 208.02'
259 - 256 = N89°55'52"W 211.57'
204-259 = N45°45'47"W
229.24'
430-429 = 18.07
S 85°53'38" E
428-432 = 165.61'
S 67°06'48" E
93.00'
N 89°27'22" E
126-127 = S1°00'52"W 62.79'
128-129 = S30°16'44"E 103.56'
130-131 = S1°27'17"E 241.79'
135-136 = N1°37'20"E 148.74'
137-138 = S88°01'34"E 214.61'
139-140 = N25°30'42"E 24.98'
1298.40'
1306.50'
394.91'
514.18'
3257.62'
3138.63'
N0°36'25"E
N85°20'24"W
883.72'
N88°53'24"E
879.81'
1555.00
475.01'
781.11'
131.07'
S0°33'46"W
93.42'
C13
104.0
S7°39'08
632.25'
763.32'
S89°55'10"E
87.54'
1128.00'
N 88°59'39" W
992.24'
135.76'
N0°37'48"E
1323.91'
610.00'
S 89°01'03" E
S 00°07'57" W
640.90'
1517.93'
932.46'
2640.50'
1327.96'
N89°52'01"W
932.00'
N 89°01'22" W
1143.00'
S1°03'16"W
497.93'
1248.90'
N0°59'57"E
548.93'
S0°17'32"E
S89°06'24"E
380.04'
N88°43'47"W
668.00'
N 77°38'41" W
108.25'
N11°34'43"W
450.00'
N0°00'50"W
2647.56'
1323.78'
1055.20'
C69
C70
C71
C73
C14
C15
442
435
436
437
457
424
122
123
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203
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Verification of Zoning

G.3. The Badger Army Ammunitions Plant land was acquired by the United States for use as an ammunition plant, so under ss. 1.02(intro.) and (1), Wis. States., it is a "site for the erection of …magazines, arsenals,…" over which the United States has exclusive jurisdiction as a "federal enclave." Once Wisconsin cedes exclusive jurisdiction to the United States over a place or tract of land within the state pursuant to ss. 1.02(1) and 1.03, States., the United States retains exclusive jurisdiction" so long… as the place or tract shall remain the property of the United States." To date, Parcel R3 remains United States property subject to the exclusive jurisdiction of the United States.

DEPARTMENT OF THE ARMY
BADGER ARMY AMMUNITION PLANT
S7560 U.S. HIGHWAY 12
NORTH FREEDOM, WISCONSIN 53951-9588

September 30, 2014

SUBJECT: Parcel R3 – Legal Description Certification

Mr. Will Myers
Hydrogeologist
Wisconsin Department of Natural Resources
South Central Region
3911 Fish Hatchery Road
Fitchburg, WI 53711-5397

Dear Mr. Myers:

As a representative for the Responsible Party, I believe that the legal description, as provided in the Case Closure – GIS Registry (Form 4400-202) accurately describes the correct property for Parcel R3.

Please do not hesitate to contact me at 608-643-3361 if you have any questions.

Sincerely,

Joan M. Kenney

Joan M. Kenney
Commander's Representative

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