GRCRS Package Cover Sheet

Site Name RAVLIN BULK PLANT

Site Address 8180 Hwy 10 E., Marshfield

BRRTS # 03-72 000957 Date of Closure Decision _____

✓ Closure letter(s)

✓ Groundwater Use Restriction/Warranty Deed

Yes/No Off-site contamination present? (Include related documents)

Yes/No Right-of-way contamination present? (Include related documents)

✓ General location map

510095.8631899 GPS x-coordinate

4614579.0865077 GPS y-coordinate

✓ Detailed site map(s)

_____ Groundwater flow map(s)

_____ Latest map(s) showing extent or outline of plume

✓ Latest table(s) of analytical results (soil results included only if soil deed restriction is incorporated into groundwater use restriction document)

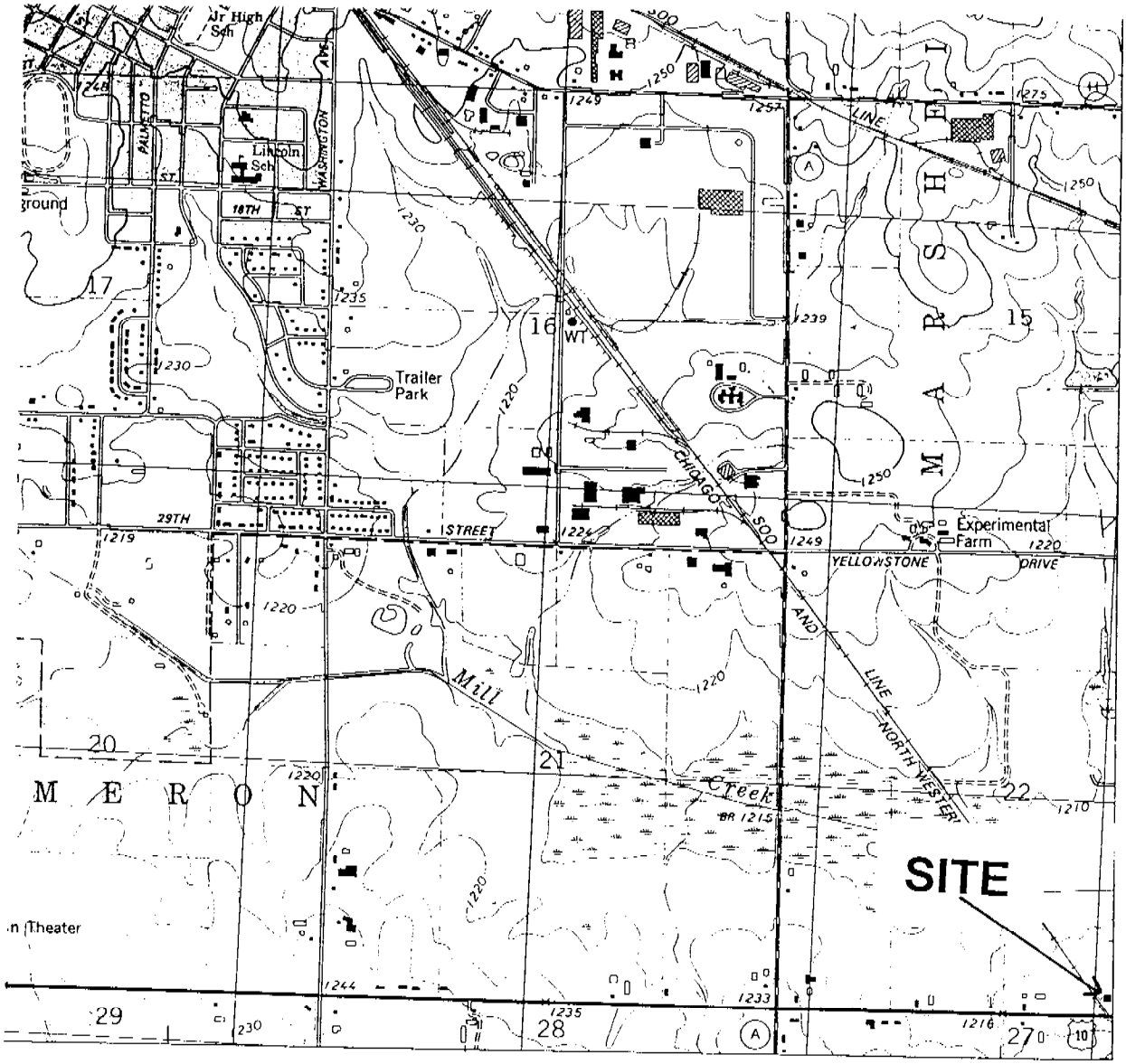
If available:

_____ Legal description

11-00216A & 1100217C WOOD County and Parcel I.D./Tax Parcel No.

✓ Geologic cross sections

_____ Isoconcentrations map(s)



(USGS 1984)

