GIS REGISTRY INFORMATION

SITE NAME:	Mageland Oil Co Inc Bulk Plant		
BRRTS #:	02-63-152688	**FID #** (if appropriate):	
COMMERCE # (if appropriate):	54665-1421-30		
CLOSURE DATE:	April 28, 2005		
STREET ADDRESS:	530 E Parkinson St		
CITY:	Viroqua		

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	**X =**	448712		**Y =**	343288	
CONTAMINATED MEDIA:	Groundwater		Soil	X	Both	
OFF-SOURCE GW CONTAMINATION >ES:		**Yes**			**No**	X
• **IF YES, STREET ADDRESS:**						
• **GPS COORDINATES** (meters in WTM91 projection):	**X =**			**Y =**		
OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):		**Yes**			**No**	X
• **IF YES, STREET ADDRESS 1:**						
• **GPS COORDINATES** (meters in WTM91 projection):	**X =**			**Y =**		
CONTAMINATION IN RIGHT OF WAY:		**Yes**			**No**	X

DOCUMENTS NEEDED

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

commerce.wi.gov
Wisconsin
Department of Commerce

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
P.O. Box 8044
Madison, Wisconsin 53708-8044
TDD #: (608) 264-8777
Fax #: (608) 267-1381
Jim Doyle, Governor
Mary P. Burke, Secretary

April 28, 2005

Dave Mageland
Mageland Oil Company Inc
604 N East Ave
Viroqua, WI 54665

RE: **Final Closure**

Commerce # 54665-1421-30 WDNR BRRTS # 02-63-152688
Mageland Oil Co Inc Bulk Plant, 530 E Parkinson St, Viroqua

Dear Mr. Mageland:

The Wisconsin Department of Commerce (Commerce) has received all items required as conditions for closure of the site referenced above. This case is now listed as "closed" on the Commerce database and will be included on the Wisconsin Department of Natural Resources (WDNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual contamination. It is in your best interest to keep all documentation related to the environmental activities that were conducted.

If residual contamination is encountered in the future, it must be managed in accordance with all applicable state and federal regulations. If it is determined that any remaining contamination poses a threat, the case may be reopened and further investigation or remediation may be required.

Thank you for your efforts to bring this case to closure. If you have any questions, please contact me in writing at the letterhead address or by telephone at (608) 261-5404.

Sincerely,

Gena M. Larson
Hydrogeologist
Site Review Section

cc: Jason Powell, METCO
Case File

File Ref: G:\Electronic Mailbox\546\54665\142130\04282005 CLOSEFINAL.doc

DOCUMENT NO.

307145

STATE BAR OF WISCONSIN FORM 1 — 1982
WARRANTY DEED

THIS SPACE RESERVED FOR RECORDING DATA

VOL. 306 PAGE 521

Register's Office Vernon Co. Wis. } SS
Rec'd for record 17 day of Nov. 19 86 at 11:45 o'clock A M and Recorded in Vol. 306 of Records on Page 521
Vera J. Nelson
Register of Deeds

RETURN TO 4.00 Pd. 604 N. E. Ave, Merlin Mageland VIR.

This Deed, made between the City of Viroqua, a Municipal Corporation, and Merlin Mageland, Grantor, Grantee,

Witnesseth, That the said Grantor, for a valuable consideration $1.00 and other consideration conveys to Grantee the following described real estate in Vernon County, State of Wisconsin:

Tax Parcel No: 62-286-1644-000.

Lot 1, Volume 1, Certified Survey Maps, page 193.

RESERVING to Grantor all rights in recorded easements granted it, and permanent easements to maintain existing utility (water, sewer, and gas) lines and appurtenances.

This conveyance exempt from Wisconsin Real Estate transfer tax and transfer tax return, Section 77.25(2), Wis. Stats. This conveyance authorized by the Common Council of the City of Viroqua at a regular council meeting held September 30, 1986.

This is not homestead property.
(is) (is not)

Together with all and singular the hereditaments and appurtenances thereunto belonging;
And the City of Viroqua warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except easements of record, existing utility (water, sewer and gas) lines and appurtenances, and street right of way,

and will warrant and defend the same.

Dated this 20th day of October, 19 86

CITY OF VIROQUA:

