GIS REGISTRY INFORMATION

SITE NAME: Wisconsin Central Ltd - Rhinelander Rail Yard

BRRTS #: 02-44-176546 **FID # (if appropriate):**

COMMERCE # (if appropriate): N/A

CLOSURE DATE: 11/6/06

STREET ADDRESS: 437 N. Brown

CITY: Rhinelander

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): X= 565657 Y= 574617

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 ☒

Copy of any maintenance plan referenced in the final closure letter. N/A ☐

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

Copy of most recent deed, including legal description, for all affected properties ☒

Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties N/A ☐

County Parcel ID number, *if used for county*, for all affected properties N/A ☐

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. ☒

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. ☒

Tables of Latest Groundwater Analytical Results (no shading or cross-hatching) ☒

Tables of Latest Soil Analytical Results (no shading or cross-hatching) ☒

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.** ☒

GW: Table of water level elevations, with sampling dates, and free product noted if present on analytical tables ☒

GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees) ☒

SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour ☒

Geologic cross-sections, *if required for SI.* (8.5x14' if paper copy) ☒

RP certified statement that legal descriptions are complete and accurate ☒

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 ☐

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

November 6, 2006

Mr. Geoffrey Nokes
Canadian National
17641 South Ashland Avenue
Homewood, Illinois 60430-1345

SUBJECT: Final Case Closure
Wisconsin Central Limited, Rhinelander Rail Yard
WDNR BRRTS Activity # 02-44-176546

Dear Mr. Nokes:

On October 5, 2006 the Northern Region Closure Committee reviewed the above referenced case including final GIS Registry Package information for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. 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, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time.

Please be aware that pursuant to s. 292.12, Wisconsin Statutes compliance with the requirements of this letter is a responsibility to which you and any future property owner must adhere. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code.

The most recent soil samples that were collected on this property contained Arsenic, Benzo(A)Pyrene, Dibenz(a,h)Anthracene and Benzo(b)Fluorathene in concentrations that exceeded NR 720.11, Table 2, Wis. Adm. Code, soil standards. The locations of the samples are identified on the attached Figure 4 prepared by STS Consultants on January 24, 2005. Therefore, the property described above may not be used or developed for a residential, commercial, agricultural or other non-industrial use, unless (at the time that the non-industrial use is proposed) an investigation is conducted, to determine the degree and extent of soil contamination that remains on the property, and remedial action is taken as necessary to meet all applicable non-industrial soil cleanup standards. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material would be considered solid or hazardous waste and ensure that any

storage, treatment or disposal is in compliance with applicable statutes and rules. In addition, all current and future owners and occupants of the property 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 during excavation activities to prevent a health threat to humans.

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 Chuck Weister at 715-365-8941.

Sincerely,

John Robinson
Northern Region Remediation & Redevelopment Team Supervisor

Attachment: STS Consultant's Figure 4

cc: Richard Reesman, STS Consultants, 3909 Concord Ave., Schofield, WI 54476
NOR RR File

Old Form 1574. New Form 3113.

No. 114

Ry. Record A Page 75

Description	Sec.	Twp	Rg.
Gov't Lot 10	6	36	9
" " " 6	31	37	9
— RHINELANDER —	Lots	Block	
	2-4-6-8	8	
	2-8-10-12	5	
	6	4	
	2-4-6-8-10-12	3	
	10-12	2	
	All	10	

Oneida County Wisc.

Minneapolis, St. Paul & Sault Ste. Marie Railway Company,

Line

Grantor W. E. Brown etal

Wty. Deed

Consideration 1.00

Date executed 6 - July 191 1888

Recorded 13 - July 1888 191 Book 9 Page 197-8

Mortgage

Consideration

Date executed 191

Recorded 191 Book Page

Abstract 191

KNOW ALL MEN BY THESE PRESENTS, That Edward D.Brown, Anderson W.Brown and Anna A.Brown his wife, Webster E.Brown and Juliet D.Brown his wife and Edward O.Brown, parties of the first part, in consideration of the sum of One Dollar, to them duly paid, the receipt whereof is hereby acknowledged, do hereby remise, release and convey unto the Minneapolis, St.Paul and Sault Ste.Marie Railway Company, a corporation of the State of Wisconsin, party of the second part, and its successors and assigns:

All the following described lots and parts of lots embraced in the village plat of the village of Rhinelander, Oneida County, Wisconsin, as said plat appears of record in said County, to-wit; Lots two (2), four (4), six (6), and eight (8), in block eight (8); Lot twelve (12), in block five (5); Lot six (6) in block four (4); Lots two (2), four (4), eight (8), ten (10), and twelve (12) in block three (3).

All those parts of lots ten (10) and twelve (12), in block two (2); Lot six (6), in block three (3), and lots two (2), eight (8) and ten (10) in block five (5), which lie within one hundred (100) feet of the center line of the main line of the rail road of the party of the second part as now constructed and operated, over and across said village plat. Also all that part of Government Lot number one (1), in section six (6), town thirty six (36), range nine (9), east, and Government Lot number six (6) in section thirty one (31), town thirty seven (37), range nine (9), east, in said Oneida County, which lies east of Alban street in said villare of Rhinelander, and within two hundred and twenty five (225) feet and east of said center line, and within one hundred (100)

feet and west of said center line.

Also all that part of Government Lot ten (10) in said section six (6), which lies within fifty (50) feet of said center line, as said rail road has been constructed and is now operated thereon over and across said section six (6), excepting and reserving all riparian, water and river rights so far as the exercise and use of said rights do not materially interfere with the maintenance, and the practical and safe operation of said railroad.

Also all that part of block ten (10) in said village plat of Rhinelander, which lies within thirty (30) feet of the center line of the rail road of said party of the secornd part as said railroad is now constructed and operated, - excepting and reserving the right to construct and perpetually to maintain a water power canal sixty (60) feet in width across said strip of land at the north end thereof, said canal to be so constructed as not to interfere with the use of said strip of land, by said party of the second part, for rail road purposes And said rail road to be so maintained as never to interfere, with, or to impair the right to build and maintain said canal. Also excepting and reserving a free passage under said rail road, twelve (12) feet wide and twelve (12) feet high, at some feasible and convenient point on said block, outside of said canal, said railroad to be so constructed, maintained and operated as to perpetually preserve said passage. Also reserving and excepting all riparian, water and river rights so far as the exercise and use of said rights do not materially interfere with the maintenance, and the practical and safe opera-

tion of said rail road.

Also excepting and reserving the right to construct and maintain race-ways under the track of the said rail road for the passage of water from said water power canal across said strip of land, but such race-ways are to be so constructed and used as not to interfere with the practical and safe operation of the rail road of said party of the second part, nor with its maintenance as now constructed.

Also excepting the spur or "Y" track, and its necessary appurtenances, connecting the rail road of said party of the second part with the rail road of the Milwaukee, Lake Shore and Western Railway Company, as said spur or "Y" track has been constructed and is now used in common by said railway com panies.

And the said parties of the first part, for themselves, their heirs executors and administrators do covenent and agree to and with the said party of the second part, its successors and assigns, that at the time of the ensealing and delivery of these presents, they are well seized of the premises above described, in fee simple, and that the same are free and clear from all incumbrancees, and that the above bargained premises in the quiet and peaceable possession of the said party of the second part, its successors and assigns, against all and every person or persons lawfully claiming the whole, or any part thereof, they will forever warrant and defend.

IN WITNESS WHEREOF, the said parties of the first part have hereto set their hands and seals this day of in the year of our Lord, One Thousand Eight Hundred and Eighty Eight.

In Presence of
M. J. O'Reilly
Edwd. B. Confoot

Edward D. Brown (Seal)
Anderson W. Brown (Seal)
Anna A. Brown (Seal)
Juliet D. Brown (Seal)
Edward O. Brown (Seal)

By Webster E. Brown
Their Attorney in fact

Webster E. Brown (Seal)

State of Wisconsin)
(SS
County of Oneida)

Personally came before me this 6th day of July 1888, the above named Edward D. Brown, Anderson W. Brown, Anna A. Brown, Juliet D. Brown and Edward O. Brown, by Webster E. Brown their attorney in fact, and Webster E. Brown, to me known to be the persons who executed the forging instrument, and acknowledged the same.

Wm. Barnes
Notary Public
Onei. Co.

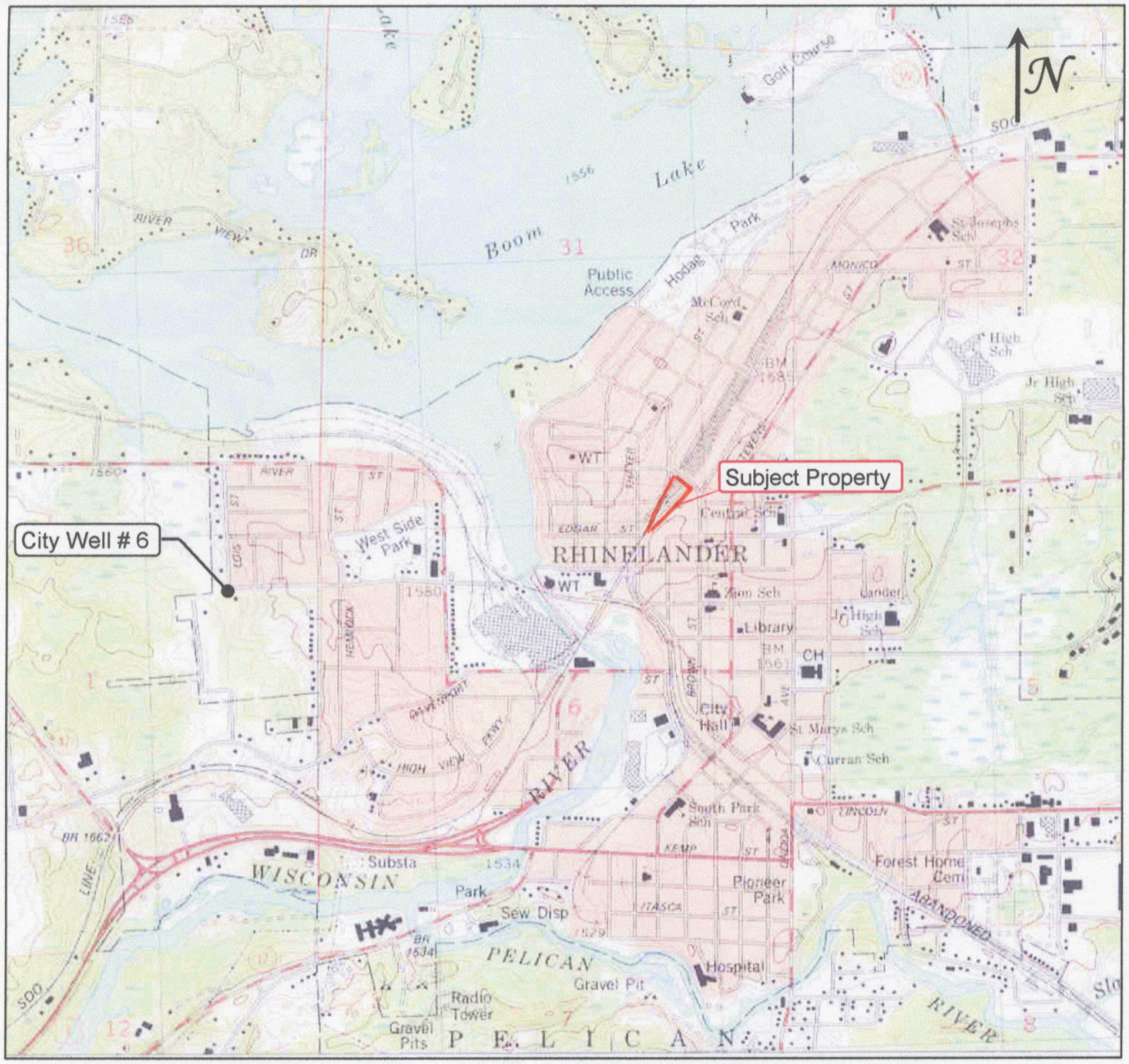
Wisconsin Central Rhinelander Rail Yard

Legend

- Sites Closed with Residual Contamination
- Groundwater
- Soil
- Groundwater and Soil
- Offsource Contamination
- County Boundary
- 24K Open Water
- Municipalities

Scale: 1:2,272

DO NOT USE FOR NAVIGATION



Source: USGS Rhinelander, Wisconsin 7.5 Minute Topographic Quadrangle Map, dated 1982.

