

**GIS REGISTRY INFORMATION**

**SITE NAME:** Volk Field Site 3  
**BRRTS #:** 02-29-250434 **FID # (if appropriate):** \_\_\_\_\_  
**COMMERCE # (if appropriate):** \_\_\_\_\_  
**CLOSURE DATE:** 10-Oct-2007  
**STREET ADDRESS:** 100 Independence Drive  
**CITY:** Camp Douglas

**SOURCE PROPERTY GPS COORDINATES** (meters in WTM91 projection): X= 497832 Y= 384401

**CONTAMINATED MEDIA:** Groundwater  Soil  Both   
**OFF-SOURCE GW CONTAMINATION >ES:**  Yes  No

**IF YES, STREET ADDRESS 1:** \_\_\_\_\_  
**GPS COORDINATES** (meters in WTM91 projection): X= \_\_\_\_\_ Y= \_\_\_\_\_

**OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):**  Yes  No

**IF YES, STREET ADDRESS 1:** \_\_\_\_\_  
**GPS COORDINATES** (meters in WTM91 projection): X= \_\_\_\_\_ Y= \_\_\_\_\_

**CONTAMINATION IN RIGHT OF WAY:**  Yes  No

**DOCUMENTS NEEDED:**

- Closure Letter, and any conditional closure letter or denial letter issued X
- Copy of any maintenance plan referenced in the final closure letter. NA
- Copy of (soil or land use) deed notice *if any required as a condition of closure* NA
- Copy of most recent deed, including legal description, for all affected properties X
- Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties X
- County Parcel ID number, *if used for county*, for all affected properties NA
- Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site. X
- Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs. X
- Tables of Latest Groundwater Analytical Results (no shading or cross-hatching) X
- Tables of Latest Soil Analytical Results (no shading or cross-hatching) X
- Isoconcentration map(s), *if required for site investigation (SI)* (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. *If not available, include the latest extent of contaminant plume map.* X
- GW: Table of water level elevations, with sampling dates, and free product noted if present X
- GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees) X
- SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour X
- Geologic cross-sections, *if required for SI.* (8.5x14' if paper copy) NA
- RP certified statement that legal descriptions are complete and accurate X
- Copies of off-source notification letters (if applicable) NA
- Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW) NA



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Matthew J. Frank, Secretary  
Scott Humrickhouse, Regional Director

Wisconsin Rapids Service Center  
473 Griffith Avenue  
Wisconsin Rapids, Wisconsin 54494  
Telephone 715-421-7800  
FAX 715-421-7830  
TTY Access via relay - 711

October 10, 2007

Capt. Mike Dunlap  
Volk Field CRTC  
100 Independence Dr.  
Camp Douglas, WI 54618-5001

SUBJECT: Final Case Closure  
Volk Field Sites 3/6, Camp Douglas, WI  
WDNR BRRTS Activity #: 02-50-250434

Dear Mr. Dunlap:

On October 10, 2007, the Department of Natural Resources reviewed your request for closure of the case described above. The Department reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. Based on the correspondence and data provided, it appears that your case meets the requirements of ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time.


Please be aware that this case may be reopened pursuant to s. NR 726.09, Wisconsin Administrative Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

### GIS Registry

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit <http://dnr.wi.gov/org/aw/rr/gis/index.htm>. If your property is listed on the GIS Registry because of remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4)(w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line <http://www.dnr.state.wi.us/org/water/dwg/3300254.pdf> or at the web address listed above for the GIS Registry.

The Department 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 me at (715) 421-7873

Sincerely,

A handwritten signature in black ink, appearing to read "Dave Rozeboom". The signature is written in a cursive style with a large, stylized initial "D".

Dave Rozeboom  
Hydrogeologist  
Bureau for Remediation & Redevelopment

cc: Michael Collentine, MWH, 6325 Odana Rd, Suite A, Madison, WI 53719

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

09 JUN 1986

(Date)

TO WHOM IT MAY CONCERN:

I HEREBY CERTIFY That the attached reproduction(s) is a (extract) copy  
of documents on file in this office.

IN TESTIMONY WHEREOF I have hereunto subscribed my name and  
caused the seal of this office to be affixed on the above day and year.

*B. E. Clark*

(Authorized Signature)

INDEXED

ENTERED

315335

Register's Office ) SS  
Juneau County, Wis. )  
Received for Record

NOV 16 1992

at 1:45 P. M. and Recorder  
in Vol. 392 of Records Page  
119-127

*John P. Kolbe*  
REGISTER OF DEEDS

Form 1270-1  
(May 1976)  
☆GPO 177-407



The United States of America

45

To all to whom these presents shall come, Greeting

Whereas by the Act of Congress approved September 28th 1850  
 titled "An Act to enable the State of Arkansas, and other States  
 to reclaim the Swamp Lands within their limits, it is provided  
 that all the Swamp and Overflowed Lands made unfit for  
 for cultivation within the State of Wisconsin which remained  
 unalienated at the passage of said Act, shall be granted to said State.  
 And Whereas in pursuance of instructions from the General  
 Land Office of the United States the Federal tracts or parcels  
 of Land hereinafter described have been selected as Swamp and  
 Overflowed Lands ensuing to the said State, under the Act aforesaid,  
 being situated in the District of Lands Subject to Sale  
 at Florida Point Wisconsin, to wit, the North East Quarter of the  
 North East Quarter of Section twelve, the North East Quarter, the  
 South East Quarter of the North West Quarter, the East Half of the  
 South West Quarter and the North West Quarter of the South East  
 Quarter of Section twenty and the West Half of the South West quarter  
 of Section twenty four, all in Township fifteen North of Range  
 two East, containing in all four Trumana and forty acres, also  
 the whole of fractional Section six, the whole of fractional Section two  
 the whole of fractional Section three, the North fractional half of  
 Section four, the West fractional half of the North West Quarter and  
 the West half of the South West Quarter of Section five, the South  
 fractional half, the North East fractional Quarter, and the South  
 fractional half of the North West Quarter of Section six, the North  
 half, the South East Quarter, and the North East Quarter of the  
 West Quarter of Section seven, the South West Quarter of the North  
 East Quarter, the North West Quarter, and the South half of Section  
 eight, the South half, and the South half of the North East Quarter  
 of Section nine, the East half of the South East Quarter, the South East  
 Quarter of the South West Quarter, the West half of the South West  
 Quarter, and the North West Quarter of the North West Quarter of  
 Section ten, the North West Quarter of the North East Quarter, the  
 South half of the North East Quarter, the South East Quarter, and  
 the West half of Section eleven, the North East Quarter, and the North  
 East Quarter of the South East Quarter, and the North East Quarter  
 of the South West Quarter, and the West half of the South West Quarter,  
 Section twelve, the North East Quarter of the North East Quarter,  
 the West half of the North East Quarter, the North West Quarter,  
 the West half of the South West Quarter, and the North East Quarter  
 of the South West Quarter of Section thirteen, the whole of Section  
 fifteen, the whole of Section sixteen, the North East Quarter, the South  
 fractional half, and the South fractional half of the North West quarter  
 of Section eighteen, the North half of the North East Quarter and  
 the North East Quarter of the North West Quarter of Section nineteen,  
 the North half, the East half of the South West Quarter, the North East  
 Quarter of the South East Quarter, and the West half of the South  
 East Quarter of Section twenty, the North West Quarter of the North  
 East Quarter, the North West Quarter, and the North West Quarter  
 of the South West Quarter of Section twenty one, the East half, the East  
 half of the North West Quarter, the North West Quarter of the North West  
 Quarter, and the North East Quarter of the South West Quarter of Section  
 twenty two, the East half of the North East Quarter, the North West  
 Quarter of the North East Quarter, the West half of the South East  
 Quarter of the South West Quarter, the West half of the North West  
 Quarter, and the South East Quarter of the North West Quarter of Section



The North East Quarter of the North East Quarter of the  
 East half the East half of the North East Quarter  
 the North West Quarter of the South West Quarter  
 the South East Quarter of the North East Quarter  
 Section thirty six all in Township twenty five North of Range  
 East containing in all seven thousand five hundred and one  
 and no parts five hundredths of an acre containing in the agree-  
 ment one hundred and twenty two thousand five hundred and thirty  
 six acres more or less to eight hundredths of an acre according to the  
 official plat of survey of the said lands returned to the General Land  
 Office in the Territory of Missouri, and in virtue of the laws of the  
 said State of Missouri on the thirteenth day of December one  
 thousand eight hundred and sixty four, request a patent to be issued to the  
 said State as provided in the above said Act.  
 Now therefore know all Men that the President of the United States  
 in consideration of the premises and in fulfillment of the duty  
 imposed upon him, has caused a patent and grant to be made  
 De Vere and Grant unto the said State of Missouri in fulfillment  
 of the Act of Congress of the Legislative thereof the words of which  
 are as follows.  
 To have and to hold the same together with all the rights  
 appurtenant and appertaining thereto unto the said  
 said State of Missouri for themselves and their heirs forever  
 In testimony whereof I have hereunto set my hand and the  
 President of the United States of America, has caused his seal to  
 be hereunto set in and the Seal of the General Land Office to be  
 hereunto set.  
 Witness my hand at the City of Washington  
 the thirty first day of May, in the year of  
 our Lord one thousand eight hundred and  
 sixty six and the Independence of the United  
 States the eighteenth.

