

Source Property Information

CLOSURE DATE: 12/29/2014

BRRTS #: 02-42-559852

ACTIVITY NAME: Fort McCoy Central Fuels Facility

PROPERTY ADDRESS: Fort McCoy

MUNICIPALITY: Sparta

PARCEL ID #: NA

FID #: 642024900

DATCP #:

PECFA#:

***WTM COORDINATES:**

X: 464606 Y: 395674

** 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:

- | | |
|--|--|
| <input type="checkbox"/> Groundwater Contamination > ES (236) | <input checked="" type="checkbox"/> Soil Contamination > *RCL or **SSRCL (232) |
| <input type="checkbox"/> Contamination in ROW | <input type="checkbox"/> Contamination in ROW |
| <input type="checkbox"/> Off-Source Contamination | <input type="checkbox"/> Off-Source Contamination |
| <i>(note: for list of off-source properties
see "Impacted Off-Source Property Information,
Form 4400-246")</i> | <i>(note: for list of off-source properties
see "Impacted Off-Source Property Information,
Form 4400-246")</i> |

Site Specific Obligations:

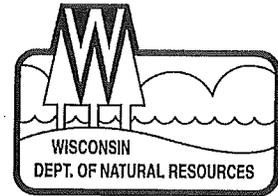
- | | |
|--|---|
| <input type="checkbox"/> Soil: maintain industrial zoning (220)
<i>(note: soil contamination concentrations
between non-industrial and industrial levels)</i> | <input checked="" type="checkbox"/> Cover or Barrier (222) |
| <input type="checkbox"/> Structural Impediment (224) | <input type="checkbox"/> Direct Contact |
| <input type="checkbox"/> Site Specific Condition (228) | <input checked="" type="checkbox"/> Soil to GW Pathway |
| | <input type="checkbox"/> Vapor Mitigation (226) |
| | <input type="checkbox"/> Maintain Liability Exemption (230)
<i>(note: local government unit or economic
development corporation was directed to
take a response action)</i> |

Monitoring Wells:

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

- Yes No N/A

* Residual Contaminant Level
**Site Specific Residual Contaminant Level



December 29, 2014

Mandy J. Radloff
Acting Chief, Environmental Division
Fort McCoy
2171 South 8th Avenue
Fort McCoy, WI 54656

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

SUBJECT: Final Case Closure with Continuing Obligations
Fort McCoy Central Fuels Facility, WI
DNR BRRTS Activity #: 02-42-559852
FID #: 642024900

Dear Ms. Radloff:

The Department of Natural Resources (DNR) considers the Fort McCoy Central Fuels Facility site closed, with continuing obligations. No further investigation or remediation is required at this time. However, you, future property owners, and occupants of the property must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attachments listed at the end of 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, Wis. Adm. Code. The DNR West Central Region (WCR) Closure Committee reviewed the request for closure on December 11, 2014. The Closure Committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases.

The Fort McCoy Central Fuels Facility site had soil contaminated with naphthalene and gasoline range organics. A continuing obligation for maintenance of a pavement cover is meant to address any potential exposure to residual contamination. The continuing obligation required was based on the property being used for industrial (heavy maintenance) purposes.

Continuing Obligations

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

- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- Pavement must be maintained over contaminated soil and the DNR must approve any changes to this barrier.

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>.

GIS Registry

This site will be included on the Bureau for Remediation and Redevelopment Tracking System (BRRTS on the Web) at <http://dnr.wi.gov/topic/Brownfields/clean.html>, to provide public notice of residual contamination and of any continuing obligations. The site can also be viewed on the Remediation and Redevelopment Sites Map (RRSM), a map view, under the Geographic Information System (GIS) Registry layer, at the same web address.

DNR approval prior to well construction or reconstruction is required for all sites shown on the GIS Registry, in accordance with s. NR 812.09 (4) (w), Wis. Adm. Code. This requirement applies to private drinking water wells and high capacity wells. To obtain approval, complete and submit Form 3300-254 to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at <http://dnr.wi.gov/topic/wells/documents/3300254.pdf>.

All site information is also on file at the WCR Regional DNR office, at 1300 West Clairemont Avenue, Eau Claire, Wisconsin. This letter and information that was submitted with your closure request application, including any maintenance plan and maps, can be found as a Portable Document Format (PDF) in BRRTS on the Web.

Prohibited Activities

Certain activities are prohibited at closed sites because maintenance of a barrier is intended to prevent contact with any remaining contamination. When a barrier is required, the condition of closure requires notification of the DNR before making a change, in order to determine whether further action is needed to maintain the protectiveness of the remedy employed. The following activities are prohibited on any portion of the property where pavement is required, as shown on the **attached map**, Cap Location, Fig. D.1, unless prior written approval has been obtained from the DNR:

- removal of the existing barrier or cover;
- replacement with another barrier or cover;
- excavating or grading of the land surface;
- filling on covered or paved areas;
- plowing for agricultural cultivation;
- construction or placement of a building or other structure;
- changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings.

Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter and in the attached maintenance plan are met. If these requirements are not followed, the DNR may take enforcement action under s. 292.11, Wis. Stats. in order to ensure compliance with the specified requirements, limitations or other conditions related to the property.

Please send written notifications in accordance with the following requirements to:
Department of Natural Resources
Attn: Remediation and Redevelopment Program Environmental Program Associate
1300 West Clairemont Avenue
Eau Claire, WI 54701

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

Soil contamination remains at approximately six feet below ground surface in the area of soil sample D-1, as indicated on the **attached map**, "Post-remedial Soil Contamination," Fig. B.2.b. If soil in the specific locations described above is excavated in the future, the property owner or right-of-way holder at the time of excavation

must sample and analyze the excavated soil to determine whether contamination remains. If sampling confirms that contamination is present, the property owner or right-of-way holder at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. Contaminated soil may be managed in accordance with ch. NR 718, Wis. Adm. Code, with prior DNR approval.

In addition, all current and future owners and occupants of the property, as well as right-of-way holders, need to be aware that excavation of the 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.

Depending on site-specific conditions, construction over contaminated soils or groundwater may result in vapor migration of contaminants into enclosed structures or migration along newly placed underground utility lines. The potential for vapor inhalation and means of mitigation should be evaluated when planning any future redevelopment, and measures should be taken to ensure the continued protection of public health, safety, welfare and the environment at the site.

Cover or Barrier (s. 292.12 (2) (a), Wis. Stats., s. NR 726.15, s. NR 727.07 Wis. Adm. Code)

The pavement cover that exists in the location shown on the **attached map**, "Cap Location," Fig. D.1, shall be maintained in compliance with the **attached maintenance plan** in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code.

A request may be made to modify or replace a cover or barrier. Before removing or replacing the cover, you must notify the DNR at least 45 days before taking an action. The replacement or modified cover or barrier must be protective of the revised use of the property, and must be approved in writing by the DNR prior to implementation. A cover or barrier for industrial land uses, or certain types of commercial land uses may not be protective if the use of the property were to change such that a residential exposure would apply. This may include, but is not limited to single or multiple family residences, a school, day care, senior center, hospital or similar settings. In addition, a cover or barrier for multi-family residential housing use may not be appropriate for use at a single family residence.

The **attached maintenance plan and inspection log (DNR form 4400-305)** are to be kept up-to-date and on-site. Inspections shall be conducted annually, in accordance with the attached maintenance plan. Submit the inspection log to the DNR only upon request.

In Closing

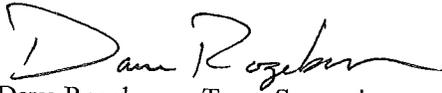
Please be aware that the case may be reopened pursuant to s. NR 727.13, Wis. Adm. Code, for any of the following situations:

- 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
- a property owner fails to maintain or comply with a continuing obligation (imposed under this closure approval letter).

Mandy Radloff
Fort McCoy
December 29, 2014
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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 Mae Willkom at (715) 839-3748, or at mae.willkom@wi.gov.

Sincerely,

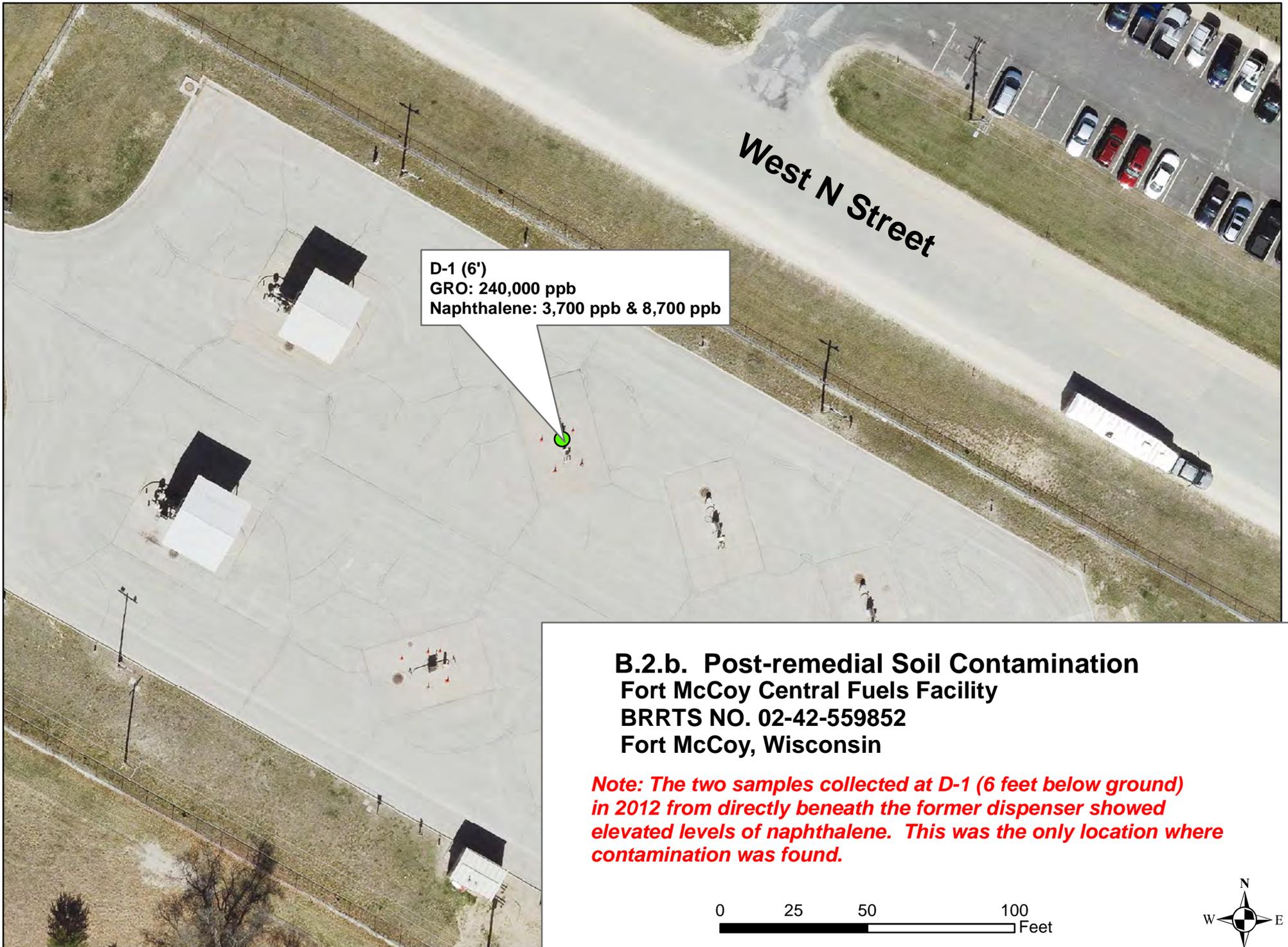


Dave Rozeboom, Team Supervisor
WCR Remediation & Redevelopment Program

Attachments:

- Post-Remedial Soil Contamination, Fig. B.2.b
- Cap Location, Fig. D.1
- Cap Maintenance Plan, Central Fuels Facility, Fig. D
- Inspection log. DNR Form 4400-305

cc: Craig Bartholomew, Fort McCoy

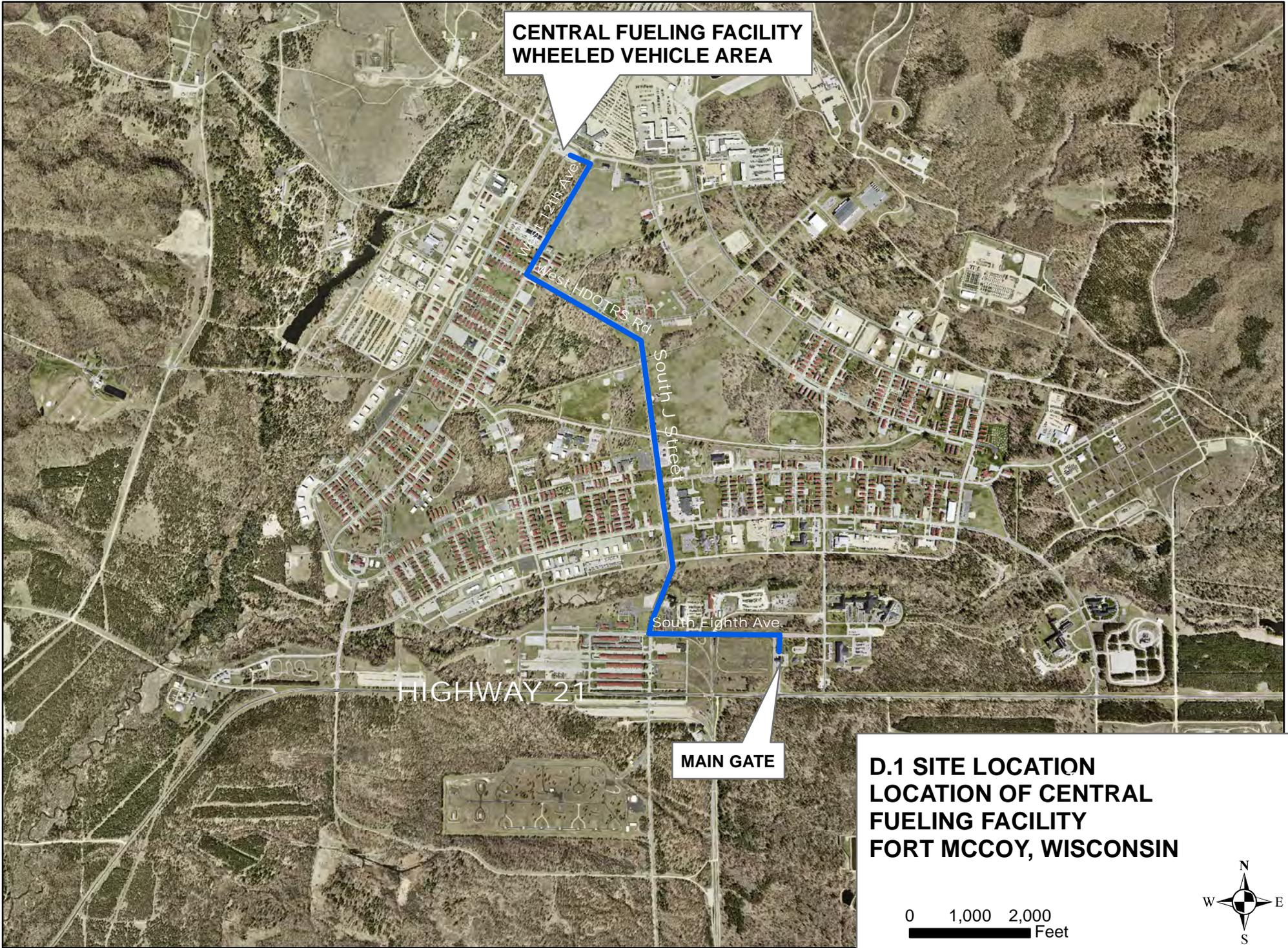


D-1 (6')
GRO: 240,000 ppb
Naphthalene: 3,700 ppb & 8,700 ppb

**B.2.b. Post-remedial Soil Contamination
Fort McCoy Central Fuels Facility
BRRTS NO. 02-42-559852
Fort McCoy, Wisconsin**

Note: The two samples collected at D-1 (6 feet below ground) in 2012 from directly beneath the former dispenser showed elevated levels of naphthalene. This was the only location where contamination was found.