(SEAL) BY: Charles F. Dahl (SEAL)
* Charles F. Dahl, Mayor

(SEAL) BY: Patrick D. Griffin (SEAL)
* Patrick D. Griffin, Clerk

AUTHENTICATION

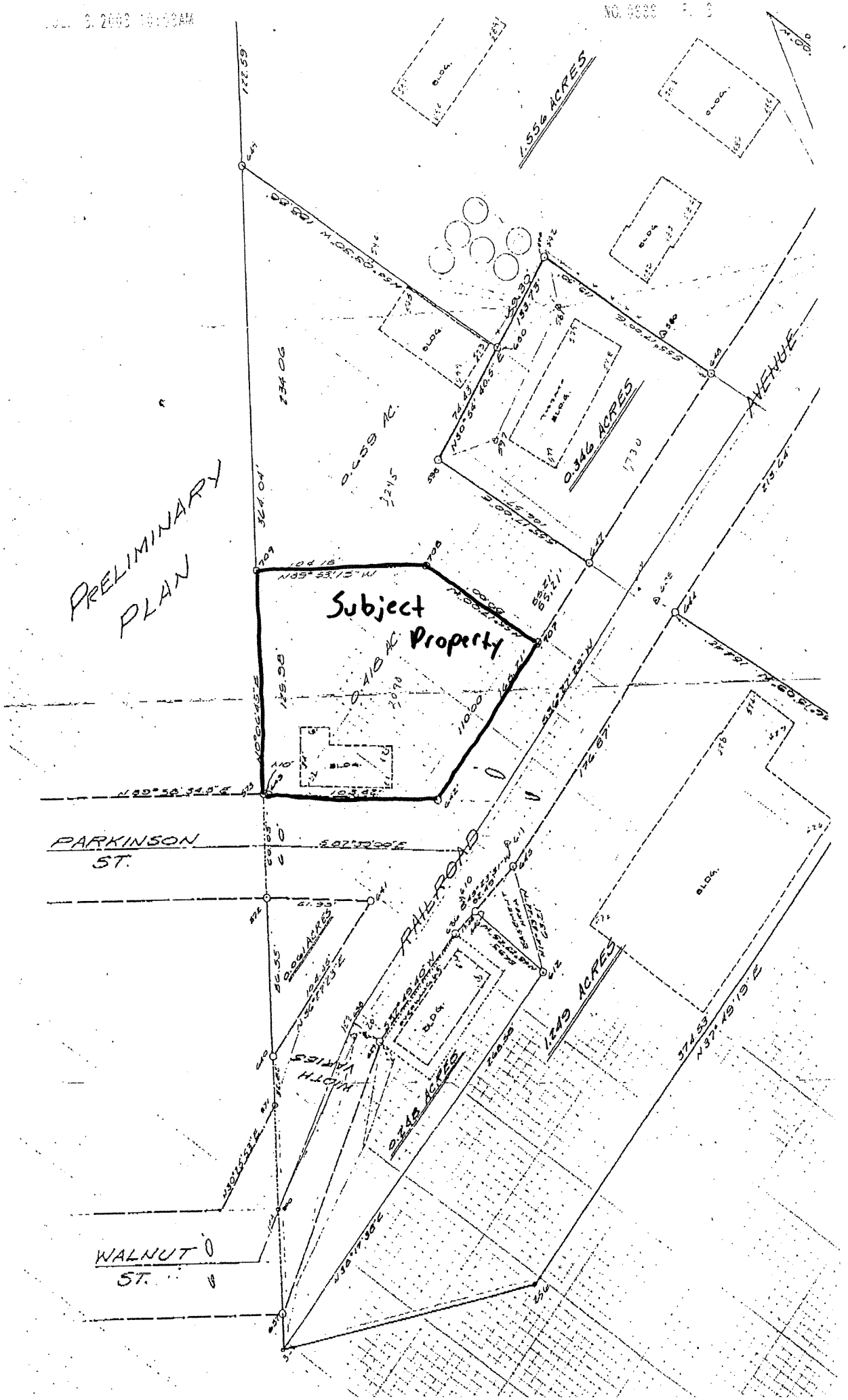
Signature(s)

authenticated this day of, 19

ACKNOWLEDGMENT

STATE OF WISCONSIN } ss.
VERNON County.

Personally came before me this 20th day of October, 19 86 the above named


PRELIMINARY PLAN
Subject Property
1.556 ACRES
0.346 ACRES
0.659 AC.
0.418 AC.
AVENUE
PARKINSON ST.
RAILROAD
WALNUT ST.
1.249 ACRES
0.248 ACRES
WIDTH VARIES
BLDG.