STS Consultants Ltd.
Consulting Engineers
3909 Concord Avenue
Schofield, Wisconsin 54476
715.355.4304

Site Location Map
Wisconsin Central, Ltd.
Rhinelander Rail Yard
PIN #s 5663221, 5663222, and 5660118
437 North Brown Street
Rhinelander, Wisconsin

DRAWN BY:	RSR	01/24/05
CHECKED BY:	RSR	01/24/05
APPROVED BY:		
CADFILE:	SCALE: 1" = 2,000'	
STS PROJECT NO. 4-28299XB	FIGURE NO. 1	

K:\Projects\428299XB (Rhinelander Remediation)\ENG\Figures\28299XB-Site Location Map.xls

NOTES:

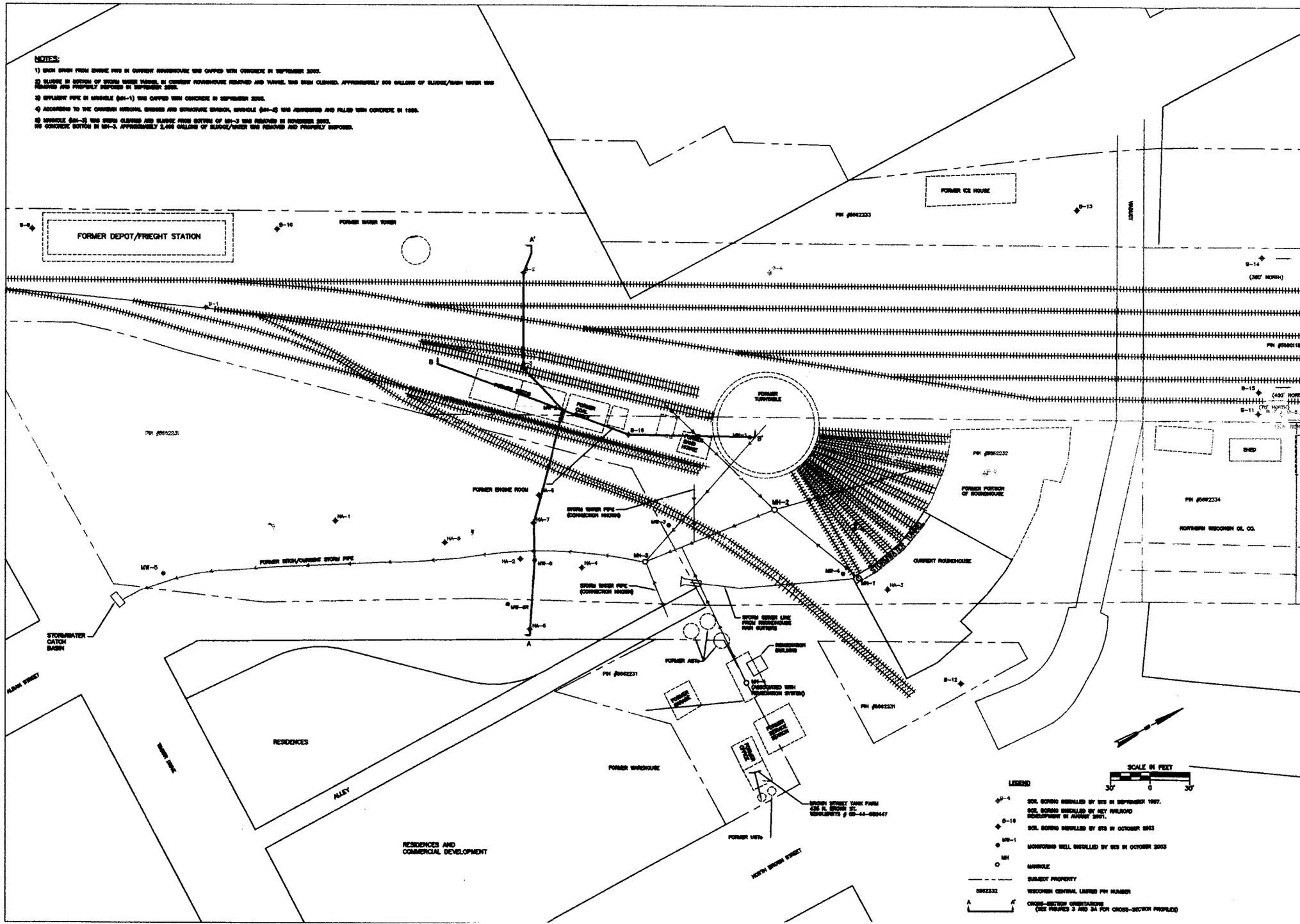
1) DRAIN DRAIN FROM ENGINE PIT IN CURRENT ROUNDHOUSE WAS CAPPED WITH CONCRETE IN SEPTEMBER 2003.

2) SLUDGE IN BOTTOM OF DRAIN WATER TUNNEL IN CURRENT ROUNDHOUSE REMOVED AND TUNNEL WAS DRAIN CLEANED. APPROXIMATELY 500 GALLONS OF SLUDGE/RAIN WATER WAS REMOVED AND PROPERLY DISPOSED IN SEPTEMBER 2003.

3) EFFLUENT PIPE IN MANHOLE (MH-1) WAS CAPPED WITH CONCRETE IN SEPTEMBER 2003.

4) ACCORDING TO THE CANADIAN NATIONAL ENGINEER AND STRUCTURE DIVISION, MANHOLE (MH-4) WAS ABANDONED AND FILLED WITH CONCRETE IN 1989.

5) MANHOLE (MH-3) WAS DRAIN CLEANED AND SLUDGE FROM BOTTOM OF MH-3 WAS REMOVED IN NOVEMBER 2003.
NO CONCRETE BOTTOM IN MH-3. APPROXIMATELY 2,400 GALLONS OF SLUDGE/WATER WAS REMOVED AND PROPERLY DISPOSED.



DESIGNED BY RLD	DATE 11/11/03				
DRAWN BY DJM	DATE 1/17/05				
APPROVED BY RSR	DATE 1/17/05				
CLIENT					
DESCRIPTION				DATE	BY

SOIL BORING/GROUNDWATER MONITORING WELL
WISCONSIN CENTRAL LIMITED, (RHINELANDER YARD)
PIN #s 5662231, 5662232, AND 5660118
437 NORTH BROWN STREET
RHINELANDER, WISCONSIN

STS Consultants Ltd.
Consulting Engineers
3925 Corporal Ave.
Schofield, WI 54476
715-355-4304

STS PROJECT NUMBER
28299XB

STS PROJECT FILE

SCALE
1" = 30'

SHEET NUMBER
FIGURE 2

Table 1
STS's 1997 Soil Analytical Results
Wisconsin Central Ltd.
Rhinelander Rail Yard
PIN #s 5662231, 5662232, and 5660118
437 North Brown Street
Rhinelander, Wisconsin
STS Project No. 28299XB

Sample Location Sample Depth (feet) Date PID/[FID] Readings	B-1 0-2 9/12/97 [45]	B-2 0-2 9/12/97 [<1]	B-3 0-2 9/12/97 [4]	B-4 0-2 9/12/97 [1.5]	B-5 0-2 9/12/97 [30]	B-6 0-2 9/12/97 [1]	B-7 0-2 9/12/97 [20]	B-8 0-2 9/12/97 [1.5]	Groundwater Pathway RCL	Industrial Direct Contact RCL	Free Product Indicator
GRO (mg/kg)	--	--	--	--	--	--	--	--	100	--	--
DRO (mg/kg)	21	--	**770[A]**	29	--	--	--	--	100	--	--
TOC (mg/kg)	--	26,000	--	--	--	5,600	--	--	--	--	--
									--	--	--
Metals (mg/kg)									--	--	--
Arsenic	**4.9[B]**	--	--	**6.5[B]**	**3.5[B]**	--	--	--	--	1.6	--
Cadmium	<0.28	--	--	<0.30	0.78	--	--	--	--	510	--
Chromium	6.6	--	--	12	18	--	--	--	--	200	--
Lead	140	--	--	120	120	--	--	--	--	500	--
										--	--
Detected PVOC/VOCs (ug/kg)											
Benzene	--	**140[A]**	--	--	<25	**47[A]**	**38[A]**	<25	5.5	1,100	8,500
Ethylbenzene	--	210	--	--	<25	73	120	31	2,900	(102,000)	4,600
MTBE	--	<25	--	--	<25	<25	<25	<25	--	--	--
Toluene	--	760	--	--	28	270	340	100	1,500	(204,000)	38,000
1,2,4-Trimethylbenzene	--	380	--	--	<25	230	320	82	(7,500)	(51,100)	83,000
1,3,5-Trimethylbenzene	--	140	--	--	<25	61	97	35	(3,500)	(51,100)	11,000
Naphthalene	--	--	--	--	43	280	--	--	--	--	--
sec-Butylbenzene	--	--	--	--	<25	<25	--	--	--	--	--
n-Butylbenzene	--	--	--	--	<25	<25	--	--	--	--	--
Isopropylbenzene	--	--	--	--	<25	56	--	--	--	--	--
p-Isopropyltoluene	--	--	--	--	<25	<26	--	--	--	--	--
n-Propylbenzene	--	--	--	--	<25	69	--	--	--	--	--
Total Xylenes	--	1,350	--	--	29	630	760	218	4,100	(204,000)	42,000
PAHs (ug/kg)											
Acenaphthene	--	<14	--	--	91	<16	<16	<15	38,000	60,000,000	--
Acenaphthylene	--	16	--	--	140	<17	31	370	700	360,000	--
Anthracene	--	23	--	--	440	42	44	410	3,000,000	300,000,000	--
Benzo(a)anthracene	--	180	--	--	550	110	75	1,100	17,000	3,900	--
Benzo(a)pyrene	--	180	--	--	<47	69	66	**970[B]**	48,000	390	--
Benzo(b)fluoranthene	--	130	--	--	<57	110	140	**1,400[B]**	360,000	390	--
Benzo(g,h,i)perylene	--	100	--	--	<55	59	65	390	870,000	39,000	--
Benzo(k)fluoranthene	--	150	--	--	<53	91	100	1,200	6,800,000	39,000	--
Chrysene	--	160	--	--	770	160	160	1,200	37,000	390,000	--
Dibenzo(a,h)anthracene	--	30	--	--	<78	<22	<22	260	38,000	390	--
Fluoranthene	--	270	--	--	1,400	170	220	1,400	500,000	40,000,000	--
Fluorene	--	<17	--	--	98	<19	<19	<18	100,000	40,000,000	--
Indo(1,2,3-cd)pyrene	--	88	--	--	<53	56	62	460	680,000	3,900	--
1-Methyl Naphthalene	--	180	--	--	1,200	590	190	730	23,000	70,000,000	--
2-Methyl Naphthalene	--	230	--	--	1,400	900	270	1,000	20,000	40,000,000	--
Naphthalene	--	160	--	--	**1,200[A]**	**440[A]**	210	**660[A]**	400	110,000	2,700
Phenanthrene	--	160	--	--	1,000	460	210	700	1,800	390,000	--
Pyrene	--	290	--	--	1,800	150	140	890	8,700,000	30,000,000	--