**CENTRAL FUELING FACILITY
WHEELED VEHICLE AREA**

West 12th Ave

West HDOTRS Rd

South J Street

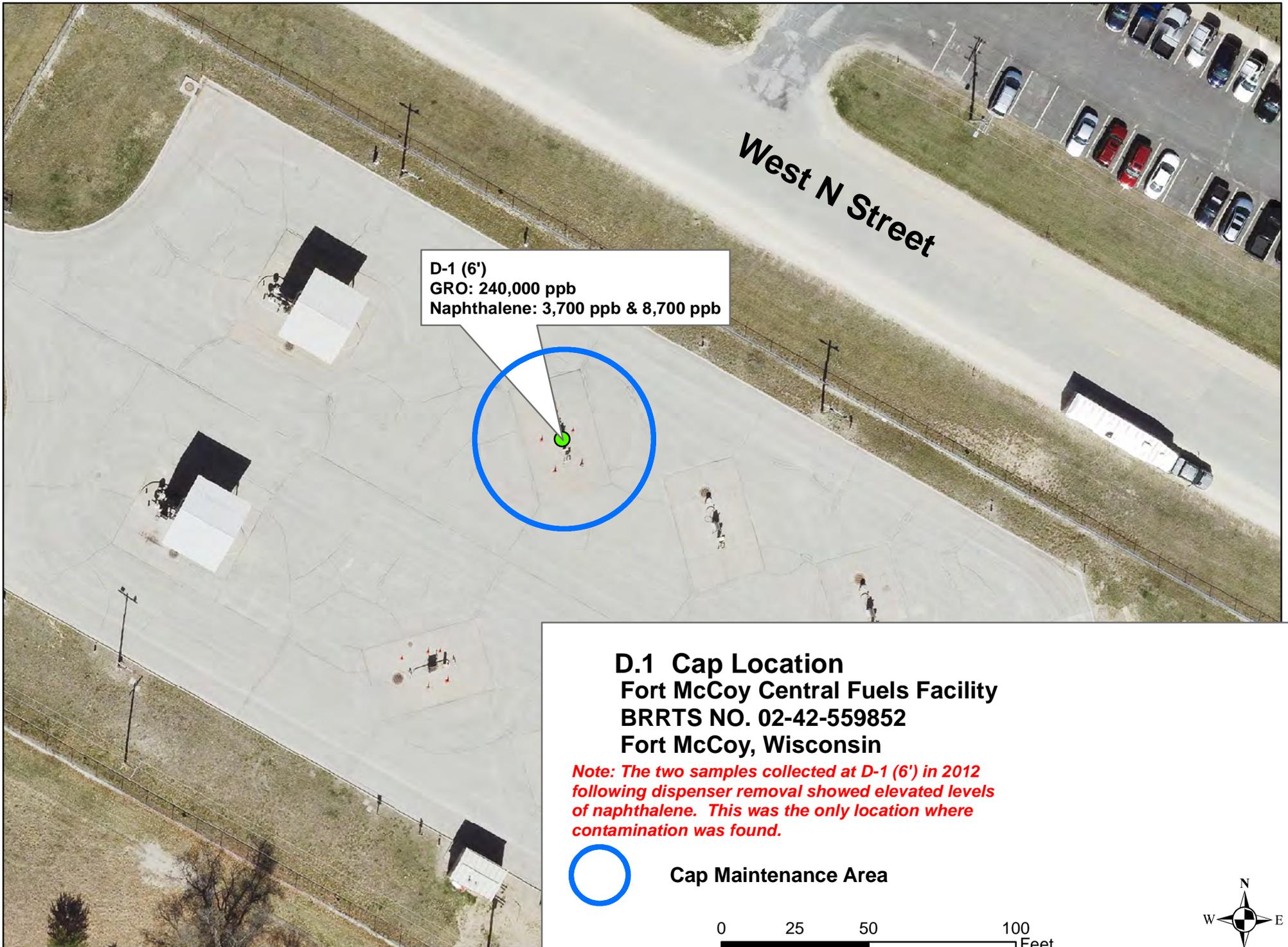
South Eighth Ave

HIGHWAY 21

MAIN GATE

**D.1 SITE LOCATION
LOCATION OF CENTRAL
FUELING FACILITY
FORT MCCOY, WISCONSIN**

0 1,000 2,000
Feet



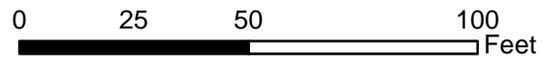
D-1 (6')
GRO: 240,000 ppb
Naphthalene: 3,700 ppb & 8,700 ppb

**D.1 Cap Location
Fort McCoy Central Fuels Facility
BRRTS NO. 02-42-559852
Fort McCoy, Wisconsin**

Note: The two samples collected at D-1 (6') in 2012 following dispenser removal showed elevated levels of naphthalene. This was the only location where contamination was found.



Cap Maintenance Area



Introduction:

This document is the Maintenance Plan (Plan) for a soil cap for the area where contamination was detected at the Central Fuels Facility (BRRTS 02-42-559852), and has been prepared in accordance with the requirements of NR. 724.13(2), Wisconsin Administrative Code (Figures in Attachment D.1.). The maintenance activities relate to the existing concrete/asphalt cap occupying the area over the contaminated soil on-site.

More site-specific information about this property may be found in:

- The case file in the DNR West Central regional office
- BRRTS on the Web (DNR's internet based data base of contaminated sites): dnr.wi.gov/botw/SetUpBasicSearchFo
- GIS Registry PDF file for further information on the nature and extent of contamination: dnrmaps.wisconsin.gov/imf/imf.jsp?site=brrts2; and
- The DNR project manager for Monroe County.

Description of Contamination

(Form 4400-202, Attachment D.2. – brief description of the type, depth and location of residual contamination.)

Soil contaminated by naphthalene, found at concentrations of 3,700 µg/kg and 8,700 µg/kg, in the vadose zone at six feet below ground surface directly beneath the former fuel dispenser. No other constituents were reported above the applicable RCLS. As no impacts above the applicable RCLS were found at borings surrounding the former dispenser, the volume of impacted soil is small. Groundwater has not been contaminated. The capped area to be maintained is shown on the attached maps (Figures D.1.).

Description of the Cap to be maintained

The cap consists of asphalt and concrete. The area to maintain the cap is shown on the Cap Location figure in Attachment D.1 and on the photos in D.6. The capped area to be maintained extends well beyond the single sample location where contamination was discovered.

Cover Purpose

The concrete/asphalt over and extending beyond the contaminated soil will serve as an infiltration barrier to minimize future soil-to-groundwater contaminant migration that would violate the groundwater standards in NR 140, Wisconsin Administrative Code. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

Annual Inspection

The concrete/asphalt overlying the contaminated soil as depicted in Figure D.1 Cap Location, will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause additional infiltration into underlying soils and groundwater. The inspections will be performed by the Fort McCoy staff, and evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils become or are likely to become exposed and where infiltration from the surface will not be effectively minimized will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included as Exhibit B (Attachment D.4.), Cap Inspection Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the

inspection log. A copy of the inspection log will be kept at the Fort McCoy Directorate of Public Works, and will be available for submittal or inspection by Wisconsin Department of Natural Resources ("WDNR") representatives upon their request, and available to all interested parties.

Maintenance Activities

(Form 4400-202, Attachment D.3. – Description of Maintenance Actions required for maximizing effectiveness of the concrete/asphalt cap.)

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. Fort McCoy will place any soil that is excavated from within 15 feet of the former dispenser into the installation's licensed storage facility for petroleum contaminated soil and disposed in accordance with applicable local, state and federal law.

In the event the asphalt/concrete cap overlying the contaminated soil is removed or replaced, the replacement barrier will be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the WDNR or its successor.

Prohibition of Activities and Notification of DNR Prior to Actions Affecting a Cover or Cap

The following activities are prohibited on the portion of the property where the concrete/asphalt cap is required as shown on the attached map (D.1), unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; or 6) construction or placement of a building or other structure.

Amendment or Withdrawal of Maintenance Plan

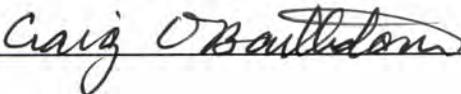
This Maintenance Plan can be amended or withdrawn by Fort McCoy and its successors with the written approval of WDNR.

November 2014 Contact Information

(Form 4400-202, Attachment D.5.) Contact Information, including the name, address and phone number of the individual or facility who will be responsible for annual inspections and arranging for required maintenance.

Site Owner and Operator: U.S. Army- Fort McCoy: Representative: Craig Bartholomew
2171 South 8th Avenue, Fort McCoy, Wisconsin 54656
(608) 388-8453

Signature:

 _____

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. 02-42-559852		Parcel ID No. NA	
BRRTS Activity (Site) Name Fort McCoy Central Fuels Facility		WTM Coordinates X 464606 Y 395674	
Street Address 3080 West N Street		City Fort McCoy	State ZIP Code WI 54656
Responsible Party (RP) Name US-Army: Army Contact-Craig Bartholomew			
Company Name US Army-Fort McCoy			
Street Address 2171 South 8th Avenue		City Fort McCoy	State ZIP Code WI 54656
Phone Number (608) 388-8453		Email craig.o.bartholomew2.civ@mail.mil	

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

Environmental Consultant Name

Consulting Firm

Street Address		City	State	ZIP Code
Phone Number		Email		
Acres Ready For Use		Voluntary Party Liability Exemption Site? <input type="radio"/> Yes <input checked="" type="radio"/> 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 \$ \$1,350.00

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.
The site is an active fueling facility within Fort McCoy, and is located at Latitude 44.0321414, Longitude -90.691294 in the SW ¼, SW ¼, Section 13, Township 18 North, Range 3 West, Monroe County, Wisconsin. The site is fairly level and the surface consists of reinforced concrete and asphalt. Surface drainage is towards an oil/water separator (OWS) located on the southwest corner of the facility. The site represents the wheeled-vehicle portion of the fueling facility. The tracked-vehicle portion of the facility is located to the west across West 13th Avenue. A tactical vehicle maintenance facility is located north of the site across West N. Street. To the east, across West Twelfth Street, is a computer simulated weapons training facility. Undeveloped property is located south of the site (Figures B.1.a and B.1.b.).
- B. **Prior and current site usage:** Specifically describe the current and historic occupancy and types of use.
The site has been part of Fort McCoy since World War II time period. Between World War II and 1995 the site was forested training land. In 1995 the installation constructed the Central Fuels Facility, and the site has been used as the installation wheeled-vehicle portion of the fueling facility since that time.
- C. Describe how and when site contamination was discovered.
In October 2012, contamination was discovered in soil below the northwestern most dispenser during work conducted to upgrade the facility that included removing the two western most dispensers.
- D. Describe the type(s) and source(s) or suspected source(s) of contamination.
Samples were collected in November and December 2012 from 6 feet below the dispenser with a hand auger. Detections included GRO (240,000 µg/kg; in November) and several PAH constituents, with naphthalene reported at 3,700 µg/kg during November and 8,700 µg/kg in December. The non-industrial RCL for naphthalene is 5,150 µg/kg and the industrial RCL is 26,000 µg/kg. The concentration of 8,700 µg/kg is well above the RCL for protection of groundwater at 658.2 µg/kg. No other concentrations of concern were reported (Table A.2a.).
- 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.
Not Applicable (Figure B.1.c.).
- 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.
Not Applicable (Figure B.1.c.).
- H. **Current zoning** (e.g. industrial, commercial, residential) for the site and for neighboring properties, and how verified (Provide documentation in Attachment G).
This site is currently zoned "Heavy Maintenance" (Figure G.3.).

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.
The soil beneath the site consists of Quaternary-aged unconsolidated alluvial deposits consisting primarily of poorly graded, medium to coarse sand, varying in color and organic content (Figures B.3.a.).
- ii. Describe the composition, location and lateral extent, and depth of fill or waste deposits on the site.
Other than the concrete and asphalt with the gravel base, no fill was identified in the soil samples collected during the investigation. The sand encountered beneath the site is generally encountered throughout the 93 square miles that is included within the Fort McCoy boundaries. No waste was encountered during the field investigation.
- iii. Depth to bedrock, bedrock type, and whether or not it was encountered during the investigation.
Weathered bedrock consisting of Cambrian Sandstone is presumed to be present at between 12 and 13 feet below grade at the site, as that was the depth of Geoprobe® refusal during the site investigation (Figures B.3.a.).
- 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).
The entire wheeled-vehicle facility (approximately 2 acres) is paved with asphalt and concrete (Figure B.1.b.).

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.
Groundwater was encountered within the alluvial sand at approximately 10 feet below grade (Figures B.3.a.).
- ii. **Discuss groundwater flow direction(s), shallow and deep.** Describe and explain flow variations, including fracture flow if present.
No groundwater contamination was observed during the investigation and no permanent monitoring wells or piezometers were installed. However, based upon work conducted approximately 1/2 mile north of the site (BRRTS NOs. 02-42-278852 & 02-42-279989), shallow groundwater flow beneath this area of Fort McCoy is typically to the west and southwest, although flow to the northwest has been observed. Deep groundwater flow beneath Fort McCoy is to the southwest.
- iii. **Discuss groundwater flow characteristics:** hydraulic conductivity, flow rate and permeability, or state why this information was not obtained.
No constituents of concern were detected above the preventive action limits in groundwater beneath the site. Therefore, hydraulic conductivity, flow rate and permeability information were not obtained.
- iv. **Identify and describe locations/distance of potable and/or municipal Wells within 1200 feet of the site.**
The nearest potable wells (both upgradient and downgradient) are located on Fort McCoy property, and both are more than 1 mile from the site.

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.

The WDNR was notified of contamination on November 20, 2012. On December 17, 2012, additional PAH results were submitted to the WDNR.

The Responsible Party (RP) letter was sent to the installation on January 17, 2013.

The Investigation Work Plan was submitted to the WDNR on May 23, 2014. The investigation was conducted in June 2014, and involved utilizing a Geoprobe® to advance 9 soil borings. Four of the borings were utilized to collect soil samples only, one boring was utilized for collection of both soil and groundwater samples, and the remaining four borings were utilized to collect groundwater samples only. Soil samples were analyzed for volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), diesel range organics (DRO), and gasoline range organics (GRO), and groundwater samples were analyzed for VOCs and PAHs.

The "Site Investigation Report Central Fuels Facility, Fort McCoy, Wisconsin, Characterization of Nature and Extent of Petroleum Impacts, WDNR BRRTS No. 02-42-559852", August 2014, Sullivan International Group, Inc., was submitted to the WDNR on September 15, 2014.

- 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.
Sampling results from the site investigation conducted in June 2014, did not show elevated concentrations of GRO or naphthalene at boring locations surrounding the former fuel dispenser. Boring GP-1, although not at the exact location of the original samples collected following dispenser removal, was advanced within approximately five feet of the original samples. VOCs and PAHs were found at concentrations below the RCLS and no concentrations were reported in groundwater at GP-1. In addition, no concentrations were reported above the applicable PALS or RCLS in any of the borings advanced during the site investigation (Figure B.2.a.). Therefore, only a small volume of soil contamination is present at the location beneath the former dispenser, and no contamination extends off site.
- 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.