SCALE
1:24000

1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET

N

LOCATION

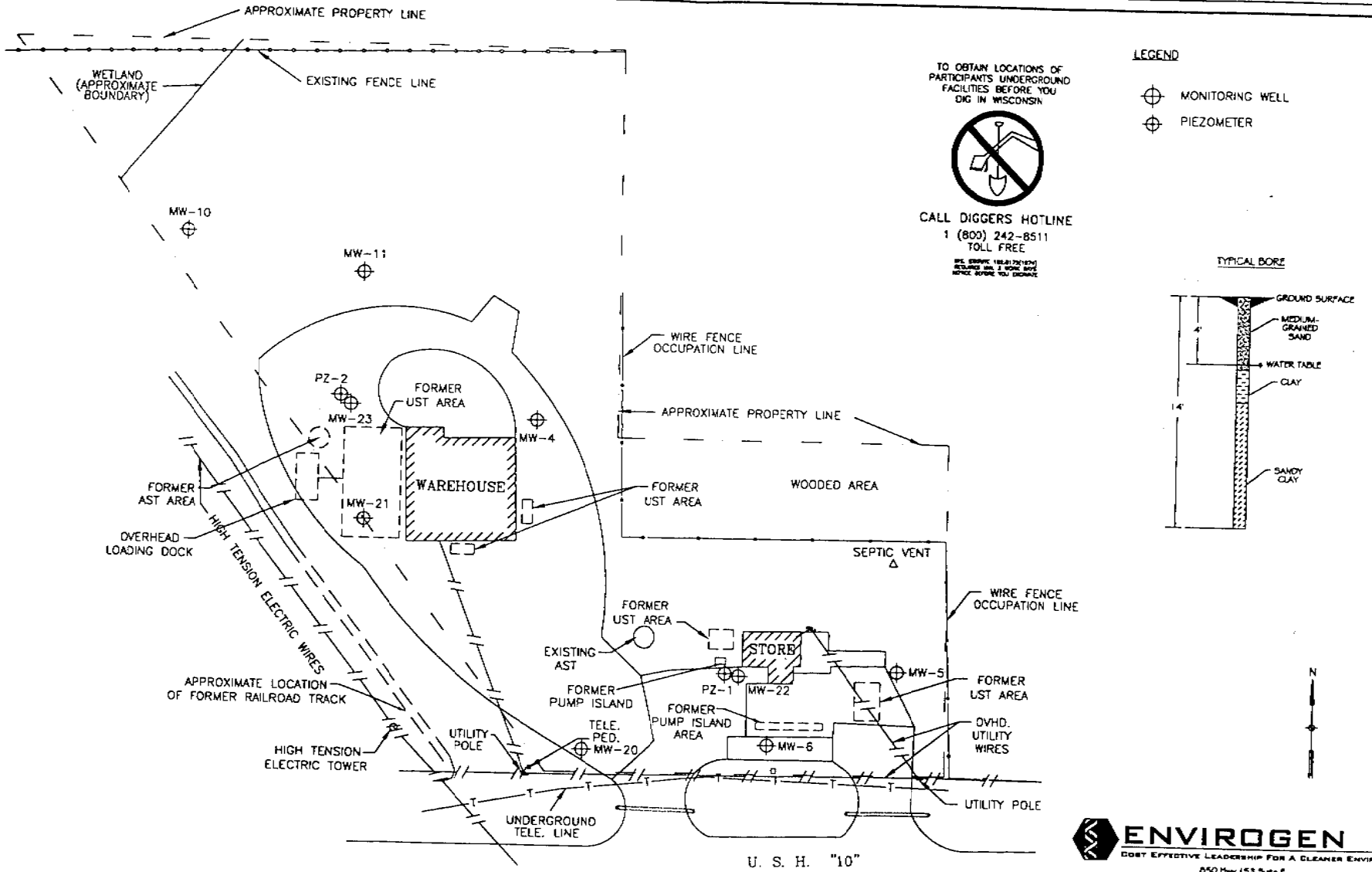
ENVIROGEN

COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT

850 Hwy 153 Suite F
Mosinee, Wisconsin 54455

SITE LOCATION MAP RAULIN FUEL MARSHFIELD BULK PLANT SITE MARSHFIELD, WISCONSIN	FIGURE NO. 1

DRAWING NO.	92.745L1
DRAWN BY:	RRT
	7/06/99
CHECKED BY:	
APPROVED BY:	
REVISIONS:	
ENGINEER	DATE
ENGINEER	DATE



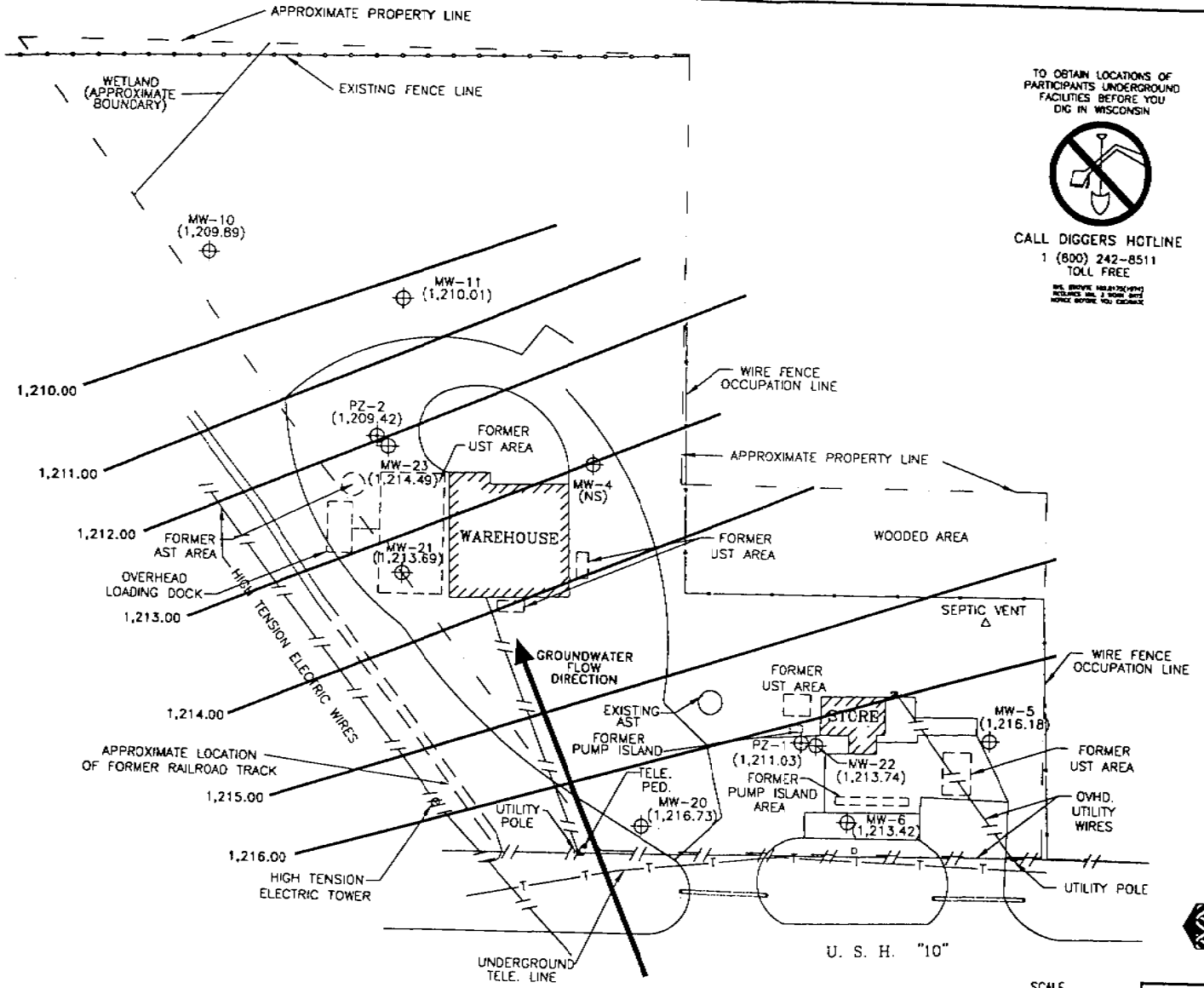
ENVIROGEN
COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT
850 Hwy 153 Suite F
Mosinee, Wisconsin 54455

CURRENT SITE LAYOUT

RAULIN FUEL MARSHFIELD BULK PLANT SITE
MARSHFIELD, WISCONSIN

FIGURE NO. 13

DRAWING NO. 92.745113 | DRAWN BY: KKT | 7/06/99 | CHECKED BY: | APPROVED BY: | REVISIONS: | ENGINEER | DATE | ENGINEER | DATE



TO OBTAIN LOCATIONS OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
1 (800) 242-8511
TOLL FREE

LEGEND

- MONITORING WELL
- PIEZOMETER
- ( ) ELEVATION IN FEET ABOVE MSL
- 1,210.00 ISOELEVATION CONTOUR

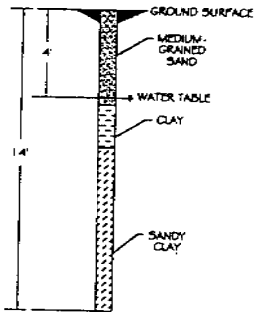
NOTES:

HYDRAULIC GRADIENT = 0.02 ft/ft

VERTICAL GRADIENT AT MW-23/PZ-2 = -0.20 ft/ft

VERTICAL GRADIENT AT MW-22/PZ-1 = -0.13 ft/ft

TYPICAL BORE



N

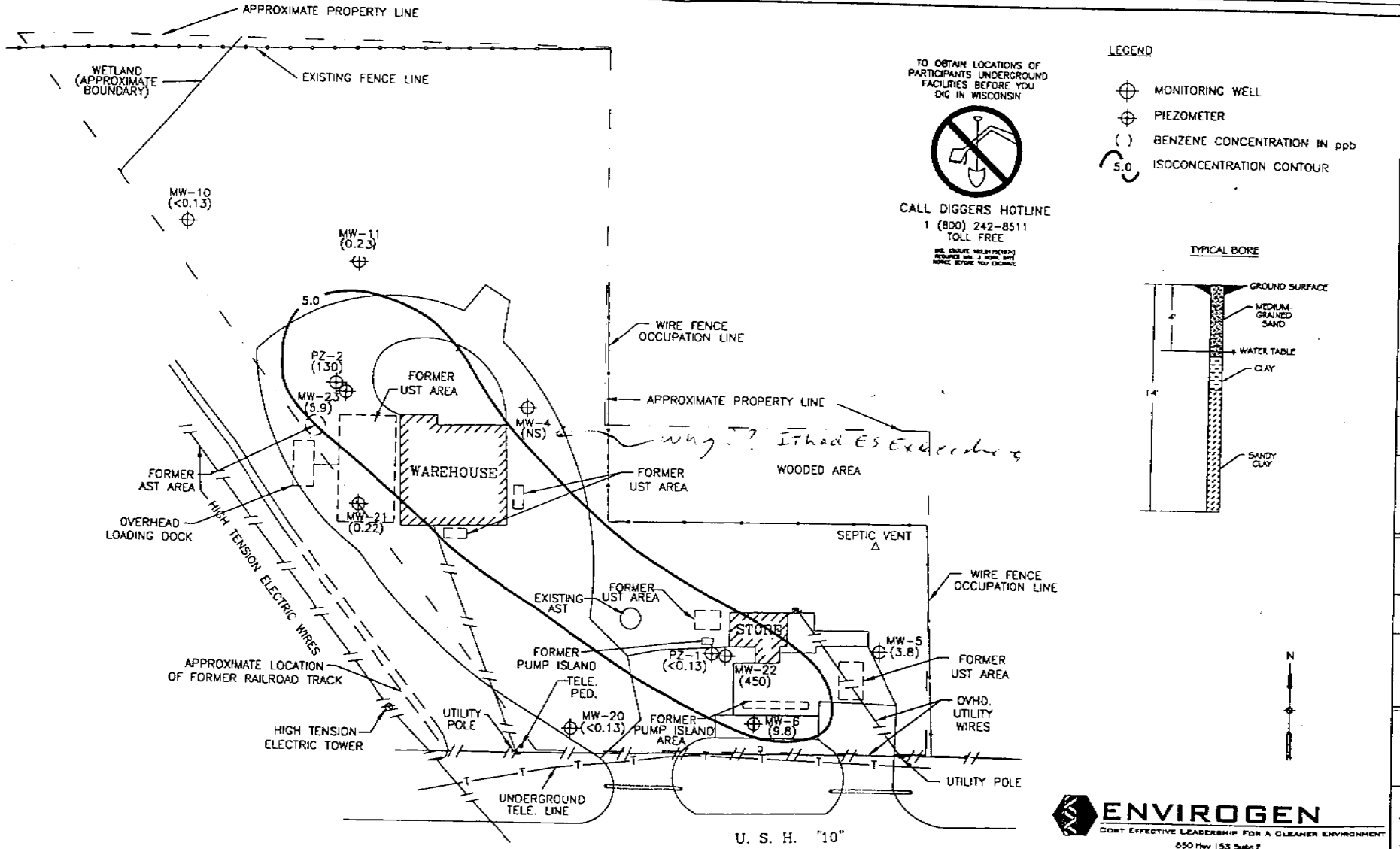
SCALE
0 60'

ENVIROGEN
COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT
850 Hwy 153 Suite F
Mosinee, Wisconsin 54455