Notes:

RCL: Residual Contaminant Level
GRO: Gasoline Range Organic
TOC Total Organic Carbon
DRO: Diesel Range Organic
PVOC/VOC: Petroleum Volatile Organic Compound / Volatile Organic Compound
PAH: Polynuclear Aromatic Hydrocarbon
mg/kg: Milligrams per kilogram
ug/kg: Micrograms per kilogram

[A]: Concentration exceeds NR 720 groundwater protection RCL
[B]: Concentration exceeds NR 720 industrial direct contact RCL
[C]: Concentration exceeds NR 746 Table 1 free product indicator value
(190,000): RCL values in parentheses are calculated based on generic equations per WDNR guidance.
--: Not Analyzed or Not Applicable

Table 2
STS's 1997 Groundwater Analytical Results
Wisconsin Central Ltd.
Rhinelander Rail Yard
PIN #s 5662231, 5662232, and 5660118
437 North Brown Street
Rhinelander, Wisconsin
STS Project No. 4-28299XB

Monitoring Well	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	NR 140 PAL	NR 140 ES
Date	09/11/97	09/11/97	09/11/97	09/11/97	09/11/97	09/11/97	09/11/97	09/11/97		
Analyte	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
VOCs										
Benzene	NA	<0.16	**0.76**[A]	NA	NA	<0.41	<0.16	<0.16	0.5	5
Ethylbenzene	NA	<0.29	0.23	NA	NA	<0.23	<0.29	<0.29	140	700
Toluene	NA	<0.36	1.1	NA	NA	<0.28	<0.36	<0.36	68.6	343
Xylene, total	NA	<1.15	0.34	NA	NA	<0.79	<1.15	<1.15	124	620
1,2,4-Trimethylbenzene	NA	0.31	0.35	NA	NA	0.71	1.2	0.49	NE	NE
1,3,5-Trimethylbenzene	NA	<0.34	<0.25	NA	NA	<0.25	0.35	0.34	NE	NE
Methyl-tert-butyl Ether	NA	<0.20	<0.53	NA	NA	<0.53	<0.20	<0.20	12	60
Naphthalene	NA	NA	3.8	NA	NA	<0.66	NA	NA	20	100
Metals										
Arsenic	<1.7	NA	3	NA	NA	<4.7	NA	NA	5	50
Cadmium	<0.30	NA	<0.30	NA	NA	<0.30	NA	NA	0.5	5
Chromium	<0.74	NA	<0.74	NA	NA	<0.74	NA	NA	10	100
Lead	<1.6	NA	<1.6	NA	NA	<1.6	NA	NA	1.5	15
BNAs										
Nonacosane	NA	NA	NA	NA	2.2	NA	NA	NA	NE	NE
Tritetracontane	NA	NA	NA	NA	3.3	NA	NA	NA	NE	NE
Ocadecane, 2-methyl-	NA	NA	NA	NA	5.3	NA	NA	NA	NE	NE
Tricosane	NA	NA	NA	NA	4.2	NA	NA	NA	NE	NE
Pentacosane	NA	NA	NA	NA	2.1	NA	NA	NA	NE	NE
PAHs										
Acenaphthene	<0.51	<0.51	<10	<0.51	<0.51	<0.51	<0.51	<0.51	NE	NE
Acenaphthylene	<0.46	<0.46	<9.2	<0.46	<0.4	<0.4	<0.4	<0.4	NE	NE
Anthracene	<0.019	<0.019	<0.38	<0.019	<0.019	<0.019	<0.019	<0.019	NE	NE
Benzo(a)anthracene	<0.011	0.022	0.26	<0.011	<0.011	<0.011	<0.011	0.28	NE	NE
Benzo(a)pyrene	<0.011	**0.025**[A]	<0.22	0.013	<0.011	<0.011	<0.011	**0.19**[A]	0.02	0.2
Benzo(b)flouroanthene	<0.010	0.046	<0.20	0.016	<0.010	<0.010	<0.010	0.36	NE	NE
Benzo(g,h,i)perylene	<0.011	0.038	<0.22	0.021	<0.011	<0.011	<0.011	0.29	NE	NE
Benzo(k)flouranthene	<0.0080	0.027	<0.16	<0.0080	<0.0080	<0.0080	<0.0080	0.16	NE	NE
Chrysene	<0.013	0.024	0.48	0.016	<0.013	<0.013	<0.013	0.21	NE	NE
Dibenzo(a,h)anthracene	<0.012	0.029	<0.24	0.017	<0.012	<0.012	<0.012	0.24	NE	NE
Flouranthene	<0.011	0.024	0.41	<0.011	0.031	<0.011	<0.011	0.14	NE	NE
Flourene	<0.061	0.066	2.3	0.08	0.072	0.064	0.066	<0.061	80	400
Indeno(1,2,3-c,d)pyrene	<0.012	0.073	<0.24	<0.012	<0.012	<0.012	<0.012	0.35	NE	NE
1-Methylnaphthalene	0.53	0.9	<9.0	1.6	0.80	0.96	1.0	1.1	NE	NE
2-Methylnaphthalene	<0.42	0.66	<8.4	1.8	0.47	0.74	1.2	0.73	NE	NE
Naphthalene	<0.48	<0.48	<9.6	1.2	<0.48	<0.48	<0.48	<0.48	8	400
Phenanthrene	0.056	0.094	2.6	0.10	0.18	0.095	0.14	0.15	NE	NE
Pyrene	<0.010	0.037	0.31	<0.010	0.029	0.010	<0.010	0.21	NE	NE

Notes:
NA = Not Analyzed
µg/l = micrograms per liter
NR 140 ES = NR 140 Enforcement Standard
NR 140 PAL = NR 140 Preventive Action Limit
[B] = NR 140 Enforcement Standard Exceedance
[A] = NR 140 Preventive Action Limit Exceedance
NE = Not Established

Table 4
Key's 2001 Groundwater Analytical Results
Wisconsin Central Ltd.
Rhinelander Rail Yard
PIN #s 5662231, 5662232, and 5660118
437 North Brown Street
Rhinelander, Wisconsin
STS Project No. 4-28299XB

PARAMETERS	SAMPLE IDENTIFICATION									NR 140	
	GP-1	GP-4	GP-5	GP-9	GP-11	GP-14	GP-16	GP-18	MH-1	ES	PAL
Date Collected	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	08/09/01	08/20/01	---	---
Oil & Grease (HEM) (mg/l)	---	---	---	---	---	---	---	---	<1.1		
Detected VOCs (µg/l)											
n-Butylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.53	<0.13	---	---	---
Chloromethane	<0.63	<0.63	<0.63	<0.63	<0.63	**24[B]**	<0.63	<0.63	---	3	0.3
Toluene	<0.41	0.45Q	1.1Q	<0.41	0.57Q	<0.41	<0.41	0.5Q	---	700	140
1,2,4-Trimethylbenzene	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	0.57Q	<0.26	---	480	96
Detected PAHs (µg/l)											
Anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.027Q	3,000	600
Benzo(k)flouranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.015Q	---	---
2-Methyl naphthalene	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.22Q	---	---
Pyrene	<0.059	<0.059	<0.059	<0.059	<0.059	<0.059	<0.059	<0.059	0.093Q	250	50
Phenanthrene	<0.037	0.09Q	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	0.1Q	---	---

Notes:

--- - , not analyzed, not applicable or no standard established
mg/l - milligrams per liter
PAHs - Polynuclear aromatic hydrocarbons
Q - analyte detected between limit of detection and limit of quantitation
µg/l - micrograms per liter
VOCs - volatile organic compounds
[A] : NR 140 Preventive Action Limit (PAL) Exceedance
[B] : NR 140 Enforcement Standard (ES) Exceedance

TABLE 6
Summary of Groundwater Field Parameters
Wisconsin Central Ltd.
Rhinelander Rail Yard
PIN #s 5662231, 5662232, and 5660118
Rhinelander, Wisconsin
STS Project No. 28299XB

Well No.	Date	Easting X-Coordinate	Northing Y-Coordinate	Ground Elevation (MSL)	Top PVC Elevation (MSL)	Depth to Water (feet)*	Depth of Well (feet)	Free Product Thickness (feet)	Elevation Water (MSL)	Volume Purged (gallons)	Color	Odor	Turbidity
MW-1	10/7/2003	9766.677	9972.572	1557.43	1557.10	5.34	11.50	None Present	1551.76	17	clear	None	Low
MW-2	10/7/2003	9679.869	9898.257	1556.87	1556.44	2.82	7.10	None Present	1553.62	2.5	Light Gray	Slight Petroleum	Medium
MW-3	10/7/2003	9785.541	9917.370	1555.03	1554.68	4.77	11.00	None Present	1549.91	20	Light Brown	Slight Petroleum	Medium
MW-4	10/7/2003	9873.794	10016.821	1556.93	1556.62	5.11	13.00	None Present	1551.51	22	Clear	Slight Petroleum	Low
MW-5	10/7/2003	9649.678	9590.722	1544.45	1546.76	3.37	10.00	None Present	1543.39	30	clear	None	Low
MW-6R	10/13/2004	--	--	1548.12	1550.98	3.65	5.00	None Present	1547.33	5	Clear	None	Low

Notes:

*: Water level measured from top of PVC.