Not applicable. The investigation is complete and no remediation was necessary.

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.

Samples were collected in November and December 2012 from six feet below the dispenser with a hand auger. Detections included GRO (240,000 µg/kg; in November; Table A.2a.) and several PAH constituents (at levels below the applicable RCLS), with naphthalene reported at 3,700 µg/kg during November and 8,700 µg/kg in December. The non-industrial RCL for direct contact for naphthalene is 5,150 µg/kg and the industrial RCL is 26,000 µg/kg. However, the samples were collected from six feet below grade. Therefore, direct contact should not be a concern. Both naphthalene

concentrations are well above the RCL for protection of groundwater at 658.2 µg/kg. No other concentrations of concern were reported.

The site investigation conducted in June 2014 showed that elevated concentrations of GRO and naphthalene are not present at boring locations surrounding the former dispenser. Boring GP-1, although not at the exact location of the original samples collected following dispenser removal, was advanced within approximately five feet of the original hand auger samples. VOCs and PAHs were found at concentrations below the RCLs and no concentrations were reported in groundwater at GP-1. No concentrations were reported above the applicable PALS or RCLS in any of the borings advanced during the site investigation (Figure B.2.b.). All of the concentrations reported were at very low levels between the limit of detection (LOD) and limit of quantitation (LOQ; Table A.2b.).

- ii. Describe the level and types of **soil contaminants** found in the upper four feet of the soil column. All parameters reported in the upper four feet were reported at very low levels between the LOD and the LOQ. All of the reported concentrations were at levels much less than the applicable RCLS (Table A.2b).
- 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.

All soil concentrations were compared to the Not to Exceed Residential and non-Industrial Direct Contact Residual Contaminant Level, and with Residual Contaminant Level for protection of groundwater, from the web calculator at http://emp-prgs.ornl.gov/cgi-bin/chemical/csi_search (chicago as climate zone). See Table A.2b.

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.
Results of the field investigation show 1-methylnaphthalene and 2-methylnaphthalene, and naphthalene were reported in estimated concentrations between the LOD and the LOQ ranging from 0.022 to 0.043 micrograms per liter (µg/L) at one boring (TW-2; Table A.1.; Figure B.2.a.). Naphthalene is the only one of these three parameters for which a PAL has been established (PAL = 10 µg/L). The naphthalene concentration was 0.022J µg/L. No other concentrations were reported in groundwater during the field investigation.
- ii. Describe the presence of free product at the site, including the thickness, depth, and locations.
Not Applicable.

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.
No impacts at levels above the applicable PALS or RCLS are present at boring locations surrounding the former dispenser. Therefore, the volume of residual impacts beneath the former dispenser is likely too small to be a source for vapor migration.
- 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. No vapors are likely to be present.

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.
As no impacts were found in soil or groundwater surrounding the former dispenser at levels above (or even close to) the applicable PALS or RCLS during the site investigation, surface water and sediment are not likely to be impacted.
- 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.
Not Applicable. Concentrations of PAHs and VOCs are not present surrounding the former dispenser at levels above the applicable PALS or RCLS.

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- B. Describe any immediate or interim actions taken at the site under ch NR 708, Wis. Adm. Code.
Not Applicable. Concentrations of PAHs and VOCs are not present surrounding the former dispenser at levels above the applicable PALS or RCLS.
- 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.
Not Applicable. Concentrations of PAHs and VOCs are not present surrounding the former dispenser at levels above the applicable PALS or RCLS.
- 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.
Elevated concentrations of naphthalene and GRO in soil were present in the vadose zone at six feet below grade beneath the former dispenser in 2012 (Table A.4.). VOC and PAH constituents are not present at concentrations that exceed (or are even close) to the applicable PALS or RCLS at boring locations surrounding the former dispenser. Therefore, only a small volume of contaminated soil remains beneath the location of the former dispenser (Figure B.2.c.).
- 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.
Not Applicable. Concentrations of PAHs and VOCs are not found at levels above the applicable PALS or RCLS within four feet of ground surface (Tables A.2a and A.2b).
- F. Describe the remaining soil contamination in the vadose zone that attains or exceeds the soil standard(s) for the groundwater pathway.
Concentrations of naphthalene (3,700 µg/kg and 8,700 µg/kg) reported during the initial sampling at six feet below grade in 2012 below the former dispenser exceeded the RCL for protection of groundwater (Table A.2a). Naphthalene concentrations at levels above the RCL for protection of groundwater are not present at locations surrounding the former dispenser.
- 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.
The fact that no concentrations in groundwater were found at levels at or above the applicable PALS shows that groundwater is not being impacted by the contamination reported in the vadose zone in the samples collected from directly beneath the former dispenser. No impacts at levels above the applicable RCLS were found at locations surrounding the former dispenser. Therefore, only a small volume of impacted soil is present beneath the former dispenser. Contamination reported was located at six feet below grade, therefore, direct contact is not likely to be a concern. However, if the concrete and asphalt cover at the site is removed, groundwater may become impacted. Therefore, the site should be placed on the GIS Registry for soil contamination with a cap maintenance plan to ensure that the asphalt and concrete cap remains in place.
- 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).
Not Applicable. Concentrations of PAHs and VOCs are not present at levels above the applicable PALS.
- 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.
Not Applicable. Concentrations of PAHs and VOCs are not present at levels above the applicable PALS or RCLS in soil or groundwater surrounding the former dispenser. The only reported contamination exceeding the RCL was from six feet below grade. Only a small volume of contaminated soil is present, and this contamination is not moving. Therefore, no exposure pathways were required to be addressed.
- J. Identify any system hardware anticipated to be left in place after site closure, and explain the reasons why it will remain.
Not Applicable. No remedial system was installed.
- 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. Concentrations of PAHs and VOCs are not present at levels above the applicable PALS (Table A.1.).
- 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 (see 3. D. above).

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 (see 3. E. above).

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.	<input type="checkbox"/>	<input type="checkbox"/>	Engineering Control/Barrier for Direct Contact	✓	✓
ii.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Engineering Control/Barrier for Groundwater Infiltration	✓	✓
iii.	<input type="checkbox"/>	<input type="checkbox"/>	Vapor Mitigation - post closure passive system	✓	✓
iv.	<input type="checkbox"/>	<input type="checkbox"/>	Vapor Mitigation - post closure active system	✓	✓
v.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination exceeds ch. NR 720 generic or site-specific RCLs	✓
ii.	<input type="checkbox"/>	<input type="checkbox"/>	Sites with groundwater contamination equal to or greater than the ch. NR 140, enforcement standards (ES)	✓
iii.	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring wells: lost, transferred or remaining in use	✓
iv.	<input type="checkbox"/>	<input type="checkbox"/>	Structural Impediment (not as a performance standard)	✓
v.	<input type="checkbox"/>	<input type="checkbox"/>	Residual soil contamination remaining at ch. NR 720 Industrial Use levels	✓
vi.	<input type="checkbox"/>	<input type="checkbox"/>	Vapor intrusion may be future, post-closure issue if building use or land use changes	✓
vii.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	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.

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- 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://dnrm.wi.gov/si/?Viewer=RR Sites](http://dnrm.wi.gov/si/?Viewer=RR%20Sites)) 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 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.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 an 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) 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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residual groundwater contamination exceeds Ch. NR 140 Wis. Administrative Code enforcement standards.
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	An engineered cover or a soil barrier (e.g. pavement) must be maintained over contaminated soil for direct contact or groundwater infiltration concerns.
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Industrial land use soil standards were used for the clean-up standard.
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A vapor mitigation system (or other specific vapor protection) must be operated and maintained.
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vapor assessment needed if use changes.
7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Structural impediment.
8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lost, transferred or open monitoring wells.
9.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	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, 0 (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 _____ 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."

Printed Name

Title

Signature

Date

P.E. Stamp and Number

Hydrogeologist Certification

I Craig O. Bartholomew 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."

Craig Owen Bartholomew
Printed Name

Environmental Protection Specialist
Title

Signature

Date

Craig O Bartholomew
Signature

12 Nov 2014
Date

A.1. Groundwater Analytical Table

Groundwater Sample Analytical Data Summary

Central Fueling Facility Site Investigation

Ft. McCoy, Wisconsin

					Field Sample ID:	TW-2
					Sample Date:	6/12/2014
Analyte Name:	Cas No.	ES ⁽¹⁾	PAL ⁽¹⁾	Units	Concentration	
1-Methylnaphthalene	90-12-0	--	--	µg/L	0.026 J	
2-Methylnaphthalene	91-57-6	--	--	µg/L	0.043 J	
Naphthalene	91-20-3	100	10	µg/L	0.022 J	

Notes:

J estimated concentration

µg/L micrograms per liter

(1) Enforcement Standard. Table 1, Public Health Groundwater Quality Standards

NR 140.05, Groundwater Quality. Department of Natural Resources, Wisconsin Administrative code January 2012.

(2) Preventative Action Limit. Table 1, Public Health Groundwater Quality Standards

NR 140.05, Groundwater Quality. Department of Natural Resources, Wisconsin Administrative code January 2012.



A.2a Pre-remedial Soil Analytical Table
PRE-INVESTIGATION SOIL RESULTS
FORT MCCOY
CENTRAL FUELS SOIL RESULTS
(µg/kg)

PARAMETER	SAMPLE ID			NR 720 PROTECTION OF GROUNDWATER	EPA INDUSTRIAL RSLs ¹
	D-1 (6')	D-1 (6')	D-2 (5')		
	11/9/2012	12/3/2012	11/9/2012		
1,2,4 Trimethylbenzene	1,500	NA	<16	NS	219,000
1,3,5 Trimethylbenzene	570	NA	<16	NS	182,000
Benzene	<17	NA	<19	5.5	7,410
Ethylbenzene	<18	NA	<20	2,900	37,000
Methyl tert-butyl ether	<11	NA	<13	NS	293,000
Naphthalene	3,700	8,700	<130	NS	26,000
Toluene	<16	NA	<18	1,500	818,000
Xylenes, total	73	NA	<16	4,100	258,000
Wisconsin GRO	240,000	NA	<2,600	100,000	NS
Acenaphthene	NA	<10	NA	NS	33,000,000
Acenaphthylene	NA	<8.1	NA	NS	487,000
Anthracene	NA	22J	NA	NS	100,000,000
Benzo(a)anthracene	NA	13J	NA	NS	2,110
Benzo(a)pyrene	NA	<6.4	NA	NS	211
Benzo(b)fluoranthene	NA	<6.8	NA	NS	2,110
Benzo(g,h,i)perylene	NA	<12	NA	NS	NS
Benzo(k)fluoranthene	NA	<8.4	NA	NS	21,100
Chrysene	NA	<7.9	NA	NS	211,000
Dibenz(a,h)anthracene	NA	<9.8	NA	NS	211
Fluoranthene	NA	<14	NA	NS	22,000,000
Fluorene	NA	<8.0	NA	NS	22,000,000
Indeno(1,2,3-cd)pyrene	NA	<12	NA	NS	2,110
Phenanthrene	NA	57	NA	NS	115,000
Pyrene	NA	<13	NA	NS	16,500,000
1-Methylnaphthalene	NA	16,000	NA	NS	98,700
2-Methylnaphthalene	NA	19,000	NA	NS	368,000

NA = NOT ANALYZED

NS = NO STANDARD

¹RSLs = REGIONAL SCREENING LEVELS

J: REPORTED CONCENTRATION IS BETWEEN THE LIMIT OF DETECTION AND LIMIT OF QUANTITATION

A.2b Pre-remedial Soil Analytical Table

INVESTIGATIVE SOIL RESULTS*
Fort McCoy Central Fuels Facility
BRRTS No. 02-42-559852

Field Sample ID: Soil Type: Sample Date:						GP-1 2'-4' sand 6/12/2014	GP-1 8'-10' sand 6/12/2014	GP-2 2'-4' sand 6/12/2014	GP-2 8'-10' sand 6/12/2014	GP-3 2'-4' sand 6/12/2014	GP-3 8'-10' sand 6/12/2014	GP-4 2'-4' sand 6/12/2014	GP-4 8'-10' sand 6/12/2014	GP-5 2'-4' sand 6/12/2014	GP-5 2'-4' DUP sand 6/12/2014	GP-5 8'-10' sand 6/12/2014
Analyte Name:	Cas No.	Industrial RCL (1)	Residential RCL (2)	Protection of GW RCL (3)	Units											
Acetone	67-64-1	100000000	63800000	3676.60	µg/kg	<11	<9.0	<12	<11	<11	<11	<11	<9.9	10 J	<9.7	<11
Benzo(a)anthracene	56-55-3	2900	150	12.0	µg/kg	0.4 J	0.37 J	0.49 J	0.39 J	0.82 J	0.63 J	0.41 J	0.47 J	0.33 J	0.39 J	0.33 J
Benzo(a)pyrene	50-32-8	211	15	470.0	µg/kg	<0.95	<0.82	<0.99	<0.97	0.47 J	<0.98	<0.87	<0.84	<0.82	<0.82	<0.82
Benzo(b)fluoranthene	205-99-2	2110	148	479.3	µg/kg	<0.95	0.51 J	<0.99	<0.97	0.47 J	<0.98	<0.87	<0.84	<0.82	<0.82	<0.82
Benzo(g,h,i)perylene	191-24-2	--	--	--	µg/kg	<0.95	0.53 J	<0.99	<0.97	0.89 J	0.54 J	0.43 J	0.58 J	<0.82	0.45 J	<0.82
Chrysene	218-01-9	211000	14800	144.6	µg/kg	<0.95	<0.82	<0.99	<0.97	0.48 J	0.43 J	<0.87	<0.84	<0.82	<0.82	<0.82
Indeno(1,2,3-cd)pyren	193-39-5	2110	148	--	µg/kg	<0.95	0.4 J	<0.99	<0.97	0.41 J	<0.98	<0.87	<0.84	<0.82	<0.82	<0.82
Naphthalene	91-20-3	26000	5150	658.2	µg/kg	<0.95	<0.82	0.42 J	0.67 J	<0.85	<0.98	<0.87	<0.84	<0.82	<0.82	<0.82

Notes:

J estimated concentration

µg/kg micrograms per kilogram

< Less than the limit of detection (LOD)

(1) Not to Exceed Industrial Direct Contact Soil Residual Contamination Level (RCL)

from web calculator at http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search

(2) Not to Exceed Residential/non-Industrial Direct Contact Soil Residual Contamination Level (RCL)

from web calculator at http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search (Chicago as climatic zone).

(3) Residual Contamination Level (RCL) for protection of groundwater. Dilution factor default of 2.

from web calculator at http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search

Soil standards were selected based on Chapter NR 720.20, Soil Clean up Standards. Department of Natural Resources, Wisconsin. November 2013

* Modified from: Table 2 of August, 2014. "Site Investigation Report Central Fuels Facility, Fort McCoy, Wisconsin, Characterization of Nature and Extent of Petroleum Impacts". Sullivan International Group, Inc.

