GIS REGISTRY INFORMATION

SITE NAME: USFS - Forestry Sciences Laboratory

BRRTS #: 02-44-000480 FID # (if appropriate):

COMMERCE # (if appropriate):

CLOSURE DATE: 10/5/05

STREET ADDRESS: 5985 CTH K

CITY: Rhinelander

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): X= 560535 Y= 573631

CONTAMINATED MEDIA: Groundwater [ ] Soil [X] Both [ ]

OFF-SOURCE GW CONTAMINATION >ES: [ ] Yes [X] 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 [X] No

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection): X= Y=

CONTAMINATION IN RIGHT OF WAY: [ ] Yes [X] No

DOCUMENTS NEEDED:

Closure Letter, and any conditional closure letter issued [X]

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 on deed [X]

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) N/A [ ]

RP certified statement that legal descriptions are complete and accurate [X]

Copies of off-source notification letters (if applicable) N/A [ ]

Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW) N/A [ ]

Copy of (soil or land use) deed restriction(s) or deed notice *if any required as a condition of closure* N/A [ ]

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
John Gozdzialski, Regional Director

Northern Region Headquarters
107 Sutliff Ave.
Rhinelander, Wisconsin 54501-3349
Telephone 715-365-8900
FAX 715-365-8932
TTY Access via relay - 711

October 7, 2005

Mr. Rob Doudrick
Acting Station Director
USDA Forest Service North Central Research Station
1992 Folwell Ave
St. Paul, MN 55108

SUBJECT: Final Case Closure By Closure Committee
USFS Forestry Sciences Laboratory, 5985 CTH K, Rhinelander, WI
WDNR BRRTS #:02-44-000480

Dear Mr. Doudrick:

On April 7, 2005, your site as described above was reviewed for closure by the Northern Closure Committee. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On April 21, 2005, you were notified that the Closure Committee had granted conditional closure to this case.

On October 5, 2005, the Department received correspondence indicating that you have complied with the conditions of closure, specifically, documentation of the abandonment of the monitoring wells. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

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 registry. To review the sites on the GIS Registry web page, visit http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm

If your property is listed on the GIS Registry due to groundwater contamination exceeding ch. NR 140 standards at the time of closure, and you intend to construct or reconstruct a well, you will need Department approval. Department approval is required before construction or reconstruction of a well on a property listed on the GIS Registry, in accordance with s. NR 812.09(4)(w). 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 at the web address listed above.

Please be aware that this case may be reopened pursuant to s. NR 726.09, Wis. Adm. 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.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 715-365-8990.

Sincerely,
NORTHERN REGION

Janet Kazda

Janet Kazda
Remediation & Redevelopment Program

cc: File
Chuck Weister, Rhinelander

Richard Sindt
Acting Station Engineer
USDA Forest Service North Central Research Station
1992 Folwell Ave
St. Paul, MN 55108

Paul Grittner
Dakota Interrek Corp
14000 Leetsbir Rd
Sturtevant, WI 53177

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
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Jim Doyle, Governor
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Northern Region Headquarters
107 Sutliff Ave.
Rhinelander, Wisconsin 54501-3349
Telephone 715-365-8900
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TTY Access via relay - 711

April 21, 2005

Mr. Rob Doudrick
Acting Station Director
USDA Forest Service North Central Research Station
1992 Folwell Ave
St. Paul, MN 55108

Subject: **Conditional** Case Closure
USFS Forestry Sciences Laboratory, 5985 CTH K, Rhinelander, Wisconsin
WDNR BRRTS # 02-44-000480

Dear Mr. Doudrick:

On April 7, 2005, your request for closure of the case described above was reviewed by the Northern Region Closure Committee. The Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Closure Committee has determined that the motor fuel and scintillation cocktail contamination on the site appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed **if** the following conditions are satisfied:

The monitoring at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to me on Form 3300-5B found at www.dnr.state.wi.us/org/water/dgw/gw/ or provided by the Department of Natural Resources.

When the above conditions have been satisfied, your case will be closed. Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. 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 to the environment.

We appreciate the cooperative efforts provided by the Station Directors and Richard Sindt of the Engineering Department on this environmental protection project.

If you have any questions regarding this letter, please contact me at 715-365-8990.

Sincerely,
NORTHERN REGION

Janet Kazda

Janet Kazda
Remediation and Redevelopment Program

c: File

Chuck Weister, Rhinelander

Richard Sindt
Acting Station Engineer
USDA Forest Service North Central Research Station
1992 Folwell Ave
St. Paul, MN 55108

Paul Grittner
Dakota Intertek Corp
14000 Leetsbir Rd
Sturtevant, WI 53177

WARRANTY DEED

BRANHAM WOODLAND PRODUCTS, INC., a corporation organized and existing under the laws of the State of Wisconsin, having its principal place of business at Eagle River, Wisconsin, Grantor, hereby CONVEYS and WARRANTS to the UNITED STATES OF AMERICA and its assigns, Grantee, Forever, in consideration of the exchange therefor of an approximately equal value of National Forest Land, as authorized by the Act of Congress approved July 22, 1937 (50 Stat. 522, 525; 7 U.S.C. 1011), as amended, the receipt of which consideration is hereby acknowledged, the following tract of land situate in Oneida County, Wisconsin, to-wit:

TOWNSHIP THIRTY-SIX NORTH, RANGE EIGHT EAST:

SECTION THREE:

Parcel Identification Number

All that part of the East Half of the Northeast Quarter of the Northeast Quarter lying South of County Highway "K"; as now located;

CR 35 Government Lot One;

CR 34 Southwest Quarter of the Northeast Quarter;

CR 45 Northwest Quarter of the Southeast Quarter.

Containing one hundred thirty-three and 34/00 (133.34) acres, more or less.

SUBJECT to easements, if any, for established or existing roads, highways, railroads and utilities.

IN WITNESS WHEREOF, the said Branham Woodland Products, Inc. has caused these presents to be executed by its President, Ivan Branham and its Secretary, Elsa A. Bloom and its corporate seal to be hereunto affixed this 15th day of August 1962.

In the presence of:

BRANHAM WOODLAND PRODUCTS, INC.

/s/ Helen E. Knauer
Helen E. Knauer

By /s/ Ivan Branham
Ivan Branham, President

/s/ G. A. Reider
G. A. Reider

By /s/ Elsa A. Bloom
Elsa A. Bloom, Secretary

(CORPORATE SEAL)

corporate seal affixed

$3.30 U.S.Int.Rev.documentary stamps affixed and cancelled.

STATE OF WISCONSIN)
)SS
COUNTY OF VILAS)

On this 15th day of August 1962, before me, a Notary Public in and for said County, personally appeared Ivan Branham and Elsa A. Bloom, to me personally known, who being each by me duly sworn, did say that they are, respectively, the President and Secretary of the Branham Woodland Products, Inc., the corporation named in the foregoing instrument, and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors and said President and Secretary acknowledged said instrument to be the free act and deed of said corporation.