MSL: Mean Sea Level

TABLE 7
STS's 2003 Groundwater Laboratory Results
Wisconsin Central Ltd.
Rhinelander Rail Yard
PIN #s 5662231, 5662232, and 5660118
Rhinelander, Wisconsin
STS Project No. 28299XB

Well No.	Date	Detected Volatile Organic Compounds (VOCs)											Detected Polynuclear Aromatic Hydrocarbons (PAHs)					
		Benzene (µg/l)	Ethylbenzene (µg/l)	Toluene (µg/l)	Xylene (µg/l)	Total TMB (µg/l)	n-PropBz (ug/L)	Naphthalene (ug/L)	IsoPBz (ug/L)	sec-BuBz (ug/L)	MTBE (µg/l)	Total VOCs (µg/l)	Acenaphthene (µg/l)	Anthracene (µg/l)	Fluoranthene (µg/l)	Fluorene (µg/l)	Napththalene (µg/l)	Phenanthrene (µg/l)
MW-1	10/7/2003	<1	<1	<1	<3	<2	--	--	--	--	<4	0	0.59	0.14	<0.10	0.9	<0.52	0.32
MW-2	10/7/2003	<1	<1	<1	<3	<2	--	--	--	--	<4	0	<0.53	<0.053	<0.11	<0.11	<0.53	0.18
MW-3	10/7/2003	<1	16	<1	8.3	36.9	--	--	--	--	<4	61.2	<0.52	0.87	<0.10	8	42[B]	9.1
MW-4	10/7/2003	<1	<1	<1	<3	2.6	--	--	--	--	<4	2.6	<0.52	<0.052	<0.10	<0.1	<0.52	<0.052
MW-5	10/7/2003	<1	<1	<1	<3	<2	--	--	--	--	<4	0	<0.52	3.3	2.4	5	<0.52	15
On-Site Manhole	10/7/2003	<1	<1	<1	<3	<2	--	--	--	--	<4	0	<0.53	<0.053	<0.11	<0.11	<0.53	<0.053
MW-6	7/1/2004	<1	<1	<1	4.3	9.6	3.9	41[B]	4.4	5.4	<1	27.6	<0.65	<0.065	<0.13	3.8	<0.65	4.6
MW-6R	10/13/2004	<1	<1	<1	<3	<2	--	--	--	--	<4	0	<0.52	<0.052	<0.10	<0.10	<0.52	<0.052
Stormwater outfall at Timber Drive	10/7/2003 (Dry)	<1	<1	<1	<3	<2	--	--	--	--	<4	0	<0.54	<0.054	<0.11	<0.11	<0.54	<0.054
	11/5/03 (Wet)	<1	<1	<1	<3	<2	--	--	--	--	<4	0	<0.52	<0.052	<0.10	<0.10	<0.52	<0.052
Enforcement Standards		5	700	343	10000	480	--	40	--	--	60	--	--	3000	400	400	40	--
Preventive Action Limits		0.5	140	68.6	1000	96	--	8	--	--	12	--	--	600	80	80	8	--

Notes:

TMB: 1,2,4 and 1,3,5-Trimethylbenzenes

MTBE: Methyl tert butyl ether

--: Not Analyzed / Not Applicable

n-PropBz: n-Propylbenzene

IsoPBz: Isopropylbenzene

sec-BuBz: sec-Butylbenzene

ug/l: Micrograms per liter

[A]: NR 140 Preventive Action Limit Exceedance

[B]: NR 140 Enforcement Standard Exceedance

Table 5 cont.
STS's Supplemental Investigation Soil Analytical Results
Wisconsin Central Ltd.
Rhinelander Rail Yard
PIN #s 5662231, 5662232, and 5660118
437 North Brown Street
Rhinelander, Wisconsin
Project No. 28299XB

Sample Location	MW-6	HA-4	HA-5	HA-6	HA-7	HA-8	Groundwater Pathway RCL	Industrial Direct Contact RCL	Free Product Indicator
Sample Depth (feet)	6-7	2-4	2-4	2-4	2-4	2-4			
Date	11/20/03	11/20/03	11/20/03	11/20/03	11/20/03	11/20/03			
PID/[FID] Readings	<1	<1	<1	<1	300	<1			
DRO(mg/kg)	51	13	39	24	**9,300**[A]	23	100	--	--
TOC (mg/kg)	--	--	--	--	--	--	--	--	--
Metals (mg/kg)									
Arsenic	--	--	--	--	--	--	--	1.6	--
Detected PVOCs (ug/kg)									
Benzene	<100	<65	<60	<57	<570	<57	5.5	1,100	8,500
Ethylbenzene	<100	<65	<60	<57	2,400	68	2,900	(102,000)	4,600
MTBE	<410	<260	<240	<230	<2,300	<230	--	--	--
Toluene	<100	<65	260	<57	580	230	1,500	(204,000)	38,000
1,2,4-Trimethylbenzene	<100	<65	140	<57	73,000	<57	(7,500)	(51,100)	83,000
1,3,5-Trimethylbenzene	<100	<65	<60	<57	**38,000**[C]	290	(3,500)	(51,100)	11,000
Total Xylenes	<300	<200	400	<170	**18,000**[A]	530	4,100	(204,000)	42,000
PAHs (ug/kg)									
Acenaphthene	<340	<220	<200	<190	<200	<190	38,000	60,000,000	--
Acenaphthylene	<660	<430	400	<370	<380	<370	700	360,000	--
Anthracene	<34	<22	24	<19	1100	31	3,000,000	300,000,000	--
Benzo(a)anthracene	<34	<22	<20	<19	<200	<19	17,000	3,900	--
Benzo(a)pyrene	<34	32	140	<19	<20	170	48,000	390	--
Benzo(b)fluoranthene	<66	<43	120	<37	<38	160	360,000	390	--
Benzo(g,h,i)perylene	<66	<43	170	<37	<38	150	870,000	39,000	--
Benzo(k)fluoranthene	<34	<22	<20	<19	<20	89	6,800,000	39,000	--
Chrysene	<34	51	160	25	<20	240	37,000	390,000	--
Dibenz(a,h)anthracene	<66	<43	<39	190	<38	<37	38,000	390	--
Fluoranthene	<66	<43	<39	<37	<38	<37	500,000	40,000,000	--
Fluorene	<66	<43	<39	<37	2,800	<37	100,000	40,000,000	--
Indeno(1,2,3-cd)pyrene	<34	23	78	<19	<20	170	680,000	3,900	--
1-Methyl Naphthalene	--	--	--	--	--	--	23,000	70,000,000	--
2-Methyl Naphthalene	--	--	--	--	--	--	20,000	40,000,000	--
Naphthalene	<340	<220	240	<190	**3,300**[A,C]	<190	400	110,000	2,700
Phenanthrene	81	53	190	<19	**6,800**[A]	170	1,800	390,000	--
Pyrene	<34	<22	<20	<19	<20	<19	8,700,000	30,000,000	--

Notes:
RCL: Residual Contaminant Level
TOC Total Organic Carbon
DRO: Diesel Range Organic
PVOC: Petroleum Volatile Organic Compound
PAH: Polynuclear Aromatic Hydrocarbon
mg/kg: Milligrams per kilogram
ug/kg: Micrograms per kilogram
PID/FID: Photoionization Detector/Flame Ionization Detector
[A]: Concentration exceeds NR 720 groundwater protection RCL
[B]: Concentration exceeds NR 720 industrial direct contact RCL
[C]: Concentration exceeds NR 746 Table 1 free product indicator value
(190,000): RCL values in parantheses are calculated based on generic equations per WDNR guidance.
--: Not Analyzed or Not Applicable

Table 3
Key's 2001 Soil Analytical Results
Wisconsin Central Ltd.
Rhinelander Rail Yard
PIN #s 5662231, 5662232, and 5660118
437 North Brown Street
Rhinelander, Wisconsin
STS Project No. 28299XB

Sample Location	GP-1		GP-2		GP-3	GP-4	GP-5	GP-6	GP-7	GP-8		GP-9	GP-10	GP-11	GP-12	GP-13	GP-14	GP-15	GP-16	GP-17	GP-18	Groundwater Pathway RCL	Industrial Direct Contact RCL	Free Product Indicator
Sample Depth (feet)	0-2	7-9	2-4	8-10	2-4	0-2	0-2	0-2	2-4	0-2	5-7	2-4	0-2	2-4	0-2	0-2	0-2	0-2	2-3	2-3	1-3			
Date	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01	8/9/01			
PID/[FID] Readings	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			
GRO (mg/kg)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100	--	--
DRO (mg/kg)	<10	<10	11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	100	--	--
TOC (mg/kg)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
																						--	--	--
Metals (mg/kg)																						--	--	--
Arsenic	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.65	<0.65	0.76*	--	--	1.6	--
Detected VOCs (ug/kg)																								
Benzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	110[A]	<25	<25	<25	<25	<25	44*[A]	<25	5.5	1,100	8,500
Ethylbenzene	<25	<25	<25	<25	<25	20	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	100	<25	2,900	(102,000)	4,600
MTBE	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	--	--	--
Toluene	<25	<25	30	<25	<25	70	<25	<25	<25	42	<25	<25	<25	660	<25	<25	35	<25	<25	310	<25	1,500	(204,000)	38,000
1,2,4-Trimethylbenzene	<25	<25	32*	<25	<25	62*	<25	<25	<25	32*	<25	<25	<25	370	<25	<25	36*	<25	<25	91	<25	(7,500)	(51,100)	83,000
1,3,5-Trimethylbenzene	<25	<25	<25	<25	<25	29*	<25	<25	<25	<25	<25	<25	<25	100	<25	<25	<25	<25	<25	28*	<25	(3,500)	(51,100)	11,000
Total Xylenes	<75	<75	82	<75	<75	180	<75	<75	<75	100	<75	<75	<75	1,100	<75	<75	120	<75	<75	470	<75	4,100	(204,000)	42,000
PAHs (ug/kg)																								
Acenaphthene	<13	<13	16*	<13	110	17*	16*	<13	<13	<13	<13	<13	<13	56	<13	<13	<13	<13	<13	<13	<13	38,000	60,000,000	--
Acenaphthylene	<13	<10	140	<10	26*	67	<10	<10	<10	<10	<10	<10	<10	100	<10	<10	<10	<10	<10	<10	<10	700	360,000	--
Anthracene	<10	<11	160	<11	260	65	39	<11	<11	11*	<11	<11	<11	360	<11	<11	31*	<11	<11	14*	<11	3,000,000	300,000,000	--
Benzo(a)anthracene	<11	<10	500	<10	470	120	43	15*	<10	18*	<10	<10	<10	300	11*	<10	40	<10	<10	32*	<10	17,000	3,900	--
Benzo(a)pyrene	<10	<17	590[B]	<17	1,100[B]	310	42*	<24	<17	<17	<17	<17	<17	240	<17	<17	20*	<17	<17	21*	<17	48,000	390	--
Benzo(b)fluoranthene	<17	<24	1,000[B]	<24	500[B]	150	42*	<17	<24	26*	<24	<24	<24	360	<24	<24	44*	<24	<24	<24	<24	360,000	390	--
Benzo(g,h,i)perylene	<24	<10	360	<10	540	130	18*	13*	<10	16*	<10	<10	<10	160	<10	<10	18*	<10	<10	14*	<10	870,000	39,000	--
Benzo(k)fluoranthene	<37	<37	<37	<37	<37	<37	<37	<37	<37	<37	<37	<37	<37	320	<37	<37	<37	<37	<37	<37	<37	6,800,000	39,000	--
Chrysene	<10	<10	580	<10	500	170	53	18*	<10	23*	<10	<10	15*	560	14*	<10	64	<10	<10	30	<10	37,000	390,000	--
Dibenzo(a,h)anthracene	<10	<10	180	<10	250	61	<10	<10	<10	<10	<10	<10	<10	100	<10	<10	<10	<10	<10	<10	<10	38,000	390	--
Fluoranthene	<10	<10	1,200	<10	1,000	180	120	31*	<10	19*	<10	<10	15*	400	11*	<10	50	<10	<10	25*	<10	500,000	40,000,000	--
Fluorene	<11	<11	28*	<11	120	18*	11*	<11	<11	<11	<11	<11	<11	64	<11	<11	<11	<11	<11	<11	<11	100,000	40,000,000	--
Indo(1,2,3-cd)pyrene	<13	<13	320	<13	520	89	21*	<13	<13	<13	<13	<13	<13	100	<13	<13	<13	<13	<13	<13	<13	680,000	3,900	--
1-Methyl Naphthalene	<10	<10	47	<10	48	150	<10	<10	<10	55	<10	<10	51	720	31*	<10	560	<10	<10	260	<10	23,000	70,000,000	--
2-Methyl Naphthalene	<17	<17	40*	<17	50*	170	<17	<17	<17	62	<17	<17	53*	1,000	29*	<17	750	<17	<17	330	<17	20,000	40,000,000	--
Naphthalene	<10	<10	52	<10	82	150	<10	<10	<10	47	<10	<10	35	580[A]	23*	<10	520[A]	<10	<10	270	<10	400	110,000	2,700
Phenanthrene	16*	<12	790	<12	950	280	110	26*	<12	65	<12	<12	47	830	26*	<12	450	<12	<12	170	<12	1,800	390,000	--
Pyrene	<13	<13	1,000	<13	870	230	87	36*	<13	22*	<13	<13	15*	480	<13	<13	61	<13	<13	37*	<13	8,700,000	30,000,000	--