A.3. Post-remedial Soil Analytical Table
FORT MCCOY
CENTRAL FUELS SOIL RESULTS
(µg/kg)

PARAMETER	SAMPLE ID			NR 720 PROTECTION OF GROUNDWATER	EPA INDUSTRIAL RSLs ¹
	D-1 (6')	D-1 (6')	D-2 (5')		
	11/9/2012	12/3/2012	11/9/2012		
1,2,4 Trimethylbenzene	1,500	NA	<16	NS	219,000
1,3,5 Trimethylbenzene	570	NA	<16	NS	182,000
Benzene	<17	NA	<19	5.5	7,410
Ethylbenzene	<18	NA	<20	2,900	37,000
Methyl tert-butyl ether	<11	NA	<13	NS	293,000
Naphthalene	3,700	8,700	<130	NS	26,000
Toluene	<16	NA	<18	1,500	818,000
Xylenes, total	73	NA	<16	4,100	258,000
Wisconsin GRO	240,000	NA	<2,600	100,000	NS
Acenaphthene	NA	<10	NA	NS	33,000,000
Acenaphthylene	NA	<8.1	NA	NS	487,000
Anthracene	NA	22J	NA	NS	100,000,000
Benzo(a)anthracene	NA	13J	NA	NS	2,110
Benzo(a)pyrene	NA	<6.4	NA	NS	211
Benzo(b)fluoranthene	NA	<6.8	NA	NS	2,110
Benzo(g,h,i)perylene	NA	<12	NA	NS	NS
Benzo(k)fluoranthene	NA	<8.4	NA	NS	21,100
Chrysene	NA	<7.9	NA	NS	211,000
Dibenz(a,h)anthracene	NA	<9.8	NA	NS	211
Fluoranthene	NA	<14	NA	NS	22,000,000
Fluorene	NA	<8.0	NA	NS	22,000,000
Indeno(1,2,3-cd)pyrene	NA	<12	NA	NS	2,110
Phenanthrene	NA	57	NA	NS	115,000
Pyrene	NA	<13	NA	NS	16,500,000
1-Methylnaphthalene	NA	16,000	NA	NS	98,700
2-Methylnaphthalene	NA	19,000	NA	NS	368,000

NA = NOT ANALYZED

NS = NO STANDARD

¹RSLs = REGIONAL SCREENING LEVELS

J: REPORTED CONCENTRATION IS BETWEEN THE LIMIT OF DETECTION AND LIMIT OF QUANTITATION

Note: The only impacts above the applicable RCLs were found in the soil beneath the former dispenser. No concentrations exceeding the RCLs were found surrounding the dispenser during the June 2014 investigation. Therefore, the only remaining contamination is the small volume of soil at six feet below ground at the location of the former dispenser.

A.4. Pre and Post Remaining Soil Contamination Analytical Table
FORT MCCOY
CENTRAL FUELS SOIL RESULTS
(µg/kg)

PARAMETER	SAMPLE ID			NR 720 PROTECTION OF GROUNDWATER	Non-Industrial RCL ¹	Protection of Groundwater ¹	EPA INDUSTRIAL RSLs ¹
	D-1 (6')	D-1 (6')	D-2 (5')				
	11/9/2012	12/3/2012	11/9/2012				
Naphthalene	3,700	8,700	<130	NS	5,150	658.2	26,000
Wisconsin GRO	240,000	NA	<2,600	100,000	NS	NS	NS

NA = NOT ANALYZED

NS = NO STANDARD

¹RCLS were obtained from web calculator at http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search with Chicago selected as the climate zone.

J: REPORTED CONCENTRATION IS BETWEEN THE LIMIT OF DETECTION AND LIMIT OF QUANTITATION

Note: *The only impacts above the applicable RCLS were found in the soil beneath the former dispenser. No concentrations exceeding the RCLS were found surrounding the dispenser during the June 2014 investigation. Therefore, the only remaining contamination is the small volume of soil at six feet below ground at the location of the former dispenser.*

A.5 Vapor Analytical Table

Not Applicable. No impacts above the applicable PALS or RCLS were found in the boring surrounding the former dispenser. Therefore, the volume of contaminated soil present beneath the former dispenser is very small and it is unlikely that vapor concentrations of concern are present beneath the site.

A.6 Other Media of Concern (e.g., sediment or surface water)

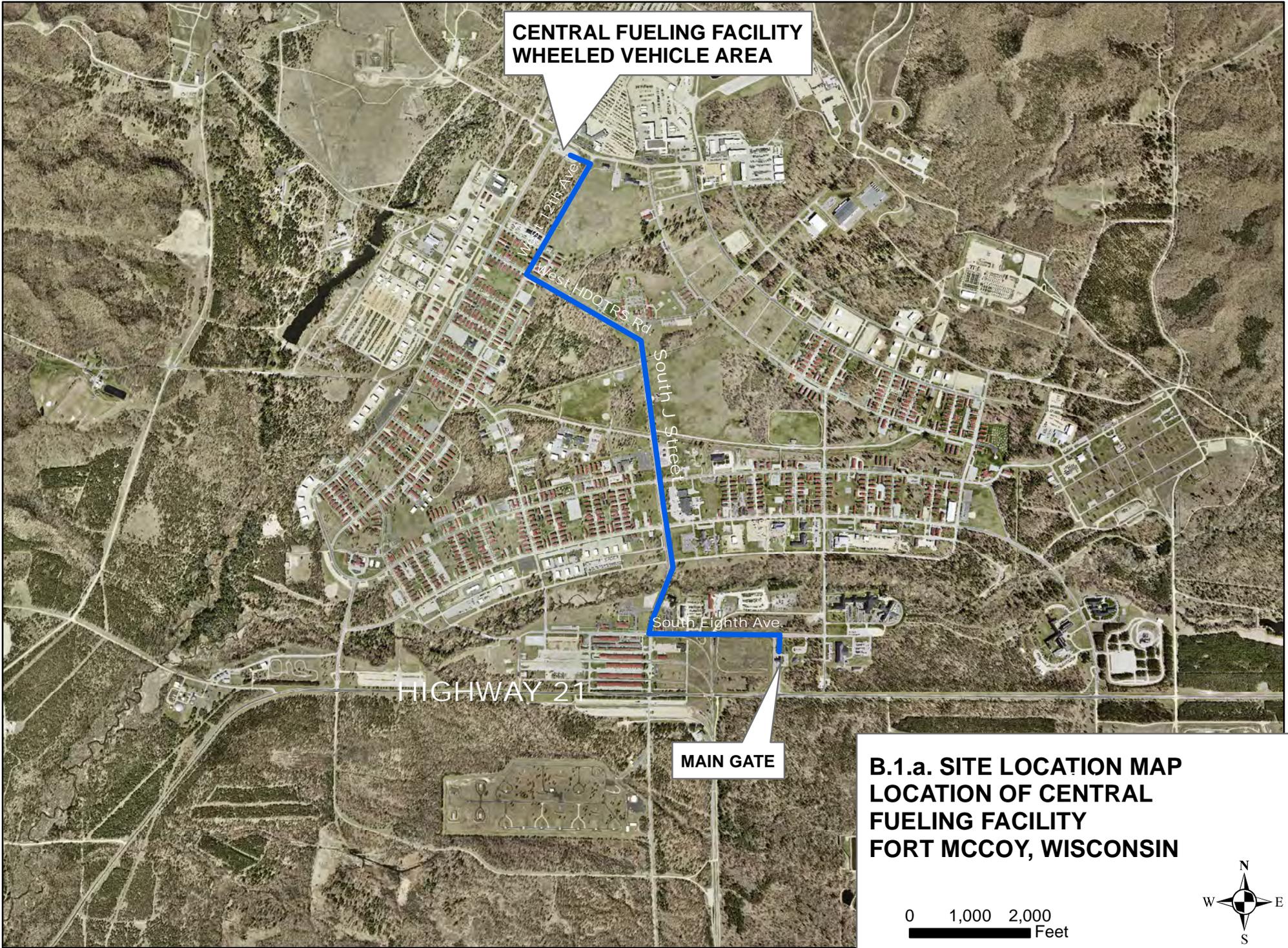
Not applicable. No impacts above the RCLS or PALS were found at borings surrounding the former dispenser. Therefore, it is unlikely that sediment or surface water have been impacted by the site.

A.7 Water Level Elevations

Not Applicable. No groundwater impacts above applicable PALS are present at the site. Therefore, no monitoring wells or piezometers (except temporary piezometers to collect groundwater samples) have been installed and groundwater elevations have not been measured.

A.8 Other

Not applicable. No impacts above the RCLS or PALS were found at borings surrounding the former dispenser. Therefore, no remediation was conducted and natural attenuation is not applicable at this site.



**CENTRAL FUELING FACILITY
WHEELED VEHICLE AREA**

West 12th Ave

West HDOTRS Rd

South J Street

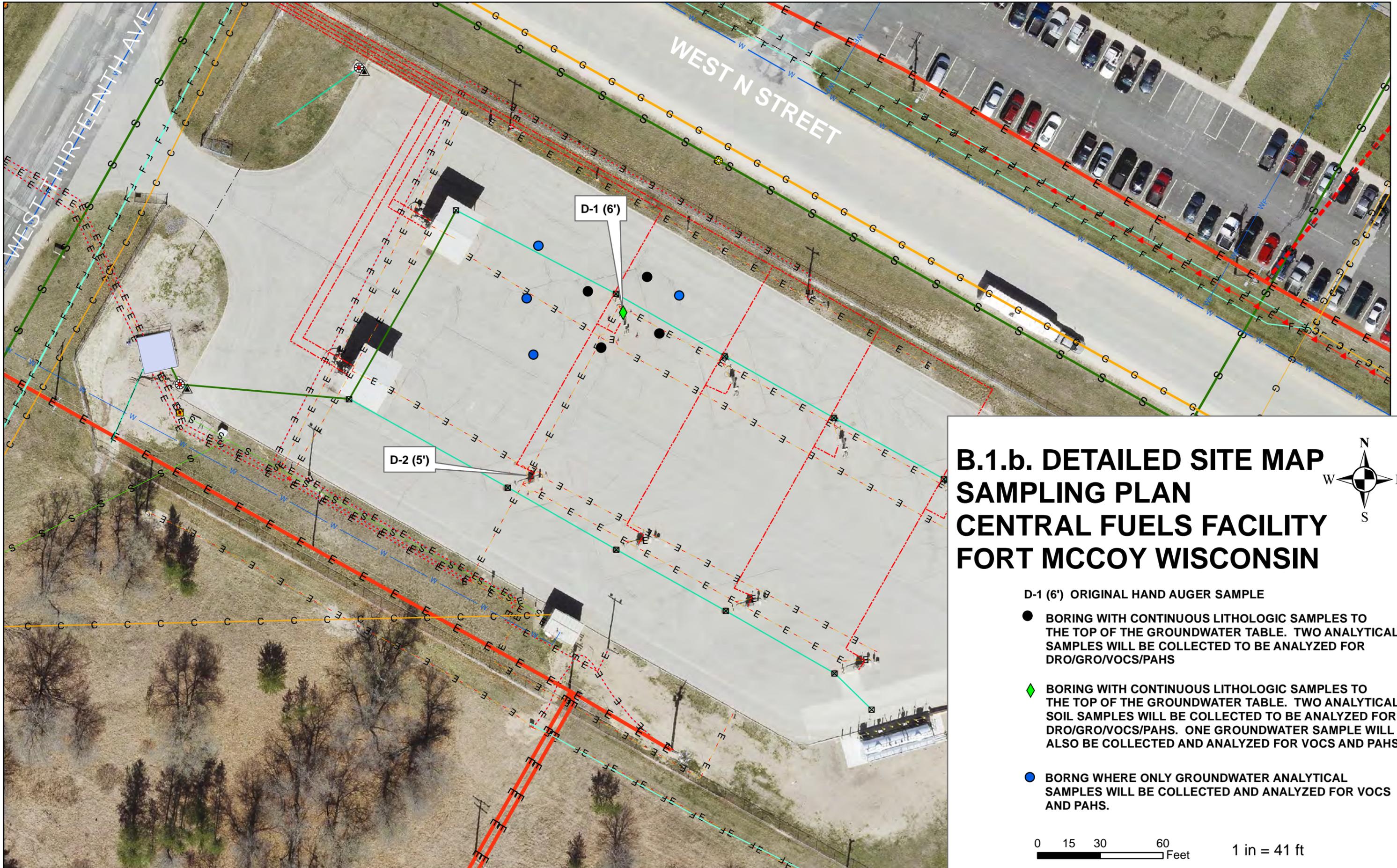
South Eighth Ave

HIGHWAY 21

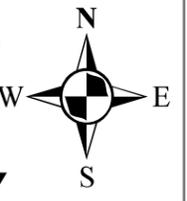
MAIN GATE

**B.1.a. SITE LOCATION MAP
LOCATION OF CENTRAL
FUELING FACILITY
FORT MCCOY, WISCONSIN**

0 1,000 2,000
Feet



B.1.b. DETAILED SITE MAP SAMPLING PLAN CENTRAL FUELS FACILITY FORT MCCOY WISCONSIN



- D-1 (6') ORIGINAL HAND AUGER SAMPLE
- BORING WITH CONTINUOUS LITHOLOGIC SAMPLES TO THE TOP OF THE GROUNDWATER TABLE. TWO ANALYTICAL SAMPLES WILL BE COLLECTED TO BE ANALYZED FOR DRO/GRO/VOCS/PAHS
- ◆ BORING WITH CONTINUOUS LITHOLOGIC SAMPLES TO THE TOP OF THE GROUNDWATER TABLE. TWO ANALYTICAL SOIL SAMPLES WILL BE COLLECTED TO BE ANALYZED FOR DRO/GRO/VOCS/PAHS. ONE GROUNDWATER SAMPLE WILL ALSO BE COLLECTED AND ANALYZED FOR VOCS AND PAHS.
- BORING WHERE ONLY GROUNDWATER ANALYTICAL SAMPLES WILL BE COLLECTED AND ANALYZED FOR VOCS AND PAHS.





B.1.c. RR SITES MAP FORT MCCOY CENTRAL FUELS FACILITY



Legend

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

0.3 0 0.15 0.3 Miles

NAD_1983_HARN_Wisconsin_TM

© Latitude Geographics Group Ltd.