By the President: Jefferson Davis  
 Sec'y: E. Patterson  
J. A. Grogan Recorder of the  
 Land Office

Original

LAND ATLAS & PLAT BOOK

# JUNEAU COUNTY

WISCONSIN

2005

ROBINSON MAP LIBRARY  
310 Science Hall, U.W.  
550 N. Park St.  
Madison, WI 53706-1491



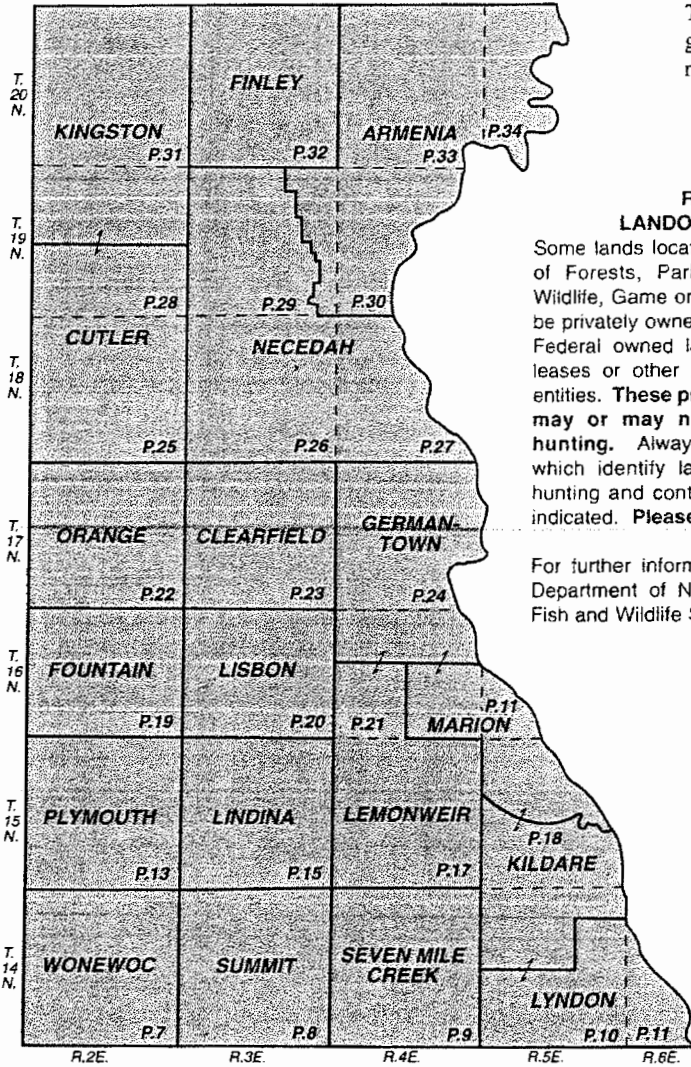
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# JUNEAU COUNTY, WISCONSIN

## INDEX MAP



The index map shows the various towns in the county as they are located geographically. The numbers on each town indicate the page number where that particular map will appear in detail.

### RESPECT LANDOWNER RIGHTS

Some lands located within the boundaries of Forests, Parks, Recreational areas, Wildlife, Game or Conservation areas may be privately owned. Also, County, State or Federal owned lands may be subject to leases or other interests held by private entities. **These privately controlled lands may or may not be open to public hunting.** Always look for posted signs, which identify lands open or closed to hunting and contact the landowner when indicated. **Please do not trespass.**

For further information contact your local Department of Natural Resources or US Fish and Wildlife Service.

### ALPHABETICAL INDEX TO TOWN MAPS

Town	Page
ARMENIA	30,33,34
CLEARFIELD	23
CUTLER	25,28
FINLEY	32
FOUNTAIN	19
GERMANTOWN	21,24
KILDARE	10,18
KINGSTON	28,31
LEMONWEIR	17,21
LINDINA	15
LISBON	20
LYNDON	10,11
MARION	11,18,21
NECEDAH	26,27,29
ORANGE	22
PLYMOUTH	13
SEVEN MILE CREEK	9
SUMMIT	8
WONEWOC	7

**LEGEND**

CIVIL TOWN BORDER ———

CONG. TWP. BORDER - - - -

## LEGEND FOR TOWN MAPS

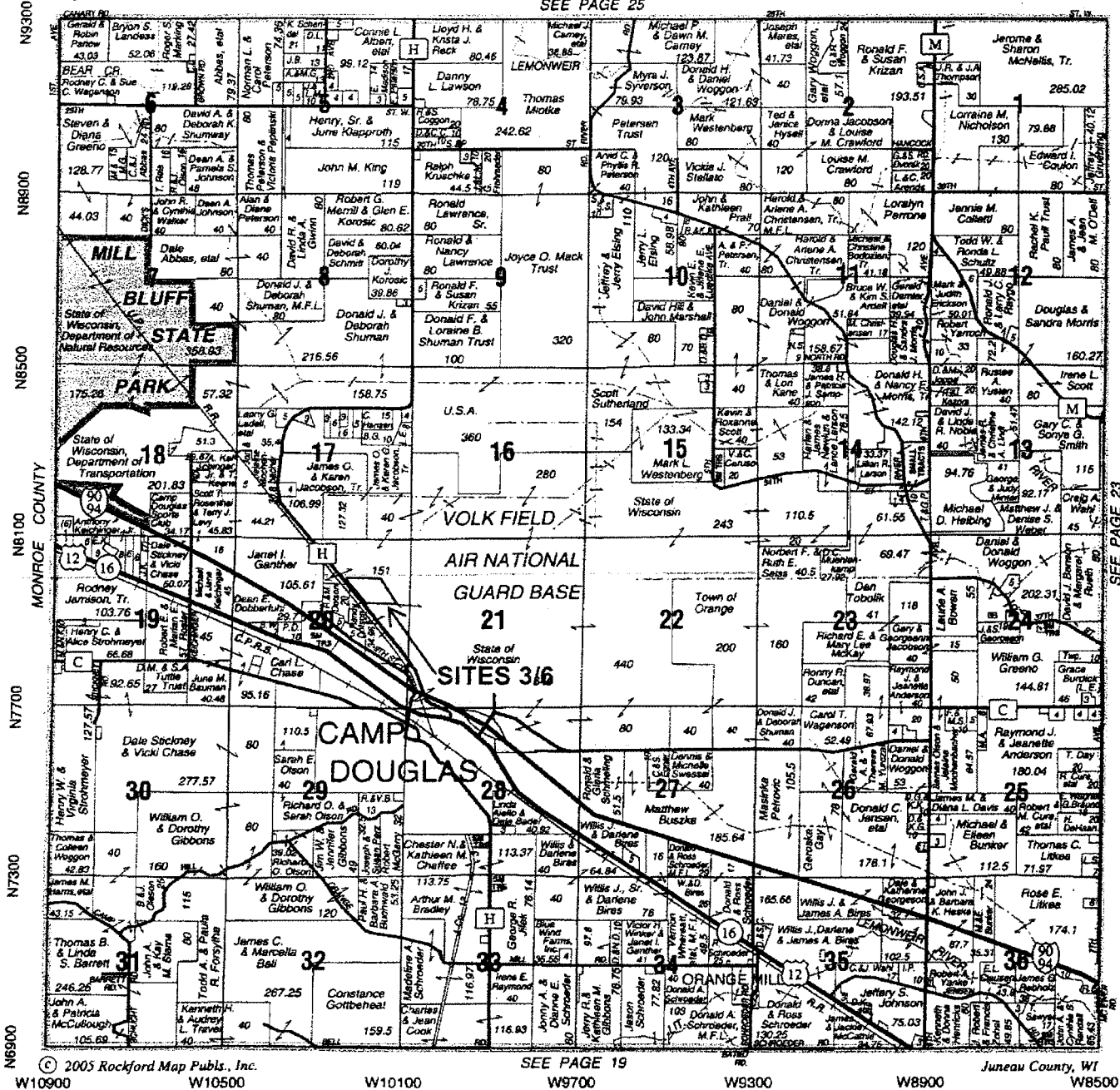
<p>COUNTY FOREST LANDS &amp; PUBLIC LANDS IN PARKS</p> <p>INTERSTATE HIGHWAY</p> <p>FEDERAL HIGHWAY</p> <p>STATE HIGHWAY</p> <p>COUNTY HIGHWAY</p> <p>OTHER ROADS</p> <p>COUNTY FOREST ROAD</p>	<p>FOREST CROP LANDS &amp; MANAGED FOREST LANDS</p> <p>RAILROAD</p> <p>STATE TRAIL</p> <p>DITCH/CANAL</p> <p>CHURCH</p> <p>SCHOOL</p> <p>CEMETERY</p> <p>INCORPORATED CITY OR VILLAGE</p>	<p>PUBLIC LANDS IN WILDLIFE REFUGE &amp; CONSERVATION AREAS</p> <p>CORPORATE LIMIT LINE</p> <p>UNINCORPORATED CITY OR VILLAGE</p> <p>SUBDIVISIONS OR AREAS OF SMALL TRACTS</p> <p>CIVIL TOWN BOUNDARY</p> <p>GOVERNMENT FACILITY BOUNDARY</p> <p>PARK BOUNDARY</p>	<p>ABBREVIATIONS</p> <p>A.K.A. ALSO KNOWN AS</p> <p>C.D. CONTRACT DEED</p> <p>C.F.L. COUNTY FOREST LANDS</p> <p>CONS. CONSERVATOR</p> <p>D.B.A. DOING BUSINESS AS</p> <p>ETAL. AND OTHERS</p> <p>ETUX. AND WIFE</p> <p>ETVIR. AND HUSBAND</p> <p>EXEC. EXECUTOR</p> <p>F.C.L. FOREST CROP LANDS</p> <p>HRS. HEIRS</p> <p>CUST. CUSTODIAN</p> <p>(L.C.) LAND CONTRACT</p> <p>(L.E.) LIFE ESTATE</p> <p>(L.U.) LIFE USE</p> <p>L.L.C. LIMITED LIABILITY COMPANY</p> <p>M.F.L. MANAGED FOREST LANDS</p> <p>R.O.W. RIGHT OF WAY</p> <p>T.F. TAX FORFEITED</p> <p>TR. TRUSTEE</p> <p>TRUST CHECK COUNTY COURTHOUSE FOR SPECIFIC INFORMATION AS TO TYPE OF TRUST</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

SCALE: 1 1/8 INCH EQUALS 1 MILE

ORANGE

T.17N.-R.2E.