Notes:

RCL: Residual Contaminant Level
GRO: Gasoline Range Organic
TOC Total Organic Carbon
DRO: Diesel Range Organic
VOC: Volatile Organic Compound
PAH: Polynuclear Aromatic Hydrocarbon
mg/kg: Milligrams per kilogram
ug/kg: Micrograms per kilogram

*: Concentration detected between the laboratory detection limit and the quantitation limit
A: Concentration exceeds NR 720 groundwater protection RCL
B: Concentration exceeds NR 720 industrial direct contact RCL
C: Concentration exceeds NR 746 Table 1 free product indicator value
(190,000): RCL values in parantheses are calculated based on generic equations per WDNR guidance.
-- Not Analyzed or Not Applicable

Table 5
STS's Supplemental Investigation Soil Analytical Results
Wisconsin Central Ltd.
Rhinelander Rail Yard
PIN #s 5662231, 5662232, and 5660118
437 North Brown Street
Rhinelander, Wisconsin
STS Project No. 28299XB

Sample Location	MW-1		MW-2		MW-3		MW-4		MW-5		HA-1		HA-2		HA-3	B-9	B-10	B-11	B-12	B-13	B-14	B-15	B-16		Groundwater	Industrial	Free Product
Sample Depth (feet)	0-2	6-8	0-2	4-6	2-4	6-8	2-4	6-8	0-2	6-8	0-2	2-4	0-2	2-4	2-3	2	2	2	2	2	2	2	0-2	4-6	Pathway	Direct Contact	Indicator
Date	10/6/03	10/6/03	10/6/03	10/6/03	10/7/03	10/7/03	10/7/03	10/7/03	10/7/03	10/7/03	10/6/03	10/6/03	10/6/03	10/6/03	10/7/03	9/25/03	9/25/03	9/25/03	9/25/03	9/25/03	9/25/03	9/25/03	10/6/03	10/6/03	RCL	RCL	
PID/[FID] Readings	<1	28.6	<1	4.7	16.5	62.1	<1	88.8	<1	<1	<1	<1	1999	196	<1	<1	<1	<1	<1	<1	<1	<1	7	83			
DRO(mg/kg)	17	--	270[A]	--	310[A]	--	18	--	99	--	46	--	9,500[A]	--	18	--	--	--	--	--	--	--	3,800[A]	--	100	--	--
TOC (mg/kg)	--	565	--	558	--	2,000	--	1,400	--	2,000	--	588	--	704	--	--	--	--	--	--	--	--	--	564	--	--	--
Metals (mg/kg)																											
Arsenic	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.56[B]	<2.37	<2.62	10.9[B]	<2.29	<2.55	<2.51	--	--	--	1.6	--
																--	--	--	--	--	--	--					
Detected PVOCs (ug/kg)																											
Benzene	<54	--	560[A]	--	<55	--	120[A]	--	<62	--	<60	--	<310	--	<49	--	--	--	--	--	--	--	<55	--	5.5	1,100	8,500
Ethylbenzene	57	--	830	--	380	--	110	--	<62	--	<60	--	2,400	--	<49	--	--	--	--	--	--	--	<55	--	2,900	(102,000)	4,600
MTBE	<220	--	<210	--	<220	--	<230	--	<250	--	<240	--	<1,200	--	<200	--	--	--	--	--	--	--	<220	--	--	--	--
Toluene	110	--	2,800[A]	--	280	--	600	--	87	--	<60	--	8,600[A]	--	<49	--	--	--	--	--	--	--	<55	--	1,500	(204,000)	38,000
1,2,4-Trimethylbenzene	330	--	2,000	--	790	--	620	--	110	--	340	--	34,000	--	<49	--	--	--	--	--	--	--	500	--	(7,500)	(51,100)	83,000
1,3,5-Trimethylbenzene	<54	--	<54	--	<55	--	<58	--	<62	--	430	--	21,000[C]	--	<49	--	--	--	--	--	--	--	480	--	(3,500)	(51,100)	11,000
Total Xylenes	350	--	5,100[A]	--	1,100	--	1,000	--	190	--	<180	--	8,600[A]	--	<150	--	--	--	--	--	--	--	<170	--	4,100	(204,000)	42,000
PAHs (ug/kg)																											
Acenaphthene	<180	--	<190	--	<190	--	<190	--	<220	--	<210	--	23,000	--	<180	--	--	--	--	--	--	--	2,500	--	38,000	60,000,000	--
Acenaphthylene	<350	--	<360	--	2,300[A]	--	<370	--	<43	--	<400	--	<400	--	<340	--	--	--	--	--	--	--	660	--	700	360,000	--
Anthracene	<18	--	78	--	<19	--	20	--	130	--	<21	--	7500	--	<18	--	--	--	--	--	--	--	<18	--	3,000,000	300,000,000	--
Benzo(a)anthracene	<18	--	<19	--	<19	--	84	--	<22	--	<21	--	<21	--	<18	--	--	--	--	--	--	--	<370	--	17,000	3,900	--
Benzo(a)pyrene	27	--	<19	--	45	--	160	--	390[B]	--	75	--	210	--	<18	--	--	--	--	--	--	--	<18	--	48,000	390	--
Benzo(b)fluoranthene	46	--	290	--	110	--	130	--	340	--	75	--	<40	--	<34	--	--	--	--	--	--	--	<36	--	360,000	390	--
Benzo(g,h,i)perylene	<35	--	<36	--	<38	--	150	--	370	--	82	--	170	--	<34	--	--	--	--	--	--	--	<36	--	870,000	39,000	--
Benzo(k)fluoranthene	19	--	96	--	41	--	69	--	170	--	35	--	150	--	<18	--	--	--	--	--	--	--	<18	--	6,800,000	39,000	--
Chrysene	58	--	240	--	76	--	140	--	340	--	82	--	<21	--	<18	--	--	--	--	--	--	--	<18	--	37,000	390,000	--
Dibenz(a,h)anthracene	<35	--	<36	--	120	--	<37	--	570[B]	--	<40	--	<40	--	<34	--	--	--	--	--	--	--	<36	--	38,000	390	--
Fluoranthene	<35	--	<36	--	<38	--	240	--	370	--	<40	--	<40	--	<34	--	--	--	--	--	--	--	<36	--	500,000	40,000,000	--
Fluorene	<35	--	<36	--	<38	--	<37	--	46	--	<40	--	20,000	--	<34	--	--	--	--	--	--	--	<36	--	100,000	40,000,000	--
Indeno(1,2,3-cd)pyrene	<18	--	29	--	<19	--	160	--	270	--	64	--	<21	--	<18	--	--	--	--	--	--	--	<18	--	680,000	3,900	--
1-Methyl Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	23,000	70,000,000	--
2-Methyl Naphthalene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20,000	40,000,000	--
Naphthalene	<180	--	<190	--	<190	--	<190	--	<220	--	<210	--	33,000[A,C]	--	<180	--	--	--	--	--	--	--	<180	--	400	110,000	2,700
Phenanthrene	88	--	1,400	--	560	--	270	--	340	--	120	--	68,000[A]	--	<18	--	--	--	--	--	--	--	<18	--	1,800	390,000	--
Pyrene	<18	--	<19	--	<19	--	250	--	370	--	<21	--	<410	--	<18	--	--	--	--	--	--	--	<18	--	8,700,000	30,000,000	--

Notes:

RCL: Residual Contaminant Level
DRO: Diesel Range Organic
TOC Total Organic Carbon
--: Not Analyzed or Not Applicable
PVOC: Petroleum Volatile Organic Compound
PAH: Polynuclear Aromatic Hydrocarbon
mg/kg: Milligrams per kilogram
ug/kg: Micrograms per kilogram

PID/FID: Photoionization Detector/Flame Ionization Detector
[A]: Concentration exceeds NR 720 groundwater protection RCL
[B]: Concentration exceeds NR 720 industrial direct contact RCL
[C]: Concentration exceeds NR 746 Table 1 free product indicator value
(190,000): RCL values in parantheses are calculated based on generic equations per WDNR guidance.