NOTARIAL SEAL AFFIXED

/s/ Helen E. Knauer
Helen E. Knauer
Notary Public

My commission expires: Jan. 5, 1964

REGISTER'S OFFICE)
ONEIDA COUNTY, WIS.)
Rec'd. for record Oct. 5, 1962, at
11:45 A.M. and recorded in Vol. 252
of Deeds, page 585.
/s/ Agnes Verage, Register

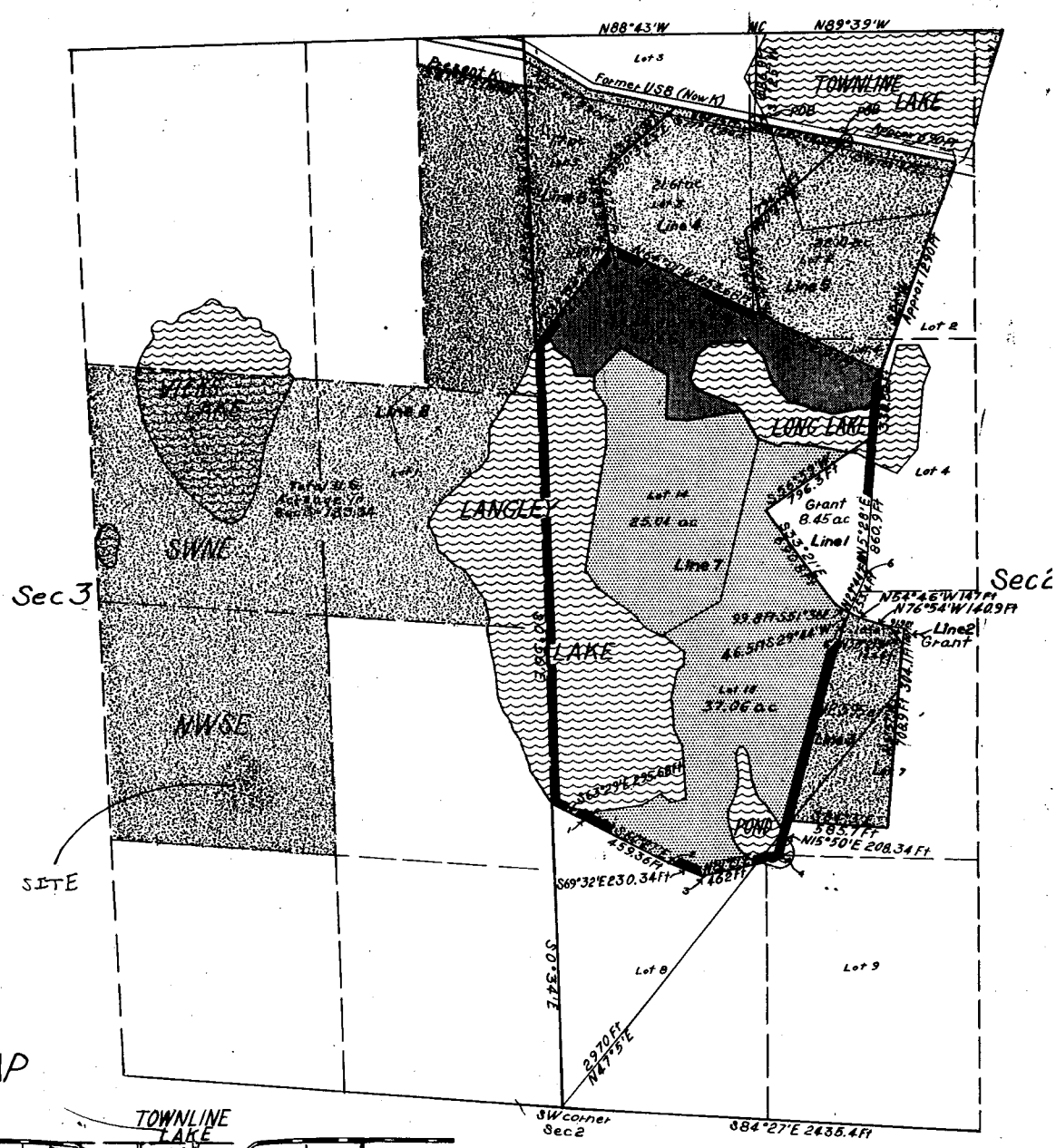
For the purpose of complying with the provisions of the Federal Revenue Act, requiring the appendment and cancellation of documentary stamps to a deed of conveyance, I hereby certify that the value of the land herein and hereby conveyed, as computed by the Forest Service, United States Department of Agriculture, does not exceed $2,799.63.

/s/ Vernon V. Lindholm

Acting Assistant Regional Forester

This instrument was drafted by the Office of the General Counsel, USDA

NICOLET NATIONAL FOREST
T. 36 N. R. 8 E. 4th P. M.

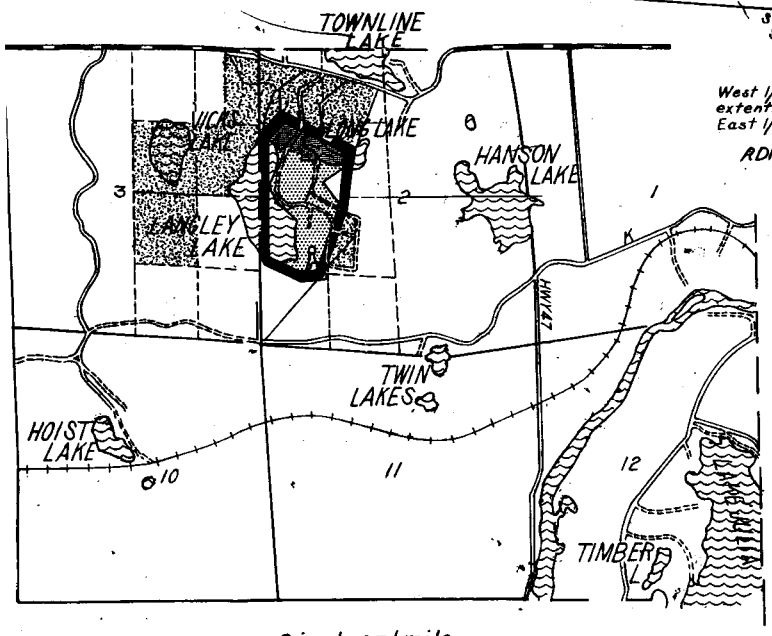


8 inches = 1 mile

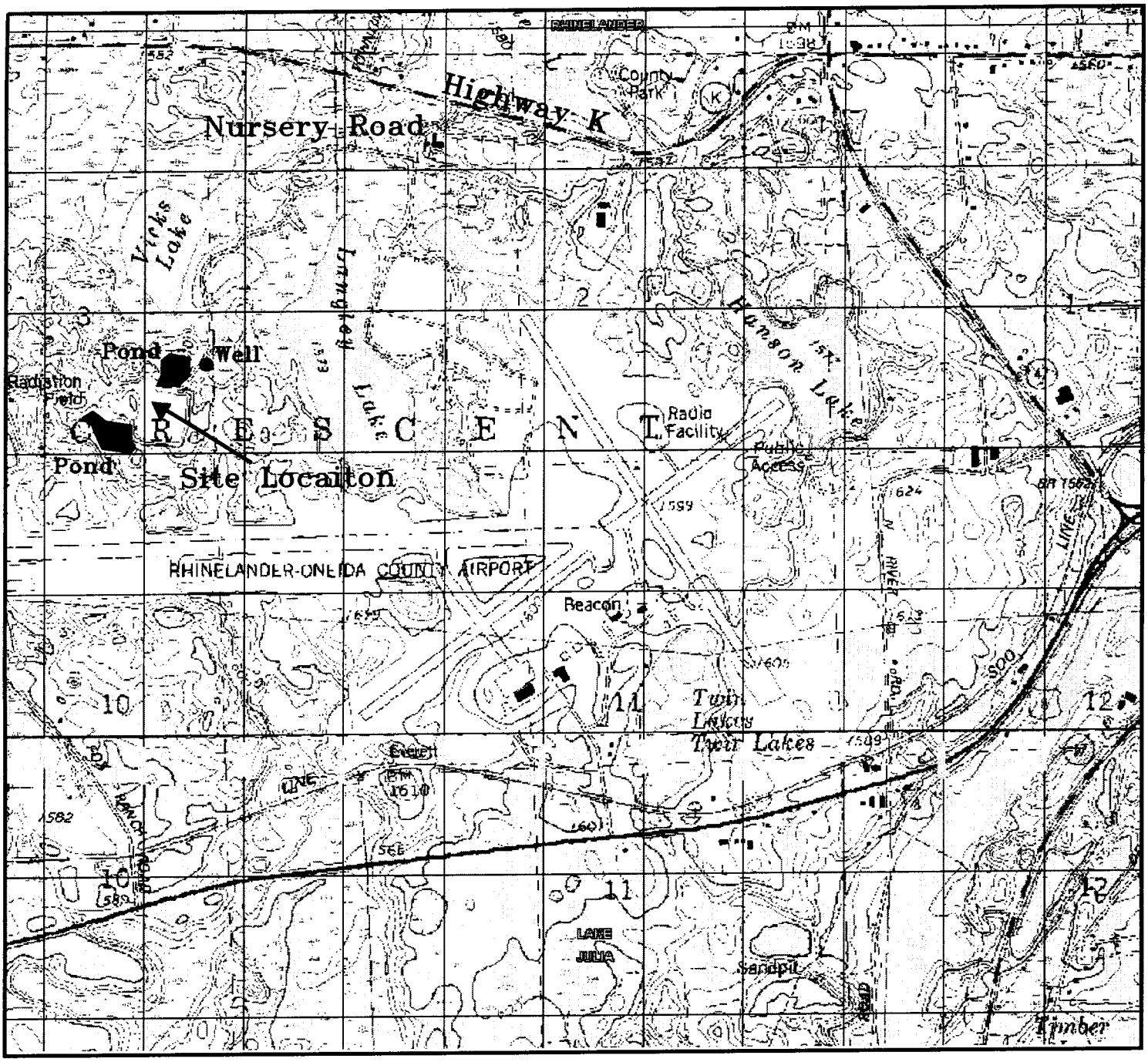
West 1/2 section developed from dependent resurvey and extention survey Plat of 9/28/35 and deeds.
East 1/2 section 3 developed from aerial photographs.