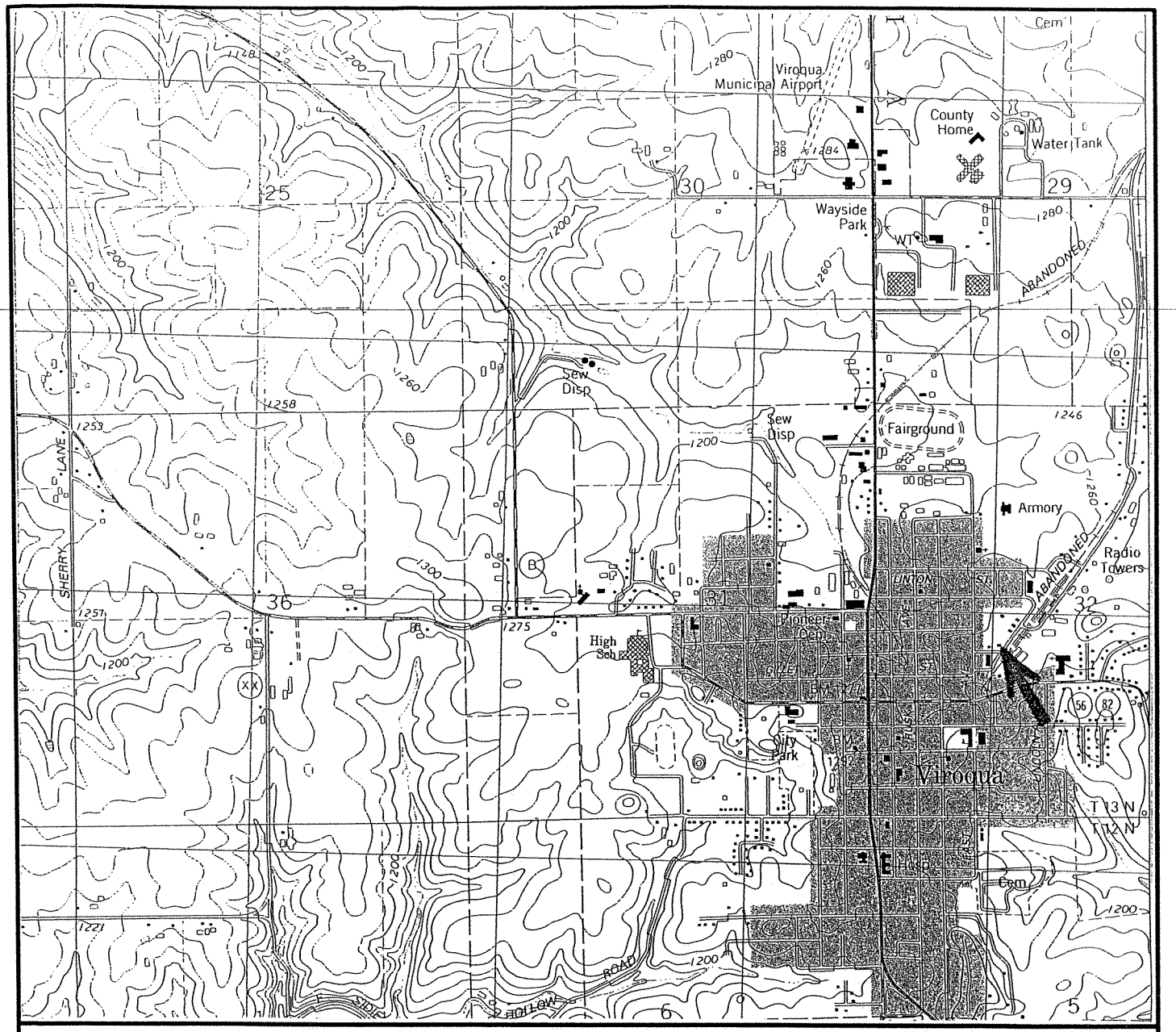
Mageland Oil

WDNR BRRTS# 02-63-152688

Vernon County Parcel ID No. : 62-286-1644-0005

Geographic position, WTM91 projection : 448712, 343288

METCO
Environmental Consulting, Fuel System Design, Installation and Service
2956 Airport Road – La Crosse, WI 54603 608-781-8879



SITE LOCATION MAP

MAGELAND OIL COMPANY

VIROQUA, WISCONSIN

METCO

2956 AIRPORT ROAD
LA CROSSE, WI 54603