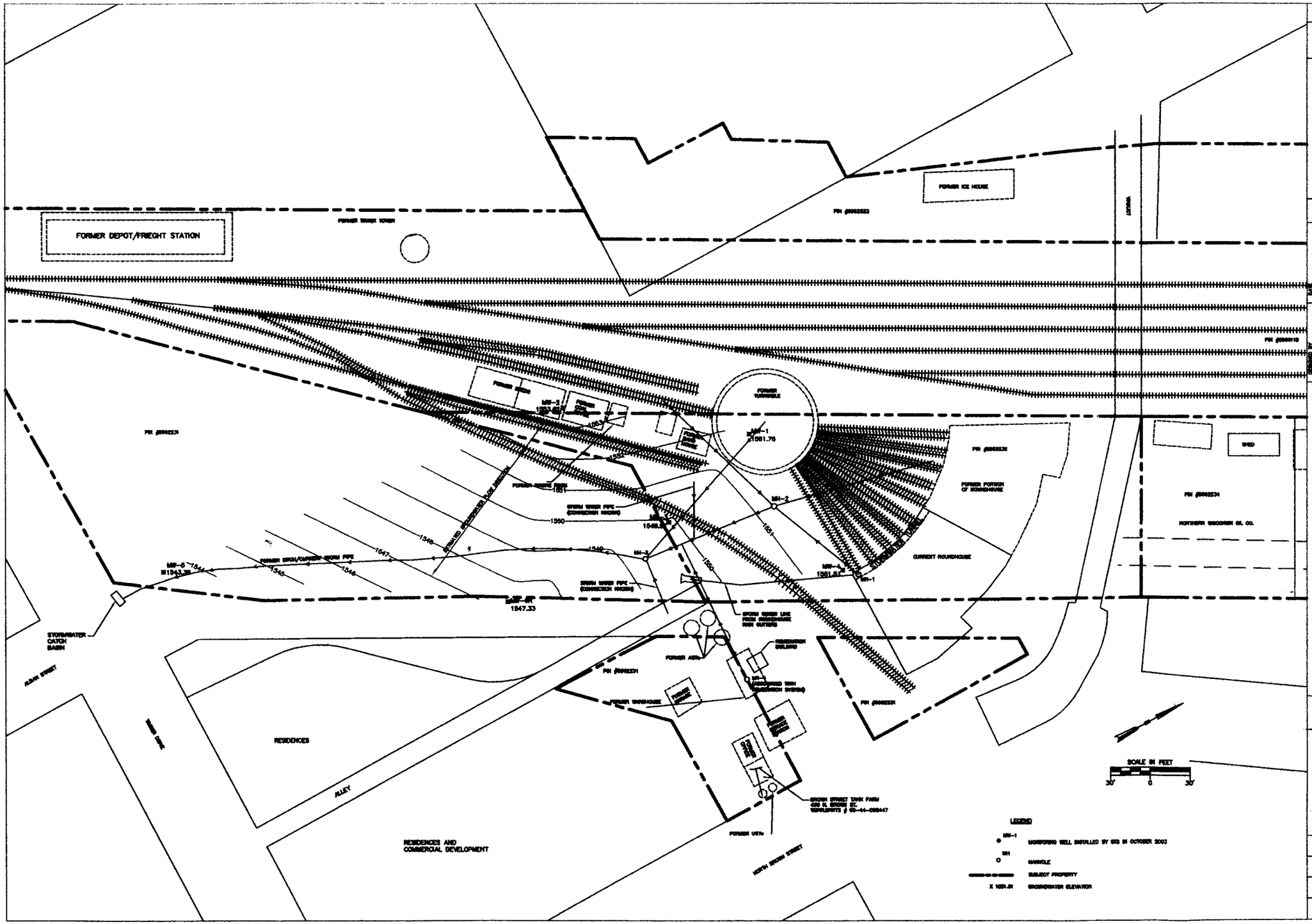
Table 8
Soil Excavation Confirmation Results
Wisconsin Central Ltd.
Rhinelander Rail Yard
PIN #s 5662231, 5662232, and 5660118
437 North Brown Street
Rhinelander, Wisconsin
STS Project No. 28299XB

Sample Location	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	Groundwater Pathway RCL	Industrial Direct Contact RCL	Free Product Indicator
Sample Depth (feet)	3.5	2	1	1	3	2	3	3			
Date	10/12/04	10/12/04	10/12/04	10/12/04	10/13/04	10/13/04	10/13/04	10/13/04			
PID/FID Readings	<1/110	<1/100	<1/2	<1/2	1/500	<1/<1	40/150	50/250			
GRO (mg/kg)	--	--	--	--	--	--	--	--	100	--	--
DRO (mg/kg)	--	--	--	--	--	--	--	--	100	--	--
TOC (mg/kg)	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/kg)											
Arsenic	--	--	--	--	--	--	--	--	--	1.6	--
PVOCs (ug/kg)											
Benzene	<72	<72	<63	<66	<65	<56	<580	<280	5.5	1,100	8,500
Ethylbenzene	<72	77	120	<66	<65	<56	**3,300[A]**	<280	2,900	(102,000)	4,600
MTBE	<290	<290	<250	<0.260	<260	<22	<2,300	<1,100	--	--	--
Toluene	<72	140	400	120	<65	<56	<580	<280	1,500	(204,000)	38,000
1,2,4-Trimethylbenzene	<72	150	220	<66	190	<69	56,100	50,200	(7,500)	(51,100)	83,000
1,3,5-Trimethylbenzene	<72	<62	<63	<66	120	<56	**17,400[A,C]**	**16,500[A,C]**	(3,500)	(51,100)	11,000
Total Xylenes	<220	380	700	<200	<190	<170	13,500	13,300	4,100	(204,000)	42,000
PAHs (ug/kg)											
Acenaphthene	<230	<210	<210	<220	<210	<200	6,200	<190	38,000	60,000,000	--
Acenaphthylene	<450	<410	660	<430	**1,700[A]**	<380	<360	<370	700	360,000	--
Anthracene	<23	37	25	490	<21	<20	2,200	1,100	3,000,000	300,000,000	--
Benzo(a)anthracene	<23	<21	<21	710	<21	<20	<19	<190	17,000	3,900	--
Benzo(a)pyrene	62	<21	52	**980[B]**	<21	<20	<19	<190	48,000	390	--
Benzo(b)fluoranthene	91	120	110	**670[B]**	<41	<38	<36	<37	360,000	390	--
Benzo(g,h,i)perylene	74	100	90	340	<41	<38	<36	<37	870,000	39,000	--
Benzo(k)fluoranthene	43	53	38	400	<21	<20	<19	<19	6,800,000	39,000	--
Chrysene	86	60	130	820	42	26	<19	<19	37,000	390,000	--
Dibenzo(a,h)anthracene	250	<41	180	<860	49	<38	<19	<37	38,000	390	--
Fluoranthene	<45	<41	170	30,400	<41	51	<36	<37	500,000	40,000,000	--
Fluorene	<45	110	<41	1,600	<41	<38	6,600	3,100	100,000	40,000,000	--
Indeno(1,2,3-cd)pyrene	63	82	53	6,100	<21	<20	<19	<19	680,000	3,900	--
1-Methyl Naphthalene	--	--	--	--	--	--	--	--	23,000	70,000,000	--
2-Methyl Naphthalene	--	--	--	--	--	--	--	--	20,000	40,000,000	--
Naphthalene	<230	<210	**470[A]**	<220	**1,000[A]**	<200	**15,600[A,C]**	**5,900[A,C]**	400	110,000	2,700
Phenanthrene	210	300	400	26,100	<21	46	17,300	8,100	1,800	390,000	--
Pyrene	130	140	150	23,600	<21	48	<19	<19	8,700,000	30,000,000	--

Notes:

RCL: Residual Contaminant Level
PVOCs: Petroleum Volatile Organic Compounds
PAH: Polynuclear Aromatic Hydrocarbon
ug/kg: Micrograms per kilogram
PID/FID: Photoionization detector/flame ionization detector
--: Not Analyzed or Not Applicable

[A]: Concentration exceeds NR 720 groundwater protection RCL
[B]: Concentration exceeds NR 720 industrial direct contact RCL
[C]: Concentration exceeds NR 746 Table 1 free product indicator v
(190,000): RCL values in parantheses are calculated based on generic equations per WDNR guidance.



REVISION NO.	DESCRIPTION	DATE	BY

DESIGNED BY RSR	DATE 1/24/05	
DRAWN BY ALB	DATE 1/24/05	
APPROVED BY RSR	DATE 1/24/05	
CADFILE		

GROUNDWATER FLOW DIRECTION 10/7/03
WISCONSIN CENTRAL LIMITED, (RHINELANDER YARD)
PIN #s 5662232, 5662231, 5660118
437 NORTH BROWN STREET
RHINELANDER, WISCONSIN

STS Consultants Ltd.
Consulting Engineers
3000 Ground Ave.
Schofield, WI 54476
715-359-3204

STS PROJECT NUMBER
28299XB

STS PROJECT FILE

SCALE
1" = 30'

SHEET NUMBER
FIGURE 5

NOTE:

EXTENT OF PETROLEUM-IMPACTED SOILS EXCEEDING INDUSTRIAL DIRECT CONTACT RCLs ARE DESIGNATED AS A SUPERSCRIPT "B" AND ARE SCATTERED THROUGHOUT THE RAIL YARD.

CHEMICAL KEY

METALS
- As:ARSENIC
- Cd:CADMIUM
- Cr:CHROMIUM
- Pb:LEAD

PVOCS/VOCS
- B:BENZENE
- T:TOLUENE
- X:XYLENES
- TMB:TRIMETHYLBENZENE

PAHs
- B(a)P:BENZO(A)PYRENE
- DIBENZ:DIBENZ(a,h)ANTHRACENE
- ACEN:ACENAPHTHYLENE
- NAPHT:NAPHTALENE
- B(b)F:BENZO(b)FLUORATHENE
- PHEN:PHENANTHRENE

ABBREVIATIONS

- PID:PHOTOIONIZATION DETECTOR
- FID:FLAME IONIZATION DETECTOR
- PVOC:PETROLEUM VOLATILE ORGANIC COMPOUND
- PAH:POLYNUCLEAR AROMATIC HYDROCARBON
- DRO:DIESEL RANGE ORGANIC
- <LOD:LESS THAN LABORATORY LIMIT OF DETECTION
- DNE:DETECTED NO EXCEEDANCES

NOTES

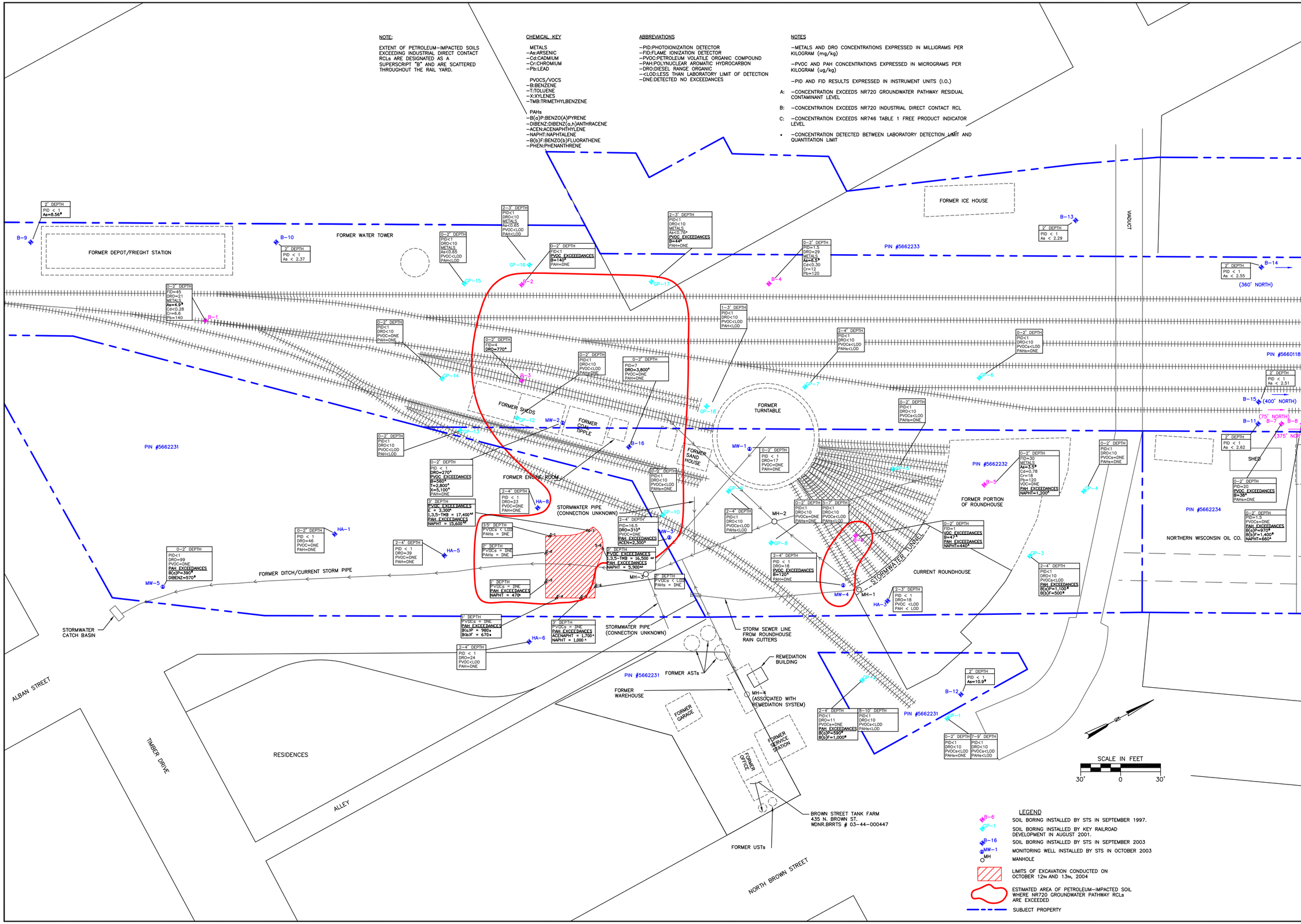
- METALS AND DRO CONCENTRATIONS EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/kg)
- PVOC AND PAH CONCENTRATIONS EXPRESSED IN MICROGRAMS PER KILOGRAM (ug/kg)
- PID AND FID RESULTS EXPRESSED IN INSTRUMENT UNITS (I.O.)