POTENTIOMETRIC SURFACE
(7/14/98)
RAULIN FUEL MARSHFIELD BULK PLANT SITE
MARSHFIELD, WISCONSIN

FIGURE NO
15

DRAWING NO. 92.745L15
DRAWN BY: RRT
7/06/99
CHECKED BY:
APPROVED BY:
REVISIONS:
ENGINEER DATE
ENGINEER DATE

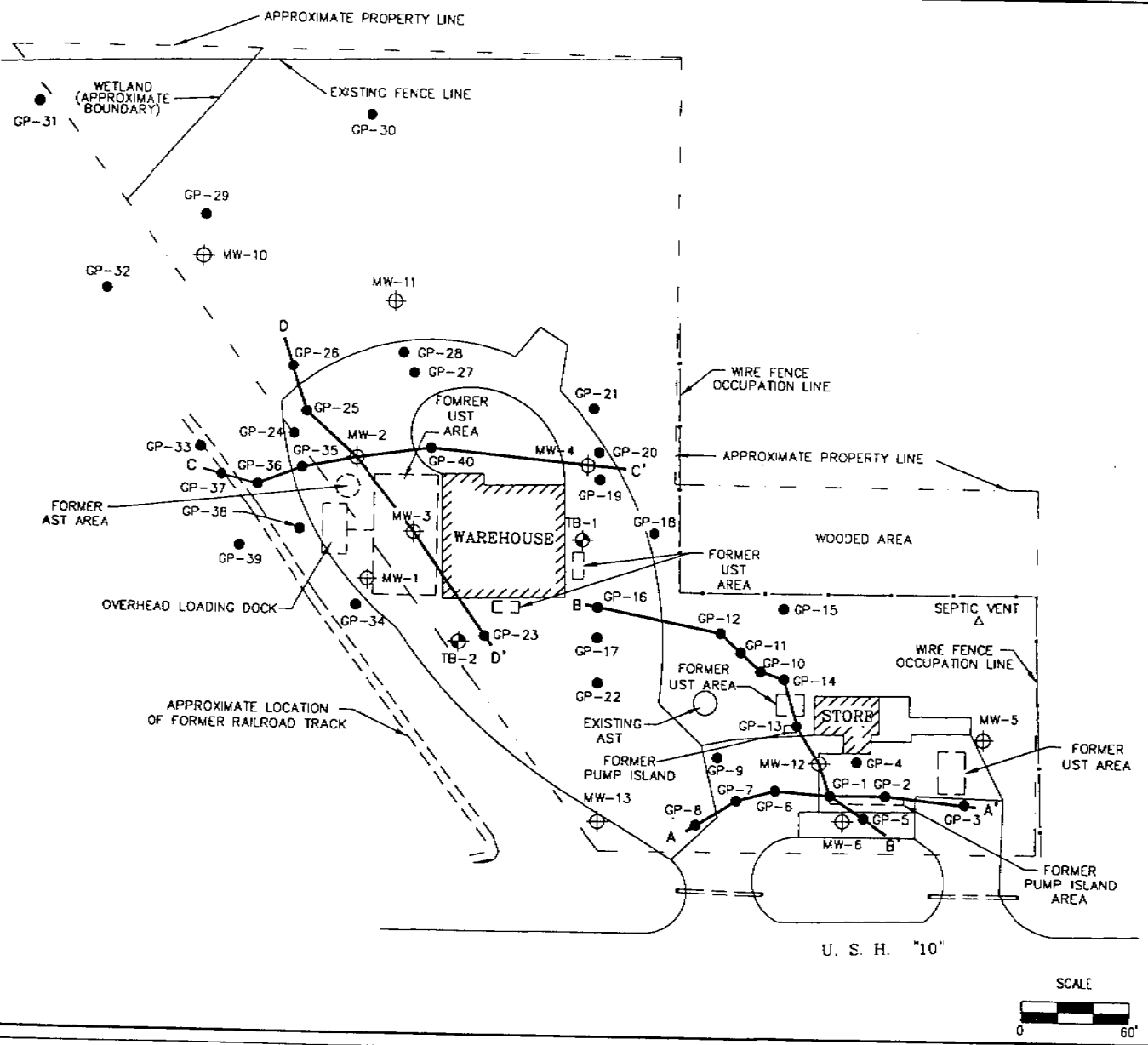


ENVIROGEN
COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT
650 Hwy 153 Suite F
Mosinee, Wisconsin 54455

POST-REMEDIAL GROUNDWATER BENZENE DISTRIBUTION
(7/14/96)
RAULIN FUEL MARSHFIELD BULK PLANT SITE
MARSHFIELD, WISCONSIN

FIGURE NO. 14

DRAWING NO. 92.745L14 | DRAWN BY: RKT | 7/06/99 | CHECKED BY: | APPROVED BY: | REVISIONS: | ENGINEER | DATE | ENGINEER | DATE



LEGEND

- MONITORING WELL
- TEST BORING
- GEOPROBE BORING

N

SCALE

0 60'

ENVIROGEN

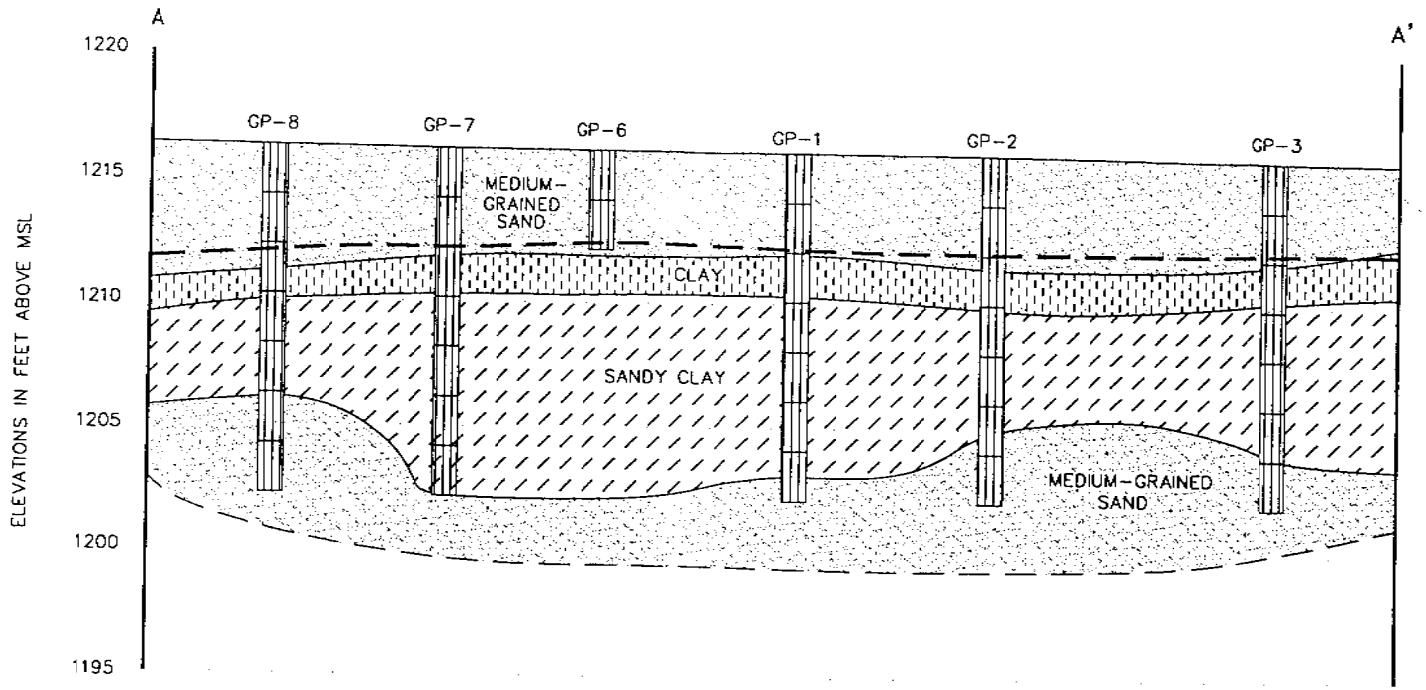
COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT

650 Hwy 153 Suite F
Mosinee, Wisconsin 54455

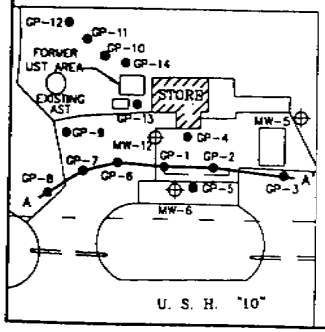
GEOLOGIC CROSS-SECTION
PLAN VIEW
RAULIN FUEL MARSHFIELD BULK PLANT SITE
MARSHFIELD, WISCONSIN

FIGURE NO. 4

DRAWING NO. 92.7451.4
DRAWN BY: RKT
7/06/99
CHECKED BY:
APPROVED BY:
REVISIONS:
ENGINEER
DATE
ENGINEER
DATE



PLAN VIEW



LEGEND

SAMPLE INTERVAL

APPROXIMATE GROUNDWATER TABLE (6/21/96)

SCALE

HORIZONTAL: 1" = 20'

VERTICAL: 1" = 5'