ADMINISTERED BY FOREST SUPERVISOR

'IMITY MAP



2 inches = 1 mile



Based on: USGS Rhinelander, WI Quadrangle, 7.5 Minute Series (Not to original scale)

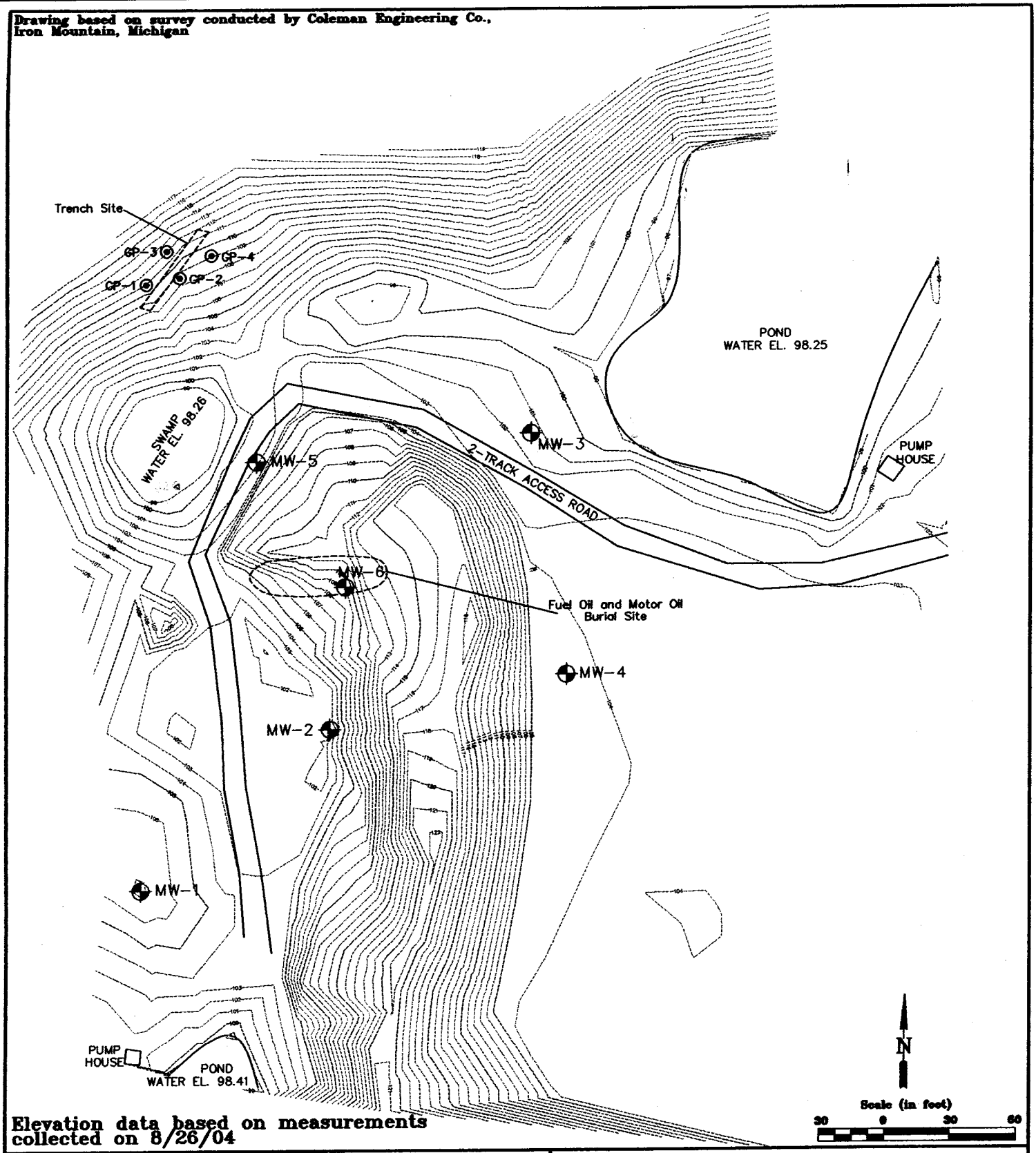
Site Location Map

USDA Forest Service Laboratory
Nursery Road
Rhinelander, Wisconsin

Figure 1

DAKOTA INTERTEK CORP.
14000 Lostbir Road, Sturtevant, WI. Phone: (262) 886-4800 Fax: (262) 886-4442

Drawing based on survey conducted by Coleman Engineering Co., Iron Mountain, Michigan



Elevation data based on measurements collected on 8/26/04

LEGEND

- MW-1 Monitoring well location
- GP-2 GeoProbe boring location
- Stake location
- Ground contour

Site Layout Map

USDA Forest Service Laboratory
Nursery Road
Rhinelander, Wisconsin

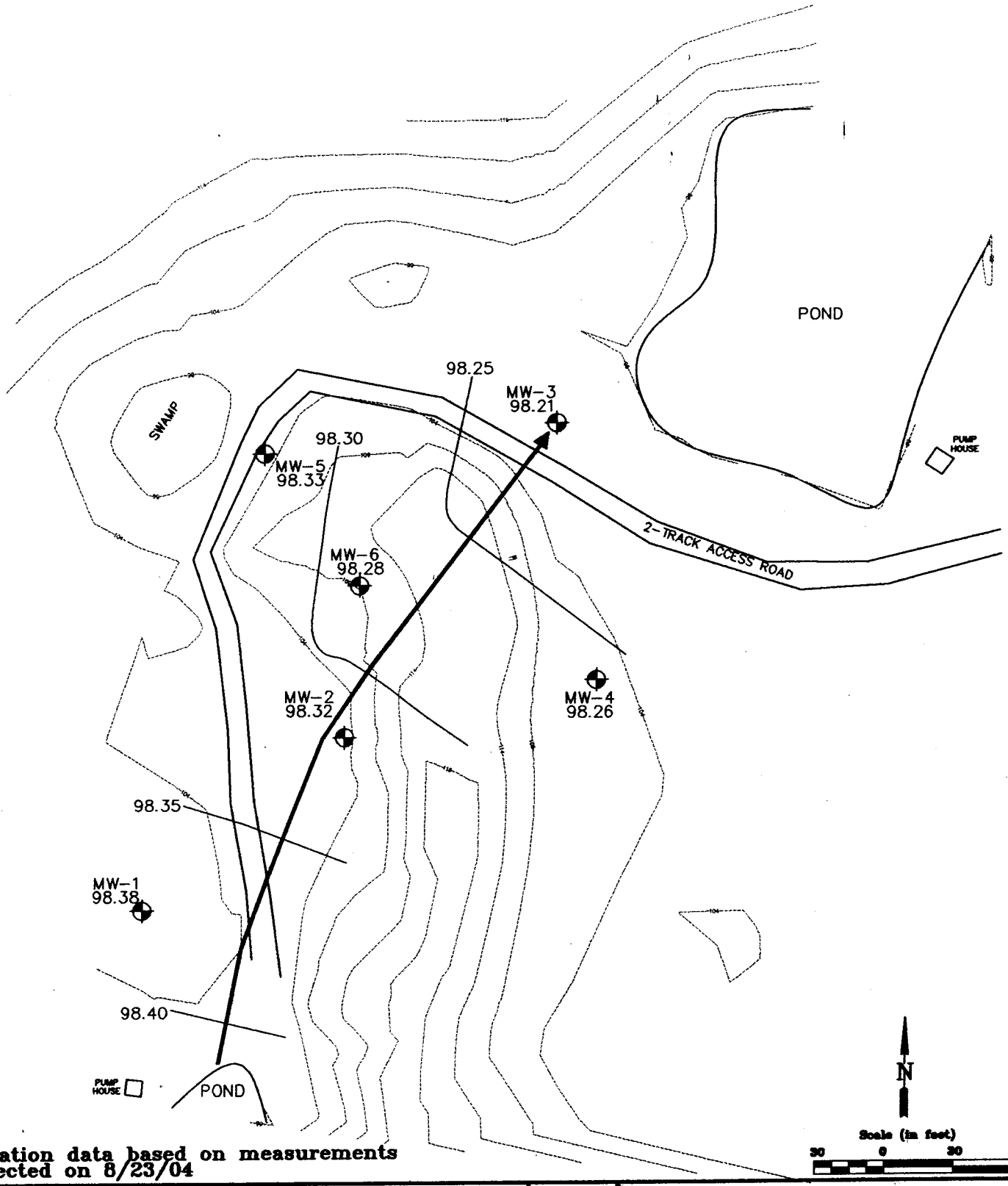
DAKOTA INTETEK CORP.