A: —CONCENTRATION EXCEEDS NR720 GROUNDWATER PATHWAY RESIDUAL CONTAMINANT LEVEL

B: —CONCENTRATION EXCEEDS NR720 INDUSTRIAL DIRECT CONTACT RCL

C: —CONCENTRATION EXCEEDS NR746 TABLE 1 FREE PRODUCT INDICATOR LEVEL

* —CONCENTRATION DETECTED BETWEEN LABORATORY DETECTION LIMIT AND QUANTITATION LIMIT



REVISION NO.	DESCRIPTION	DATE	BY

DESIGNED BY RSR	DATE 1/24/05	
DRAWN BY ALB	DATE 1/24/05	
APPROVED BY RSR	DATE 1/24/05	

CADFILE: I:\GEF-GR\28000's\28299XB\Figures\Closure Report Fig's\Soil Results
XREF
LMAN

RESIDUAL PETROLEUM IMPACTED SOILS
WISCONSIN CENTRAL LIMITED, (RHINELANDER YARD)
PIN #s 5662232, 5662231, AND 5660118
437 NORTH BROWN STREET
RHINELANDER, WISCONSIN

STS Consultants Ltd.
Consulting Engineers
3909 Concord Ave.
Schofield, WI 54476
715-355-4304

STS PROJECT NUMBER 28299XB

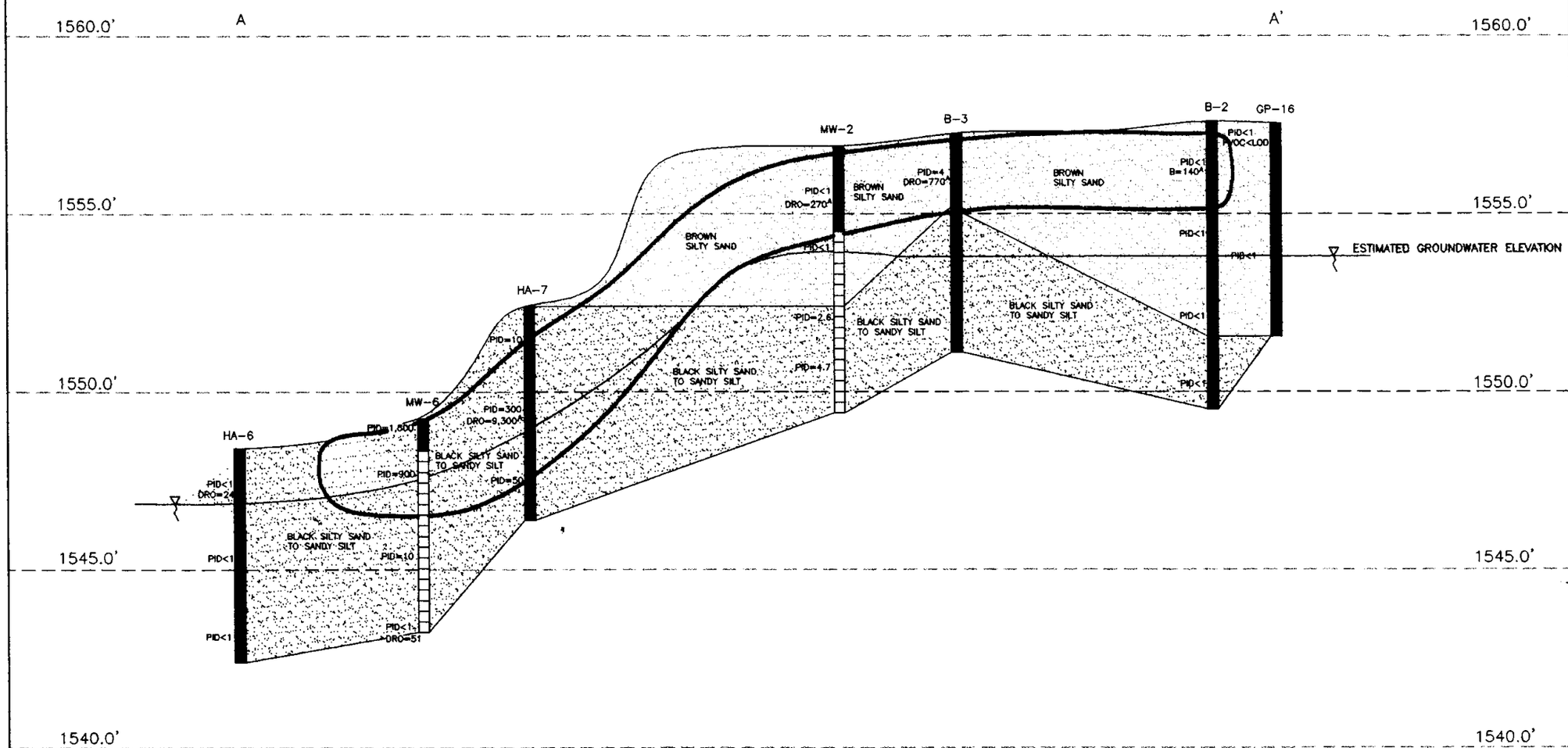
STS PROJECT FILE

SCALE 1"=30'

SHEET NUMBER 4

CROSS-SECTION A-A'

SCALE: HORIZONTAL 1"=30'
VERTICAL 1"=3'



ABBREVIATIONS:
PID=PHOTOIONIZATION DETECTOR
DRO=DIESEL RANGE ORGANIC
B=BENZENE

NOTES:
PID RESULTS EXPRESSED IN INSTRUMENT UNITS (I.U.)
DRO RESULTS EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/kg)
BENZENE RESULTS EXPRESSED IN MICROGRAMS PER KILLOGRAM (ug/kg)
A: CONCENTRATION EXCEEDS NR720 GROUNDWATER PATHWAY RESIDUAL CONTAMINANT LEVELS

ESTIMATED EXTENT OF PETROLEUM-IMPACTED SOIL EXCEEDING NR720 GROUNDWATER PATHWAY RCLs

		DATE
DESIGNED BY	RSR	2/17/05
DRAWN BY	ALB	2/17/05
APPROVED BY	RSR	2/17/05

CADFILE Y:\DEPT-SR\28299XB\FIGURES\CLOSURE REPORT FIGURES\CROSS SECTIONS
XREF

PRE-REMEDIAL SCHEMATIC CROSS-SECTION A-A'
WISCONSIN CENTRAL LIMITED, (RHINELANDER YARD)
PIN #s 5662232, 5662231, AND 5660118
437 NORTH BROWN STREET
RHINELANDER, WISCONSIN

STS Consultants Ltd.
Consulting Engineers
3909 Concord Ave.
Schofield, WI 54476
715-355-4304

STS PROJECT NO.
28299XB

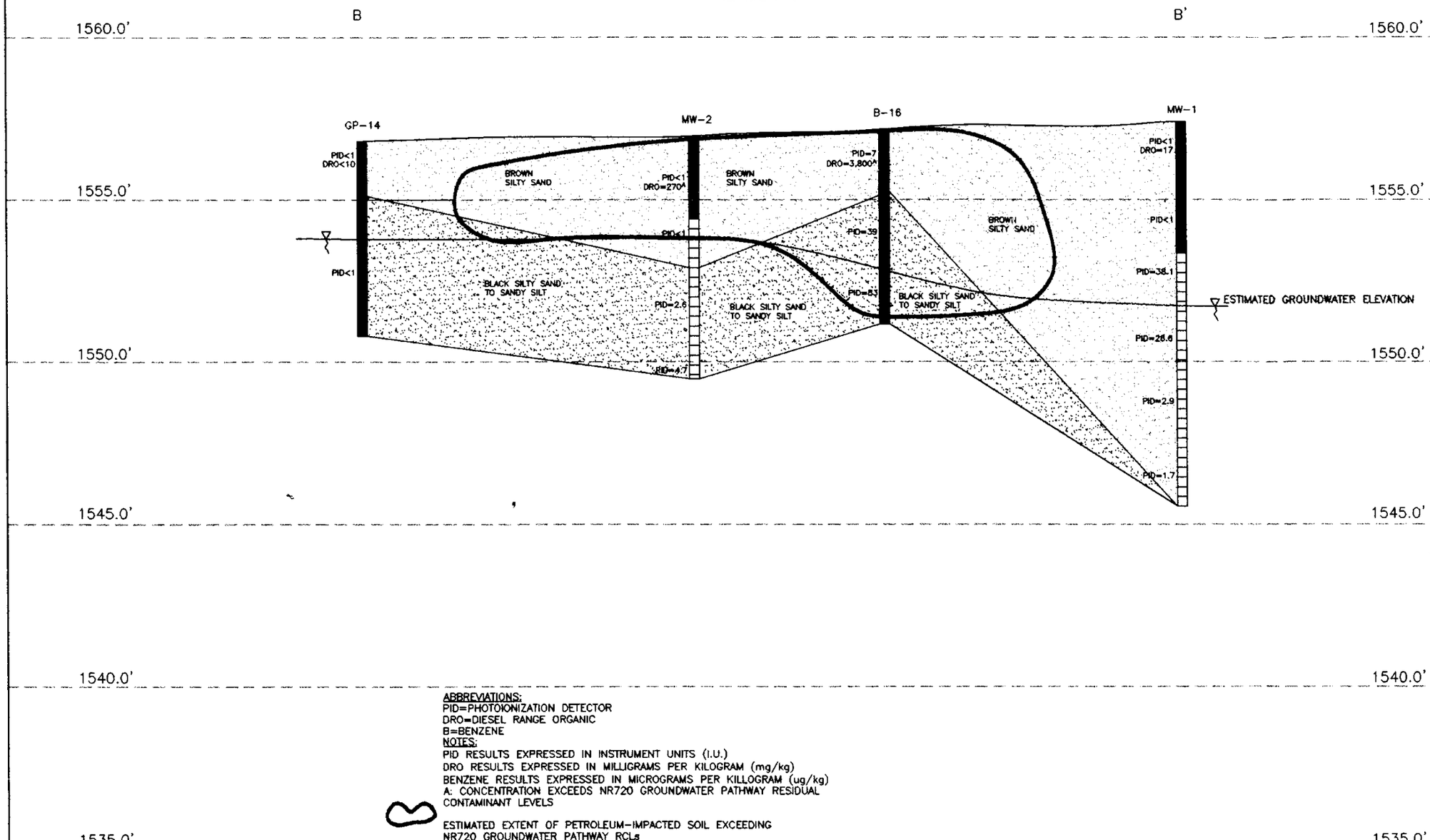
STS PROJECT FILE

SCALE
AS SHOWN

FIGURE NO.
3

CROSS-SECTION B-B'