SEE PAGE 25



SEE PAGE 23

SEE PAGE 19

© 2005 Rockford Map Pubs., Inc. W10900 W10500 W10100 W9700 W9300 W8900 W8500  
 Juneau County, WI

Established 1931

# OLSON EXCAVATING

Government, Commercial & Private Contracting

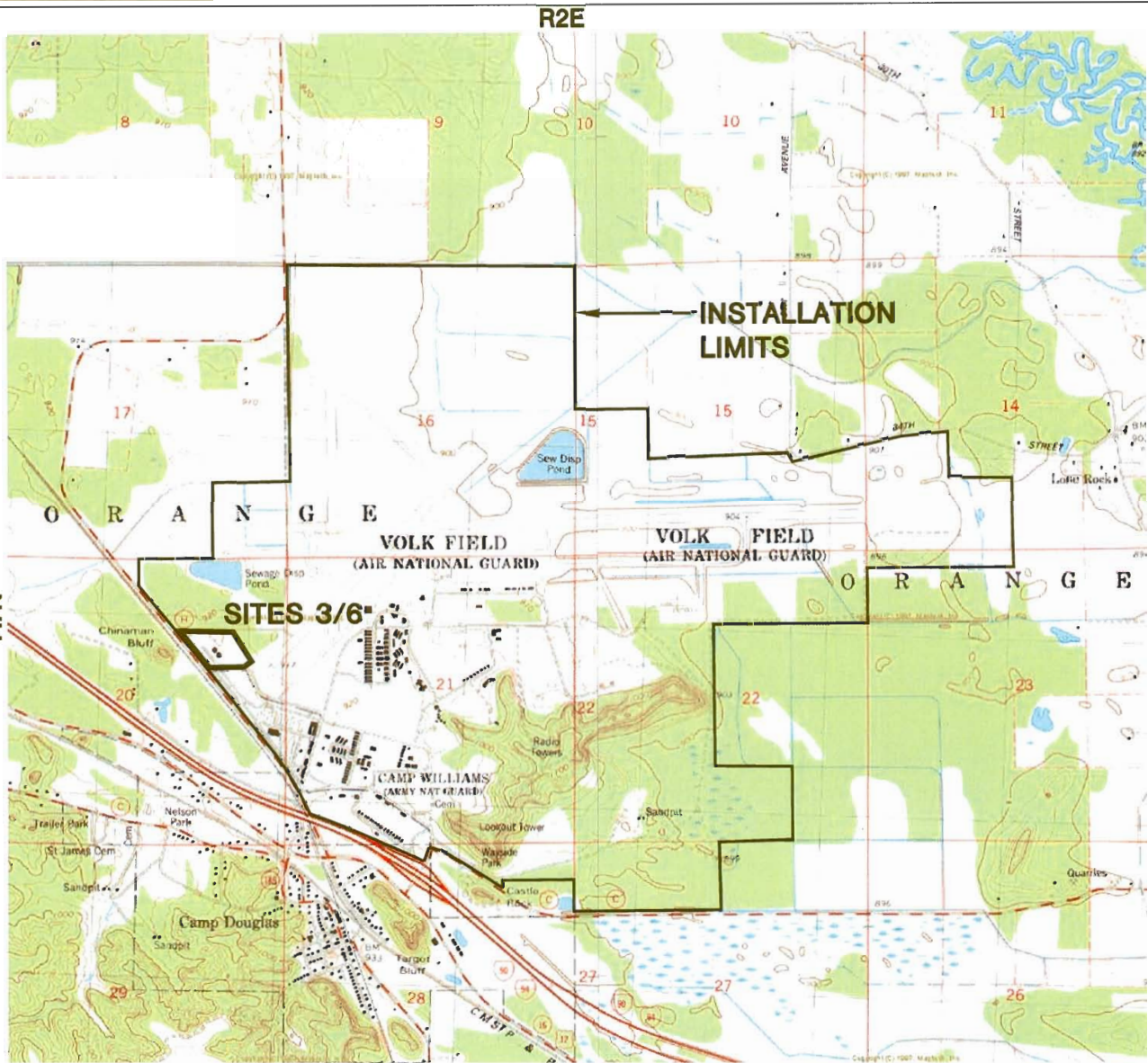
(608) 427-3377

RICHARD, SARAH & MIKE

W10391 OLSON ROAD • CAMP DOUGLAS, WISCONSIN 54618

Revised By & Date: DLF 09/12/07 Approved By & Date:

Drawn By & Date: DLF 8/7/07 Approved By & Date:



**LEGEND**

— BASE BOUNDARY LINE

**NOTE**

BASE MAP DEVELOPED FROM THE CAMP DOUGLAS AND NEW LISBON NORTH, WISCONSIN, 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAPS, DATED 1983.

WDNR GIS REGISTRY REPORT – SITES 3/6  
VOLK FIELD CRTC  
WISCONSIN AIR NATIONAL GUARD  
CAMP DOUGLAS, WISCONSIN

**VOLK FIELD CRTC LOCATION MAP**



**Table 6**  
**Summary of Groundwater Analytical Results**  
**Sites 3/6 (Chronic Fuel Spill and POL Area)**  
**Volk Field Combat Readiness Training Center**  
**Wisconsin Air National Guard**  
**Camp Douglas, Wisconsin**  
**Page 1 of 4**

Analyte	Units	NR 140		Sample Location									
		PAL	ES	VF3/6 MW-1									
Date Sampled				11/6/1990	5/12/1997	9/13/1999	12/29/1999	3/20/2000	6/6/2000	9/13/2000	8/14/2001	10/23/2002	4/23/2003
<b>Volatile Organic Compounds</b>													
Benzene	ug/L	0.5	5	<b>1,200</b>	ND	ND	<b>9.7</b>	<b>2,700</b>	ND	ND	0.12	1.8*	2.4*
n-Butylbenzene	ug/L	--	--	ND	120	19.0	12.0	ND	9.8	4.4	5.0	2.9	4.9
sec- Butylbenzene	ug/L	--	--	ND	8.5	3.0	1.7	ND	1.2	ND	ND	0.65	0.58
Chloromethane	ug/L	0.3	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ug/L	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2*
Diisopropyl ether	ug/L	--	--	ND	2	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	140	700	<b>260*</b>	6.5	6.8	0.3	<b>210*</b>	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	--	--	ND	26	3.4	1.1	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	--	--	ND	22	3.8	2.6	ND	2.3	1.2	1.0	0.80	1.10
Naphthalene	ug/L	8	40	ND	<b>120</b>	10*	ND	ND	ND	ND	ND	ND	2
n-Propylbenzene	ug/L	--	--	ND	46	3.8	1.2	ND	ND	0.62	ND	ND	1
Toluene	ug/L	200	1000	<b>4,900</b>	9.5	ND	1.7	ND	ND	1.6	1.1	1.2	ND
Styrene	ug/L	10	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3
1,2,4-Trimethylbenzene	ug/L	--	--	ND	280	30	14	180	4.2	4.4	1.8	0.99	ND
1,3,5-Trimethylbenzene	ug/L	--	--	ND	120	22	14	87	5.4	4.6	6.3	1.10	0.54
Total Trimethylbenzenes	ug/L	96	480	ND	<b>400*</b>	52	28.0	<b>267*</b>	9.6	9.0	8.1	2.09	0.54
Total Xylenes	ug/L	1000	10000	<b>1,700</b>	<b>320*</b>	12.2	4.0	<b>440*</b>	ND	ND	ND	1	ND
m&p-Xylene	ug/L	--	--	NA	120	8.0	3.9	440	ND	ND	ND	0.93	ND
o-Xylene	ug/L	--	--	NA	200	4.2	0.1	ND	ND	ND	ND	ND	ND
<b>Semi-Volatile Organics</b>													
Benzo(a)pyrene	ug/L	0.02	0.2	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Benzo(b)fluoranthene	ug/L	0.02	0.2	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	--	--	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Chrysene	ug/L	0.02	0.2	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
2,4-Dimethylphenol	ug/L	--	--	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
2,6-Dinitrotoluene	ug/L	0.005	0.05	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Diethylphthalate	ug/L	--	--	NA	ND	ND	NA	ND	NA	0.2	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	0.6	6	NA	ND	4J*	NA	7.3	NA	ND	NA	NA	NA
Di-n-butylphthalate	ug/L	--	--	NA	ND	ND	NA	ND	NA	1.4	NA	NA	NA
Di-n-octylphthalate	ug/L	--	--	NA	ND	ND	NA	ND	NA	4.9	NA	NA	NA
Dibenzofuran	ug/L	--	--	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Fluorene	ug/L	80	400	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	--	--	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Naphthalene	ug/L	8	40	NA	14J*	ND	NA	ND	NA	ND	NA	NA	NA
2-Methyl Naphthalene	ug/L	--	--	NA	ND	ND	NA	ND	NA	1.4	NA	NA	NA
2-Nitrophenol	ug/L	--	--	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Pentachlorophenol	ug/L	0.1	1	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Phenanthrene	ug/L	--	--	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Phenol	ug/L	1200	6000	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
<b>Priority Pollutant Metals</b>													
Antimony	ug/L	1.2	6.0	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Arsenic	ug/L	5	50	NA	3J	ND	NA	ND	NA	0.52J	NA	NA	NA
Beryllium	ug/L	0.4	4	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Cadmium	ug/L	0.5	5	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Chromium	ug/L	10	100	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Copper	ug/L	130	1300	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Lead	ug/L	1.5	15	ND	ND	ND	NA	ND	NA	ND	NA	NA	NA
Mercury	ug/L	0.2	2	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Nickel	ug/L	20	100	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Selenium	ug/L	10	50	NA	ND	4.32J	NA	ND	NA	ND	NA	NA	NA
Thalium	ug/L	0.4	2	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA
Zinc	ug/L	2500	5000	NA	15J	31.2	NA	ND	NA	ND	NA	NA	NA
<b>Public Welfare Parameters</b>													
Dissolved Iron	mg/L	0.15	0.3	NA	<b>8.81</b>	<b>5.2</b>	<b>20.4</b>	<b>9.4</b>	<b>0.309</b>	<b>1.97</b>	<b>1.75</b>	<b>17.2</b>	<b>10.8</b>
Dissolved Manganese	ug/L	25	50	NA	<b>942</b>	<b>403</b>	<b>1,390</b>	<b>933</b>	<b>81.2</b>	<b>221.0</b>	<b>280.0</b>	<b>1,470</b>	<b>1020</b>
Total Iron	mg/L	0.15	0.3	NA	NA	NA	NA	NA	NA	NA	NA	<b>16.9</b>	<b>18.8</b>
Total manganese	ug/L	25	50	NA	NA	NA	NA	NA	NA	NA	NA	<b>1,340</b>	<b>1150</b>
Sulfate	mg/L	125	250	NA	16.3	28.8	8.51	20.7	9.66	15.1	2.8	1.4	5.2
Alkalinity	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	210	180
Chloride	mg/L	125	250	NA	NA	NA	NA	NA	NA	NA	NA	0.99	1.3
BOD 5-day	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	4.0	5
Ammonia-N	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	0.54	0.64
Total Kjeldahl-N	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	2.2	3.1
Nitrate + Nitrite Nitrogen	mg/L	2	10	NA	0.86	0.22J	0.74	0.301	0.76	0.89	0.33	0.28	0.7