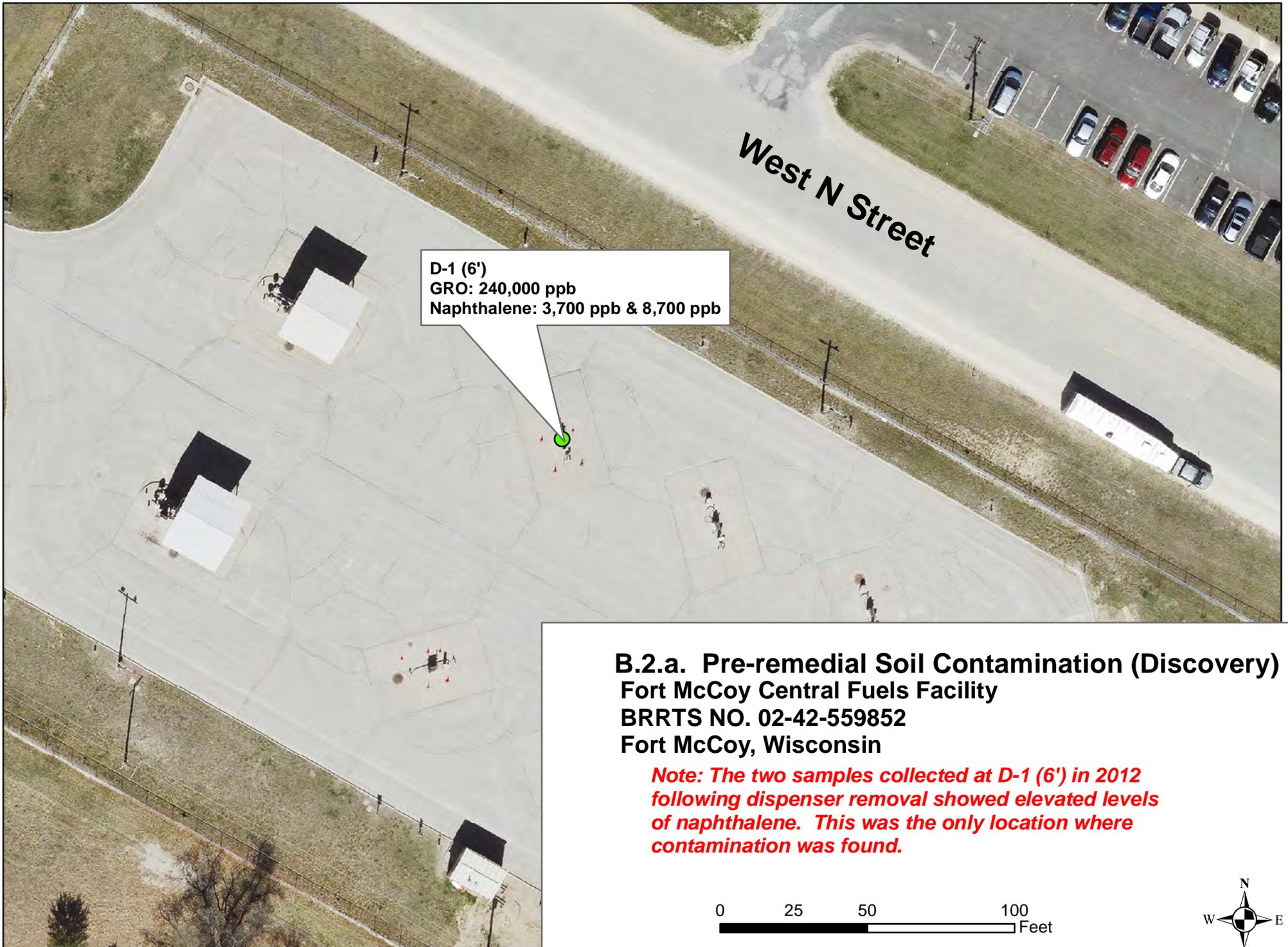
1: 9,796



DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/org/legal/>

Note: Not all sites are mapped.

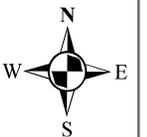
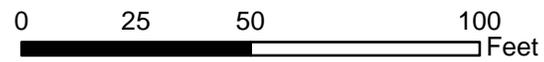
Notes



D-1 (6')
GRO: 240,000 ppb
Naphthalene: 3,700 ppb & 8,700 ppb

**B.2.a. Pre-remedial Soil Contamination (Discovery)
Fort McCoy Central Fuels Facility
BRRTS NO. 02-42-559852
Fort McCoy, Wisconsin**

Note: The two samples collected at D-1 (6') in 2012 following dispenser removal showed elevated levels of naphthalene. This was the only location where contamination was found.





-  Soil boring sampling
-  Groundwater sampling
-  Site boundary

Note: No concentrations were present in samples collected from these borings that exceed the applicable RCLS.

Basemap source: Esri

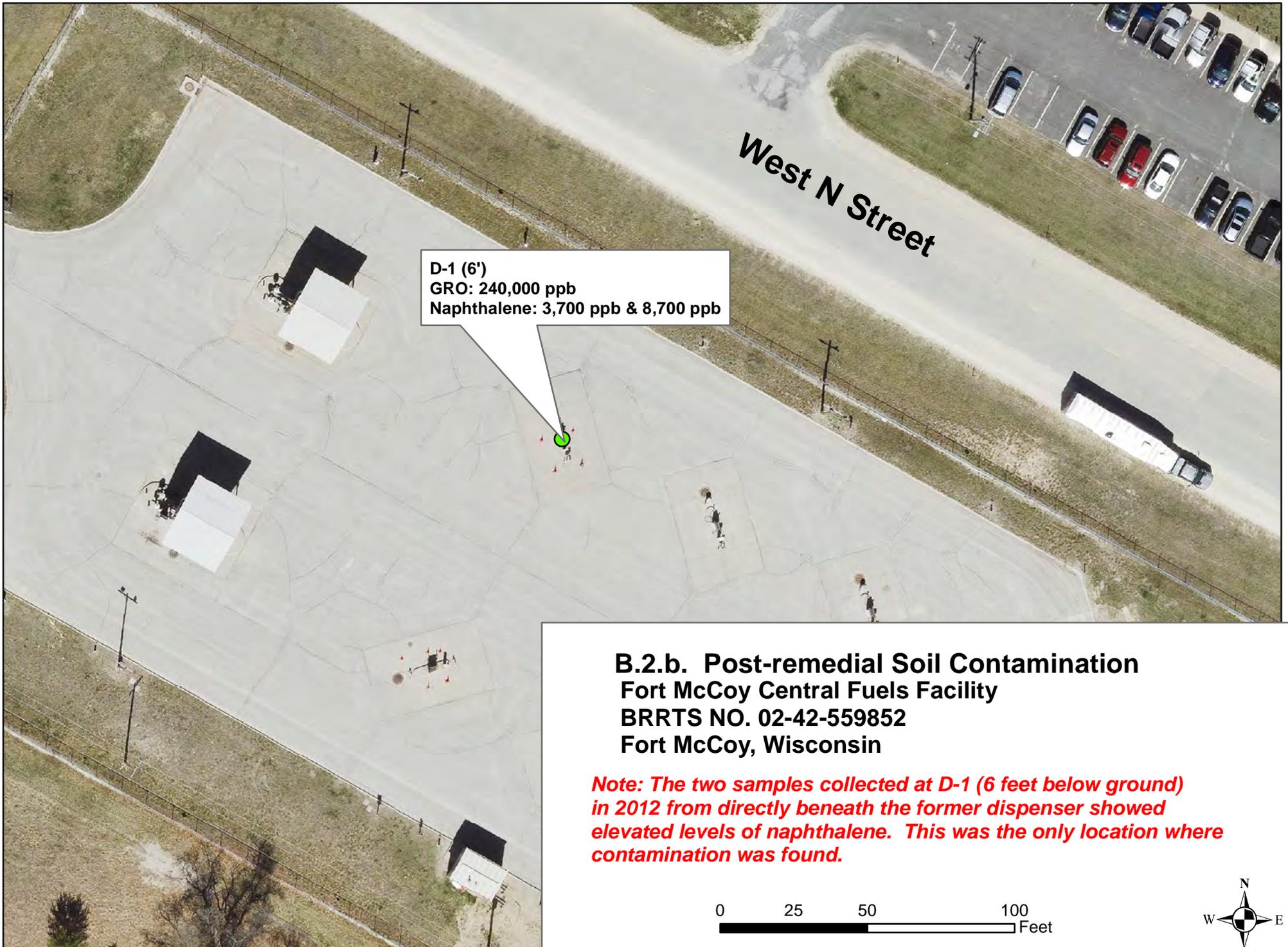
FORT MCCOY CENTRAL FUELING FACILITY
MONROE COUNTY, FORT MCCOY, WISCONSIN
SITE INVESTIGATION REPORT

FIGURE 3
SOIL BORING AND GROUNDWATER
SAMPLING LOCATIONS

B2.a. Pre-Remedial Soil Contamination (Investigation Borings)



Document path: D:\projects\FT McCoy_SIR\FT McCoy SIR soil borings & GW sampling.mxd author: ASchubert



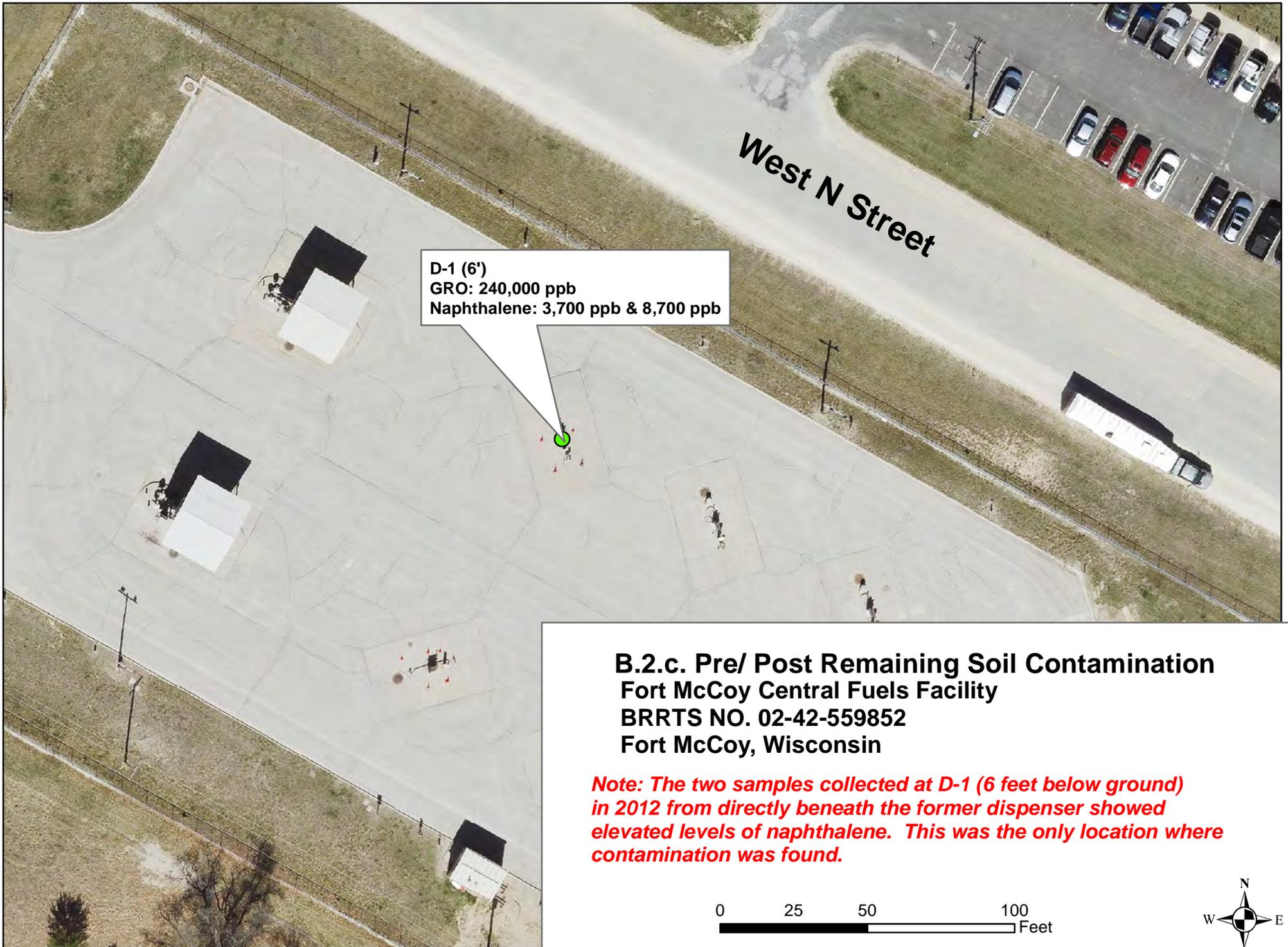
D-1 (6')
GRO: 240,000 ppb
Naphthalene: 3,700 ppb & 8,700 ppb

**B.2.b. Post-remedial Soil Contamination
Fort McCoy Central Fuels Facility
BRRTS NO. 02-42-559852
Fort McCoy, Wisconsin**

Note: The two samples collected at D-1 (6 feet below ground) in 2012 from directly beneath the former dispenser showed elevated levels of naphthalene. This was the only location where contamination was found.

0 25 50 100 Feet





D-1 (6')
GRO: 240,000 ppb
Naphthalene: 3,700 ppb & 8,700 ppb

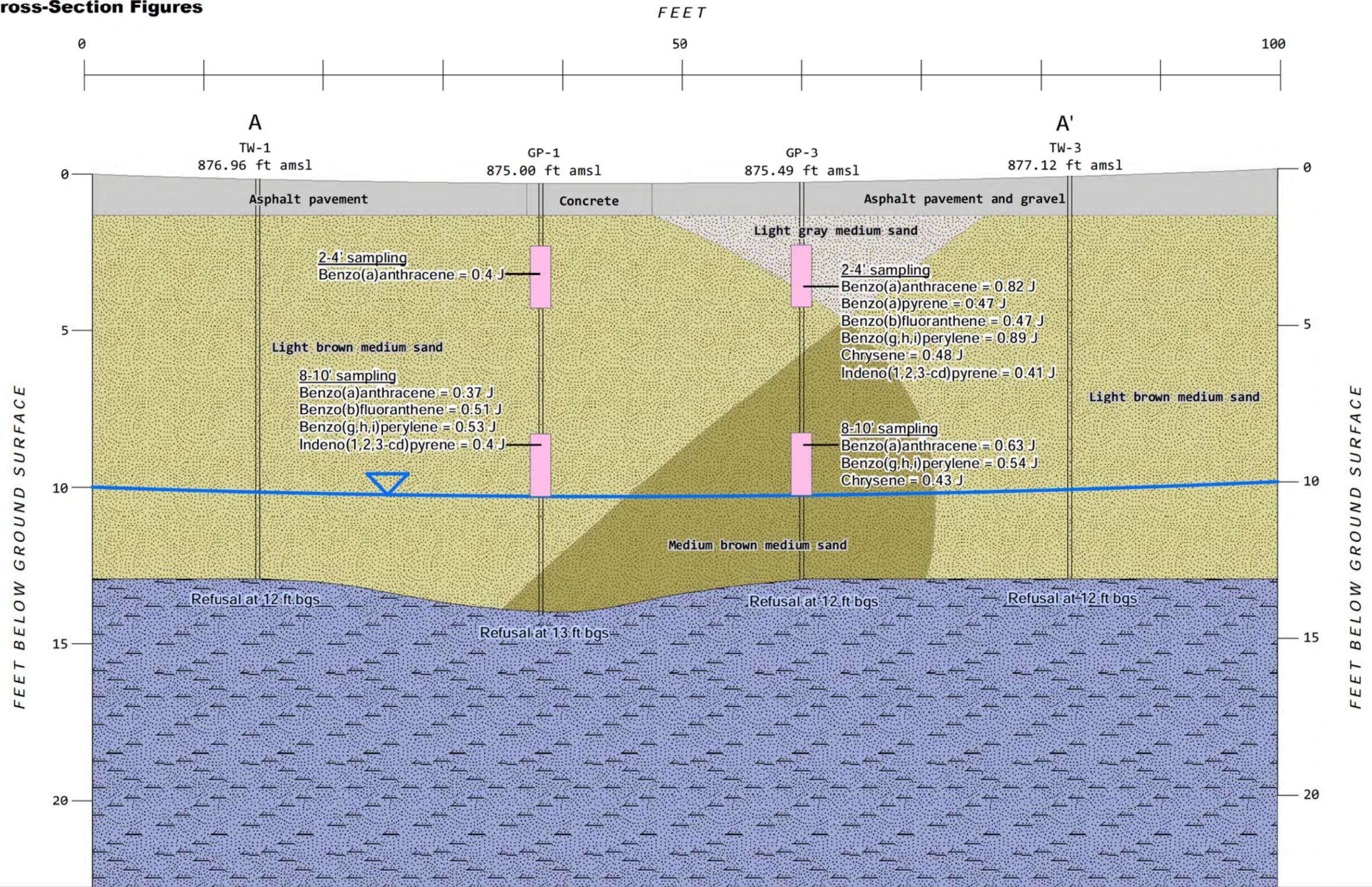
**B.2.c. Pre/ Post Remaining Soil Contamination
Fort McCoy Central Fuels Facility
BRRTS NO. 02-42-559852
Fort McCoy, Wisconsin**

Note: The two samples collected at D-1 (6 feet below ground) in 2012 from directly beneath the former dispenser showed elevated levels of naphthalene. This was the only location where contamination was found.