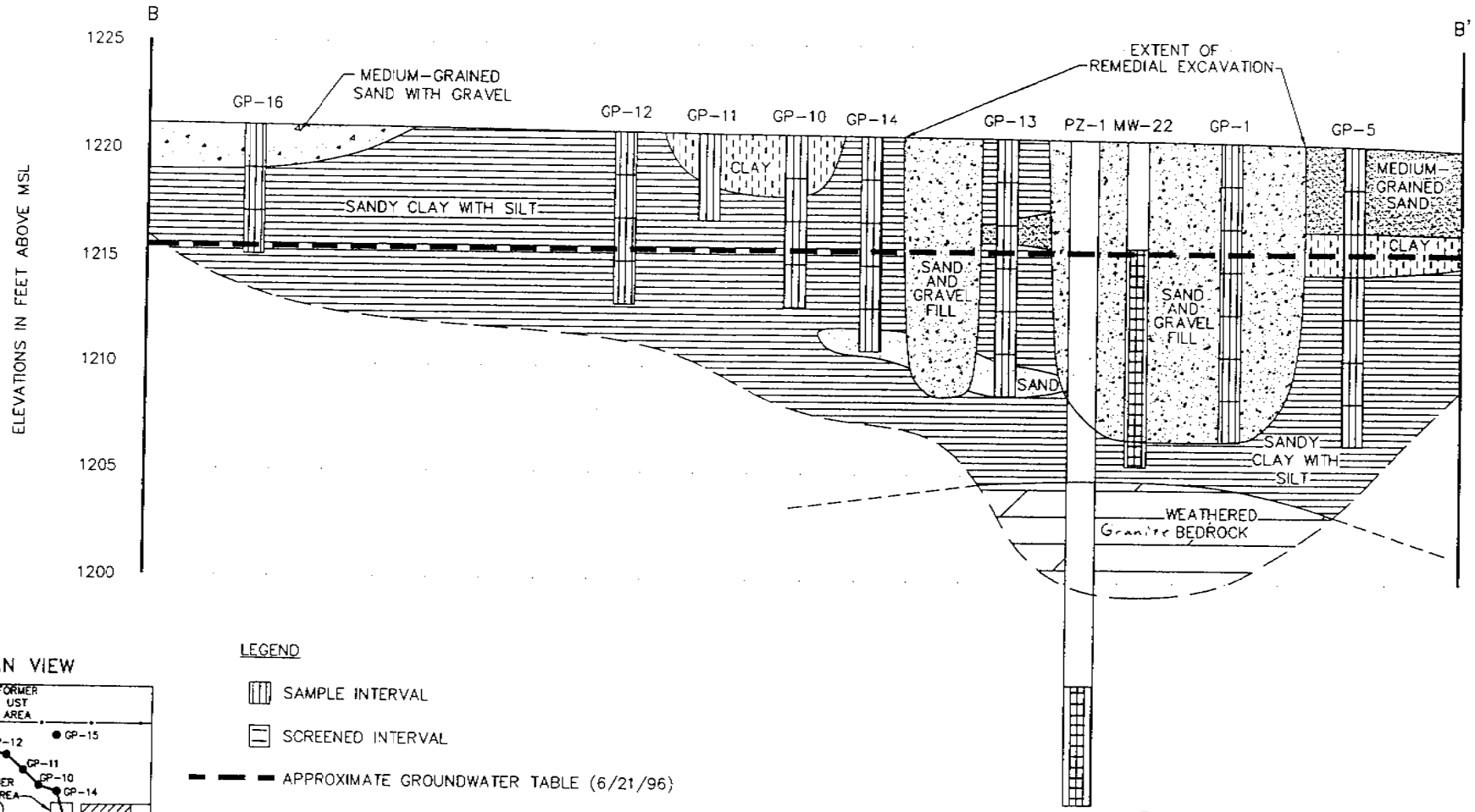
ENVIROGEN
COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT
850 Hwy 153 Suite F
Mosinee, Wisconsin 54455

GEOLOGIC CROSS-SECTION A-A'

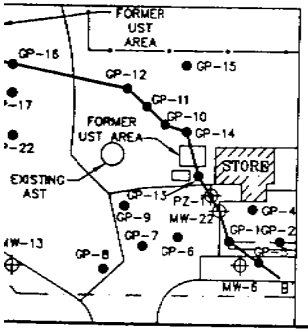
RAULIN FUEL MARSHFIELD BULK PLANT SITE
MARSHFIELD, WISCONSIN

FIGURE NO. 5

DRAWING NO. 92.745LS | DRAWN BY: RKT | 7/06/99 | CHECKED BY: | APPROVED BY: | REVISIONS: | ENGINEER | DATE | ENGINEER | DATE



PLAN VIEW



LEGEND

- SAMPLE INTERVAL
- SCREENED INTERVAL
- APPROXIMATE GROUNDWATER TABLE (6/21/96)

SCALE

HORIZONTAL: 1" = 20'

VERTICAL: 1" = 5'

ENVIROGEN

COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT

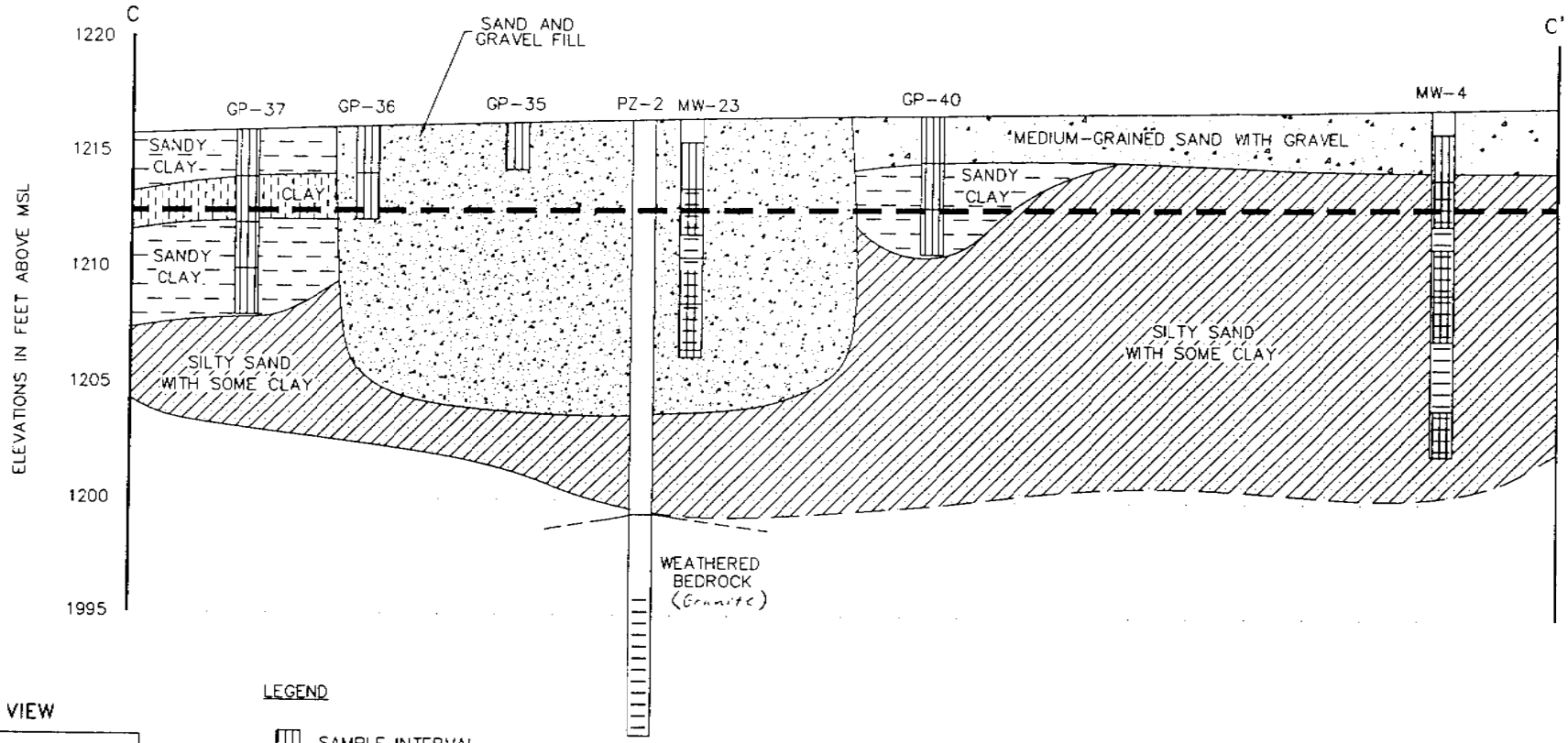
650 Hwy 153 Suite F
Mosinee, Wisconsin 54455

GEOLOGIC CROSS-SECTION B-B'

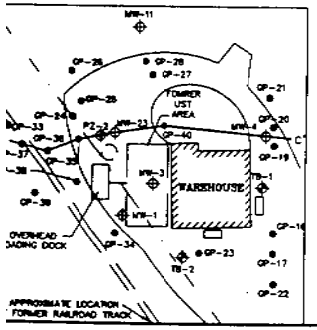
RAULIN FUEL MARSHFIELD BULK PLANT SITE
MARSHFIELD, WISCONSIN

FIGURE NO. 6

DRAWING NO. 92.745L26 | DRAWN BY: RRT | 7/06/99 | CHECKED BY: | APPROVED BY: | REVISIONS: | ENGINEER | DATE | ENGINEER | DATE



PLAN VIEW



LEGEND

SAMPLE INTERVAL

SCREENED INTERVAL

APPROXIMATE GROUNDWATER TABLE (6/21/96)

SCALE

HORIZONTAL: 1" = 20'

VERTICAL: 1" = 5'