SCALE: HORIZONTAL 1"=30'
VERTICAL 1"=3'



ABBREVIATIONS:
PID=PHOTOIONIZATION DETECTOR
DRO=DIESEL RANGE ORGANIC
B=BENZENE

NOTES:
PID RESULTS EXPRESSED IN INSTRUMENT UNITS (I.U.)
DRO RESULTS EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/kg)
BENZENE RESULTS EXPRESSED IN MICROGRAMS PER KILLOGRAM (ug/kg)
A: CONCENTRATION EXCEEDS NR720 GROUNDWATER PATHWAY RESIDUAL CONTAMINANT LEVELS

ESTIMATED EXTENT OF PETROLEUM-IMPACTED SOIL EXCEEDING NR720 GROUNDWATER PATHWAY RCLs

DESIGNED BY RSR	DATE 2/17/05	
DRAWN BY ALB	DATE 2/17/05	
APPROVED BY RSR	DATE 2/17/05	
CADFILE Y:\DEPT-DRY\28000s\28299XB\FIGURES\CLOSURE REPORT FIGURES\CROSS SECTIONS		
XREF		

PRE-REMEDIAL SCHEMATIC CROSS-SECTION B-B'
WISCONSIN CENTRAL LIMITED, (RHINELANDER YARD)
PIN #s 5662232, 5662231, AND 5660118
437 NORTH BROWN STREET
RHINELANDER, WISCONSIN

STS Consultants Ltd.
Consulting Engineers
3909 Concord Ave.
Schofield, WI 54476
715-355-4304

STS PROJECT NO.
28299XB

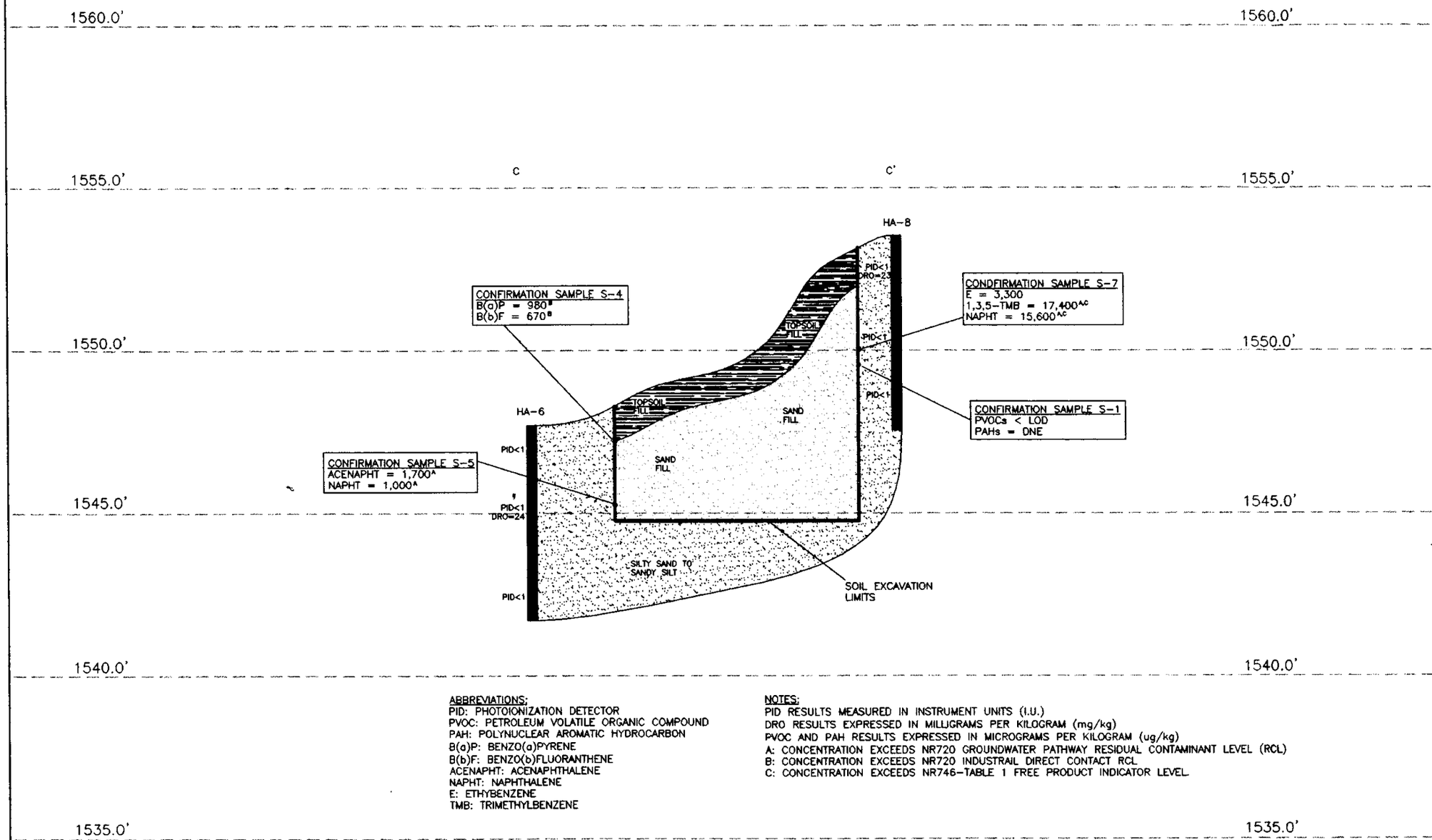
STS PROJECT FILE

SCALE
AS SHOWN

FIGURE NO.
3A

CROSS-SECTION C-C'

SCALE: HORIZONTAL 1"=30'
VERTICAL 1"=3'



ABBREVIATIONS:
PID: PHOTOIONIZATION DETECTOR
PVOC: PETROLEUM VOLATILE ORGANIC COMPOUND
PAH: POLYNUCLEAR AROMATIC HYDROCARBON
B(a)P: BENZO(a)PYRENE
B(b)F: BENZO(b)FLUORANTHENE
ACENAPHT: ACENAPHTHALENE
NAPHT: NAPHTHALENE
E: ETHYBENZENE
TMB: TRIMETHYLBENZENE

NOTES:
PID RESULTS MEASURED IN INSTRUMENT UNITS (I.U.)
DRO RESULTS EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/kg)
PVOC AND PAH RESULTS EXPRESSED IN MICROGRAMS PER KILOGRAM (ug/kg)
A: CONCENTRATION EXCEEDS NR720 GROUNDWATER PATHWAY RESIDUAL CONTAMINANT LEVEL (RCL)
B: CONCENTRATION EXCEEDS NR720 INDUSTRAIL DIRECT CONTACT RCL
C: CONCENTRATION EXCEEDS NR746-TABLE 1 FREE PRODUCT INDICATOR LEVEL

		DATE
DESIGNED BY	RSR	2/18/05
DRAWN BY	ALB	2/18/05
APPROVED BY	RSR	2/18/05

CADFILE Y:\DGTY-DR\28000's\28299DR\FIGURES\CLOSURE REPORT FIGURES\CROSS SECTIONS
XREF

POST-REMEDIAL CROSS-SECTION C-C'
WISCONSIN CENTRAL LIMITED, (RHINELANDER YARD)
PIN #s 5662232, 5662231, AND 5660118
437 NORTH BROWN STREET
RHINELANDER, WISCONSIN

STS Consultants Ltd.
Consulting Engineers
3909 Concord Ave.
Schofield, WI 54476
715-355-4304

STS PROJECT NO.
28299XB

STS PROJECT FILE

SCALE
AS SHOWN

FIGURE NO.
8

STATEMENT OF PROPERTY LEGAL DESCRIPTION

As required by s.NR 726.05(3) of the Wisconsin Administrative Code, I am providing this signed statement that, to the best of my knowledge, the legal description shown below (as indicated on Warranty Deed) is complete and accurate for the Wisconsin Central Rhinelander Rail Yard property located at 437 Brown Street, Rhinelander, Wisconsin.

All the following described lots and parts of lots embraced in the village plat of the village of Rhinelander, Oneida County, Wisconsin, as said plat appears of record in said County, to-wit; Lots two (2), four (4), six (6), and eight (8):, Lot twelve (12), in block five (5): - Lot six (6) in block four (4): Lots two (8), four (4), eight (8), ten (10), and twelve (12) in block three (3).

All those parts of lots ten (10) and twelve (12), in block two (2): Lot six (6), in block three (3), and lots two (2), eight (8) and ten (10) in block five (5), which lie within one hundred (100) feet of the center line of the main line of the rail road of the party of the second part as now constructed and operated, over and across said village plat. Also all that part of Government Lot number one (1), in section six (6), town thirty six (36), range nine (9), east, and Government Lot number six (6) in section thirty one (31), town thirty seven (37), range nine (9), east, in said Oneida County, which lies east of Alban street in said village of Rhinelander, and within two hundred and twenty five (225) feet and east of said center line, and within one hundred (100) feet and west of said center line.

Also all that part of Government Lot ten (10) in said section six (6), which lies within fifty (50) feet of said center line, as said rail road has been constructed and is now operated thereon over and across said section six (6), excepting and reserving all riparian, water and river rights so far as the exercise and use of said rights do not materially interfere with the maintenance, and the practical and safe operation of said railroad.

Also all that part of block ten (10) in said village plat of Rhinelander, which lies within thirty (30) feet of the center line of the rail road of said party of the second part as said railroad is now constructed and operated, - excepting and reserving the right to construct and perpetually to maintain a water power canal sixty (60) feet in width across said strip of land at the north end thereof, said canal to be so constructed as not to interfere with the use of said strip of land, by said party of the second part, for rail road purposes. And said rail road

to be so maintained as never to interfere, with, or to impair the right to build and maintain said canal. Also excepting and reserving a free passage under said rail road, twelve (12) feet wide and twelve (12) feet high, at some feasible and convenient point on said block, outside of said canal, said railroad to be so constructed, maintained and operated as to perpetually preserve said passage. Also reserving and excepting all riparian, water and river rights so far as the exercise and use of said rights do not materially interfere with the maintenance, and the practical and safe operation of said rail road.

x _____ May 11 2006
(Signature) (Date)

GEOFF NOKES
(Name)

MANAGER ENVIRONMENT
(Title)