608/ 781-8879
608/ 781-8893 FAX

PO BOX 448
ENTERPRISE DRIVE
HILLSBORO, WI 54634
608/ 489-2198
608/ 489-2389

VIROQUA QUADRANGLE

7.5 MINUTE SERIES

SCALE

1 INCH - 2,000 FEET

SITE LAYOUT MAP

MAGELAND OIL COMPANY

VIROQUA, WISCONSIN

METCO

SCALE: 1 INCH = 30 FEET

DRAWN BY: ED

DATE: 1/27/03

JOB NO.: R-00-633/C&SI

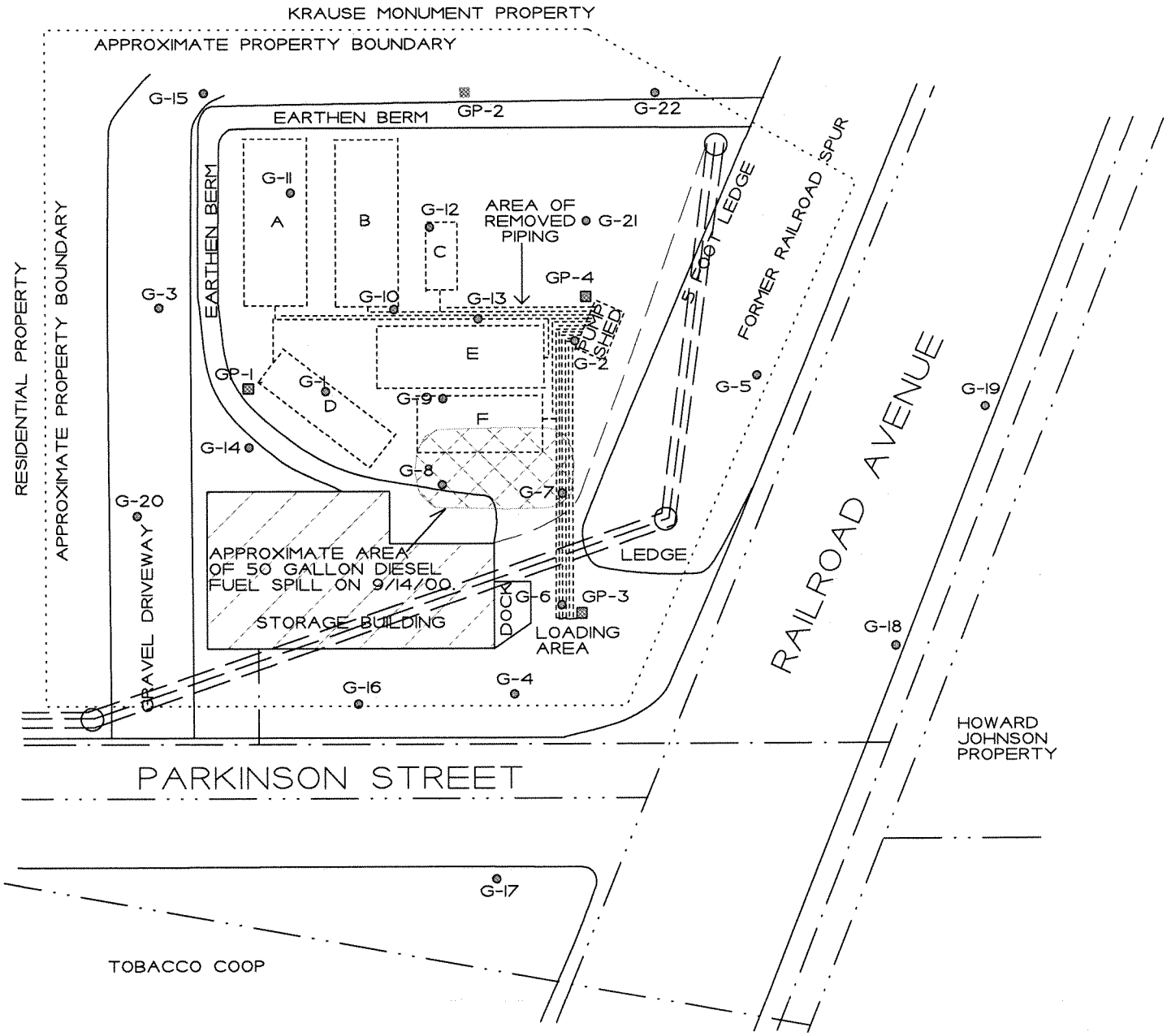
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