ENVIROGEN

COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT

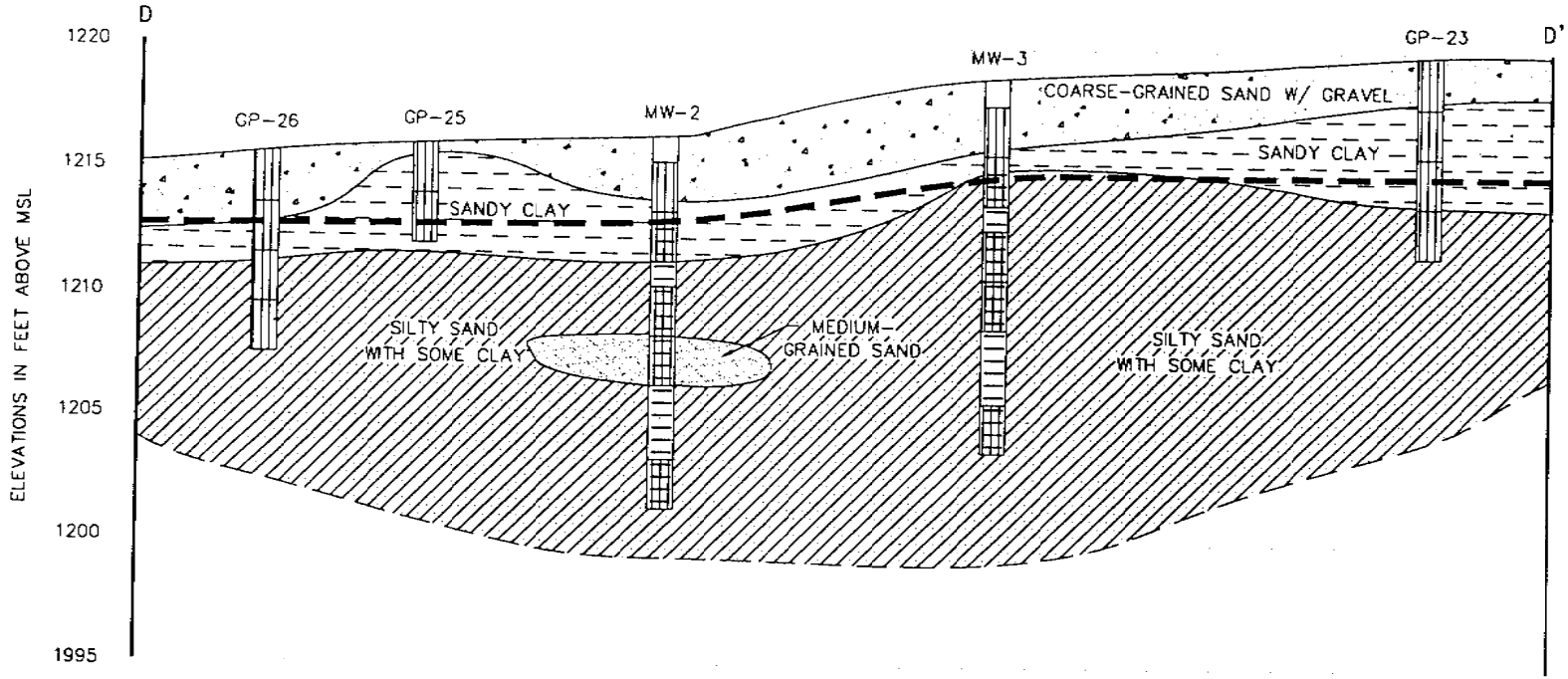
650 Hwy 153 Suite F
Mosinee, Wisconsin 54455

GEOLOGIC CROSS-SECTION C-C'

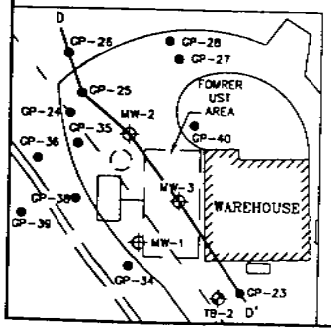
RAULIN FUEL MARSHFIELD BULK PLANT SITE
MARSHFIELD, WISCONSIN

FIGURE NO. 7

DRAWING NO. 92.7451.27 | DRAWN BY: KRT | 7/06/99 | CHECKED BY: | APPROVED BY: | REVISIONS: | ENGINEER | DATE | ENGINEER | DATE



PLAN VIEW



LEGEND

SAMPLE INTERVAL

SCREENED INTERVAL

APPROXIMATE GROUNDWATER TABLE (6/21/96)

SCALE

HORIZONTAL: 1" = 20'

VERTICAL: 1" = 5'

ENVIROGEN
COST EFFECTIVE LEADERSHIP FOR A CLEANER ENVIRONMENT
850 Hwy 153 Suite F
Mosinee, Wisconsin 54455

GEOLOGIC CROSS-SECTION D-D'

RAULIN FUEL MARSHFIELD BULK PLANT SITE
MARSHFIELD, WISCONSIN

FIGURE NO. 8

DRAWING NO. 92.745LB | DRAWN BY: RRT | 7/06/99 | CHECKED BY: | APPROVED BY: | REVISIONS: | ENGINEER | DATE | ENGINEER | DATE

TABLE 2

Groundwater Quality Analytical Data

MW-1/MW-21

Raulin Fuel Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample	PARAMETERS									
Date	Benzene	Ethylbenzene	Toluene	Xylenes	TMB's	MTBE	1,2-DCA	Naphthalene	DRO	GRO
01/25/94	**11**	94	11	600	167	<10	<1.0	**100**	1900	2400
05/28/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
02/11/97	3.5	4	0.21	1.4	1.76	< 16	NA	NA	NA	230
05/20/97	4.5	4.9	<0.39	2.2	2.07	<0.14	NA	8.4	NA	160
08/12/97	**5.3**	2.6	<0.20	1.9	2.59	<0.16	NA	NA	NA	190
07/14/98	0.22	<0.22	<0.20	<0.23	<0.51	<0.16	NA	NA	NA	<50
12/02/98	4	0.39	<0.20	0.24	<0.51	<0.16	NA	NA	NA	130

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance

All results in parts per billion
TMB's-Combined Trimethylbenzenes
Monitoring well Mw-1 was replaced with MW-21 following excavation activities
NA-Not Analyzed

TABLE 2

Groundwater Quality Analytical Data

MW-1/MW-21 (Continued)

Raulin Fuel Marshfield Bulk Plant Site

Marshfield, Wisconsin

Sample	Parameters						
Date	1,2-DCP	1,2,3-TCP	Fluorene	n-Butylbenzene	Isopropylbenzene	n-Propylbenzene	Phenanthrene
01/25/94	<10	<10	0.65	31	<10	16	<0.40
05/28/96	NA	NA	NA	NA	NA	NA	NA
02/11/97	NA	NA	NA	NA	NA	NA	NA
05/20/97	NA	NA	NA	NA	NA	NA	NA
08/12/97	NA	NA	NA	NA	NA	NA	NA
07/14/98	NA	NA	NA	NA	NA	NA	NA
12/02/98	NA	NA	NA	NA	NA	NA	NA
ES	5	60	80	NS	NS	NS	NS
PAL	0.5	12	400	NS	NS	NS	NS

Shading indicates WDNR ES exceedance

Shading indicates WDNR PAL exceedance

All results in parts per billion

DCP-Dichloropropane

TCP-Trichloropropane

Monitoring well MW-1 was replaced with MW-21 following excavation activities

NA-Not Analyzed

NS-No Standard

TABLE 2

Groundwater Quality Analytical Data

MW-2/MW-23

Raulin Fuel Marshfield Bulk Plant Site

Marshfield, Wisconsin

Sample Date	PARAMETERS									
	Benzene	Ethylbenzene	Toluene	Xylenes	TMB's	MTBE	1,2-DCA	Naphthalene	DRO	GRO
01/25/94	**4200**	600	**2200**	**1900**	**620**	**80**	<20	**250**	5,400	27,000
05/28/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
02/11/97	**5000**	520	**2200**	**1800**	**570**	<6.4	NA	NA	NA	17,000
05/20/97	**5800**	650	**3000**	**2200**	**690**	30	NA	**370**	NA	18,000
08/12/97	**5200**	650	**2700**	**2300**	**670**	<50	NA	NA	NA	17,000
07/14/98	**5.9**	2.5	0.30	17	20.8	<0.16	NA	NA	NA	270
12/02/98	**42**	24	1.0	30	32.8	<0.26	NA	NA	NA	790

Shading indicates WDNR ES exceedance

Shading indicates WDNR PAL exceedance

All results in parts per billion

TMB's-Combined Trimethylbenzenes

MW-2 was replaced with MW-23 following excavation activities

NA-Not Analyzed

TABLE 2

Groundwater Quality Analytical Data

MW-2/MW-23 (Continued)

Raulin Fuel Marshfield Bulk Plant Site

Marshfield, Wisconsin

Sample Date	Parameters						
	1,2-DCP	1,2,3-TCP	Fluorene	n-Butylbenzene	Isopropylbenzene	n-Propylbenzene	Phenanthrene
01/25/94	<20	<20	1.1	80	32	75	27
05/28/96	NA	NA	NA	NA	NA	NA	NA
02/11/97	NA	NA	NA	NA	NA	NA	NA
05/20/97	NA	NA	NA	NA	NA	NA	NA
08/12/97	NA	NA	NA	NA	NA	NA	NA
07/14/98	NA	NA	NA	NA	NA	NA	NA
12/02/98	NA	NA	NA	NA	NA	NA	NA
ES	5	60	80	NS	NS	NS	NS
PAL	0.5	12	400	NS	NS	NS	NS

Shading indicates WDNR ES exceedance

Shading indicates WDNR PAL exceedance

All results in parts per billion

DCP-Dichloropropane

TCP-Trichloropropane

MW-2 was replaced with MW-23 following excavation activities

NA-Not Analyzed

NS-No Standard

TABLE 2

Groundwater Quality Analytical Data

MW-3

Raulin Fuel Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample Date	PARAMETERS									
	Benzene	Ethylbenzene	Toluene	Xylenes	TMB's	MTBE	1,2-DCA	Naphthalene	DRO	GRO
01/25/94	2.6	5.2	<5.0	15	7.4	<5.0	<5.0	15	680	360
05/28/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
02/11/97	17	66	0.40	330	192	0.32	NA	NA	NA	1900
05/20/97	13	62	1.9	380	274	<0.28	NA	93	NA	1600
08/12/97	10	63	3.7	380	265	3.0	NA	NA	NA	6400
07/14/98	DNE	DNE	DNE	DNE	DNE	DNE	NA	DNE	DNE	DNE
12/02/98	DNE	DNE	DNE	DNE	DNE	DNE	NA	DNE	DNE	DNE

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance

All results in parts per billion
TMB's-Combined Trimethylbenzenes
DNE-Does not exist. MW-3 was abandoned during excavation activities
NA-Not Analyzed

TABLE 2

Groundwater Quality Analytical Data

MW-3 (Continued)