- Notes:
- POL = Petroleum, Oils, and Lubricants
  - This table presents an historical summary of the analytical results for samples collected at Sites 3/6.
  - Only detected compounds and metals are listed.
  - ug/L= micrograms per liter.
  - mg/L= milligrams per liter.
  - NR 140 = Wisconsin Administrative Code, Chapter NR 140, Public Health Groundwater Standards.
  - PAL= NR 140 Preventive Action Limits.
  - ES = NR 140 Enforcement Standard.
  - = NR 140 standards have not been established.
  - ND = Compound or metal not detected above the reporting limit.
  - J = Compound or metal was detected below the quantitation limit, concentration is estimated.
  - NA = Not analyzed.
  - \* = Concentration attains or exceeds NR 140 Preventive Action Limit (PAL).
  - Bold type face indicates the concentration exceeds the NR 140 PAL and Enforcement Standard (ES).

**Table 6**  
**Summary of Groundwater Analytical Results**  
**Sites 3/6 (Chronic Fuel Spill and POL Area)**  
**Volk Field Combat Readiness Training Center**  
**Wisconsin Air National Guard**  
**Camp Douglas, Wisconsin**  
 Page 2 of 4

Analyte	Units	NR 140		Sample Location											
		PAL	ES	VF3/6 MW-3											
Date Sampled				11/9/1989	10/27/1990	5/12/1997	9/13/1999	12/29/1999	3/20/2000	6/6/2000	9/13/2000	8/14/2001	10/23/2002	4/23/2003	
<b>Volatile Organic Compounds</b>															
Benzene	ug/L	0.5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec- Butylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ug/L	0.3	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ug/L	7	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl ether	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	140	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	8	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/L	200	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ug/L	0.02	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Trimethylbenzenes	ug/L	96	480	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	ug/L	1000	10000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	ug/L	--	--	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ug/L	--	--	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Semi-Volatile Organics</b>															
Benzo(a)pyrene	ug/L	0.02	0.2	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	0.02	0.2	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Chrysene	ug/L	0.02	0.2	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	0.005	0.05	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Diethylphthalate	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	0.6	6	NA	NA	ND	ND	NA	10.0	NA	7.1	NA	NA	NA	NA
Di-n-butylphthalate	ug/L	--	--	NA	NA	ND	ND	NA	1.9	NA	ND	NA	NA	NA	NA
Di-n-octylphthalate	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Dibenzofuran	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Fluorene	ug/L	80	400	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Naphthalene	ug/L	8	40	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
2-Methyl Naphthalene	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
2-Nitrophenol	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Pentachlorophenol	ug/L	0.1	1	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Phenanthrene	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Phenol	ug/L	1200	6000	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
<b>Priority Pollutant Metals</b>															
Antimony	ug/L	1.2	6.0	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Arsenic	ug/L	5	50	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Beryllium	ug/L	0.4	4	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Cadmium	ug/L	0.5	5	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Chromium	ug/L	10	100	NA	NA	ND	ND	NA	ND	NA	1.5J	NA	NA	NA	NA
Copper	ug/L	130	1300	NA	NA	ND	1.7J	NA	ND	NA	1.6J	NA	NA	NA	NA
Lead	ug/L	1.5	15	ND	ND	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Mercury	ug/L	0.2	2	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Nickel	ug/L	20	100	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Selenium	ug/L	10	50	NA	NA	ND	ND	NA	3.7	NA	ND	NA	NA	NA	NA
Thalium	ug/L	0.4	2	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA
Zinc	ug/L	2500	5000	NA	NA	5J	28.4	NA	ND	NA	7J	NA	NA	NA	NA
<b>Public Welfare Parameters</b>															
Dissolved Iron	mg/L	0.15	0.3	NA	NA	0.052	0.094	0.217*	0.231*	0.0198	<b>0.487</b>	<b>0.486</b>	0.09	0.0444	
Dissolved Manganese	ug/L	25	50	NA	NA	7J	11.9	<b>50.4</b>	13.3	19.9	<b>30.5*</b>	<b>19.9*</b>	11.3	5.8	
Total Iron	mg/L	0.15	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>4.72</b>	<b>7.68</b>	
Total manganese	ug/L	25	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>31.9*</b>	<b>66.4</b>	
Sulfate	mg/L	125	250	NA	NA	3.9	7.94	10.6	8.9	8.98	8.87	4.40	6.5	5.2	
Alkalinity	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	55	33	
Chloride	mg/L	125	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.7	1	
BOD 5-day	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	
Ammonia-N	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	
Total Kjeldahl-N	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.9	0.76	
Nitrate + Nitrite Nitrogen	mg/L	2	10	NA	NA	2.36*	2.65*	6.6*	9.18*	6.51*	5.72*	0.75	1.6	2.6*	

- Notes:
1. POL = Petroleum, Oils, and Lubricants.
  2. This table presents an historical summary of the analytical results for samples collected at Sites 3/6.
  3. Only detected compounds and metals are listed.
  4. ug/L= micrograms per liter.
  5. mg/L= milligrams per liter.
  6. NR 140 = Wisconsin Administrative Code, Chapter NR 140, Public Health Groundwater Standards.
  7. PAL= NR 140 Preventive Action Limits.
  8. ES = NR 140 Enforcement Standard.
  9. -- = NR 140 standards have not been established.
  10. ND = Compound or metal not detected above the reporting limit.
  11. J = Compound or metal was detected below the quantitation limit, concentration is estimated.
  12. NA = Not analyzed.
  13. \* = Concentration attains or exceeds NR 140 Preventive Action Limit (PAL).
  14. Bold type face indicates the concentration exceeds the NR 140 PAL and Enforcement Standard (ES).