SITE ASSESSMENT RESULTS (5/21/97)

GP-1-3 - 416 PPM GRO AND 22 PPM DRO AT 10-11 FEET
GP-2-3 - <5.4 PPM GRO AND <5.4 PPM DRO AT 11.5-12 FEET
GP-4-3 - 254 PPM GRO AND 20 PPM DRO AT 13.5-14 FEET

FORMER AST'S ARE LABELED AS FOLLOWS:
A - 18,000 GALLON DIESEL
B - 18,000 GALLON #2 FUEL OIL
C - 3,000 GALLON PREMIUM GASOLINE
D - 10,000 GALLON #1 FUEL OIL
E - 18,000 GALLON GASOLINE
F - 17,000 GALLON DIESEL

- SITE ASSESSMENT SAMPLE LOCATION
- GEOPROBE BORING LOCATION
- OVERHEAD LINES
- WATER LINE
- SEWER LINE
- GAS LINE
- BURIED ELECTRIC LINE



GEOPROBE DATA TABLE FOR MAGELAND OIL LEAKING AST INVESTIGATION
BY METCO

SAMPLING CONDUCTED ON FEBRUARY 5-6, 2003

SOIL SAMPLES															
Sample Location Number	**G-1-1**	**G-1-2**	**G-1-3**	**G-2-1**	**G-2-2**	**G-2-3**	**G-2-4**	**G-3-1**	**G-3-2**	**G-3-3**	**G-3-4**	**G-4-1**	**G-4-2**	**G-4-3**	**G-5-1**
Sample Depth in Feet	3-4	7.5-8	11-11.5	3-4	7.5-8	11.5-12	14.5-15	3-4	7.5-8	11.5-12	13.5-14	3-4	7.5-8	11.5-12	3-4
Soil Type	Sandy Clay	Sandy Clay	Sand	Sandy Clay	Sandy Clay	Sandy Clay	Sand	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sand	Fill
Petroleum Odors	NO	YES	YES	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
Petroleum Staining	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Moisture	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST
HNU in Units	0	1	30	0	0	0	5	0	0	0	0	0	0	0	0
Lab Sample Collected?	YES	YES	YES	YES	YES	NO	YES	YES	NO	NO	YES	YES	NO	YES	YES
Solids, Total/%	79.8	79.5	95.7	77.3	78.5	ns	95.2	84.3	ns	ns	96.7	81.5	ns	97	82.1
Lead/ppm	**14**	ns	ns	**47**	ns	ns	ns	**31**	ns	ns	ns	**12**	ns	ns	**34**
Gasoline Range Organics/ppm	<6.3	**18**	**261**	<6.5	<6.4	ns	<5.3	<5.9	ns	ns	<5.2	<6.1	ns	<5.2	**11**
Diesel Range Organics/ppm	<6.3	**110**	**2,610**	**50**	<6.4	ns	<5.3	**74**	ns	ns	<5.2	<6.1	ns	<5.2	**974**
Benzene/ppb	<31	<31	<52	<32	<32	ns	<26	<30	ns	ns	<26	**65**	ns	<26	**49**
Ethylbenzene/ppb	<31	<31	<52	<32	<32	ns	<26	**50**	ns	ns	<26	<31	ns	<26	**99**
Methyl-t-butyl ether/ppb	<31	<31	<52	<32	<32	ns	<26	<30	ns	ns	<26	<31	ns	<26	<34
Toluene/ppb	<31	<31	<52	<32	<32	ns	<26	**56**	ns	ns	<26	<31	ns	<26	**134**
1,2,4-Trimethylbenzene/ppb	<31	<31	**470**	<32	<32	ns	**34**	**93**	ns	ns	<26	<31	ns	<26	**120**
1,3,5-Trimethylbenzene/ppb	<31	<31	**512**	<32	<32	ns	<26	<30	ns	ns	<26	<31	ns	<26	**49**
Xylenes/ppb	<94	<44	<73	<97	<45	ns	<37	**249**	ns	ns	<36	<92	ns	<36	**244**
Acenaphthene/ppb	<63	ns	ns	<65	ns	ns	ns	<59	ns	ns	ns	<61	ns	ns	<610
Acenaphthylene/ppb	<110	ns	ns	<110	ns	ns	ns	<100	ns	ns	ns	<100	ns	ns	<1,000
Anthracene/ppb	<6.3	ns	ns	<6.5	ns	ns	ns	<5.9	ns	ns	ns	<6.1	ns	ns	**183**
Benzo(a)anthracene/ppb	**14**	ns	ns	<6.5	ns	ns	ns	<5.9	ns	ns	ns	<6.1	ns	ns	**402**
Benzo(b)fluoranthene/ppb	**40**	ns	ns	<6.5	ns	ns	ns	**14**	ns	ns	ns	<6.1	ns	ns	**79**
Benzo(k)fluoranthene/ppb	**64**	ns	ns	<6.5	ns	ns	ns	**19**	ns	ns	ns	<6.1	ns	ns	**317**
Benzo(a)pyrene/ppb	**150**	ns	ns	<6.5	ns	ns	ns	**33**	ns	ns	ns	<6.1	ns	ns	**609**
Benzo(ghi)perylene/ppb	**238**	ns	ns	<6.5	ns	ns	ns	**40**	ns	ns	ns	<6.1	ns	ns	**1,340**
Chrysene/ppb	**85**	ns	ns	<6.5	ns	ns	ns	**21**	ns	ns	ns	<6.1	ns	ns	**341**
Dibenzo(a,h)anthracene/ppb	**14**	ns	ns	<9.7	ns	ns	ns	**24**	ns	ns	ns	<9.2	ns	ns	**633**
Fluoranthene/ppb	**201**	ns	ns	<13	ns	ns	ns	**62**	ns	ns	ns	<12	ns	ns	**1,020**
Fluorene/ppb	**14**	ns	ns	<13	ns	ns	ns	<12	ns	ns	ns	<12	ns	ns	**231**
Indeno(1,2,3-cd)pyrene/ppb	**93**	ns	ns	<6.5	ns	ns	ns	**27**	ns	ns	ns	<6.1	ns	ns	**743**
1-Methylnaphthalene/ppb	<38	ns	ns	<39	ns	ns	ns	<36	ns	ns	ns	<37	ns	ns	**901**
2-Methylnaphthalene/ppb	**79**	ns	ns	<32	ns	ns	ns	<30	ns	ns	ns	<31	ns	ns	**1,950**
Naphthalene/ppb	<38	<31	**606**	<39	<32	ns	<26	<36	ns	ns	<26	<37	ns	<26	**2,920**
Phenanthrene/ppb	**120**	ns	ns	**8.3**	ns	ns	ns	**27**	ns	ns	ns	<6.1	ns	ns	**828**
Pyrene/ppb	**201**	ns	ns	<6.5	ns	ns	ns	**56**	ns	ns	ns	<6.1	ns	ns	**378**
SPLP LEACHABILITY TEST RESULTS															
Benzene/ppb	ns	ns	<0.50	ns	ns	ns	<0.50	ns	ns	ns	ns	ns	ns	ns	ns
Ethylbenzene/ppb	ns	ns	**2.8**	ns	ns	ns	<1.0	ns	ns	ns	ns	ns	ns	ns	ns
Methyl-t-butyl ether/ppb	ns	ns	<1.0	ns	ns	ns	<1.0	ns	ns	ns	ns	ns	ns	ns	ns
Naphthalene/ppb	ns	ns	**53**	ns	ns	ns	<1.0	ns	ns	ns	ns	ns	ns	ns	ns
Toluene/ppb	ns	ns	<1.0	ns	ns	ns	<1.0	ns	ns	ns	ns	ns	ns	ns	ns
1,2,4-Trimethylbenzene/ppb	ns	ns	**14**	ns	ns	ns	<1.0	ns	ns	ns	ns	ns	ns	ns	ns
1,3,5-Trimethylbenzene/ppb	ns	ns	**12**	ns	ns	ns	<1.0	ns	ns	ns	ns	ns	ns	ns	ns
Xylenes/ppb	ns	ns	<3.0	ns	ns	ns	<3.0	ns	ns	ns	ns	ns	ns	ns	ns
Gasoline Range Organics/ppb	ns	ns	**1,300**	ns	ns	ns	<50	ns	ns	ns	ns	ns	ns	ns	ns