Raulin Fuel Marshfield Bulk Plant Site

Marshfield, Wisconsin

Sample Date	Parameters						
	1,2-DCP	1,2,3-TCP	Fluorene	n-Butylbenzene	Isopropylbenzene	n-Propylbenzene	Phenanthrene
01/25/94	<5.0	<5.0	5.1	8	<5.0	<5.0	9.3
05/28/96	NA	NA	NA	NA	NA	NA	NA
02/11/97	NA	NA	NA	NA	NA	NA	NA
05/20/97	NA	NA	NA	NA	NA	NA	NA
08/12/97	NA	NA	NA	NA	NA	NA	NA
07/14/98	NA	NA	NA	NA	NA	NA	NA
12/02/98	NA	NA	NA	NA	NA	NA	NA
ES	5	60	80	NS	NS	NS	NS
PAL	0.5	12	400	NS	NS	NS	NS

Shading indicates WDNR ES exceedance

Shading indicates WDNR PAL exceedance

All results in parts per billion

DCP-Dichloropropane

TCP-Trichloropropane

NA-Not Analyzed

NS-No Standard

TABLE 2

Groundwater Quality Analytical Data

MW-4

Raulin Fuel Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample Date	PARAMETERS									
	Benzene	Ethylbenzene	Toluene	Xylenes	TMB's	MTBE	1,2-DCA	Naphthalene	DRO	GRO
01/25/94	9.3	<1.0	1.1	<3.0	<2.0	<1.0	<1.0	<1.0	<100	69
05/28/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
02/11/97	6	0.99	<0.20	1.1	2.1	<0.16	NA	NA	NA	81
05/20/97	3.8	<0.38	<0.39	<1.1	<0.65	<0.14	NA	0.42	NA	50
08/12/97	4.5	0.28	<0.20	0.67	0.44	<0.16	NA	NA	NA	<50
07/14/98	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS
12/02/98	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance

All results in parts per billion
TMB's-Combined Trimethylbenzenes
NS-Not sampled
NA-Not Analyzed

TABLE 2

Groundwater Quality Analytical Data

MW-4 (Continued)

Raulin Fuel Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample Date	Parameters						
	1,2-DCP	1,2,3-TCP	Fluorene	n-Butylbenzene	Isopropylbenzene	n-Propylbenzene	Phenanthrene
01/25/94	1.7	62	<0.40	<1.0	<1.0	<1.0	<0.40
05/28/96	NA	NA	NA	NA	NA	NA	NA
02/11/97	NA	NA	NA	NA	NA	NA	NA
05/20/97	NA	NA	NA	NA	NA	NA	NA
08/12/97	NA	NA	NA	NA	NA	NA	NA
07/14/98	NA	NA	NA	NA	NA	NA	NA
12/02/98	NA	NA	NA	NA	NA	NA	NA
ES	5	60	80	NS	NS	NS	NS
PAL	0.5	12	400	NS	NS	NS	NS

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance

All results in parts per billion
DCP-Dichloropropane
TCP-Trichloropropane
NA-Not Analyzed
NS-No Standard

TABLE 2

Groundwater Quality Analytical Data

MW-5

Raulin Fuel Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample Date	PARAMETERS									
	Benzene	Ethylbenzene	Toluene	Xylenes	TMB's	MTBE	1,2-DCA	Naphthalene	DRO	GRO
01/25/94	**24**	220	33	320	**900**	<20	<20	28	1,800	12000
05/28/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
02/11/97	3.7	170	0.68	130	136	<0.16	NA	NA	NA	1700
05/20/97	4.8	260	1.3	290	**530**	<0.14	NA	32	NA	5300
08/12/97	<8.0	300	<0.20	340	**490**	<0.16	NA	NA	NA	5100
07/14/98	3.8	100	<4.0	110	189	<3.2	NA	NA	NA	1900
12/02/98	2.8	19	4.5	13	5.5	3.4	NA	NA	NA	210

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance

All results in parts per billion
TMB's-Combined Trimethylbenzenes
NA-Not Analyzed

TABLE 2

Groundwater Quality Analytical Data

MW-5 (Continued)

Raulin Fuel Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample Date	Parameters						
	1,2-DCP	1,2,3-TCP	Fluorene	n-Butylbenzene	Isopropylbenzene	n-Propylbenzene	Phenanthrene
01/25/94	<20	27	<0.40	170	52	220	<0.40
05/28/96	NA	NA	NA	NA	NA	NA	NA
02/11/97	NA	NA	NA	NA	NA	NA	NA
05/20/97	NA	NA	NA	NA	NA	NA	NA
08/12/97	NA	NA	NA	NA	NA	NA	NA
07/14/98	NA	NA	NA	NA	NA	NA	NA
12/02/98	NA	NA	NA	NA	NA	NA	NA
ES	5	60	80	NS	NS	NS	NS
PAL	0.5	12	400	NS	NS	NS	NS

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance

All results in parts per billion
DCP-Dichloropropane
TCP-Trichloropropane
NA-Not Analyzed
NS-No Standard

TABLE 2

Groundwater Quality Analytical Data

MW-6

Radtke Fuels Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample Date	PARAMETERS									
	Benzene	Ethylbenzene	Toluene	Xylenes	TMB's	MTBE	1,2-DCA	Naphthalene	DRO	GRO
01/25/94	**23**	<1.0	<1.0	<3.0	1.1	<1.0	1.0	<1.0	<100	<50
05/28/96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
02/11/97	<0.13	<0.22	<0.2	<0.23	<0.51	<0.16	NA	NA	NA	<50
05/20/97	**8.9**	<0.38	<0.39	<1.1	<0.65	<0.14	NA	<0.35	NA	<50
08/12/97	**9.9**	<0.22	<0.20	<0.23	<0.51	<0.16	NA	NA	NA	<50
07/14/98	**9.8**	<0.22	<0.20	**0.24**	<0.51	<0.16	NA	NA	NA	<50
12/02/98	<0.13	<0.22	<0.20	<0.23	<0.51	<0.16	NA	NA	NA	<50

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance

All results in parts per billion
TMB's-Combined Trimethylbenzenes
NA-Not Analyzed

TABLE 2

Groundwater Quality Analytical Data

MW-6 (Continued)

Rau n Fue Marshfield Bulk Plant Site
Marshfield Wisconsin

Sample Date	Parameters						
	1,2-DCP	1,2,3-TCP	Fluorene	n-Butylbenzene	Isopropylbenzene	n-Propylbenzene	Phenanthrene
01/25/94	<1.0	<1.0	<0.40	<1.0	<1.0	<1.0	<0.40
05/28/96	NA	NA	NA	NA	NA	NA	NA
02/11/97	NA	NA	NA	NA	NA	NA	NA
05/20/97	NA	NA	NA	NA	NA	NA	NA
08/12/97	NA	NA	NA	NA	NA	NA	NA
07/14/98	NA	NA	NA	NA	NA	NA	NA
12/02/98	NA	NA	NA	NA	NA	NA	NA
ES	5	60	80	NS	NS	NS	NS
PAL	0.5	12	400	NS	NS	NS	NS

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance
All results in parts per billion

DCP-Dichloropropane
TCP-Trichloropropane
NA-Not Analyzed
NS-No Standard

TABLE 2

Groundwater Quality Analytical Data

MW-10

Radtke Fuel Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample Date	PARAMETERS									
	Benzene	Ethylbenzene	Toluene	Xylenes	TMB's	MTBE	1,2-DCA	Naphthalene	DRO	GRO
07/25/94	NA	NA	NA	NA	NA	NA	<1.0	NA	NA	NA
05/28/96	<0.5	<1.0	<1.0	<3.0	<2.0	<1.0	NA	<1.0	NA	<50
02/11/97	<0.13	<0.22	<0.20	<0.23	<0.51	**0.91**	NA	NA	NA	<50
05/20/97	**0.46**	<0.38	<0.39	<1.1	<0.65	<0.14	NA	<0.35	NA	<50
08/12/97	**0.47**	<0.22	<0.20	<0.23	<0.51	<0.16	NA	NA	NA	<50
07/14/98	<0.13	<0.22	<0.20	<0.23	<0.51	<0.16	NA	NA	NA	<50
12/02/98	<0.13	<0.22	<0.20	<0.23	<0.51	<0.16	NA	NA	NA	<50

Shading indicates WDNR ES exceedance

Shading indicates WDNR PAL exceedance

All results in parts per billion

TMB's-Combined Trimethylbenzenes

NA-Not Analyzed

TABLE 2

Groundwater Quality Analytical Data

MW-10 (Continued)

Rau[illegible] Fuel Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample Date	Parameters						
	1,2-DCP	1,2,3-TCP	Fluorene	n-Butylbenzene	Isopropylbenzene	n-Propylbenzene	Phenanthrene
01/25/94	NA	NA	NA	NA	NA	NA	NA
05/28/96	<1.0	<1.0	NA	<1.0	<1.0	<1.0	NA
02/11/97	NA	NA	NA	NA	NA	NA	NA
05/20/97	NA	NA	NA	NA	NA	NA	NA
08/12/97	NA	NA	NA	NA	NA	NA	NA
07/14/98	NA	NA	NA	NA	NA	NA	NA
12/02/98	NA	NA	NA	NA	NA	NA	NA
ES	5	60	80	NS	NS	NS	NS
PAL	0.5	12	400	NS	NS	NS	NS

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance

All results in parts per billion
DCP-Dichloropropane
TCP-Trichloropropane
NA-Not Analyzed
NS-No Standard

TABLE 2

Groundwater Quality Analytical Data

MW-11

Rautin Fuel Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample Date	PARAMETERS									
	Benzene	Ethylbenzene	Toluene	Xylenes	TMB's	MTBE	1,2-DCA	Naphthalene	DRO	GRO
01/25/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
05/28/96	<0.5	<1.0	<1.0	<3.0	<2.0	<1.0	<1.0	<1.0	NA	<50
02/11/97	1.5	<0.22	<0.20	<0.23	<0.51	0.29	NA	NA	NA	<50
05/20/97	<0.31	<0.38	<0.39	<1.1	<0.65	<0.14	NA	<0.35	NA	<50
08/12/97	<0.13	<0.22	<0.20	<0.23	1.17	<0.16	NA	NA	NA	<50
07/14/98	0.23	<0.22	<0.20	<0.23	<0.29	<0.16	NA	NA	NA	<50
12/02/98	89	<0.22	<0.20	<0.23	<0.51	<1.0	NA	NA	NA	140 *