**Table 6**  
**Summary of Groundwater Analytical Results**  
**Sites 3/6 (Chronic Fuel Spill and POL Area)**  
**Volk Field Combat Readiness Training Center**  
**Wisconsin Air National Guard**  
**Camp Douglas, Wisconsin**  
**Page 3 of 4**

Analyte	Units	NR 140		Sample Location												
		PAL	ES	VF3/6 MW-5										VF3/6 MW-6		
				11/9/1989	10/30/1990	5/12/1997	9/13/1999	12/29/1999	3/20/2000	6/6/2000	9/13/2000	8/14/2001	10/23/2002	4/23/2003	8/14/2001	10/23/2002
<b>Volatile Organic Compounds</b>																
Benzene	ug/L	0.5	5	7J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4*
n-Butylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	ug/L	0.3	3	ND	ND	17.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ug/L	7	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropyl ether	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	140	700	2.2J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	8	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/L	200	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	ug/L	0.02	0.2	ND	ND	2.20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Trimethylbenzenes	ug/L	96	480	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	ug/L	1000	10000	5.3J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.87
m&p-Xylene	ug/L	--	--	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.95
o-Xylene	ug/L	--	--	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.92
<b>Semi-Volatile Organics</b>																
Benzo(a)pyrene	ug/L	0.02	0.2	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	0.02	0.2	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Chrysene	ug/L	0.02	0.2	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	0.005	0.05	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Diethylphthalate	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	ug/L	0.6	6	NA	NA	ND	ND	NA	21.0	NA	1.3*	NA	NA	NA	NA	NA
Di-n-butylphthalate	ug/L	--	--	NA	NA	ND	ND	NA	1.6	NA	0.67J	NA	NA	NA	NA	NA
Di-n-octylphthalate	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	4	NA	NA	NA	NA	NA
Dibenzofuran	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Fluorene	ug/L	80	400	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Naphthalene	ug/L	8	40	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
2-Methyl Naphthalene	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
2-Nitrophenol	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Pentachlorophenol	ug/L	0.1	1	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Phenanthrene	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Phenol	ug/L	1200	6000	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
<b>Priority Pollutant Metals</b>																
Antimony	ug/L	1.2	6.0	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Arsenic	ug/L	5	50	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Beryllium	ug/L	0.4	4	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Cadmium	ug/L	0.5	5	NA	NA	0.13J	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Chromium	ug/L	10	100	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Copper	ug/L	130	1300	NA	NA	ND	2.5J	NA	5.6	NA	ND	NA	NA	NA	NA	NA
Lead	ug/L	1.5	15	ND	ND	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Mercury	ug/L	0.2	2	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Nickel	ug/L	20	100	NA	NA	ND	3.09J	NA	4.2	NA	ND	NA	NA	NA	NA	NA
Selenium	ug/L	10	50	NA	NA	ND	ND	NA	2.8	NA	ND	NA	NA	NA	NA	NA
Thalium	ug/L	0.4	2	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	NA	NA
Zinc	ug/L	2500	5000	NA	NA	ND	18.4	NA	ND	NA	ND	NA	NA	NA	NA	NA
<b>Public Welfare Parameters</b>																
Dissolved Iron	mg/L	0.15	0.3	NA	NA	ND	ND	0.028	ND	ND	ND	ND	ND	ND	ND	0.417
Dissolved Manganese	ug/L	25	50	NA	NA	472	666	1,480	1,930	113	272	432	43*	137	72.8	114
Total Iron	mg/L	0.15	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	0.928	0.444
Total manganese	ug/L	25	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,320	430	NA	155
Sulfate	mg/L	125	250	NA	NA	9.0	21.6	11.8	15.7	13.3	12.0	15.0	19.0	15	9.7	9.8
Alkalinity	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	230	230	NA	200
Chloride	mg/L	125	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.6	9	NA	10
BOD 5-day	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.0	2	NA	ND
Ammonia-N	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA	ND
Total Kjeldahl-N	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.42	0.44	NA	0.3
Nitrate + Nitrite Nitrogen	mg/L	2	10	NA	NA	34.8	14.7	14.6	14.3	7.11*	10.9	17.0	19.0	12	3.5	3.9*

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**Volk Field Combat Readiness Training Center**  
**Wisconsin Air National Guard**  
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**Page 4 of 4**

Analyte	Units	NR 140		Sample Location											
		PAL	ES	VF3/6 MW-8											
Date Sampled				10/30/1990	11/9/1990	5/12/1997	9/13/1999	12/29/1999	3/20/2000	6/6/2000	9/13/2000	8/14/2001	10/23/2002	4/23/2003	
<b>Volatile Organic Compounds</b>															
Benzene	ug/L	0.5	5	2,200	U	2,100	2,800	5000	6100	3000	570	2100	2,200	2,900	
n-Butylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	120	35	ND	ND	72	56	
sec- Butylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloromethane	ug/L	0.3	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	ug/L	7	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Diisopropyl ether	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	ug/L	140	700	130J	U	130	200*	300*	510*	220*	37	150*	280*	370*	
Isopropylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	ND	14	ND	ND	ND	ND	
p-Isopropyltoluene	ug/L	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Naphthalene	ug/L	8	40	ND	ND	ND	ND	ND	140	76	ND	44	ND	190	
n-Propylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	59	20	ND	ND	ND	ND	
Toluene	ug/L	200	1000	ND	170	ND	ND	ND	ND	ND	12	ND	ND	75	
Vinyl chloride	ug/L	0.02	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	ug/L	--	--	ND	ND	ND	90	180	300	120	31	60	120	170	
1,3,5-Trimethylbenzene	ug/L	--	--	ND	ND	ND	ND	ND	130	46	ND	71	97	63	
Total Trimethylbenzenes	ug/L	96	480	ND	ND	ND	90	ND	430*	166*	31	131*	217	133*	
Total Xylenes	ug/L	1000	10000	130J*	U	180*	230*	600*	990	368.7	92	ND	510	620	
m&p-Xylene	ug/L	--	--	NA	ND	180*	230*	600*	990	360	92	210	510	620	
o-Xylene	ug/L	--	--	NA	ND	ND	ND	ND	ND	8.7	ND	ND	ND	ND	
<b>Semi-Volatile Organics</b>															
Benzo(a)pyrene	ug/L	0.02	0.2	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	
Benzo(b)fluoranthene	ug/L	0.02	0.2	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	
Benzo(g,h,i)perylene	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	
Chrysenes	ug/L	0.02	0.2	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	
2,4-Dimethylphenol	ug/L	--	--	NA	NA	2J	ND	NA	7.1	NA	5.1	NA	NA	NA	
2,6-Dinitrotoluene	ug/L	0.005	0.05	NA	NA	ND	ND	NA	5.6	NA	ND	NA	NA	NA	
Diethylphthalate	ug/L	--	--	NA	NA	ND	1J	NA	2.5	NA	ND	NA	NA	NA	
bis(2-Ethylhexyl)phthalate	ug/L	0.6	6	NA	NA	5.9*	ND	NA	12.0	NA	8	NA	NA	NA	
Di-n-butylphthalate	ug/L	--	--	NA	NA	ND	ND	NA	1.5	NA	ND	NA	NA	NA	
Di-n-octylphthalate	ug/L	--	--	NA	NA	ND	ND	NA	2.6	NA	ND	NA	NA	NA	
Dibenzofuran	ug/L	--	--	NA	NA	ND	ND	NA	1.5	NA	ND	NA	NA	NA	
Fluorene	ug/L	80	400	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	
Indeno(1,2,3-cd)pyrene	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	
Naphthalene	ug/L	8	40	NA	NA	54	87	NA	130	NA	1.9	NA	NA	NA	
2-Methyl Naphthalene	ug/L	--	--	NA	NA	ND	25	NA	63	NA	0.41J	NA	NA	NA	
2-Nitrophenol	ug/L	--	--	NA	NA	ND	ND	NA	ND	NA	0.28J	NA	NA	NA	
Pentachlorophenol	ug/L	0.1	1	NA	NA	ND	ND	NA	0.85*	NA	ND	NA	NA	NA	
Phenanthrene	ug/L	--	--	NA	NA	ND	ND	NA	0.86	NA	ND	NA	NA	NA	
Phenol	ug/L	1200	6000	NA	NA	13	39	NA	23	NA	26	NA	NA	NA	
<b>Priority Pollutant Metals</b>															
Antimony	ug/L	1.2	6.0	NA	NA	ND	ND	NA	2.9*	NA	2.1*J	NA	NA	NA	
Arsenic	ug/L	5	50	NA	NA	9*	13.3*	NA	12*	NA	1.3J	NA	NA	NA	
Beryllium	ug/L	0.4	4	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	
Cadmium	ug/L	0.5	5	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	
Chromium	ug/L	10	100	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	
Copper	ug/L	130	1300	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	
Lead	ug/L	1.5	15	ND	U	ND	ND	NA	ND	NA	ND	NA	NA	NA	
Mercury	ug/L	0.2	2	NA	NA	ND	ND	NA	ND	NA	ND	NA	NA	NA	
Nickel	ug/L	20	100	NA	NA	ND	2.62J	NA	5.6	NA	ND	NA	NA	NA	
Selenium	ug/L	10	50	NA	NA	ND	ND	NA	3.5	NA	ND	NA	NA	NA	
Thalium	ug/L	0.4	2	NA	NA	ND	ND	NA	4.1	NA	ND	NA	NA	NA	
Zinc	ug/L	2500	5000	NA	NA	7J	33.7	NA	10.9	NA	ND	NA	NA	NA	
<b>Public Welfare Parameters</b>															
Dissolved Iron	mg/L	0.15	0.3	NA	NA	37.8	41.1	72	50.9	43.0	0.633	31.6	30.6	37.3	
Dissolved Manganese	ug/L	25	50	NA	NA	1,260	2,110	3,090	1,920	2,040	116	1,350	2,490	1510	
Total Iron	mg/L	0.15	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	57.2	60.5	
Total manganese	ug/L	25	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,460	1520	
Sulfate	mg/L	125	250	NA	NA	2.6	8.7	2.66	3.17	5.92	5.47J	3.4	1.7	1.8	
Alkalinity	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	230	250	
Chloride	mg/L	125	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	12	
BOD 5-day	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	31	18	
Ammonia-N	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4	2	
Total Kjeldahl-N	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.2	3.8	
Nitrate + Nitrite Nitrogen	mg/L	2	10	NA	NA	0.27	0.16J	ND	ND	0.21	1.84J	0.9	1.3	0.62	

**Notes:**

1. POL = Petroleum, Oils, and Lubricants.
2. This table presents an historical summary of the analytical results for samples collected at Sites 3/6.
3. Only detected compounds and metals are listed.
4. ug/L = micrograms per liter.
5. mg/L = milligrams per liter.
6. NR 140 = Wisconsin Administrative Code, Chapter NR 140, Public Health Groundwater Standards.
7. PAL = NR 140 Preventive Action Limits.
8. ES = NR 140 Enforcement Standard.
9. -- = NR 140 standards have not been established.
10. ND = Compound or metal not detected above the reporting limit.
11. J = Compound or metal was detected below the quantitation limit, concentration is estimated.
12. NA = Not analyzed.
13. \* = Concentration attains or exceeds NR 140 Preventive Action Limit (PAL).
14. Bold type face indicates the concentration exceeds the NR 140 PAL and Enforcement Standard (ES).