14600 Lochshir Road, Sturtevant, WI. Phone: (262) 886-4800 Fax: (262) 886-4442

9/23/04

Figure 1

Drawing based on survey conducted by Coleman Engineering Co., Iron Mountain, Michigan



Elevation data based on measurements collected on 8/23/04

LEGEND

MW-1 98.91 Monitoring well location Groundwater table elevation

GP-2 96.97 GeoProbe boring location Groundwater table elevation

Ground contour

DAKOTA INTETEK CORP.

14000 Lestsbir Road, Sturtevant, WI. Phone: (262) 886-4800 Fax: (262) 886-4442

Groundwater Flow Direction Map (8/23/04)

USDA Forest Service Laboratory
Nursery Road
Rhinelander, Wisconsin

2/2/05

Figure 3

TABLE 3
Groundwater Table Elevations
USDA Forest Service Laboratory
3654 Nursery Road
Rhinelander, WI

MW-1		MW-2		MW-3	
Measurement Date	Groundwater Elevation	Measurement Date	Groundwater Elevation	Measurement Date	Groundwater Elevation
1993	89.48	1993	89.35	1993	89.12

MW-1			MW-2			MW-3		
Top of Casing Elevation		109.76	Top of Casing Elevation		105.01	Top of Casing Elevation		104.12
Top of Screen Elevation		0.00	Top of Screen Elevation		0.00	Top of Screen Elevation		0.00
Bottom of Screen Elevation		91.10	Bottom of Screen Elevation		89.33	Bottom of Screen Elevation		89.41
Measurement Date	DTW (from TOC)	Groundwater Elevation	Measurement Date	DTW (from TOC)	Groundwater Elevation	Measurement Date	DTW (from TOC)	Groundwater Elevation
10/5/2000	11.66	98.10	10/5/2000	6.99	98.02	10/5/2000	6.20	97.92
MW-4			MW-5			MW-6		
Top of Casing Elevation		107.23	Top of Casing Elevation		104.53	Top of Casing Elevation		112.14
Top of Screen Elevation		0.00	Top of Screen Elevation		0.00	Top of Screen Elevation		0.00
Bottom of Screen Elevation		89.20	Bottom of Screen Elevation		86.86	Bottom of Screen Elevation		89.95
Measurement Date	DTW (from TOC)	Groundwater Elevation	Measurement Date	DTW (from TOC)	Groundwater Elevation	Measurement Date	DTW (from TOC)	Groundwater Elevation
10/5/2000	9.25	97.98	10/5/2000	6.50	98.03	10/5/2000	14.32	97.82

Notes:
All Casing elevations are measured based on a local site datum.
Groundwater elevations calculated for 1993, 2000, and 2004 are based on separate survey data collected each of the three years
TOC - Top of Casing

TABLE 3 (continued)
Groundwater Table Elevations
USDA Forest Service Laboratory
3654 Nursery Road
Rhinelander, WI

MW-1				MW-2				MW-3			
Surface Elevation			107.17	Surface Elevation			101.59	Surface Elevation			101.30
Top of Casing Elevation			109.22	Top of Casing Elevation			104.86	Top of Casing Elevation			103.85
Top of Screen Elevation			100.56	Top of Screen Elevation			99.18	Top of Screen Elevation			99.14
Bottom of Screen Elevation			90.56	Bottom of Screen Elevation			89.18	Bottom of Screen Elevation			89.14
Measurement Date	DTW (from TOC)	DTW (from ground surface)	Groundwater Elevation	Measurement Date	DTW (from TOC)	DTW (from ground surface)	Groundwater Elevation	Measurement Date	DTW (from TOC)	DTW (from ground surface)	Groundwater Elevation
8/23/2004	10.84	8.79	98.38	8/23/2004	6.54	3.27	98.32	8/23/2004	5.64	3.09	98.21
8/25/2004	10.87	8.82	98.35	8/25/2004	6.56	3.29	98.30	8/25/2004	5.65	3.10	98.20
8/26/2004	10.89	8.84	98.33	8/26/2004	6.57	3.30	98.29	8/26/2004	5.66	3.11	98.19
11/5/2004	10.85	8.80	98.37	11/5/2004	6.53	3.26	98.33	11/5/2004	5.62	3.07	98.23

MW-4				MW-5				MW-6			
Surface Elevation			104.23	Surface Elevation			101.73	Surface Elevation			109.17
Top of Casing Elevation			107.20	Top of Casing Elevation			104.52	Top of Casing Elevation			112.33
Top of Screen Elevation			99.17	Top of Screen Elevation			96.85	Top of Screen Elevation			100.14
Bottom of Screen Elevation			89.17	Bottom of Screen Elevation			86.85	Bottom of Screen Elevation			90.14
Measurement Date	DTW (from TOC)	DTW (from ground surface)	Groundwater Elevation	Measurement Date	DTW (from TOC)	DTW (from ground surface)	Groundwater Elevation	Measurement Date	DTW (from TOC)	DTW (from ground surface)	Groundwater Elevation
8/23/2004	8.94	5.97	98.26	8/23/2004	6.19	3.40	98.33	8/23/2004	14.05	10.89	98.28
8/25/2004	8.97	6.00	98.23	8/25/2004	6.20	3.41	98.32	8/25/2004	14.07	10.91	98.26
8/26/2004	8.99	6.02	98.21	8/26/2004	6.21	3.42	98.31	8/26/2004	14.08	10.92	98.25
11/5/2004	8.92	5.95	98.28	11/5/2004	6.17	3.38	98.35	11/5/2004	14.04	10.88	98.29

GP-1			GP-2			GP-3			GP-4		
Surface Elevation		110.96	Surface Elevation		108.55	Surface Elevation		112.10	Surface Elevation		109.08
Bottom of Boring Elevation		90.96	Bottom of Boring Elevation		91.55	Bottom of Boring Elevation		92.10	Bottom of Boring Elevation		89.08
Measurement Date	DTW (from ground surface)	Groundwater Elevation	Measurement Date	DTW (from ground surface)	Groundwater Elevation	Measurement Date	DTW (from ground surface)	Groundwater Elevation	Measurement Date	DTW (from ground surface)	Groundwater Elevation
8/25/2004	14.50	96.46	8/25/2004	11.58	96.97	8/25/2004	14.17	97.93	8/25/2004	12.33	96.75