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance
All results in parts per billion
TMB's-Combined Trimethylbenzenes
NA-Not Analyzed

TABLE 2

Groundwater Quality Analytical Data

MW-11 (Continued)

Rau[illegible] Fuel Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample	Parameters						
Date	1,2-DCP	1,2,3-TCP	Fluorene	n-Butylbenzene	Isopropylbenzene	n-Propylbenzene	Phenanthrene
01/25/94	NA	NA	NA	NA	NA	NA	NA
05/28/96	<1.0	<1.0	NA	<1.0	<1.0	<1.0	NA
02/11/97	NA	NA	NA	NA	NA	NA	NA
05/20/97	NA	NA	NA	NA	NA	NA	NA
08/12/97	NA	NA	NA	NA	NA	NA	NA
07/14/98	NA	NA	NA	NA	NA	NA	NA
12/02/98	NA	NA	NA	NA	NA	NA	NA
ES	5	60	80	NS	NS	NS	NS
PAL	0.5	12	400	NS	NS	NS	NS

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance

All results in parts per billion
DCP-Dichloropropane
TCP-Trichloropropane
NA-Not Analyzed
NS-No Standard

TABLE 2

Groundwater Quality Analytical Data

MW-12/MW-22

Radtke Fuel Marshfield Bulk Plant Site

Marshfield, Wisconsin

Sample Date	PARAMETERS									
	Benzene	Ethylbenzene	Toluene	Xylenes	TMB's	MTBE	1,2-DCA	Naphthalene	DRO	GRO
01/25/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
05/28/96	**2000**	**180**	**480**	**240**	60	<5	<5.0	**38**	NA	3600
02/11/97	**3800**	270	340	350	123	<6.4	NA	NA	NA	9400
05/20/97	**4000**	260	**800**	490	124	<2.8	NA	**100**	NA	5500
08/12/97	**5500**	570	**2000**	**1100**	241	<8.0	NA	NA	NA	14000
07/14/98	**450**	64	1.7	72	49	<0.30	NA	NA	NA	1200 *
12/02/98	**540**	16	2.3	55	58.5	0.44	**NA**	NA	NA	1300 *

Shading indicates WDNR ES exceedance

Shading indicates WDNR PAL exceedance

All results in parts per billion

TMB's-Combined Trimethylbenzenes

Monitoring well MW-12 was replaced with MW-22 following excavation activities

NA-Not Analyzed

*

TABLE 2

Groundwater Quality Analytical Data

MW-12/22 (Continued)

Raulin Fuel Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample Date	Parameters						
	1,2-DCP	1,2,3-TCP	Fluorene	n-Butylbenzene	Isopropylbenzene	n-Propylbenzene	Phenanthrene
01/25/94	NA	NA	NA	NA	NA	NA	NA
05/28/96	<5.0	<5.0	NA	<5.0	12	13	NA
02/11/97	NA	NA	NA	NA	NA	NA	NA
05/20/97	NA	NA	NA	NA	NA	NA	NA
08/12/97	NA	NA	NA	NA	NA	NA	NA
07/14/98	NA	NA	NA	NA	NA	NA	NA
12/02/98	NA	NA	NA	NA	NA	NA	NA
ES	5	60	80	NS	NS	NS	NS
PAL	0.5	12	400	NS	NS	NS	NS

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance

All results in parts per billion
DCP-Dichloropropane
TCP-Trichloropropane
NA-Not Analyzed
NS-No Standard
Monitoring well MW-12 was replaced with MW-22 following excavation activities

TABLE 2

Groundwater Quality Analytical Data

MW-13/MW-20

Rau n Fue Marshfield Bulk Plant Site
Marshfield Wiscons n

Sample Date	PARAMETERS									
	Benzene	Ethylbenzene	Toluene	Xylenes	TMB's	MTBE	1,2-DCA	Naphthalene	DRO	GRO
01/25/94	NA	NA	NA	NA	NA	NA	<1 0	NA	NA	NA
05/28/96	**110**	<1 0	<1 0	<3 0	<2 0	<1 0	NA	8.0	NA	~~3600~~
02/11/97	**46**	<0 22	<0 2	0.77	0.33	0.25	NA	NA	NA	96
05/20/97	**95**	<0 38	<0 39	<1 1	0 49	<0 14	NA	9.3	NA	130
08/12/97	**34**	<0 22	0.41	0.67	0.38	<0 16	NA	NA	NA	<50
07/14/98	<0 13	<0 22	<0 20	<0 23	<0 51	<0 16	NA	NA	NA	<50
12/02/98	0.18	<0 22	<0 20	<0 23	<0 51	<0 16	NA	NA	NA	<50

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance

All results in parts per billion
TMB's-Combined Trimethylbenzenes
Monitoring well MW-13 was replaced with MW-20 following excavation activities
NA-Not Analyzed

TABLE 2

Groundwater Quality Analytical Data

MW-13/20 (Continued)

Ra[illegible] Fue[illegible] Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample	Parameters						
Date	1,2-DCP	1,2,3-TCP	Fluorene	n-Butylbenzene	Isopropylbenzene	n-Propylbenzene	Phenanthrene
01/25/94	NA	NA	NA	NA	NA	NA	NA
05/28/96	[illegible]<1.0	<1.0	NA	[illegible]<1.0	2.2	<1.0	NA
02/11/97	NA	NA	NA	NA	NA	NA	NA
05/20/97	NA	NA	NA	NA	NA	NA	NA
08/12/97	NA	NA	NA	NA	NA	NA	NA
07/14/98	NA	NA	NA	NA	NA	NA	NA
12/02/98	NA	NA	NA	NA	NA	NA	NA
ES	5	60	80	NS	NS	NS	NS
PAL	0.5	12	400	NS	NS	NS	NS

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance

All results in parts per billion
DCP-Dichloropropane
TCP-Trichloropropane
NA-Not Analyzed
NS-No Standard
Monitoring well MW-13 was replaced with MW-20 following excavation activities

TABLE 2

Groundwater Quality Analytical Data

PZ-2

Raulin Fuel Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample Date	PARAMETERS								
	Benzene	Ethylbenzene	Toluene	Xylenes	TMB's	MTBE	Naphthalene	DRO	GRO
[illegible] 26 94	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE
06 28 96	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE
[illegible] 11 97	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE
05 20 97	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE
08 12 97	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE
[illegible] 4 98	130	76	12	250	153	<1 6	NA	NA	1100 X
12 02 98	78	51	1.4	32	15.1	<0 16	NA	NA	500 X

[illegible] Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance
All results in parts per billion
TMB's-Combined Trimethylbenzenes
Piezometer PZ-2 was installed following excavation acitivities
NA-Not Analyzed
DNE-Does Not Exist

X [illegible]

TABLE 2

Groundwater Quality Analytical Data

PZ-1

Raulin Fuel Marshfield Bulk Plant Site
Marshfield, Wisconsin

Sample	PARAMETERS								
Date	Benzene	Ethylbenzene	Toluene	Xylenes	TMB's	MTBE	Naphthalene	DRO	GRO
11/25/94	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE
05/28/96	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE
02/11/97	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE
05/20/97	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE
08/12/97	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE	DNE
11/14/98	<0.13	<0.22	<0.20	<0.23	<0.51	<0.16	NA	NA	<50
12/02/98	<0.13	<0.22	<0.20	<0.23	<0.51	<0.16	NA	NA	<50

Shading indicates WDNR ES exceedance
Shading indicates WDNR PAL exceedance

All results in parts per billion
TMB's-Combined Trimethylbenzenes
Piezometer PZ-1 was installed following excavation acitivities
NA-Not Analyzed
DNE-Does Not Exist

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Scott A. Humrickhouse, Regional Director

Wisconsin Rapids Office
473 Griffith Avenue
Wisconsin Rapids, Wisconsin 54494-7859
Telephone 715-421-7800
FAX 715-421-7830

FILE COPY

March 16, 2000

BRRTS #03-72-000~~056~~

Mr. Pat Raulin
8021 Pine Haven Ct.
Wisconsin Rapids, WI 54494

SUBJECT: Conditional Case Closure, Raulins Fuels Marshfield Bulk Facility, 8180 Highway 10 East, Marshfield, Wisconsin.

Dear Mr. Raulin:

On March 9, 2000, the above named site was reviewed by the Wisconsin Department of Natural Resources West (DNR) Central Region closeout committee for a determination as to whether or not the case qualified for close out under Wis. Adm. Code (WAC) ch. NR 726. The pre and post-remediation soil samples indicate that residual petroleum-related soil contamination exists under and east of the existing warehouse, the east end of the gasoline pump island, and beneath the former railroad right-of-way located along the west side of the property. Groundwater samples indicate WAC ch. 140 groundwater quality enforcement standard (ES) exceedence for benzene, toluene, ethylbenzene, naphthalene, and 1,2,3-trichloropropane is present in the groundwater at the site. Due to the presence of residual soil and groundwater contamination at this site, a clean closure can not be granted in this case at this time. However, based on the investigative and remediation documentation provided to the Department, it appears that the extent of the petroleum contamination at the above-named site has been investigated and remediated to the extent practicable, the location of the residual soil contamination does not pose a threat to direct contact under current site conditions, and that natural attenuation will be effective in reducing the mass of residual contamination at this site. Therefore, the Department considers the case "closed," having determined pursuant to WAC NR 726, that no further action is necessary on the site at this time, providing the following two conditions are met.