0 25 50 100 Feet



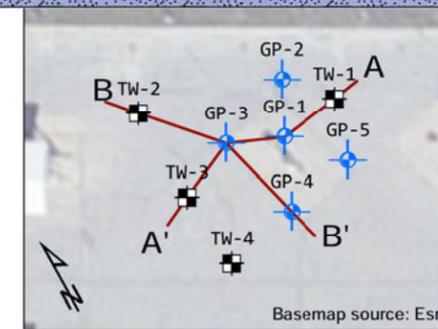
B.3.a. Geologic Cross-Section Figures



Notes:
Soil results reported in micrograms per kilogram ($\mu\text{g}/\text{mg}$).

Spatial data recorded with GPS unit.

GPS = Global Positioning System
ft amsl = feet above mean sea level
ft bgs = feet below ground surface



FORT MCCOY CENTRAL FUELING FACILITY
MONROE COUNTY, FORT MCCOY, WISCONSIN
SITE INVESTIGATION REPORT

FIGURE 4

A-A' CROSS-SECTION



B.3.b. Groundwater Isoconcentration

Not Applicable. No concentrations reported in groundwater during the field investigation exceed their respective PALs.

B.3.c. Groundwater Flow Direction

Not Applicable. No concentrations reported in groundwater during the field investigation exceed their respective PALs. Therefore, no permanent monitoring wells or piezometers were installed and groundwater elevations were not measured.

B.3.d. Monitoring Wells

Not Applicable. No concentrations reported in groundwater during the field investigation exceed their respective PALs. Therefore, no permanent monitoring wells or piezometers were installed.

B.4.a. Vapor Intrusion Map

Not applicable. No impacts above the RCLS or PALS were found at borings surrounding the former dispenser. Therefore, the volume of soil contamination remaining beneath the former dispenser is likely too small to create concentrations of vapors that are of concern.

B.4.b. Other media of concern (e.g., sediment or surface water)

Not applicable. No impacts above the RCLS or PALS were found at borings surrounding the former dispenser. Therefore, it is unlikely that sediment or surface water have been impacted.

B.4.c. Other

Not Applicable.

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 <http://dnr.wi.gov/topic/Brownfields/Contact.html>



Attachment D
Cap Maintenance Plan
Central Fuels Facility

Located at

3080 West N Street

Fort McCoy, Wisconsin

FID # 642024900

WDNR BRRTS # 02-42-559852

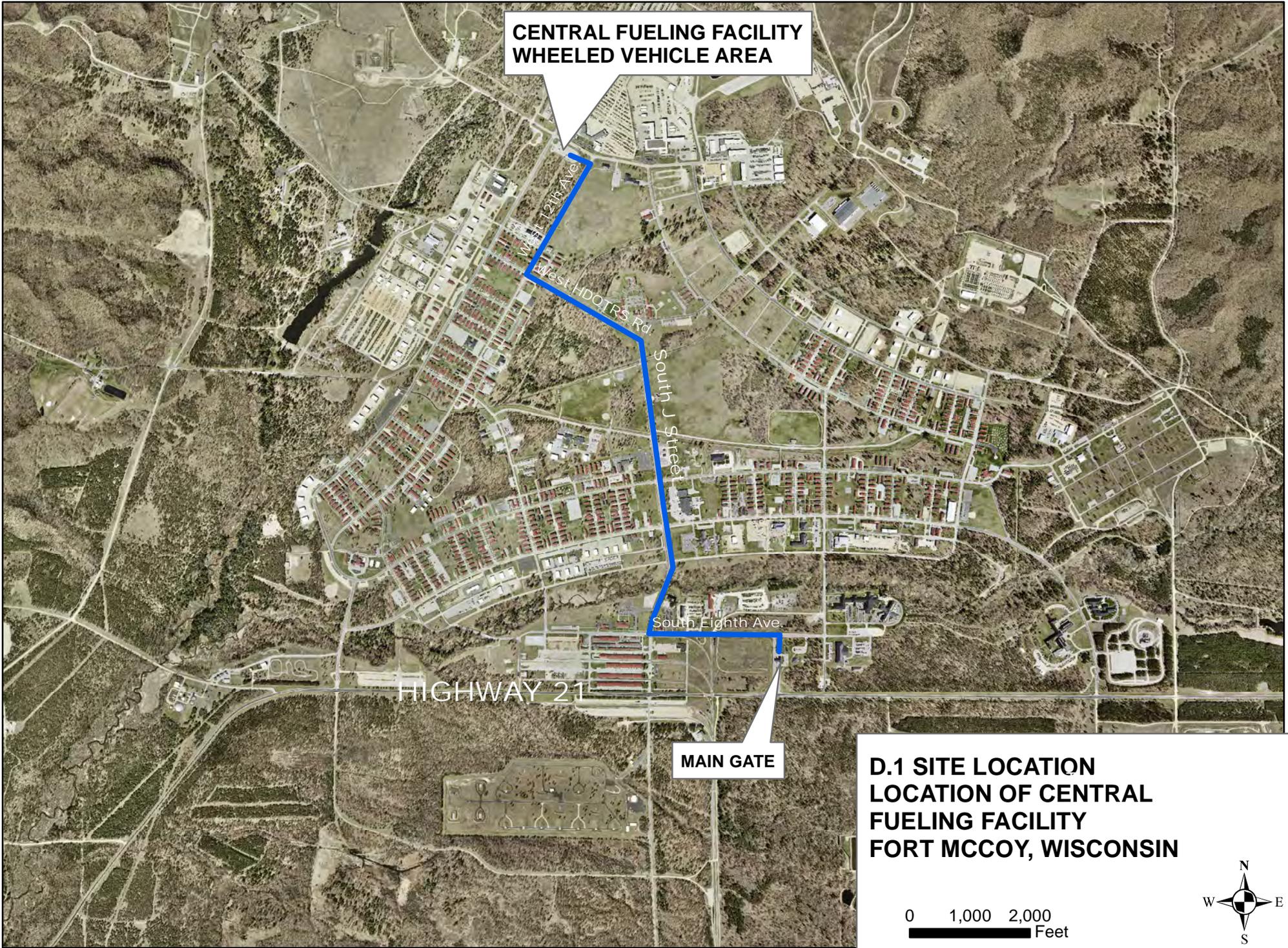
Prepared by

Department of the Army

U.S. Army Garrison
Fort McCoy, Wisconsin

2171 South 8th Avenue • Fort McCoy, WI 54656 • (608) 388-8453

November 2014



**CENTRAL FUELING FACILITY
WHEELED VEHICLE AREA**

West 12th Ave

West HDOTRS Rd

South J Street

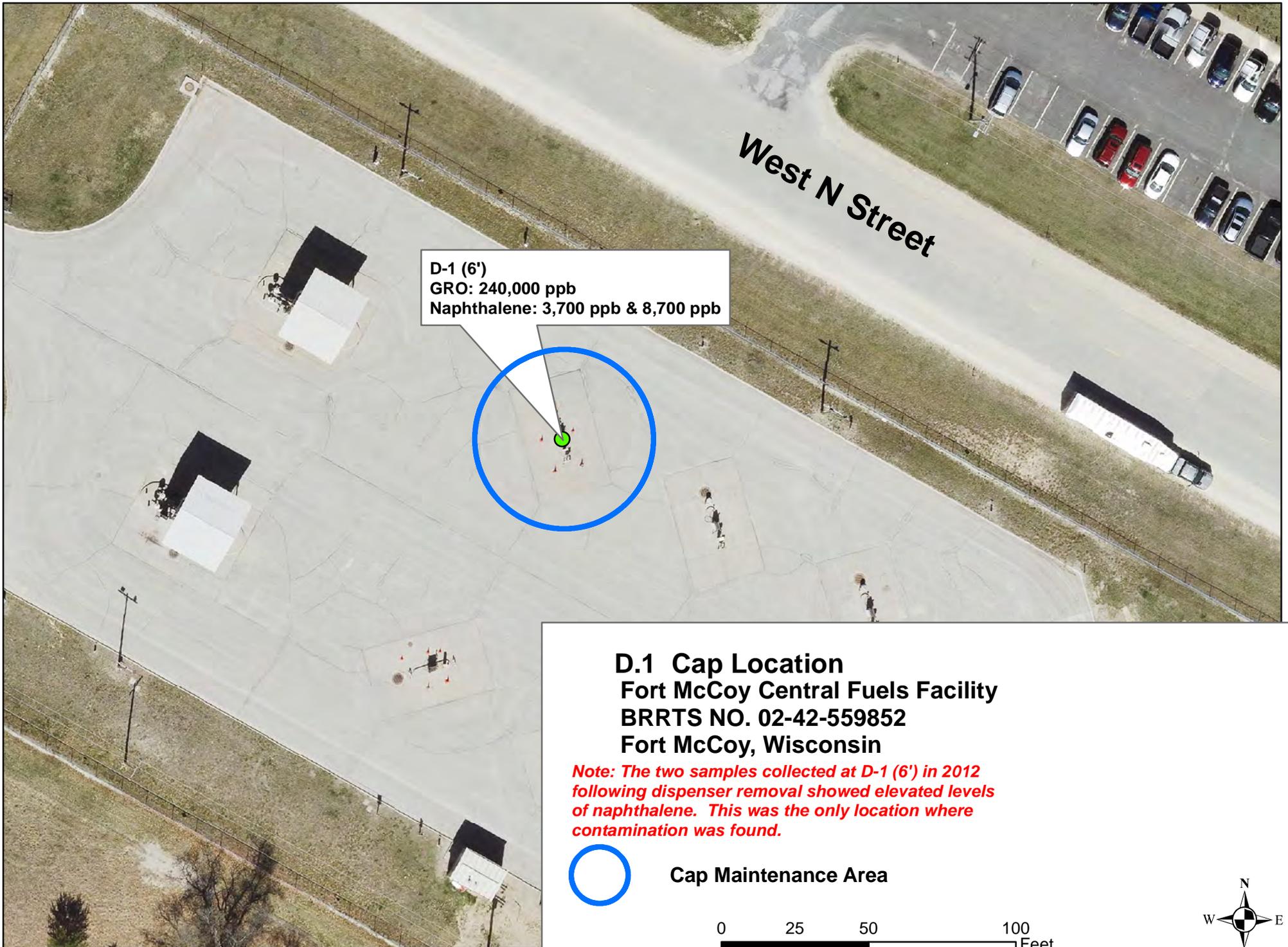
South Eighth Ave

HIGHWAY 21

MAIN GATE

**D.1 SITE LOCATION
LOCATION OF CENTRAL
FUELING FACILITY
FORT MCCOY, WISCONSIN**

0 1,000 2,000
Feet



D-1 (6')
GRO: 240,000 ppb
Naphthalene: 3,700 ppb & 8,700 ppb

**D.1 Cap Location
Fort McCoy Central Fuels Facility
BRRTS NO. 02-42-559852
Fort McCoy, Wisconsin**

Note: The two samples collected at D-1 (6') in 2012 following dispenser removal showed elevated levels of naphthalene. This was the only location where contamination was found.



Cap Maintenance Area

0 25 50 100 Feet



Introduction:

This document is the Maintenance Plan (Plan) for a soil cap for the area where contamination was detected at the Central Fuels Facility (BRRTS 02-42-559852), and has been prepared in accordance with the requirements of NR. 724.13(2), Wisconsin Administrative Code (Figures in Attachment D.1.). The maintenance activities relate to the existing concrete/asphalt cap occupying the area over the contaminated soil on-site.

More site-specific information about this property may be found in:

- The case file in the DNR West Central regional office
- BRRTS on the Web (DNR's internet based data base of contaminated sites): dnr.wi.gov/botw/SetUpBasicSearchFo
- GIS Registry PDF file for further information on the nature and extent of contamination: dnrmaps.wisconsin.gov/imf/imf.jsp?site=brrts2; and
- The DNR project manager for Monroe County.

Description of Contamination

(Form 4400-202, Attachment D.2. – brief description of the type, depth and location of residual contamination.)

Soil contaminated by naphthalene, found at concentrations of 3,700 µg/kg and 8,700 µg/kg, in the vadose zone at six feet below ground surface directly beneath the former fuel dispenser. No other constituents were reported above the applicable RCLS. As no impacts above the applicable RCLS were found at borings surrounding the former dispenser, the volume of impacted soil is small. Groundwater has not been contaminated. The capped area to be maintained is shown on the attached maps (Figures D.1.).

Description of the Cap to be maintained

The cap consists of asphalt and concrete. The area to maintain the cap is shown on the Cap Location figure in Attachment D.1 and on the photos in D.6. The capped area to be maintained extends well beyond the single sample location where contamination was discovered.

Cover Purpose

The concrete/asphalt over and extending beyond the contaminated soil will serve as an infiltration barrier to minimize future soil-to-groundwater contaminant migration that would violate the groundwater standards in NR 140, Wisconsin Administrative Code. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

Annual Inspection

The concrete/asphalt overlying the contaminated soil as depicted in Figure D.1 Cap Location, will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause additional infiltration into underlying soils and groundwater. The inspections will be performed by the Fort McCoy staff, and evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils become or are likely to become exposed and where infiltration from the surface will not be effectively minimized will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included as Exhibit B (Attachment D.4.), Cap Inspection Log. The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the

inspection log. A copy of the inspection log will be kept at the Fort McCoy Directorate of Public Works, and will be available for submittal or inspection by Wisconsin Department of Natural Resources ("WDNR") representatives upon their request, and available to all interested parties.

Maintenance Activities

(Form 4400-202, Attachment D.3. – Description of Maintenance Actions required for maximizing effectiveness of the concrete/asphalt cap.)

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. Fort McCoy will place any soil that is excavated from within 15 feet of the former dispenser into the installation's licensed storage facility for petroleum contaminated soil and disposed in accordance with applicable local, state and federal law.

In the event the asphalt/concrete cap overlying the contaminated soil is removed or replaced, the replacement barrier will be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the WDNR or its successor.

Prohibition of Activities and Notification of DNR Prior to Actions Affecting a Cover or Cap

The following activities are prohibited on the portion of the property where the concrete/asphalt cap is required as shown on the attached map (D.1), unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; or 6) construction or placement of a building or other structure.

Amendment or Withdrawal of Maintenance Plan

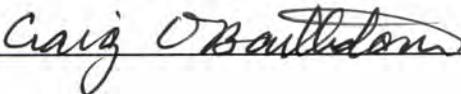
This Maintenance Plan can be amended or withdrawn by Fort McCoy and its successors with the written approval of WDNR.

November 2014 Contact Information

(Form 4400-202, Attachment D.5.) Contact Information, including the name, address and phone number of the individual or facility who will be responsible for annual inspections and arranging for required maintenance.

Site Owner and Operator: U.S. Army- Fort McCoy: Representative: Craig Bartholomew
2171 South 8th Avenue, Fort McCoy, Wisconsin 54656
(608) 388-8453

Signature:

 _____

ATTACHMENT D.6 PHOTOGRAPHS
FORT MCCOY CENTRAL FUELS FACILITY: BRRTS NO. 02-42-559852
PHOTOS TAKEN 3 NOVEMBER 2014



CAP MAINTENANCE AREA - LOOKING SOUTHWEST



CAP MAINTENANCE AREA - LOOKING SOUTH

ATTACHMENT D.6 PHOTOGRAPHS
FORT MCCOY CENTRAL FUELS FACILITY: BRRTS NO. 02-42-559852
PHOTOS TAKEN 3 NOVEMBER 2014



CAP MAINTENANCE AREA - LOOKING EAST



CAP MAINTENANCE AREA - LOOKING NORTHEAST

E. Monitoring well construction and development forms

Not applicable. Groundwater contamination was not found and no monitoring wells were installed.