Stake 1			Stake 2			Stake 3		
Surface Elevation		97.33	Surface Elevation		97.58	Surface Elevation		97.90
Top of Stake		99.28	Top of Stake		99.36	Top of Stake		99.93
Measurement Date	DTW (from top of stake)	Groundwater Elevation	Measurement Date	DTW (from ground surface)	Groundwater Elevation	Measurement Date	DTW (from ground surface)	Groundwater Elevation
8/26/2004	1.03	98.25	8/26/2004	1.10	98.26	8/25/2004	1.52	98.41

Notes:
All Casing elevations are measured based on a local site datum.
Groundwater elevations calculated for 1993, 2000, and 2004 are based on separate survey data collected each of the three years
TOC - Top of Casing

Table 1
PA Groundwater Results

Sample Number	MWO1-100	MWO2-100	Duplicate Sample MWO2-300	MW03-100	Rinsate Sample MW01-400	Trip Blank RBS-200
VOCs – ug/L	ND	ND	ND	ND	ND	ND
SVOCs – ug/L	ND	ND	ND	ND	ND	NA
WI DRO – mg/L	0.07	0.08	0.14	ND	ND	ND

Note: ND - Not detected above detection limit.
NA - Not analyzed for parameter indicated.

Table 4
Groundwater Analysis, Round 2

Monitoring Well	Analytes		
	VOC's (ug/kg)	DRO (mg/L)	PAH's (ug/kg)
MW01-0990-100	Methylene chloride – 3.1(B)	0.2	ND
MW01-0998-300	Methylene chloride – 2.2(B)	0.24	ND
MW02-0998-100	Methylene chloride – 2.5(B)	0.3	ND
MW02-0998-400	Methylene chloride – 4.5(B)	ND	ND
	Chloroform – 4.0B	ND	ND
	Toluene – 0.17J	ND	ND
MW03-0998-100	Methylene chloride – 5.8(B)	ND	ND
MW03-0998-200	Methylene chloride – 2.7(B)	ND	ND

Notes:
ND – Not detected
J - Estimated value below quantitation limits.
B - Analyte also found in laboratory blank.

Oct, 2000

Table 8
GROUNDWATER ANALYTICAL SUMMARY
Monitoring Wells MW-4, 5, & 6

		Method	WDNR	VOC - 8260B					PNA - 8310						
		Compound Detected	DRO (mg/L)	sec-Butylbenzene (ug/L)	Methylene Chloride (ug/L)	Toluene (ug/L)	1,2,4-Trimethylbenzene (ug/L)	Xylenes, Total (ug/L)	Anthracene (ug/L)	Fluoranthene (ug/L)	Fluorene (ug/L)	1-Methylnaphthalene (ug/L)	Naphthalene (ug/L)	Phenanthrene (ug/L)	Pyrene (ug/L)
Job Number	Sample Description														
00.08805	USFS-FSL-MW04-OCT00-100												0.77		
00.08805	USFS-FSL-MW04-OCT00-200				3.6 L										
00.08805	USFS-FSL-MW05-OCT00-100														
00.08957	USFS-FSL-MW06-OCT00-100		16	0.65	0.82 L				0.13	2.2	0.24	0.62		1	1
00.08957	USFS-FSL-MW06-OCT00-200				0.48 L	0.49	0.16	0.45							
00.08957	USFS-FSL-MW06-OCT00-300		14	0.84	0.73 L				0.12	0.4		0.87		0.95	0.83
	MDL		0.1	0.25	0.25	0.1	0.1	0.25	0.018	0.1	0.029	0.4	0.22	0.014	0.047
	PAL		10		0.5	200		1,000	600	80	80		8		50
	ES				5	1,000		10,000	3,000	400	400		40		250

NOTES: 1) Only compounds detected above laboratory detection limits are shown in the Table.
2) L - common lab solvent and contaminant.
3) Method Detection Limits (MDLs) - provided by laboratory.
4) Preventive Action Limits (PALs) - WI Dept. of Natural Resources Chapter NR140.
5) Enforcement Standard (ES) - WI Dept. of Natural Resources Chapter NR140.

100- Environmental Sample
200- Trip Blank
300- Duplicate
400- Equipment Rinsate

Table 9

GROUNDWATER ANALYTICAL SUMMARY

Monitoring Wells 4, 5, & 6 Investigative Derived Waste

		Method	SVOC - 8270
		Compound Detected	
Job Number	*Sample Description*		
00.08957	USFS-FSL-MW04-IDW-OCT00-100		
00.08957	USFS-FSL-MW05-IDW-OCT00-100		
00.08957	USFS-FSL-MW06-IDW-OCT00-100		
	MDL		
	PAL		
	ES		

NOTES: 1) Only compounds detected above laboratory detection limits are shown in the Table.
2) L - common lab solvent and contaminant.
3) Method Detection Limits (MDLs) - provided by laboratory.
4) Preventive Action Limits (PALs) - WI Dept. of Natural Resources Chapter NR140.
5) Enforcement Standard (ES) - WI Dept. of Natural Resources Chapter NR140.

100- Environmental Sample
200- Trip Blank
300- Duplicate
400- Equipment Rinsate

Table 10

GROUNDWATER ANALYTICAL SUMMARY

Existing Monitoring Wells MW-1, 2, & 3
Round 3

		Method	WDNR	VOC - 8260B			PNA - 8310
		Compound Detected	DRO (mg/L)	Methylene Chloride (ug/L)	Toluene (ug/L)	Xylenes, Total (ug/L)	
Job Number	*Sample Description*						
00.08806	USFS-FSL-MW01-OCT00-100		0.1				
00.08806	USFS-FSL-MW01-OCT00-400				0.38	0.25	
00.08806	USFS-FSL-MW02-OCT00-100						
00.08806	USFS-FSL-MW03-OCT00-100						
00.08806	USFS-FSL-MW03-OCT00-200			0.73 L			
	MDL		0.1	0.25	0.1	0.25	
	PAL		10	0.5	200	1,000	
	ES			5	1,000	10,000	

NOTES: 1) Only compounds detected above laboratory detection limits are shown in the Table.
2) L - common lab solvent and contaminant.
3) Method Detection Limits (MDLs) - provided by laboratory.
4) Preventive Action Limits (PALs) - WI Dept. of Natural Resources Chapter NR140.
5) Enforcement Standard (ES) - WI Dept. of Natural Resources Chapter NR140.

100- Environmental Sample
200- Trip Blank
300- Duplicate
400- Equipment Rinsate

Table 11

GROUNDWATER ANALYTICAL SUMMARY

Combined IDW for Existing Monitoring Wells MW-1, 2, & 3

		Method	SVOC - 8270
		Compound Detected	
Job Number	*Sample Description*		
00.08957	USFS-FSL-MW01-IDW-OCT00-100		
	MDL		
	PAL		
	ES		

NOTES: 1) Only compounds detected above laboratory detection limits are shown in the Table.
2) L - common lab solvent and contaminant.
3) Method Detection Limits (MDLs) - provided by laboratory.
4) Preventive Action Limits (PALs) - WI Dept. of Natural Resources Chapter NR140.
5) Enforcement Standard (ES) - WI Dept. of Natural Resources Chapter NR140.