**Table 2**  
**Summary of Soil Analytical Results**  
**Sites 3/6 (Chronic Fuel Spill And POL Areas)**  
**Volk Field Combat Readiness Training Center**  
**Wisconsin Air National Guard**  
**Camp Douglas, Wisconsin**  
**and**  
**Hardwood Range**  
**Wisconsin Air National Guard**  
**Juneau County, Wisconsin**  
**Page 1 of 2**

Analyte	Unit	Generic NR 720 RCL	Sample Location and Depth (feet bgs)							
			VF3/6 B-1	VF3/6 B-1	VF3/6 SB-1		VF3/6 SB-2		VF3/6 B-3	
			(1)	(3.5)	(1)	(5)	(1)	(5)	(0.5)	(6)
Date Sampled			10/14/88	10/16/88	10/14/90	10/16/90	10/14/90	10/16/90	10/14/90	10/16/90
Ethylbenzene	ug/Kg	2900	ND	16	U	U	U	U	U	U
Toluene	ug/Kg	1500	ND	ND	12	U	U	U	U	U
Xylenes	ug/Kg	4100	ND	220	U	U	U	U	U	U
Lead <sup>(1)</sup>	mg/Kg	500	2.9	1.3	3.8	0.57	5.3	2.6	14	0.87
Total Petroleum Hydrocarbons	mg/Kg	--	310	ND	36000	36	320	5000	U	U

Analyte	Unit	Generic NR 720 RCL	Sample Location and Depth (feet bgs)							
			VF3/6 SB-4		VF3/6 SB-5	VF3/6 SB-6	VF3/6 SB-7	VF3/6 SB-8	VF3/6 SB-9	VF3/6 SB-10
			(0.5)	(7)	(6)	(6)	(6)	(6)	(5)	(3)
Date Sampled			10/14/90	10/16/90	10/16/90	10/16/90	10/17/90	10/17/90	10/17/90	10/17/90
Ethylbenzene	ug/Kg	2900	U	U	8900	U	U	U	U	U
Toluene	ug/Kg	1500	U	U	U	U	U	U	U	U
Xylenes	ug/Kg	4100	U	U	U	U	U	U	U	U
Lead <sup>(1)</sup>	mg/Kg	500	2.9	0.82	5.6	9	0.74	1.7	4	2.6
Total Petroleum Hydrocarbons	mg/Kg	--	U	U	5600	63	U	14	12	17



**Table 2**  
**Summary of Soil Analytical Results**  
**Sites 3/6 (Chronic Fuel Spill And POL Areas)**  
**Volk Field Combat Readiness Training Center**  
**Wisconsin Air National Guard**  
**Camp Douglas, Wisconsin**  
**and**  
**Hardwood Range**  
**Wisconsin Air National Guard**  
**Juneau County, Wisconsin**  
**Page 2 of 2**

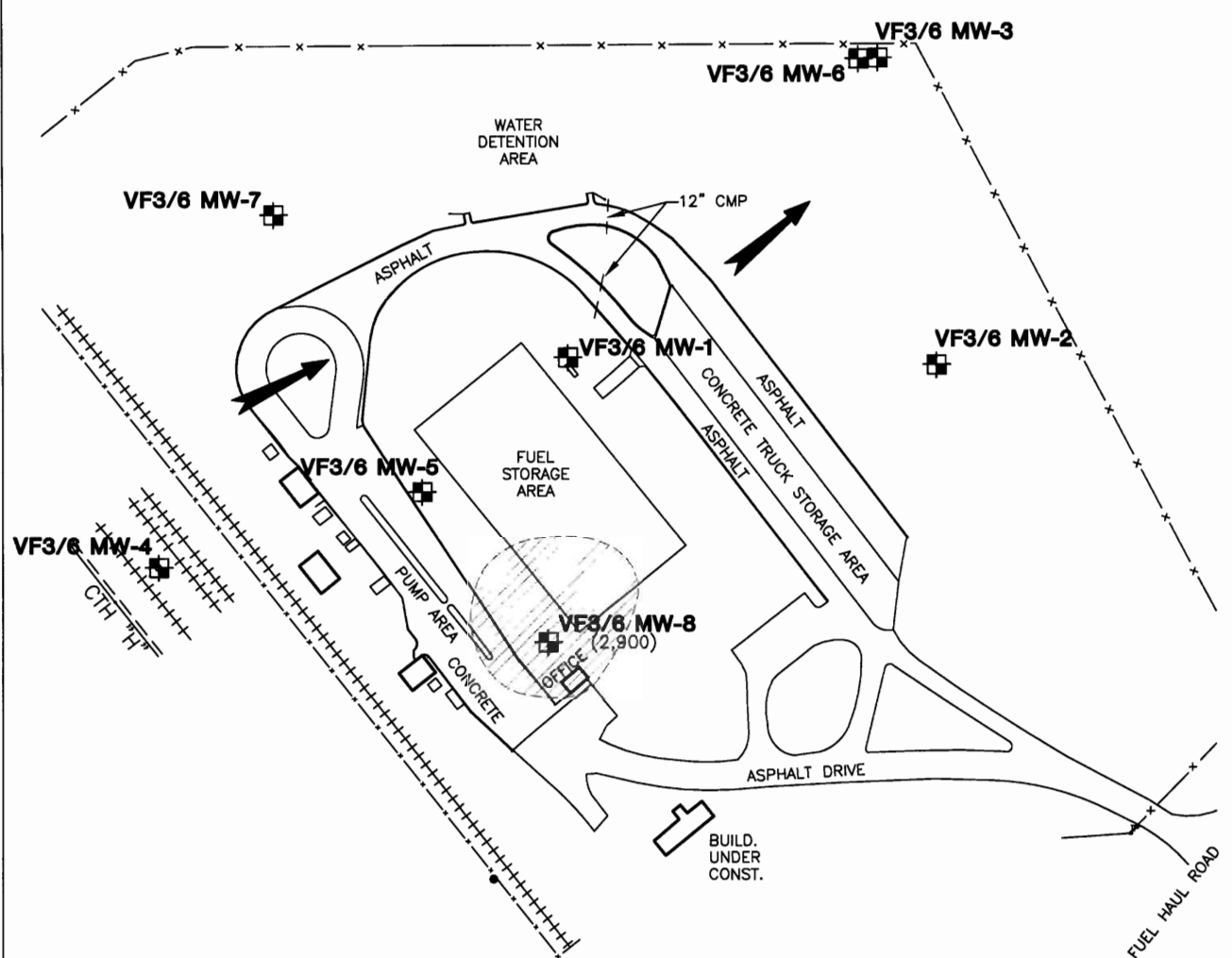
Analyte	Unit	Generic NR 720 RCL	Sample Location and Depth (feet bgs)					
			VF3/6 SB-11 (6)	VF3/6 SB-12 (4)	VF3/6 SB-13 (6)	VF3/6 SB-14 (6)	VF3/6 SB-15 (8)	VF3/6 SB-16 (6)
Date Sampled			11/7/90	11/7/90	11/7/90	11/7/90	11/7/90	11/7/90
Ethylbenzene	ug/Kg	2900	U	U	U	U	U	U
Toluene	ug/Kg	1500	U	U	U	U	U	<b>73000</b>
Xylenes	ug/Kg	4100	U	U	U	U	U	<b>110000</b>
Lead <sup>(1)</sup>	mg/Kg	500	1.5	2.4	0.65	0.54	10	1.1
Total Petroleum Hydrocarbons	mg/Kg	--	38	35	51	44	56	3400

- Notes: 1. This table presents a historical summary of the analytical results for soil samples collected at site 3/6.  
2. Generic NR 720 RCL = Wisconsin Administrative Code, Chapter NR 720, Soil Cleanup Standards, Residual Contaminant Level.  
3. PCB = Polychlorinated biphenyls.  
4. -- = NR 720 RCL not established.  
5. ND = Compound or metal not detected.  
6. U = Compound or metal detected below the detection limit.  
7. Concentrations in bold attain or exceed NR 720 RCLs.

Footnote:

(1) = Concentrations were compared to NR 720 Table 2 Industrial values.