F. Notifications to owners of impacted properties

Not applicable. There were no impacted off-source properties at this site.

OPINION
OF THE ATTORNEY GENERAL
THAT THE UNITED STATES OF AMERICA
IS IN POSSESSION UNDER A CLEAR AND
COMPLETE TITLE OF CERTAIN LAND SITUATED
IN THE COUNTY OF MONROE, STATE OF WISCONSIN,
DESIGNATED CAMP MC COY

DEPARTMENT OF JUSTICE

WHEREAS, Section 1.02, Chapter 1, Title 1, Wisconsin Statutes, 1949, provides that:

"Subject to the conditions mentioned in section 1.03 the legislature hereby consents to the acquisitions heretofore effected and hereafter to be effected by the United States, by gift, purchase or condemnation proceedings, of the title to places or tracts of land within the state; and, subject to said conditions, the state hereby grants, cedes and conforms to the United States exclusive jurisdiction over all such places and tracts. Such acquisitions are limited to the following purposes:

(1) To sites for the erection of forts, magazines, arsenals, dockyards, custom houses, courthouses, post offices, or other public buildings or for any purpose whatsoever contemplated by the seventeenth clause of section eight of article one of the constitution of the United States.

(2) To a tract of forty thousand acres of land in township 17 and 18 north, ranges 2 and 3 west, near Sparta, in Monroe County, to be used for military purposes as a target and maneuver range and such other purposes as the war department may deem necessary and proper.

(3) To erect thereon dams, abutments, locks, lockkeepers' dwellings, chutes, or other structures necessary or desirable in improving the navigation of the rivers or other waters within the borders of this state," and

WHEREAS, Section 1.03, Chapter 1, Title 1, Wisconsin Statutes, 1949, provides that:

"The conditions mentioned in section 1.02 are the following conditions precedent:

(1) That an application setting forth an exact description of the place or tract so acquired shall be made by an authorized officer of the United States to the governor, accompanied by a plat thereof, and by proof that all conveyances and a copy of the record of all judicial proceedings necessary to the acquisition of an unincumbered title by the United States have been recorded in the office of the register of deeds of each county in which such place or tract may be situated in whole or in part.

(2) That the ceded jurisdiction shall not vest in the United States until they shall have complied with all the requirements on their part of sections 1.02 and 1.03, and shall continue so long only as the place or tract shall remain the property of the United States.

(3) That the State shall forever retain jurisdiction over every such place or tract to the extent that all legal and military process issued under the authority of the state may be served anywhere thereon, or in any building situate in whole or in part thereon." and

WHEREAS, pursuant to said Section 1.02 the United States of America, in my opinion acquired fee simple title by purchase and condemnation proceedings to a tract of land in Townships 17, 18, and 19 North, Ranges 2 and 3 West, in Monroe County, Wisconsin; and

WHEREAS, pursuant to said Section 1.03 an exact description of the area so acquired containing 47,414.88 acres of land, more or less, and comprising a portion of the Camp McCoy military reservation, and accompanied by a plat thereof, and copies of deeds and judgments on declaration of taking certified by the Register of Deeds in the County of Monroe, in which said land is situated in whole, was submitted to the Governor of the State of Wisconsin under date of March 6, 1952.

NOW THEREFORE, it is my opinion:

1. That the United States of America is in possession of the lands and premises hereinafter particularly described for certain works or purposes provided for in the aforementioned Section 1.02 of Chapter 1, Title 1, particularly for use as a target and maneuver range and for construction of needful buildings and structures for use in connection with a military reservation officially designated as Camp McCoy, being 47,414.88 acres of land, more or less, and that such possession is under a clear and complete fee simple title, subject to existing easements for public roads and highways, public utilities, railroads and pipelines; and
2. That the land and premises that have been acquired by the United States of America for the purposes above stated are situated in the County of Monroe, State of Wisconsin, and more particularly described as follows:

All that part of Townships Seventeen (17), Eighteen (18) and Nineteen (19) North, Ranges Two (2) and Three (3) West, Fourth Principal Meridian, Monroe County, Wisconsin, more particularly described as follows:

Beginning at a point, said point being the Section corner common to Sections Twenty-seven (27), Twenty-eight (28), Thirty-three (33) and Thirty-four (34), Twp. Eighteen (18) North, Range Three (3) West; thence North along the West line of said Section Twenty-seven (27) and along the West line of Section Twenty-two (22), Twp. Eighteen (18) North, Range Three (3) West to a point in the South Quarter Quarter line of Section Twenty-one (21), Twp. Eighteen (18) North, Range Three (3) West; thence West along said Quarter Quarter line to a point in the East Quarter Quarter line of said Section Twenty-one (21); thence North along said Quarter Quarter line to a point in the East and West center line

STATE OF IOWA
COUNTY OF [illegible]
[illegible]
[illegible]

of said Section Twenty-one (21); thence East along said center line to a point in the East line of said Section Twenty-one (21); thence North along said East line and the East line of Section Sixteen (16), Twp. Eighteen (18) North, Range Three (3) West to a point in the East and West center line of said Section Sixteen (16); thence West along said center line to a point in the East Quarter Quarter line of said Section Sixteen (16); thence North along said East Quarter Quarter line and the East Quarter Quarter line of Section Nine (9), Twp. Eighteen (18) North, Range Three (3) West to a point in the South Quarter Quarter line of said Section Nine (9); thence East along said Quarter Quarter line to a point in the West line of said Section Nine (9); thence North along said West line and the West line of Section Four (4), Twp. Eighteen (18) North, Range Three (3) West, and the West lines of Sections Thirty-four (34) and Twenty-seven (27), Twp. Nineteen (19) North, Range Three (3) West to the Southeast corner of Section Twenty-one (21), Twp. Nineteen (19) North, Range Three (3) West; thence West along the South line of said Section Twenty-one (21) to the East Quarter Quarter line of said Section Twenty-one (21); thence North along said East Quarter Quarter line to a point in the North line of said Section Twenty-one (21); thence East along said North line to the Northeast corner of said Section Twenty-one (21); thence North along the West Section lines of Sections Fifteen (15) and Ten (10), Twp. Nineteen (19) North, Range Three (3) West to the Northwest corner of said Section Ten (10); thence East along the North lines of said Section Ten (10) and Section Eleven (11), Twp. Nineteen (19) North, Range Three (3) West to the West Quarter Quarter line of said Section Eleven (11); thence South along said Quarter Quarter line to a point in the East and West center line of said Section Eleven (11); thence East along said center line to a point in the North and South center line of said Section Eleven (11); thence South along said center line to a point in the South line of said Section Eleven (11); thence East along said Section line and the South Section line of Section Twelve (12), Twp. Nineteen (19) North, Range Three (3) West, to the North and South center line of said Section Twelve (12); thence North along said center line to a point in the East and West center line of said Section Twelve (12); thence East along said center line to a point in the West line of said Section Twelve (12); thence North along said West line and the West line of Section Six (6), Twp. Nineteen (19) North, Range Three (3) West, to Northwest corner of said Section Six (6); thence East along the North lines of said Section Six (6) and Sections Five (5) and Four (4), Twp. Nineteen (19) North, Range Two (2) West to the Northeast corner of said Section Four (4); thence South along the East Lines of said Section Four (4) and Section Nine (9), Twp. Nineteen (19) North, Range Two (2) West, to the East and West center line of said Section Nine (9); thence West along said center line to a point in the East Quarter Quarter line of said Section Nine (9); thence South along said Quarter Quarter line to a point in the South Quarter Quarter line of said Section Nine (9); thence East along said Quarter Quarter line to a point in the East line of said Section Nine (9); thence South along said East line and the East line of Section Sixteen (16), Township Nineteen (19) North, Range Two (2) West, to the East and West center line of Section Fifteen (15), Twp. Nineteen (19) North, Range Two (2) West; thence East along said center line to a point in the West Quarter Quarter line of said Section Fifteen (15); thence South along said Quarter Quarter line to a point in the South line of said Section Fifteen (15); thence West

along said South line to the Northeast corner of Section Twenty-one (21), Twp. Nineteen (19) North, Range Two (2) West; thence South along the East lines of said Section Twenty-one (21) and Section Twenty-eight (28), Twp. Nineteen (19) North, Range Two (2) West to the East and West center line of said Section Twenty-eight (28); thence West along said center line to a point in the East Quarter Quarter line of said Section Twenty-eight (28); thence South along said Quarter Quarter line to a point in the South Quarter Quarter line of said Section Twenty-eight (28); thence West along said Quarter Quarter line to a point in the North and South center line of said Section Twenty-eight (28); thence South along said center line and the North and South center line of Section Thirty-Three (33), Township Nineteen (19) North, Range Two (2) West to a point in the North quarter quarter line of said Section Thirty-Three (33); thence East along said quarter quarter line to the East line of the West twenty-two (22) acres of the Southwest Quarter (SW $\frac{1}{4}$) of the Northeast Quarter (NE $\frac{1}{4}$) of said Section Thirty-Three (33); thence south along said East line to a point in the East and West center line of said Section Thirty-Three (33); thence East along said center line to a point in the East line of said Section Thirty-Three (33); thence South along said East line to the South quarter quarter line of said Section Thirty-Three (33); thence West six (6) rods along said quarter quarter line to a point on a line lying six (6) rods West of and parallel to said East line of Section Thirty-Three (33); thence South along said line to a point on the Northerly line of a private road known as Franklin Road; thence northwesterly along said Northerly line of Franklin Road to the point of intersection of said Northerly line with the Southerly line of the highway which runs through the Northeast Quarter (NE $\frac{1}{4}$) of the Southeast Quarter (SE $\frac{1}{4}$) of said Section Thirty-Three (33); thence Southwesterly along said Southerly line of said highway to the intersection of said Southerly line with the Southerly line of aforesaid Franklin Road; thence Southeasterly along said Southerly line of Franklin Road to a point on a line lying six (6) rods West of and parallel to the East line of said Section Thirty-Three (33); thence South along said line to a point which is forty (40) rods North of the South line of said Section Thirty-Three (33); thence East six (6) rods to a point on the East line of said Section Thirty-Three (33); thence South along said East line to the Northeast corner of Section Four (4), Township Eighteen (18) North, Range Two (2) West; thence continuing South along the East line of said Section Four (4) to the North quarter quarter line of said Section Four (4); thence West along said quarter quarter line to a point on the North and South center line of said Section Four (4); thence South along said center line to a point in the North line of Section Nine (9), Township Eighteen (18) North, Range Two (2) West; thence West along said North line to the West quarter quarter line of said Section Nine (9); thence South along said quarter quarter line to a point in the North quarter quarter line of said Section Nine (9); thence East along said quarter quarter line to a point in the north and south center line of said Section Nine (9); thence South along said center line to a point in the North line of Section Sixteen (16), Township Eighteen (18) North, Range Two (2) West; thence West along said North line to the West quarter quarter line of said Section Sixteen (16); thence South along said quarter quarter line and the West quarter quarter line of Section Twenty-One (21), Township Eighteen (18) North, Range Two (2) West to a point in the North line of Section Twenty-Eight (28), Township Eighteen (18) North, Range Two (2) West; thence West along said North line to the Northwest corner of said Section Twenty-Eight (28); thence South along the West line of said Section Twenty-Eight (28) to the North quarter quarter line of Section Twenty-Nine (29), Township Eighteen (18) North, Range

Two (2) West; thence West one (1) rod along said quarter quarter line to a point on a line lying one (1) rod West of and parallel to the East line of said Section Twenty-Nine (29); thence South along said line to the East and West center line of said Section Twenty-Nine (29); thence West along said center line and the East and West center lines of Section Thirty (30), Township Eighteen (18) North, Range Two (2) West, and Section Twenty-Five (25), Township Eighteen (18) North, Range Three (3) West to a point on the East line of Section Twenty-Six (26), Township Eighteen (18) North, Range Three (3) West; thence South along said East line to the South quarter quarter line of said Section Twenty-Six (26); thence West along said quarter quarter line to a point on the North and South center line of said Section Twenty-Six (26); thence South along said center line and the North and South center line of Section Thirty-Five (35), Township Eighteen (18) North, Range Three (3) West to a point on the East and West center line of said Section Thirty-Five (35); thence West along said center line to a point on the West quarter-quarter line of said Section Thirty-Five (35); thence South along said quarter quarter line to a point in the Southerly right-of-way line of the Chicago, Milwaukee, St. Paul and Pacific Railroad Company; thence in a Southwesterly direction, three thousand and ten (3,010) feet, more or less, along said Southerly right-of-way line through Sections Thirty-Five (35) and Thirty-Four (34), Township Eighteen (18) North, Range Three (3) West to a point in the South line of said Section Thirty-Four (34); thence West one thousand three hundred twenty (1,320) feet, more or less, along said South line, crossing the rights-of-way of the Chicago, Milwaukee, St. Paul and Pacific Railroad Company and the Chicago and North-Western Railway Company, to a point in the North and South Center line of Section Three (3), Township Seventeen (17) North, Range Three (3) West; thence South seven hundred twenty-two (722) feet, more or less, along said center line, crossing the rights-of-way of said railway companies to a point in the aforesaid Southerly right-of-way line; thence in a Southwesterly direction along said Southerly right-of-way line to a point in the West line of said Section Three (3); thence North along said West line and the West line of Section Thirty-Four (34), Twp. Eighteen (18) North, Range Three (3) West to the South Quarter Quarter line of said Section Thirty-Four (34); thence East along said Quarter Quarter line to a point in the North and South center line of said Section Thirty-four (34); thence North along said center line to a point in the North Quarter Quarter line of said Section Thirty-four (34); thence West along said Quarter Quarter line to a point in the West Quarter Quarter line of said Section Thirty-four (34); thence North along said Quarter Quarter line to a point in the North line of said Section Thirty-four (34); thence West along said North line to the point of beginning.

Excepting from the above described parcel the Southwest Quarter (SW $\frac{1}{4}$) of the Northeast Quarter (NE $\frac{1}{4}$) of Section Six (6), Township Nineteen (19) North, Range Two (2) West; the rights-of-way of the Chicago, Milwaukee, St. Paul and Pacific Railroad Company and the Chicago and Northwestern Railway Company; and the following described parcel:

Beginning at the Southeast corner of the Southeast Quarter (SE $\frac{1}{4}$) of the Northeast Quarter (NE $\frac{1}{4}$) of Section Twenty-seven (27), Township Eighteen (18) North, Range Three (3) West; thence West Ten (10) rods along the East and West center line of said Section Twenty-seven (27); thence North Ten (10) rods; thence East Ten (10) rods; thence South Ten (10) rods, to the point of beginning.

Also, beginning at a point, said point being the Section corner common to Sections Three (3), Four (4), Nine (9) and Ten (10), Township Eighteen (18) North, Range Two (2) West; thence East along the North line of said Section Ten (10) to the East Quarter Quarter line of said Section Ten (10); thence South along said Quarter Quarter line to a point in the East and West center line of said Section Ten (10); thence West along said center line to a point in the West line of said Section Ten (10); thence North along said West line to the North Quarter Quarter line of aforesaid Section Nine (9); thence West along said Quarter Quarter line to a point in the East Quarter Quarter line of said Section Nine (9); thence North along said Quarter Quarter line to a point in the North line of said Section Nine (9); thence East along said North line to the point of beginning.