100- Environmental Sample
200- Trip Blank
300- Duplicate
400- Equipment Rinsate

TABLE 1
Soil Sample Analytical Results
Trench Excavation Confirmation Samples
USDA Forest Service Laboratory
3654 Nursery Road
Rhinlander, WI

Sample Number	Depth (ft BGS)	Sample Date	PID (ppm)	DRO (mg/kg)	Ethylbenzene	Methylene Chloride	Toluene	Xylenes, Total
USFS-FSL-TS-ST01-BT-OCT00-100	5'	10/3/00	8	<5.1	<26	<51	<26	<36
USFS-FSL-TS-ST02-BT-OCT00-100	5'	10/3/00	170	<5.2	<26	<52	27	59
USFS-FSL-TS-ST03-BT-OCT00-100	5'	10/3/00	ND	<5.2	<26	<52	<26	<37
USFS-FSL-TS-ST04-BT-OCT00-100	5'	10/3/00	117	6.4	207	136	383	745
USFS-FSL-TS-ST04-BT-OCT00-300	5'	10/3/00	NT	<5.2	198	<52	333	738
USFS-FSL-TS-ST01-ST-OCT00-100	2.5'	10/3/00	ND	<5.1	<29	224	58	<39
USFS-FSL-TS-ST02-ST-OCT00-100	2.5'	10/3/00	ND	<5.1	<29	247	47	<39
USFS-FSL-TS-ST03-ST-OCT00-100	2.5'	10/3/00	ND	<5.1	<26	<51	<26	<36
USFS-FSL-TS-ST04-ST-OCT00-100	2.5'	10/3/00	ND	<5.1	<26	<51	<26	<36
USFS-FSL-TS-ST05-ST-OCT00-100	2.5'	10/3/00	ND	<5.1	<25	<51	<25	<35
USFS-FSL-TS-ST06-ST-OCT00-100	2.5'	10/3/00	ND	<5.2	<29	166	46	<39
USFS-FSL-TS-ST07-ST-OCT00-100	2.5'	10/3/00	ND	<5.2	<26	166	28	<36
USFS-FSL-TS-ST08-ST-OCT00-100	2.5'	10/3/00	ND	<5.2	<26	76	<26	<36
USFS-FSL-TS-ST01-ET-OCT00-100	2.5'	10/3/00	ND	<5.1	<26	<51	<26	<36
USFS-FSL-TS-ST02-ET-OCT00-100	2.5'	10/3/00	ND	<5.2	<31	91	<31	<44
USFS-FSL-TS-14-BT-OCT00-200 Blank	--	10/3/00	NT	NT	<25	<50	<25	<35
NR 720.09 RCLs				100	2,900	NS	1,500	4,100
NR 746.06 (2)(b) Table 1, Soil Screening Levels				NS	4,600	NS	38,000	42,000
EPA Risk Based Residential Concentration Limits				NS	7,800,000	85,000	16,000,000	16,000,000

NOTES:

All results and standards reported in ug/kg unless otherwise noted
-300 suffix indicates duplicate

TABLE 1
Soil Sample Analytical Results
Monitoring Well Locations
USDA Forest Service Laboratory
3654 Nursery Road
Rhinlander, WI

Sample Location	Sample Number	Depth (ft BGS)	Sample Date	DRO (mg/kg)	p-Isopropyltoluene	Methylene Chloride	Toluene	TOC (mg/kg)	F_{OC} (%)
MW-2	MW-2	4'-8'	8/25/04	NT	NT	NT	NT	5740	<1.00
MW-4	USFS-FSL-SB04-(4-6')-OCT00-100	4'-6'	10/4/00	9.6	<28	<57	<28	NT	NT
	MW-4 Sand	6'-7'	8/25/04	NT	NT	NT	NT	10,100	<1.00
	MW-4 Clay	8'-10'	8/25/04	NT	NT	NT	NT	3,430	<1.00
MW-5	USFS-FSL-SB05-(4-6')-OCT00-100	4'-6'	10/4/00	<6.2	<31	<62	<31	NT	NT
	MW-5	8'	8/25/04	NT	NT	NT	NT	3,350	<1.00
MW-6	USFS-FSL-SB06-(10-12')-OCT00-100	10'-12'	10/5/00	**2,970**	<30	138	<30	NT	NT
	USFS-FSL-SB06-(10-12")-OCT00-300	10'-12'	10/5/00	**3,190**	46	<53	<27	NT	NT
--	USFS-FSL-SB04-(4-6')-OCT00-400	--	10/5/00	NT	<0.25	<0.25	0.32	NT	NT
--	USFS-FSL-SB04-OCT00-200 Blank	--	10/4/00	NT	<25	<50	<25	NT	NT
NR 720.09 Residual Contaminant Levels				100	NS	NS	1,500	NS	NS
NR 746.06 (2)(b) Table 1, Soil Screening Levels				NS	NS	NS	38,000	NS	NS
EPA Risk Based Residential Concentration Limits				NS	NS	85,000	16,000,000	NS	NS

NOTES:

All results and standards reported in ug/kg unless otherwise noted

Bolded values exceed NR 720.09 RCLs

NT = Not tested

-200 suffix indicates trip blank

-300 suffix indicates duplicate

-400 suffix indicates equipment rinsate (results in mg/L and ug/L instead of mg/kg and ug/kg)

Dakota Intertek Corp.
By: PVG
Checked by: PVG

2/2/2005
USDA Rhinelander Table.XLS
Soil MWs

TABLE 1

Soil Sample Analytical Results

Hand Augured Samples to Profile Trench - Pre-excavation

USDA Forest Service Laboratory
3654 Nursery Road
Rhinlander, WI

Sample Number	Depth (ft BGS)	Sample Date	Chloroform	1,2-Dibromoethane	Methylene chloride	Toluene	Trichlorofluoromethane	o-Xylene	Benzo(a)pyrene	Benzo (k) fluoranthene	Dibenz (a,h) anthracene
HA01-0998-02-100	2'	9/9/98	<6.1	<6.1	21	<6.1	<6.1	<6.1	<6.1	<2.1	<6.1
HA01-0998-02-300	2'	9/9/98	<6.4	<6.4	22	<6.4	<6.4	<6.4	<6.4	<2.2	<6.4
HA01-0990-05-100	5'	9/9/98	<6.1	<6.1	30	<6.1	<6.1	<6.1	<6.1	<2.1	6.2
HA01-0990-08-100	8'	9/9/98	<6.2	<6.2	68	<6.2	<6.2	<6.2	<6.2	<2.1	<6.2
HA03-0998-02-100	2'	9/9/98	<6.4	<6.4	52	<6.4	<6.4	<6.4	<6.4	<2.2	7.0
HA03-0998-05-100	5'	9/9/04	<6.0	<6.0	20	<6.0	<6.0	<6.0	<6.0	<2.0	6.3
HA03-0998-08-100	8'	9/9/04	<6.1	<6.1	23	<6.1	<6.1	<6.1	<6.1	17	<6.1
HA05-0998-02-100	2'	9/9/04	<6.1	<6.1	43	<6.1	<6.1	<6.1	<6.1	<2.1	6.3
HA05-0998-05-100	5'	9/9/98	<5.8	<5.8	24	<5.8	<5.8	<5.8	<5.8	<2.0	<5.8
HA05-0998-08-100	8'	9/9/98	<5.8	0.24*	2.4*	<5.8	<5.8	<5.8	<5.8	6.5	<5.8
HA06-0998-02-100	2'	9/10/98	<6.3	<6.3	12	<6.3	<6.3	0.76*	<6.3	<2.1	<6.3
HA06-0998-05-100	5'	9/10/98	0.51*	<6.1	7.1	<6.1	<6.1	<6.1	<6.1	<2.1	9.2
HA06-0998-08-100	8'	9/10/98	0.58*	<6.4	1.4*	<6.4	<6.4	<6.4	<6.4	<2.2	<6.4
HA06-0998-08-300	8'	9/10/04	0.48*	<6.1	1.2*	<6.1	<6.1	<6.1	<6.1	<2.1	6.2
HA08-0998-02-100	2'	9/10/04	0.49*	<6.2	1.9*	<6.2	<6.2	<6.2	21	100	<6.2
HA08-0998-05-100	5'	9/10/98	0.53*	<6.1	2.7*	<6.1	<6.1	<6.1	<6.1	<2.1	<6.1
HA08-0998-08-100	8'	9/10/98	0.53*	<6.1	2.7*	<6.1	<6.1	<6.1	<6.1	<2.1	<6.1
HA09-0998-08-100	8'	9/10/98	0.53*	<6.2	22	<6.2	<6.2	<6.2	<6.2	<2.1	6.8
HA10-0998-06-100	6'	9/10/98	0.51*	<6.3	5.5*	<6.3	<6.3	<6.3	<6.3	<2.1	<6.3
HA11-0998-08-100	8'	9/10/98	0.58*	<6.3	18	<6.3	<6.3	<6.3	<6.3	<2.1	<6.3
NR 720.09 RCLs			NS	NS	NS	1,500	NS	4,100	NS	NS	NS
NR 746.06 (2)(b) Table 1, Soil Screening Levels			NS	NS	NS	38,000	NS	42,000	NS	NS	NS
EPA Risk Based Residential Concentration Limits			780,000	7.5	85,000	16,000,000	23,000,000	16,000,000	87	8700	87