The first condition of the closeout for this case is that the owner is required to sign and record a groundwater use restriction describing the type, location, and extent of the residual groundwater contamination, on the deed for the property and requiring that Department (or successor agency) approval must be obtained before any water supply wells are installed on the property, and, if groundwater is to be otherwise extracted from this property (i.e. for construction purposes), the groundwater shall be sampled and managed in compliance with applicable statutes and rules. The deed restriction document must be submitted to the Department for approval within 30 days after receipt of this letter, and the deed documents must be registered with the County Register of Deeds fifteen days after receiving Department approval of the draft deed restriction. To document that this condition has been complied with, the property owner must submit to the Department a copy of the recorded deed restriction, with the recording

BRRTS #03-72-000~~053~~ 757

information stamped on it, within 15 days after the County Register of Deeds returns the deed restriction to the property owner. The deed restriction may be amended in the future with the approval of Department if conditions change at the site such that the residual contamination is completely remediated (if deemed necessary).

The second condition of the closeout of this case is the proper abandonment of the monitoring wells and remediation system currently at the site (pursuant of WAC NR 141). Documents should be forwarded to me at the WDNR Wisconsin Rapids office that substantiates proper abandonment (Form 3300-5W).

In addition, please note that if the residual contaminated soil is excavated in the future, it may be considered solid waste and will need to be handled and disposed in accordance with applicable statutes and rules.

If you have additional relevant information which was not formerly provided to the Department, and which you feel would significantly impact the Department's closure decision, you may submit that information for our re-evaluation of case closure.

You should note that this letter does not constitute Department "certification" under s. 292.15(2)(a)3, Stats., as created by 1993 Wisconsin Act 453 (May 12, 1994). Also, in 1997 Wisconsin Act 27, the legislature amended s. 292.15, Wis. Stats., creating the new "Voluntary Party Remediation and Exemption from Liability" statute. This statute provides liability protection for persons who did not intentionally or recklessly cause the release of a hazardous substance and who conducts an environmental investigation and cleans up property by restoring the environment to the extent practicable and in accordance with rules promulgated by the Department. Upon completion of the cleanup, the person receives a "certificate of completion" that provides an exemption from the "Hazardous Substance Spills" statute and protection from future liability for the past releases. You must apply for the program by filling out an application form and fees are charged to cover administrative costs associated with the program. If you are interested in more information about the program or would like an application package, please call Loren Brumberg at the West Central Region Office in Eau Claire at 715-839-3770.

Once the deed restriction and monitoring well abandonment forms have been properly submitted to this office we will issue the final closure letter for this site. Thank you for your efforts to cleanup Wisconsin's environment. If you should have any questions regarding this letter please contact me at (715) 421-7850.

Sincerely,

Tom Hvizdak
Hydrogeologist

c: Pete Molling, Envirogen, 850 Hwy. 153, Suite F, Mosinee, WI 54455
Martha Kuehn, 8285 Hwy. 10 East, Marshfield, WI 54449
Jackie Short, 506 Maher St. Marshfield, WI 54449

Document Number

GROUNDWATER USE RESTRICTION

864921

REGISTER OF DEEDS
WOOD COUNTY
RECORDED ON

06-30-2000 11:32 AM

RENE' L KRAUSE
REGISTER OF DEEDS

REC. FEE 14.00
TRAN. FEE:
PAGES: 3

Recording Area

Mr. Pat Raulin
8021 Pinehaven Court
Wisconsin Rapids, Wisconsin 54494

1400

11-00216A and 11-00217C
Parcel Identification Numbers

Declaration of Restrictions

In Re: That part of the Southwest Quarter of the Southeast Quarter (SW ¼ of SE ¼) of Section 22, Township 25 North, Range 3 East, City of Marshfield Wood County, Wisconsin, described as follows: Commencing at the intersection of the North line of U.S. Highway 10 and the East line of the SW ¼ of the SE ¼ of Section 22, Township 25 North, Range 3 East, run thence North 450 feet; run thence West a distance of 450 feet, to the railroad right of way (now Soo Line); run thence Southeasterly, along the Easterly line of said railroad right-of-way, a distance of 550 feet, more or less, to the North line of U.S. Highway 10; run thence East, along the North line of U.S. Highway 10, a distance of 65 feet, to the place of beginning.

-and-

The West 208 feet of the South 208 feet of the Southeast Quarter of the Southeast Quarter (SE ¼ of SE ¼) of Section 22, Township 25 North, Range 3 East, City of Marshfield, Wood County, Wisconsin.

STATE OF WISCONSIN)
) ss
COUNTY OF WOOD)

WHEREAS, Raulin Fuel and Heating, Inc. is the owner of the above-described property.

WHEREAS, one or more petroleum discharges have occurred on this property. Benzene, ethylbenzene, toluene, xylene, combined trimethylbenzenes, and naphthalene-contaminated groundwater above ch. NR 140, Wis. Adm. Code, enforcement standards existed on this property at the following location(s) on December 2, 1998: monitoring well MW-2/23, benzene a concentration of 42 parts per billion (ppb); monitoring well MW-11, benzene at a concentration of 89 ppb; monitoring well MW-12/22, benzene at a concentration of 540 ppb.; on May 20, 1997: monitoring well MW-2/23, naphthalene at a concentration of 370 ppb, monitoring well MW-3, naphthalene at a concentration of 93 ppb, and monitoring well MW-12/22, naphthalene at a concentration of 100 ppb.

WHEREAS, it is the desire and intention of the property owner to impose on the property restrictions which will make it unnecessary to conduct further groundwater or soil remediation activities on the property at the present time.

WHEREAS, natural attenuation has been approved by the Department of Natural Resources to remediate groundwater contamination exceeding ch. NR 140 groundwater standards within the boundaries of this property.

WHEREAS, construction of wells where the water quality does not comply with drinking water standards in ch. NR 809 is restricted by chs. NR 811 and NR 812, Wis. Adm. Code. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply.

NOW THEREFORE, the owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

> Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or it successor agency, to determine what specific requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed on this property unless applicable requirements are met.
>
> If construction is proposed on this property that will require dewatering, or if groundwater is to be otherwise extracted from this property, while this groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for contaminants that were previously detected on the property and any extracted groundwater shall be managed in compliance with applicable statutes and rules.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction benefits and is enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, attached to

a copy of the Department's written determination, may be recorded to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

By signing this document, PAT RAULIN asserts that he/she is duly authorized to sign this document on behalf of. Raulin Fuel and Heating, Inc.

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 30th day of JUNE, 2000.

Signature: Pat Raulin
Printed Name: PAT RAULIN

Subscribed and sworn to before me
this 21st day of June, 2000.

Notary Public, State of WI
My commission expires 11-9-03

This document was drafted by Envirogen, Inc., based on comments from the Wisconsin Department of Natural Resources.

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Scott A. Humrickhouse, Regional Director

Wisconsin Rapids Office
473 Griffith Avenue
Wisconsin Rapids, Wisconsin 54494-7859
Telephone 715-421-7800
FAX 715-421-7830

August 1, 2000

BRRTS #03-72-000957

FILE COPY

Mr. Pat Raulin
8021 Pine Haven Ct.
Wisconsin Rapids, WI 54494

SUBJECT: Case Closure, Raulins Fuels Marshfield Bulk Facility, 8180 Highway 10 East, Marshfield, Wisconsin.

Dear Mr. Raulin:

The Wisconsin Department of Natural Resources (WDNR) west central region has received the monitoring well abandonment forms for the monitoring wells associated with the subsurface environmental assessment conducted by your consultant for the above referenced site, and a copy of the groundwater use restriction deed affidavit (with the recording information stamped on it) recorded with the Wood County Register of Deeds as required by WDNR west central closure committee as conditions for closure of this site. The investigative and remediation documentation provided to the Department, indicates that the extent of the petroleum contamination at the above-named site has been investigated and remediated to the extent practicable, and that natural attenuation will be effective in reducing the mass of residual contamination at this site. Therefore, based on all information contained in the site file and the information included in the well abandonment form and deed affidavit submitted by you, it is the decision of the DNR that, **no further investigatory or clean-up action is needed at the above referenced site at this time and that this site is considered closed**.

In addition, please note that if the residual contaminated soil is excavated in the future, it may be considered solid waste and must be handled and disposed in accordance with applicable statutes and rules.

If you have additional relevant information which was not formerly provided to the Department, and which you feel would significantly impact the Department's closure decision, you may submit that information for our re-evaluation of case closure.

You should note that this letter does not constitute Department "certification" under s. 292.15(2)(a)3, Stats., as created by 1993 Wisconsin Act 453 (May 12, 1994). Also, in 1997 Wisconsin Act 27, the legislature amended s. 292.15, Wis. Stats., creating the new "Voluntary Party Remediation and Exemption from Liability" statute. This statute provides liability protection for persons who did not intentionally or recklessly cause the release of a hazardous substance and who conducts an environmental investigation and cleans up property by restoring the environment to the extent practicable and in accordance with rules promulgated by the

Department. Upon completion of the cleanup, the person receives a "certificate of completion" that provides an exemption from the "Hazardous Substance Spills" statute and protection from future liability for the past releases. You must apply for the program by filling out an application form and fees are charged to cover administrative costs associated with the program. If you are interested in more information about the program or would like an application package, please call Loren Brumberg at the West Central Region Office in Eau Claire at 715-839-3770.

The Department appreciates the actions you have undertaken to restore the environment. If you have any questions, please feel free to call me at (715) 421-7850.

Sincerely,

Tom Hvizdak
Hydrogeologist

c: Pete Molling, Envirogen, 850 Hwy. 153, Suite F, Mosinee, WI 54455
Jackie Short, 506 MaGee St., Marshfield, WI 54449