Also, beginning at a point, said point being the Section corner common to Sections Fifteen (15), Sixteen (16), Twenty-one (21) and Twenty-two (22), Township Eighteen (18) North, Range Two (2) West; thence West along the South line of said Section Sixteen (16) to the North and South center line of said Section Sixteen (16); thence North along said center line to a point in the east and west center line of said Section Sixteen (16); thence East along said center line to a point in the East Quarter Quarter line of said Section Sixteen (16); thence North along said Quarter Quarter line to a point in the North Quarter Quarter line of said Section Sixteen (16); thence East along said Quarter Quarter line to a point in the East line of said Section Sixteen (16); thence South along said East line to the point of beginning.

Also, beginning at the Northeast corner of the Northeast Quarter ($NE\frac{1}{4}$) of the Southeast Quarter ($SE\frac{1}{4}$) of Section Eighteen (18), Township Seventeen (17) North, Range Two (2) West; thence West, Fifteen (15) chains, on the Quarter line; thence South, Eight (8) chains; thence East, Fifteen (15) chains; thence North, Eight (8) chains, to the point of beginning.

Also, beginning at the Southeast corner of the Southwest Quarter ($SW\frac{1}{4}$) of the Northwest Quarter ($NW\frac{1}{4}$), Section Ten (10), Twp. Seventeen (17) North, Range Two (2) West; thence North along the West Quarter Quarter line of said Section Ten (10) to a point, said point being the center of the Northwest Quarter ($NW\frac{1}{4}$) of said Section Ten (10); thence West, along the North Quarter Quarter line of said Section Ten (10) and the North Quarter Quarter Line of Section Nine (9), Township Seventeen (17) North, Range Two (2) West, to a point, said point being the center of the Northeast Quarter ($NE\frac{1}{4}$) of said Section Nine (9); thence South, along the East Quarter Quarter line of said Section Nine (9) and the East Quarter Quarter line of Section Sixteen (16), Twp. Seventeen (17) North, Range Two (2) West, to a point in the East and West center line of said Section Sixteen (16); thence due West, along said East and West center line, to a point, said point being the center of said Section Sixteen (16); thence due North, Nine Hundred Ninety (990) feet, more or less, along the center line of said Section Sixteen (16), to a point in the South line of the North One Hundred (100) acres of the Northwest Quarter ($NW\frac{1}{4}$) of said Section Sixteen (16); thence due West, along said South line of said North One Hundred (100) acres, to a point in the West line of said Section Sixteen (16); thence due North, along said West line, to a point in the North Quarter Quarter line of Section Seventeen (17), Township Seventeen (17) North, Range Two (2) West; thence due West, along said North Quarter Quarter line, to a point in a North and South

line drawn parallel to and Sixty-four (64) rods East of the East Quarter Quarter line of said Section Seventeen (17); thence due South, Twenty (20) rods, along said North and South line, to a point; thence due West, Sixty-four (64) rods, to a point in the East Quarter Quarter line of said Section Seventeen (17); thence due South, along said East Quarter Quarter line to a point in the East and West center line of said Section Seventeen (17); thence due East, along said East and West center line, to a point in the East line of said Section Seventeen (17); thence due South, along said East line, to a point in the South Quarter Quarter line of said Section Seventeen (17); thence due West, along said South Quarter Quarter line and the South Quarter Quarter line of Section Eighteen (18), Twp. Seventeen (17) North, Range Two (2) West, and the South Quarter Quarter line of Section Thirteen (13), Twp. Seventeen (17) North, Range Three (3) West, to a point in the North and South center line of said Section Thirteen (13); thence due North, along said North and South center line, to a point, said point being the center of said Section Thirteen (13); thence due West, along the East and West center line of said Section Thirteen (13) to a point in the West Quarter Quarter line of said Section Thirteen (13); thence due North, along said West Quarter Quarter line, to a point in the North line of said Section Thirteen (13); thence due West, along said North line and the North line of Section Fourteen (14), Twp. Seventeen (17) North, Range Three (3) West, to a point in the North and South center line of said Section Fourteen (14); thence due South, One Thousand Three Hundred Twenty (1,320) feet, more or less, along said North and South center line, to a point in the North side of road running through said Section Fourteen (14); thence Northwesterly, Two Thousand Nine Hundred Fifty (2,950) feet, more or less, along the Northerly side of said road, to a point, said point being the Northwest corner of said Section Fourteen (14); thence due West, along the South line of Section Ten (10), Twp. Seventeen (17) North, Range Three (3) West, to a point in the West Quarter Quarter line of said Section Ten (10); thence due North, along said West Quarter Quarter line, to a point, said point being the center of the Southwest Quarter ($SW\frac{1}{4}$) of said Section Ten (10); thence due West, along the South Quarter Quarter line of said Section Ten (10), to a point in the west line of said Section Ten (10); thence due North, along said West line, to a point in the North Quarter Quarter line of Section Nine (9), Twp. Seventeen (17) North, Range Three (3) West; thence due West, along said North Quarter Quarter line, to a point, said point being the center of the Northeast Quarter ($NE\frac{1}{4}$) of said Section Nine (9); thence due North, along the East Quarter Quarter line of said Section Nine (9), to a point in the North line of said Section Nine (9); thence West, along said North line, to a point, said point being the intersection of the North and South center line and the South line of Section Four (4), Township Seventeen (17) North, Range Three (3) West; thence in a Southwesterly direction along said Southerly railroad right-of-way line across said Section Nine (9) and Section Eight (8), Township Seventeen (17) North, Range Three (3) West, to a point on the North line of Section Seventeen (17), Twp. Seventeen (17) North, Range Three (3) West; thence East along said North line to the Northeast corner of said Section Seventeen (17); thence South along the East line of said Section Seventeen (17) to the East and West center line of said Section Seventeen (17); thence West along said center line to a point in the North and South center line of said Section Seventeen (17); thence South along said center line to a point on the North line of Section Twenty (20), Twp. Seventeen (17) North, Range Three (3) West; thence West along said North line to the West Quarter Quarter line of

thence South along said Quarter Quarter line to a point in the South Quarter Quarter line of said Section Twenty (20); thence East along said Quarter Quarter line to a point in the North and South center line of said Section Twenty (20); thence South along said center line to a point in the North line of Section Twenty-nine (29); Twp. Seventeen (17) North, Range Three (3) West; thence West along said North line to the West Quarter Quarter line of said Section Twenty-nine (29); thence South along said Quarter Quarter line to a point in the East and West center line of said Section Twenty-nine (29); thence East along said center line to a point in the North and South center line of said Section Twenty-nine (29); thence South along said center line to a point in the South Quarter Quarter line of said Section Twenty-nine (29); thence West along said Quarter Quarter line to a point in the West Quarter Quarter line of said Section Twenty-nine (29); thence South along said Quarter Quarter line to a point in the North line of Section Thirty-two (32), Twp. Seventeen (17) North, Range Three (3) West; thence East along said North line to the North and South center line of said Section Thirty-two (32); thence South along said center line to a point in the North Quarter Quarter line of said Section Thirty-two (32); thence East along said Quarter Quarter line to a point in the West line of Section Thirty-three (33), Twp. Seventeen (17) North, Range Three (3) West; thence North along said West line to a point, said point being Four Hundred Twelve (412) feet South of the Northwest corner of said Section Thirty-three (33); thence due East Four Hundred Fifty-two (452) feet to a point; thence South Thirty-two Degrees, Forty-five Minutes East (S 32°45' E) Four Hundred Seventy (470) feet to a point; thence continuing South Forty-five Degrees, Fifteen Minutes East (S 45°15' E) Four Hundred Twenty-eight (428) feet; thence South Fifty-three Degrees, Forty-five Minutes East (S 53°45' E) Three Hundred (300) feet; thence due East Sixty (60) feet to a point in West Quarter Quarter line, said point being One Thousand Three Hundred Four (1,304) feet South of the North line of said Section Thirty-three (33), Township Seventeen (17) North, Range Three (3) West; thence South along said Quarter Quarter line to a point in the East and West center line of said Section Thirty-three (33); thence East along said center line to a point in the North and South center line of said Section Thirty-three (33); thence South along said center line to a point in the South Quarter Quarter line of said Section Thirty-three (33); thence East along said Quarter Quarter line and the South Quarter Quarter line of Section Thirty-four (34), Twp. Seventeen (17) North, Range Three (3) West, to a point in the North and South center line of said Section Thirty-four (34); thence South along said center line to a point in the South line of said Section Thirty-four (34); thence East along said South line to the Southeast corner of said Section Thirty-four (34); thence North along the East line of said Section Thirty-four (34) to the North Quarter Quarter line of said Section Thirty-four (34); thence West along said Quarter Quarter line to a point in the North Quarter Quarter line of said Section Thirty-four (34); thence North along said Quarter Quarter line to a point in the North line of said Section Thirty-four (34); thence West along said North line to the Southeast corner of Section Twenty-eight (28), Twp. Seventeen (17) North, Range Three (3) West; thence North along the East lines of said Section Twenty-eight (28) and Section Twenty-one (21), Twp. Seventeen (17) North, Range Three (3) West, to the South Quarter Quarter line of Section Twenty-two (22), Twp. Seventeen (17) North, Range Three (3) West; thence East along said Quarter Quarter line to a point in the West Quarter Quarter line of said Section Twenty-two (22); thence North along said Quarter Quarter

Quarter line to a point in the North Quarter Quarter line of said Section Fifteen (15); thence East along said Quarter Quarter line to a point in the North and South center line of said Section Fifteen (15); thence North along said center line to a point in the South line of Section Ten (10), Township Seventeen (17) North, Range Two (2) West; thence West along said South line to the Southwest corner of said Section Ten (10); thence North along the West line of said Section Ten (10) to the East and West center line of said Section Ten (10); thence East along said center line to the Southeast corner of the Southwest Quarter (SW $\frac{1}{4}$) of the Northwest Quarter (NW $\frac{1}{4}$) of said Section Ten (10), said corner being the point of beginning.

Excepting from the above described parcel the right-of-way of new U. S. Highway No. 16.

Containing within the limits above described 47,414.88 acres of land, more or less.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of the Department of Justice to be affixed this 22nd day of September, A.D., 1952.


James S. McManey
Attorney General of the United States

G.2. Certified Survey Map

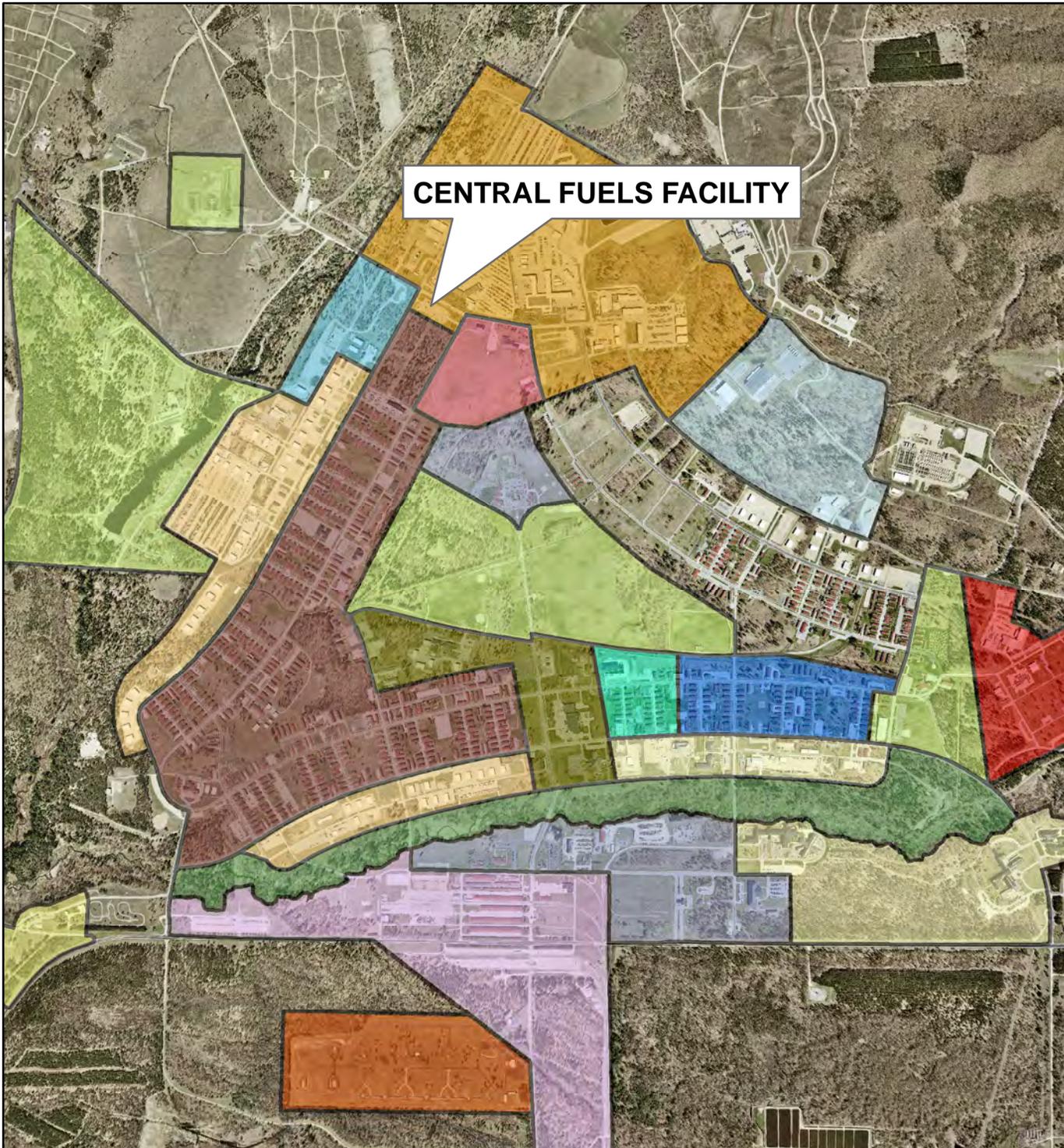
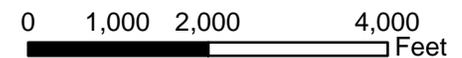
Not applicable. This property is part of Fort McCoy and no plat maps exist.

CENTRAL FUELS FACILITY

**G.3. VERIFICATION OF ZONING
CLOSURE REQUEST
FORT MCCOY
CENTRAL FUELS FACILITY
BRRTS NO. 02-42-559852**

FORT MCCOY ZONING

-  Administration
-  Airfield
-  Ammunition Supply
-  Battle Sim
-  Community Facilities
-  Education
-  Family Housing
-  Garrison Admin
-  Garrison Operations
-  Heavy Maintenance
-  Industrial (Operations)
-  Medical Training
-  Mission Support Area
-  Non-Garrison
-  Outdoor Recreation
-  Supply/Storage
-  Tarr Creek Buffer
-  Transportation
-  Troop Housing
-  Unit Maintenance





DEPARTMENT OF THE ARMY
US ARMY INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON, FORT MCCOY
2171 SOUTH 8TH AVENUE
FORT MCCOY, WI 54656-5136

November 25, 2014

Directorate of Public Works

Ms. Mae Willkom
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
1300 West Clairemont
Eau Claire, Wisconsin 54702

Dear Ms. Willkom:

I, Mandy J. Radloff, Acting Chief of the Environmental Division Fort McCoy, Wisconsin, certify that to the best of my knowledge the opinion of the Attorney General submitted with this statement for the Central Fuels Facility site (BRRTS #02-42-559852) is correct.

Sincerely,

A handwritten signature in blue ink that reads "Mandy J. Radloff".

Mandy J. Radloff
Acting Environmental Division
Chief