Notes:

* - Values are greater than the limit of detection but less than the limit of quantitation

All results and standards reported in ug/kg

-300 suffix indicats duplicate samples

Sample Number	Depth (ft BGS)	Sample Date	Chloroform	1,2-Dibromoethane	Methylene chloride	Toluene	Trichlorofluoromethane	o-Xylene	Benzo(a)pyrene	Benzo (k) fluoranthene	Dibenz (a,h) anthracene
HA01-0998-400	--	9/9/98	4.6	<1.0	1.1	0.22*	0.19*	<0.50	<0.10	<0.50	<0.10
HA01-0998-200	--	9/9/98	<1.0	<1.0	0.53*	<1.0	<2.0	<0.50	NT	NT	NT
HA06-0998-400	--	9/10/98	4.1	<1.0	1	0.18*	<2.0	<0.50	<0.10	<0.050	0.11
HA08-0998-200	--	9/10/98	<1.0	<1.0	0.45*	<1.0	<2.0	<0.50	NT	NT	NT
ES			6	0.05	5	1000	NS	10,000	0.2	NS	NS
PAL			0.6	0.005	0.5	200	NS	1,000	0.02	NS	NS

Notes:

* - Values are greater than the limit of detection but less than the limit of quantitation

All results and standards reported in ug/L

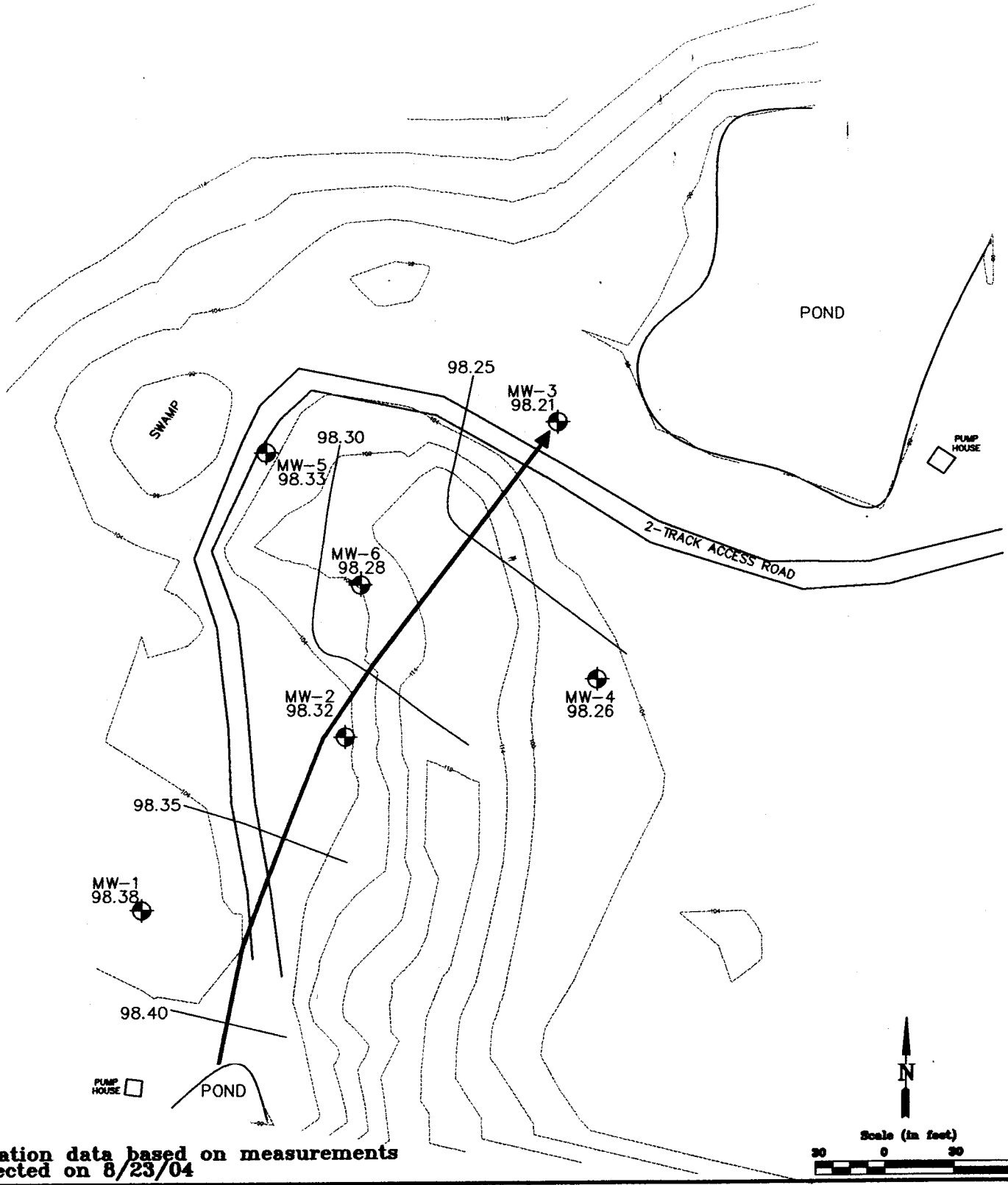
-200 suffix indicates travel blank

-400 suffix indicates equipment rinsate

Dakota Intertek Corp.
By: PVG
Checked by: PVG

2/11/2005
USDA Rhinelander Table.XLS
Soil 98

Drawing based on survey conducted by Coleman Engineering Co., Iron Mountain, Michigan



Elevation data based on measurements collected on 8/23/04

LEGEND

MW-1 98.91 — Monitoring well location; Groundwater table elevation

GP-2 96.97 — GeoProbe boring location; Groundwater table elevation

Ground contour

DAKOTA INTETEK CORP.