Revised By & Date: DLF 09/17/07 Approved By & Date:  
 Drawn By & Date: DLF 9/11/07 Approved By & Date:

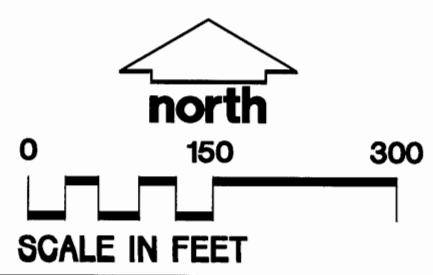


**LEGEND**

- FENCE
- RAILROAD
- VF3/6 MW-8**  
(2,900) MONITORING WELL LOCATION AND NUMBER, WITH BENZENE RESULT(S) IN µg/L
- APPROXIMATE EXTENT OF VOC AND SVOC GROUNDWATER CONTAMINATION WITH NR140 ENFORCEMENT STANDARD EXCEEDANCES (APRIL, 2003)
- GROUNDWATER FLOW DIRECTION - APRIL, 2003

**NOTES**

1. BASE MAP DEVELOPED FROM A TOPOGRAPHIC SURVEY DRAWING OF VOLK FIELD CRTc, SITE 3/6, CAMP DOUGLAS, WISCONSIN, BY KL ENGINEERING, INC., DATED JUNE, 1997.
2. MONITORING WELL MW-1 INSTALLED IN 1988.
3. MONITORING WELLS MW-2, MW-3, MW-4, MW-5 AND MW-6 INSTALLED IN 1989.
4. MONITORING WELLS MW-7 AND MW-8 INSTALLED IN 1990.



WDNr GIS REGISTRY REPORT - SITES 3/6  
 VOLK FIELD CRTc  
 WISCONSIN AIR NATIONAL GUARD  
 CAMP DOUGLAS, WISCONSIN  
**SITE 3/6 - CHRONIC FUEL SPILL AREA**  
**EXTENT OF GROUNDWATER CONTAMINATION (April 2003)**

**FIGURE 4**

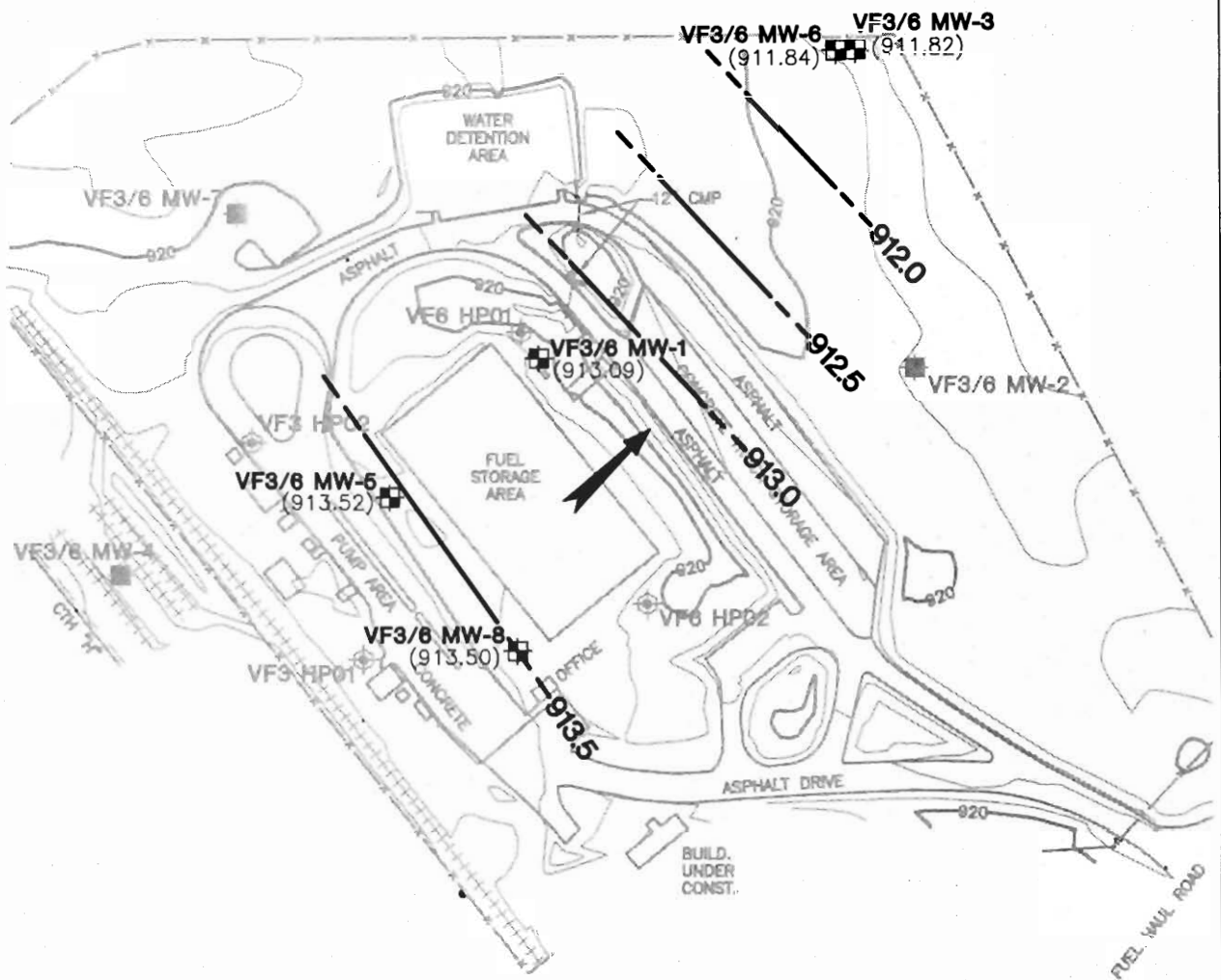
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**Table 5**  
**Summary of Groundwater Elevations**  
**Sites 3/6 (Chronic Fuel Spill Area and POL Area)**  
**Volk Field Combat Readiness Training Center**  
**Wisconsin Air National Guard**  
**Camp Douglas, Wisconsin**  
**Page 1 of 1**

Well Number	Ground Surface Elevation (ft-msl)	Top of Casing Elevation (ft-msl)	Top of Screen Elevation (ft-msl)	Bottom of Screen Elevation (ft-msl)	Groundwater Elevation 5/5/97 (ft-msl)	Groundwater Elevation 9/15/99 (ft-msl)	Groundwater Elevation 12/29/99 (ft-msl)	Groundwater Elevation 3/20/00 (ft-msl)	Groundwater Elevation 6/6/00 (ft-msl)	Groundwater Elevation 9/13/00 (ft-msl)	Groundwater Elevation 8/14/01 (ft-msl)	Groundwater Elevation 1/8/02 (ft-msl)	Groundwater Elevation 10/23/02 (ft-msl)	Groundwater Elevation 4/23/03 (ft-msl)
VF3/6 MW-1	920.7	922.38	914.2	899.2	914.23	912.47	911.69	911.62	915.34	913.84	913.00	912.81	913.76	913.09
VF3/6 MW-2	921.2	923.27	915.2	900.2	913.11	911.61	910.87	910.73	914.01	912.61	AB	AB	AB	AB
VF3/6 MW-3	921.5	923.44	915.5	900.5	912.74	911.09	910.45	910.34	913.95	912.15	911.65	911.47	912.37	911.82
VF3/6 MW-4	922.6	924.77	916.6	901.6	915.28	913.35	912.71	912.60	916.05	914.61	AB	AB	AB	AB
VF3/6MW-5	922.0	924.17	916.0	901.0	914.66	912.99	912.08	911.94	915.15	914.07	913.67	913.26	914.31	913.52
VF3/6MW-6	921.2	922.96	871.2	861.2	912.75	911.02	910.45	910.32	913.72	912.17	911.58	911.43	912.32	911.84
VF3/6MW-7	920.5	922.40	912.5	897.5	914.79	912.52	911.99	911.96	916.08	914.10	AB	AB	AB	AB
VF3/6MW-8	921.2	923.38	913.2	898.2	914.55	913.16	912.17	911.95	914.84	914.14	913.85	913.35	914.41	913.50

Note:

1. POL = Petroleum, Oils, and Lubricants
2. ft msl = feet above mean sea level datum
3. AB = well abandoned

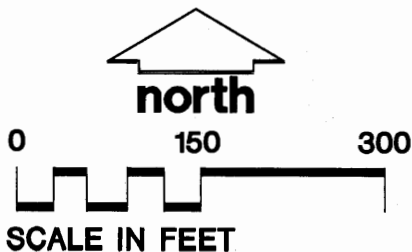


**LEGEND**

- FENCE
- RAILROAD
- VF3/6 MW-1**  
(913.09) MONITORING WELL LOCATION, NUMBER, AND WATER TABLE ELEVATION
- VF3/6 MW-2**  
ABANDONED WELL SEE NOTE NUMBER 6
- VF6 HP-01** HYDRAULIC PROBE LOCATION AND NUMBER
- 920 GROUND CONTOUR
- 913.0** WATER TABLE CONTOUR (CONTOUR INTERVAL: 0.5 FT, DASHED WHERE INFERRED)
- GENERAL DIRECTION OF GROUNDWATER FLOW

**NOTES**

1. BASE MAP DEVELOPED FROM A TOPOGRAPHIC SURVEY DRAWING OF VOLK FIELD CRTG, SITE 3/6, CAMP DOUGLAS, WISCONSIN, BY KL ENGINEERING, INC., DATED JUNE, 1997.
2. MONITORING WELL MW-1 INSTALLED IN 1988.
3. MONITORING WELLS MW-2, MW-3, MW-4, MW-5 AND MW-6 INSTALLED IN 1989.
4. MONITORING WELLS MW-7 AND MW-8 INSTALLED IN 1990.
5. GROUND CONTOUR INTERVAL IS ONE FOOT.
6. WELLS VF3/6 MW-2, VF3/6 MW-4, AND VF3/6 MW-7 ABANDONED BY ENVIRONMENTAL AND FOUNDATION DRILLING JULY 2001.
7. WATER LEVELS MEASURED BY MWH ON APRIL 23, 2003.
8. GROUNDWATER ELEVATION FOR PIEZOMETER MW6 SHOWN BUT NOT CONTOURED.