NOTE: Bold = detects ns = not sampled

METCO
Environmental Consulting, Fuel System Design, Installation and Service
2956 Airport Road – La Crosse, WI 54603 608-781-8879

GEOPROBE DATA TABLE FOR MAGELAND OIL LEAKING AST INVESTIGATION
BY METCO

SAMPLING CONDUCTED ON FEBRUARY 5-6, 2003

SOIL SAMPLES															
Sample Location Number	**G-6-1**	**G-6-2**	**G-6-3**	**G-7-1**	**G-7-2**	**G-7-3**	**G-8-1**	**G-8-2**	**G-8-3**	**G-9-1**	**G-9-2**	**G-9-3**	**G-10-1**	**G-10-2**	**G-10-3**
Sample Depth in Feet	3-4	7.5-8	11.5-12	3-4	7.5-8	11-12	3-4	7-8	8.5-9	3-4	7.5-8	9.5-10	3-4	7.5-8	11.5-12
Soil Type	Sandy Clay	Sandy Clay	Sand	Sandy Clay	Sandy Clay	Sand	Sandy Clay	Sand	Sand	Sandy Clay	Sand	Sand	Sandy Clay	Sandy Clay	Sand
Petroleum Odors	YES	NO	YES	NO	YES	YES	YES	YES	YES	NO	NO	NO	YES	NO	NO
Petroleum Staining	NO	NO	NO	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO
Moisture	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST
HNU in Units	0	0	0	0	35	20	15	15	15	0	0	0	5	0	2
Lab Sample Collected?	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO	YES	YES	NO	YES
Solids, Total/%	76.3	77.2	82.9	74.8	78.2	93.4	77.2	85.5	ns	78.4	ns	93.3	81.4	ns	82.7
Lead/ppm	**13**	ns	ns	**49**	ns	ns	**35**	ns	ns	**11**	ns	ns	**26**	ns	ns
Gasoline Range Organics/ppm	<6.6	<6.5	<6.0	<6.7	**1,230**	**621**	**570**	**63**	ns	<6.4	ns	**107**	**90**	ns	<6.0
Diesel Range Organics/ppm	<6.6	<6.5	<6.0	**110**	**4,220**	**846**	**5,440**	**363**	ns	**43**	ns	**204**	**2,330**	ns	<6.0
Benzene/ppb	<33	<32	<30	<33	<320	<128	<648	<29	ns	<32	ns	<27	<61	ns	<30
Ethylbenzene/ppb	<33	<32	<30	<33	<320	<128	**712**	<29	ns	<32	ns	<27	**110**	ns	<30
Methyl-t-butyl ether/ppb	<33	<32	<30	<33	<320	<128	<648	<29	ns	<32	ns	<27	<61	ns	<30
Toluene/ppb	<33	<32	<30	<33	<320	<128	<648	<29	ns	<32	ns	<27	<61	ns	<30
1,2,4-Trimethylbenzene/ppb	**60**	<32	<30	**41**	**691**	<128	<648	<29	ns	<32	ns	<27	**258**	ns	<30
1,3,5-Trimethylbenzene/ppb	**41**	<32	<30	<33	**2,050**	<128	<648	<29	ns	<32	ns	<27	**209**	ns	<30
Xylenes/ppb	<98	<45	<42	<100	<448	<193	<1,940	<41	ns	<96	ns	<38	**221**	ns	<42
Acenaphthene/ppb	<66	ns	ns	<67	ns	ns	<65	ns	ns	<64	ns	ns	<61	ns	ns
Acenaphthylene/ppb	<110	ns	ns	<110	ns	ns	<110	ns	ns	<110	ns	ns	<100	ns	ns
Anthracene/ppb	<6.6	ns	ns	**8.4**	ns	ns	**17**	ns	ns	<6.4	ns	ns	<6.1	ns	ns
Benzo(a)anthracene/ppb	<6.6	ns	ns	**19**	ns	ns	<6.5	ns	ns	**9.3**	ns	ns	<6.1	ns	ns
Benzo(b)fluoranthene/ppb	<6.6	ns	ns	**13**	ns	ns	<6.5	ns	ns	<6.4	ns	ns	<6.1	ns	ns
Benzo(k)fluoranthene/ppb	<6.6	ns	ns	**16**	ns	ns	<6.5	ns	ns	<6.4	ns	ns	<6.1	ns	ns
Benzo(a)pyrene/ppb	<6.6	ns	ns	**31**	ns	ns	<6.5	ns	ns	<6.4	ns	ns	<6.1	ns	ns
Benzo(ghi)perylene/ppb	<6.6	ns	ns	**90**	ns	ns	<6.5	ns	ns	<6.4	ns	ns	<6.1	ns	ns
Chrysene/ppb	<6.6	ns	ns	**23**	ns	ns	<6.5	ns	ns	<6.4	ns	ns	<6.1	ns	ns
Dibenzo(a,h)anthracene/ppb	<9.8	ns	ns	<10	ns	ns	<9.7	ns	ns	<9.6	ns	ns	<9.2	ns	ns
Fluoranthene/ppb	<13	ns	ns	**40**	ns	ns	<13	ns	ns	<13	ns	ns	**82**	ns	ns
Fluorene/ppb	<13	ns	ns	<13	ns	ns	<13	ns	ns	<13	ns	ns	<12	ns	ns
Indeno(1,2,3-cd)pyrene/ppb	<6.6	ns	ns	**32**	ns	ns	<6.5	ns	ns	<6.4	ns	ns	<6.1	ns	ns
1-Methylnaphthalene/ppb	<39	ns	ns	**52**	ns	ns	<39	ns	ns	<38	ns	ns	**39**	ns	ns
2-Methylnaphthalene/ppb	<33	ns	ns	**67**	ns	ns	<32	ns	ns	<32	ns	ns	**79**	ns	ns
Naphthalene/ppb	<39	<32	<30	<40	**793**	<128	<39	<29	ns	<38	ns	<27	**66**	ns	<30
Phenanthrene/ppb	<6.6	ns	ns	**45**	ns	ns	**26**	ns	ns	**9.8**	ns	ns	**25**	ns	ns
Pyrene/ppb	<6.6	ns	ns	**13**	ns	ns	<6.5	ns	ns	**7.9**	ns	ns	**42**	ns	ns
SPLP LEACHABILITY TEST RESULTS															
Benzene/ppb	ns	ns	ns	ns	ns	<0.50	ns	<0.50	ns	ns	ns	ns	ns	ns	ns
Ethylbenzene/ppb	ns	ns	ns	ns	ns	<1.0	ns	<1.0	ns	ns	ns	ns	ns	ns	ns
Methyl-t-butyl ether/ppb	ns	ns	ns	ns	ns	<1.0	ns	<1.0	ns	ns	ns	ns	ns	ns	ns
Naphthalene/ppb	ns	ns	ns	ns	ns	**3**	ns	<1.0	ns	ns	ns	ns	ns	ns	ns
Toluene/ppb	ns	ns	ns	ns	ns	<1.0	ns	<1.0	ns	ns	ns	ns	ns	ns	ns
1,2,4-Trimethylbenzene/ppb	ns	ns	ns	ns	ns	<1.0	ns	<1.0	ns	ns	ns	ns	ns	ns	ns
1,3,5-Trimethylbenzene/ppb	ns	ns	ns	ns	ns	<1.0	ns	<1.0	ns	ns	ns	ns	ns	ns	ns
Xylenes/ppb	ns	ns	ns	ns	ns	<3.0	ns	<3.0	ns	ns	ns	ns	ns	ns	ns
Gasoline Range Organics/ppb	ns	ns	ns	ns	ns	**130**	ns	**100**	ns	ns	ns	ns	ns	ns	ns