14000 Lestsbir Road, Sturtevant, WI. Phone: (262) 886-4800 Fax: (262) 886-4442

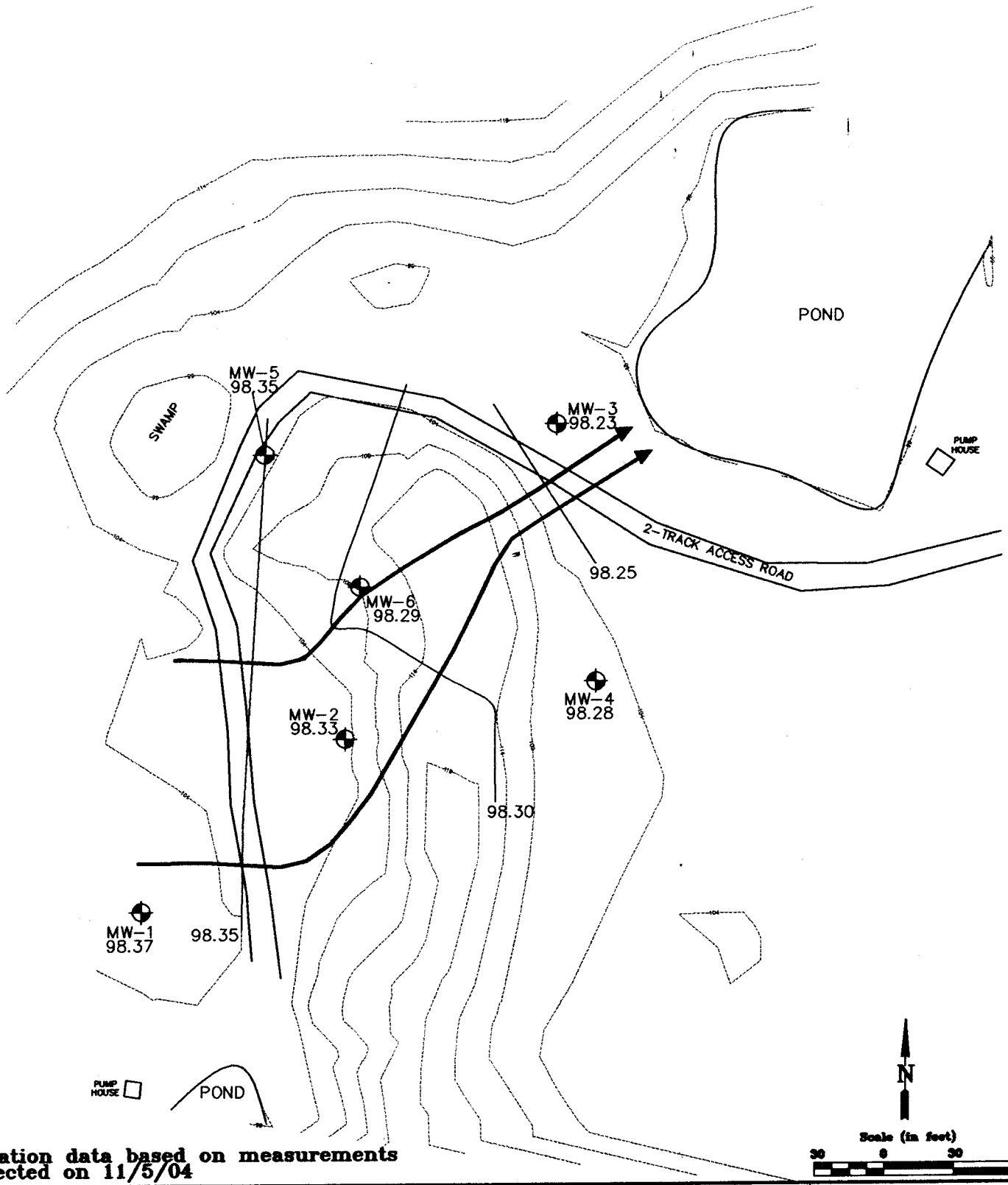
Groundwater Flow Direction Map (8/23/04)

USDA Forest Service Laboratory
Nursery Road
Rhinelander, Wisconsin

2/2/05

Figure 3

Drawing based on survey conducted by Coleman Engineering Co., Iron Mountain, Michigan



Elevation data based on measurements collected on 11/5/04

LEGEND

MW-1 98.91 — Monitoring well location; Groundwater table elevation

GP-2 96.97 — GeoProbe boring location; Groundwater table elevation

Ground contour

DAKOTA INTETEK CORP.

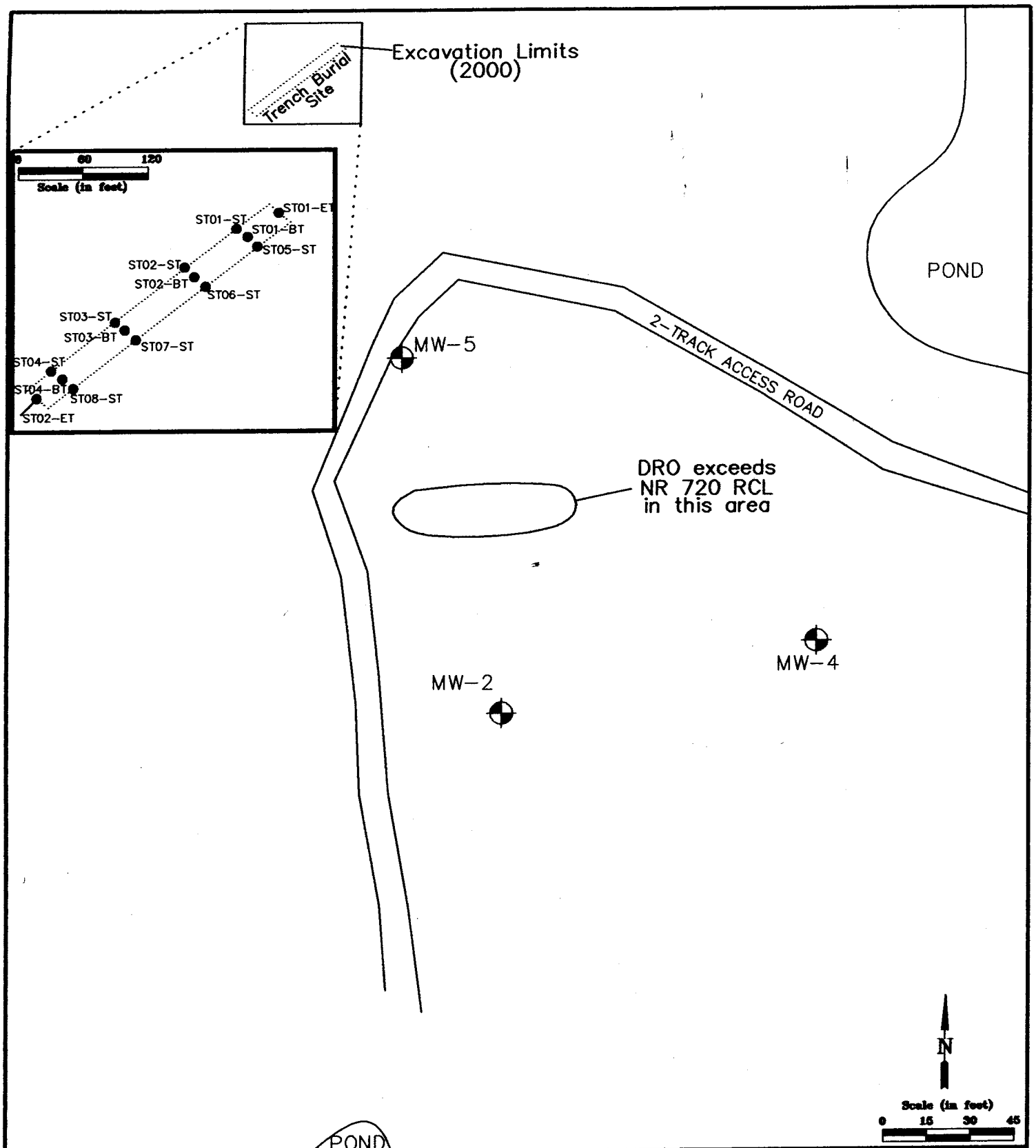
14000 Lootsbir Road, Sturtevant, WI. Phone: (262) 886-4800 Fax: (262) 886-4442

Groundwater Flow Direction Map (11/5/04)

USDA Forest Service Laboratory
Nursery Road
Rhinelander, Wisconsin

2/2/05

Figure 3



LEGEND

MW-1 **Monitoring well location**

ST07-ST **Trench excavation samples (2000)**
Post-remedial for trench site

Post-remedial Soil Sample Location Map

USDA Forest Service Laboratory
Nursery Road
Rhinelander, Wisconsin

DAKOTA INTETEK CORP.

14600 Lochlair Road, Sturtevant, WI. Phone: (262) 886-4600 Fax: (262) 886-4442

11/29/04

Figure 4

United States Department of Agriculture | Forest Service | North Central Research Station | 1992 Folwell Avenue St. Paul, MN 55108

File Code: 2160
Date: March 21, 2005

Ms. Janet Kazda
Wisconsin Department of Natural Resources
107 Sutliff Avenue
Rhinelander, WI 54501

RE: **GIS Registry Packet, US Forest Service Genetics Science Lab**, 5985 Highway K, Rhinelander, WI: BRRTS # 02-44-000480

Dear Ms. Kazda:

Attached, please find the GIS Registry Packet for soil contamination at the above noted property.

The geographic position of this property (in WTM91 Projection) is: 560535, 573631.
And the Parcel Identification Number is: CR45

I certify that the legal description for this property has been submitted

Sincerely,

RICHARD D. SINDT
Acting Station Engineer