WDNR GIS REGISTRY REPORT - SITES 3/6  
VOLK FIELD CRTG  
WISCONSIN AIR NATIONAL GUARD  
CAMP DOUGLAS, WISCONSIN

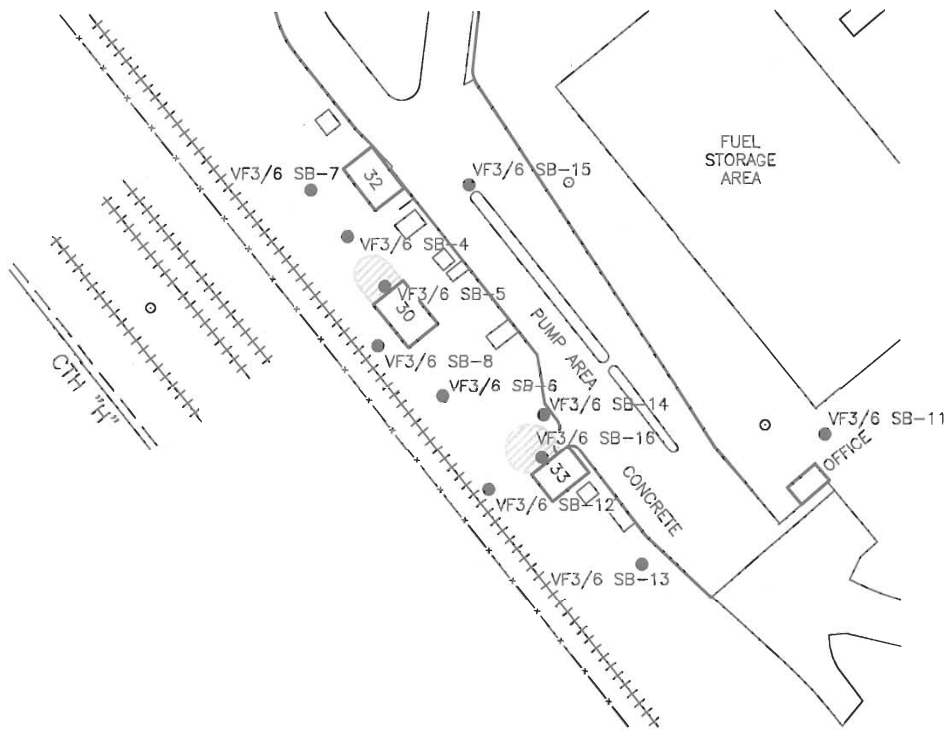
**SITE 3/6 - CHRONIC FUEL SPILL AREA AND POL AREA  
WATER TABLE MAP (APRIL 23, 2003)**

**FIGURE 2**

**MWH**

Revised By & Date: DLF 09/12/07 Approved By & Date:

Drawn By & Date: DLF 9/12/07 Approved By & Date:

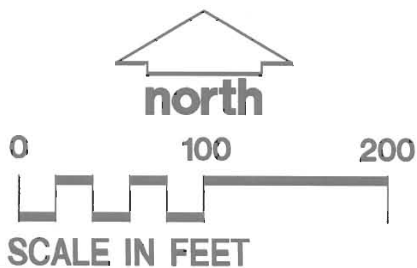


**LEGEND**

- x---x---x--- FENCE
- +++++ RAILROAD
- VF3/6 SB-8 SOIL BORING LOCATION AND NUMBER
- ◐ APPROXIMATE AREAL EXTENT OF SOIL CONTAMINATION WITH NR720 RCL EXCEEDANCES OF MEASURED BETX AND METALS
- ◻ 32 BUILDING

**NOTES**

1. BASE MAP DEVELOPED FROM A TOPOGRAPHIC SURVEY DRAWING OF VOLK FIELD CRTG. SITE 3/6, CAMP DOUGLAS, WISCONSIN, BY KL ENGINEERING, INC., DATED JUNE, 1997.
2. SOIL BORING LOCATIONS FROM REMEDIAL INVESTIGATION REPORT, ENGINEERING-SCIENCE INC., SEPTEMBER 1993.
3. SOIL BORINGS VF3/6 SB-1 THROUGH VF3/6 SB-16 PERFORMED BY ENGINEERING-SCIENCE INC., 1989.



WDNR GIS REGISTRY REPORT - SITES 3/6  
 VOLK FIELD CRTG  
 WISCONSIN AIR NATIONAL GUARD  
 CAMP DOUGLAS, WISCONSIN  
**SITE 3/6 - CHRONIC FUEL SPILL AREA AND POL AREA  
 EXTENT OF SOIL CONTAMINATION (1989)**

**FIGURE 10**





**MWH**

10 August 2007

Capt. Michael Dunlap  
Environmental Manager  
Wisconsin Air National Guard – Volk Field CRTC  
100 Independence Dr.  
Camp Douglas, WI 54618-5001

Re: Confirmation of Legal Property Description for Sites 3/6  
Volk Field CRTC  
Camp Douglas, WI

Dear Captain Dunlap:

On behalf of the Wisconsin Air National Guard (WIANG), MWH is compiling the needed information for Volk Field sites 3/6 to be registered on the Wisconsin Department of Natural Resources (WDNR) Geographic Information System public database (for closed sites).

As part of the information packet provided for GIS registry, the WDNR requires a statement by the responsible party (RP) confirming that the copy of the deed and any location maps (provided to the WDNR) are accurate.

Enclosed for your review and signatory confirmation is the following:

- A copy of the deed encompassing sites 3/6
- A cropped portion of a USGS map labeling the location of sites 3/6
- An excerpt from the 2005 Juneau County Plat Book.
- A statement for you to sign (on WIANG's behalf) confirming the accuracy of the deed and associated maps.

The copy of the deed provided to you is a certified copy obtained from the Juneau County Register of Deeds Office. As you will notice, this historic and very old deed is marginally legible. Its origins date back to the Federal Swamp Land Act of September 28<sup>th</sup>, 1850, which granted large tracts of swamp and overflowed land to various states (including Wisconsin) previously held by the federal government. The actual deed is dated September 28<sup>th</sup> and likely 1865 (the last digit of the year cannot be confirmed). This is likely a reauthorization of the Act on its anniversary. This deed documents large tracts of Wisconsin land being granted to the State. The top half of the second page of the deed (Vol. 392 Page 121) discusses the transfer of land parcels pertinent to Volk Field.

Please complete and sign the attached statement and return to MWH at the address listed below. Based on recent email correspondence, if you prefer to have Mr. Edwin Walter (Real Estate Property Manager) sign the attached statement, please forward the enclosed information to him. MWH will then include this statement in the packet of information provided to the WDNR.

6325 Odana Road  
Suite A  
Madison, Wisconsin  
53719-1154

Tel: 608-310-5400  
Fax: 608-310-5399

*Delivering Innovative Projects and Solutions Worldwide*

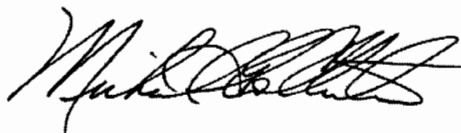
Please contact us if you have any questions or comments regarding this request.

Sincerely,

MWH AMERICAS, INC.



John R. Marchewka  
Project Engineer



Michael G. Collentine  
Project Manager

Enclosures: Copy of Deed encompassing sites 3/6  
Cropped portion of a USGS map labeling the location of sites 3/6  
Excerpt from the 2005 Juneau County Plat Book.  
Confirmation Statement for inclusion into the GIS registry packet.

cc: File

JRM/jrm/MGC  
L:\JOBS\209\1012\75\GIS Regis\_deedconfm cvrltr.doc  
2091012.751804 MAD-1

Volk Field CRTIC – Site 3/6, Camp Douglas, WI  
WDNR BRRTS # 02-29-257894

In fulfillment of Wisconsin Department of Natural Resources' requirements for site registry onto their GIS public database (for closed sites); the legal descriptions attached to this statement are complete and accurate for all of the properties within or partially within the contaminated site's boundaries that have groundwater contamination exceeding ch. NR 140 enforcement standards at the time that closure is requested.

Attachments:

- Legal description of property, as recorded in the Juneau County (WI) Register of Deeds office for Sites 3/6 of Volk Field.
- USGS 7.5 Minute Quadrangle Map (cropped portion)
- Page 22 of the 2005 Juneau County Plat Book containing Volk Field

By signing below, the Responsible Party has acknowledged that the legal property description and site location map are current and accurate for the site of interest.

Name (Print): Edwin C. Watten

Title / Position: Real Estate Specialist

Signature: 

Date: 9/4/2007