NOTE: Bold = detects ns = not sampled

GEOPROBE DATA TABLE FOR MAGELAND OIL LEAKING AST INVESTIGATION
BY METCO

SAMPLING CONDUCTED ON FEBRUARY 5-6, 2003

SOIL SAMPLES

Sample Location Number	G-11-1	G-11-2	G-11-3	G-11-4	G-12-1	G-12-2	G-12-3	G-13-1	G-13-2	G-13-3	G-13-4	G-14-1	G-14-2	G-14-3	G-15-1	G-15-2	G-15-3	G-15-4	Methanol Blank
Sample Depth in Feet	3-4	7.5-8	11-12	14.5-15	3-4	7.5-8	11-12	3-4	7.5-8	11.5-12	12-12.5	3-4	7.5-8	11.5-12	3-4	7.5-8	11.5-12	14.5-15	ns
Soil Type	Sandy Clay	Sandy Clay	Sandy Clay	Sand	Sandy Clay	Sandy Clay	Sand	Sandy Clay	Sandy Clay	Sand	Sand	Sandy Clay	Sandy Clay	Sand	Sandy Clay	Sandy Clay	Sandy Clay	Sand	ns
Petroleum Odors	NO	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	ns
Petroleum Staining	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	ns
Moisture	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	ns
HNU in Units	0	250	250	280	0	0	5	50	15	75	65	0	0	0	0	0	0	0	ns
Lab Sample Collected?	YES	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	NO	YES	YES	NO	NO	YES	YES
Solids, Total/%	84.2	79.3	84	96	79.8	ns	81.4	74.7	79.3	ns	96.9	79	ns	96.3	81.6	ns	ns	96.4	ns
Lead/ppm	**15**	ns	**5.7**	ns	**14**	ns	ns	**24**	ns	ns	ns	**66**	ns	ns	**37**	ns	ns	ns	ns
Gasoline Range Organics/ppm	**7.4**	**1,510**	**1,430**	**385**	<6.3	ns	<6.1	**576**	**110**	ns	**464**	<6.3	ns	<5.2	<6.1	ns	ns	<5.2	<5.0
Diesel Range Organics/ppm	**58**	**769**	**750**	**125**	**40**	ns	**27**	**9,240**	**214**	ns	**2,270**	**165**	ns	<5.2	**13**	ns	ns	<5.2	ns
Benzene/ppb	<30	<32	<1,430	<26	<31	ns	<31	<669	<63	ns	<258	<32	ns	<26	<31	ns	ns	<26	<25
Ethylbenzene/ppb	<30	**1,250**	**13,100**	**5,100**	<31	ns	<31	**2,010**	<63	ns	<258	**38**	ns	<26	<31	ns	ns	<26	<25
Methyl-t-butyl ether/ppb	<30	<32	<1,430	<26	<31	ns	<31	<669	<63	ns	<258	<32	ns	<26	<31	ns	ns	<26	<25
Toluene/ppb	**65**	<32	**13,100**	**1,770**	<31	ns	<31	<669	<63	ns	<258	**42**	ns	<26	<31	ns	ns	<26	<25
1,2,4-Trimethylbenzene/ppb	**962**	**227,000**	**202,000**	**43,800**	<31	ns	<31	**817**	<63	ns	**2,060**	<32	ns	<26	<31	ns	ns	<26	<25
1,3,5-Trimethylbenzene/ppb	**487**	**82,000**	**78,600**	**14,600**	<31	ns	<31	**1,870**	**86**	ns	**1,240**	<32	ns	<26	<31	ns	ns	<26	<25
Xylenes/ppb	**190**	**17,700**	**53,600**	**30,200**	<94	ns	<43	<2,010	<88	ns	<361	<95	ns	<36	<92	ns	ns	<36	<35
Bromobenzene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Bromochloromethane/ppb	ns	ns	<2,140	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Bromodichloromethane/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Bromoform/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Bromomethane/ppb	ns	ns	<5,950	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
n-Butylbenzene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
sec-Butylbenzene/ppb	ns	ns	**2,740**	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
tert-Butylbenzeneppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Carbon Tetrachloride/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Chlorobenzene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Chlorodibromomethane/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Chloroethane/ppb	ns	ns	<2,980	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Chloroform/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Chloromethane/ppb	ns	ns	<2,980	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
2-Chlorotoluene/ppb	ns	ns	<2,980	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
4-Chlorotoluene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,2-Dibromo-3-Chloropropane/ppl	ns	ns	<2,980	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,2-Dibromoethane (EDB)/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Dibromomethane/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,2-Dichlorobenzene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,3-Dichlorobenzene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,4-Dichlorobenzene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Dichlorodifluoromethane/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,1-Dichloroethane/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,2-Dichloroethane/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,1-Dichloroethene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
cis-1,2-Dichloroethene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
trans-1,2-Dichloroethenep/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,2-Dichloropropane/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,3-Dichloropropane/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
2,2-Dichloropropane/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,1-Dichloropropene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
cis-1,3-Dichloropropene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
trans-1,3-Dichloropropene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Di-isopropyl ether/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Hexachlorobutadiene/ppb	ns	ns	<2,140	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Isopropylbenzene/ppb	ns	ns	**8,210**	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
p-Isopropyltoluene/ppb	ns	ns	**2,380**	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Methylene Chloride/ppb	ns	ns	<2,980	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
n-Propylbenzene/ppb	ns	ns	29,800	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Styrene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,1,1,2-Tetrachloroethane/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,1,2,2-Tetrachloroethane/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Tetrachloroethene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,2,3-Trichlorobenzene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,2,4-Trichlorobenzene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,1,1-Trichloroethane/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,1,2-Trichloroethane/ppb	ns	ns	<2,140	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Trichloroethene/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Trichlorofluoromethane/ppb	ns	ns	<1,430	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1,2,3-Trichloropropane/ppb	ns	ns	<5,950	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Vinyl Chloride/ppb	ns	ns	<2,140	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
Acenaphthene/ppb	<59	ns	ns	ns	<63	ns	ns	**3,080**	ns	ns	ns	<50	ns	ns	**74**	ns	ns	ns	ns
Acenaphthylene/ppb	<100	ns	ns	ns	<110	ns	ns	<2,200	ns	ns	ns	<85	ns	ns	<100	ns	ns	ns	ns
Anthracene/ppb	<5.9	ns	ns	ns	<6.3	ns	ns	**3,480**	ns	ns	ns	**19**	ns	ns	**64**	ns	ns	ns	ns
Benzo(a)anthracene/ppb	**30**	ns	ns	ns	<6.3	ns	ns	**17,400**	ns	ns	ns	**50**	ns	ns	**120**	ns	ns	ns	ns
Benzo(b)fluoranthene/ppb	<5.9	ns	ns	ns	<6.3	ns	ns	<130	ns	ns	ns	**16**	ns	ns	**59**	ns	ns	ns	ns
Benzo(k)fluoranthene/ppb	<5.9	ns	ns	ns	<6.3	ns	ns	<130	ns	ns	ns	**33**	ns	ns	**71**	ns	ns	ns	ns
Benzo(a)pyrene/ppb	<5.9	ns	ns	ns	<6.3	ns	ns	<130	ns	ns	ns	**59**	ns	ns	**135**	ns	ns	ns	ns
Benzo(ghi)perylene/ppb	<5.9	ns	ns	ns	<6.3	ns	ns	<130	ns	ns	ns	**100**	ns	ns	**135**	ns	ns	ns	ns
Chrysene/ppb	**7.1**	ns	ns	ns	<6.3	ns	ns	**2,540**	ns	ns	ns	**53**	ns	ns	**120**	ns	ns	ns	ns
Dibenzo(a,h)anthracene/ppb	<8.9	ns	ns	ns	<9.4	ns	ns	<200	ns	ns	ns	<7.5	ns	ns	**17**	ns	ns	ns	ns
Fluoranthene/ppb	**23**	ns	ns	ns	<13	ns	ns	**17,400**	ns	ns	ns	**220**	ns	ns	**306**	ns	ns	ns	ns
Fluorene/ppb	<12	ns	ns	ns	<13	ns	ns	**8,700**	ns	ns	ns	**28**	ns	ns	**42**	ns	ns	ns	ns
Indeno(1,2,3-cd)pyrene/ppb	<5.9	ns	ns	ns	<6.3	ns	ns	<130	ns	ns	ns	**37**	ns	ns	**98**	ns	ns	ns	ns
1-Methylnaphthalene/ppb	<36	ns	ns	ns	<38	ns	ns	**16,100**	ns	ns	ns	**170**	ns	ns	**135**	ns	ns	ns	ns
2-Methylnaphthalene/ppb	<30	ns	ns	ns	<31	ns	ns	**88,400**	ns	ns	ns	**590**	ns	ns	**331**	ns	ns	ns	ns
Naphthalene/ppb	<36	**9,080**	**15,500**	**3,440**	<38	ns	<31	**9,370**	<63	ns	**5,880**	**160**	ns	<26	**159**	ns	ns	<26	<25
Phenanthrene/ppb	**11**	ns	ns	ns	<6.3	ns	ns	**16,100**	ns	ns	ns	**200**	ns	ns	**270**	ns	ns	ns	ns
Pyrene/ppb	<5.9	ns	ns	ns	<6.3	ns	ns	**17,400**	ns	ns	ns	**63**	ns	ns	**282**	ns	ns	ns	ns
SPLP LEACHABILITY TEST RESULTS																			
Benzene/ppb	ns	ns	<25	ns	ns	ns	<0.50	ns	ns	ns	<0.50	ns	ns	ns	ns	ns	ns	ns	ns
Ethylbenzene/ppb	ns	ns	**160**	ns	ns	ns	<1.0	ns	ns	ns	<1.0	ns	ns	ns	ns	ns	ns	ns	ns
Methyl-t-butyl ether/ppb	ns	ns	<50	ns	ns	ns	<1.0	ns	ns	ns	<1.0	ns	ns	ns	ns	ns	ns	ns	ns
Naphthalene/ppb	ns	ns	**300**	ns	ns	ns	<1.0	ns	ns	ns	**3.2**	ns	ns	ns	ns	ns	ns	ns	ns
Toluene/ppb	ns	ns	**200**	ns	ns	ns	<1.0	ns	ns	ns	<1.0	ns	ns	ns	ns	ns	ns	ns	ns
1,2,4-Trimethylbenzene/ppb	ns	ns	**3,800**	ns	ns	ns	**5.1**	ns	ns	ns	**2**	ns	ns	ns	ns	ns	ns	ns	ns
1,3,5-Trimethylbenzene/ppb	ns	ns	**1,000**	ns	ns	ns	**1.4**	ns	ns	ns	<1.0	ns	ns	ns	ns	ns	ns	ns	ns
Xylenes/ppb	ns	ns	**810**	ns	ns	ns	<3.0	ns	ns	ns	<3.0	ns	ns	ns	ns	ns	ns	ns	ns
Gasoline Range Organics/ppb	ns	ns	**20,000**	ns	ns	ns	**150**	ns	ns	ns	<50	ns	ns	ns	ns	ns	ns	ns	ns

NOTE: Bold = detects ns = not sampled

GEOPROBE DATA TABLE FOR MAGELAND OIL LEAKING AST INVESTIGATION
BY METCO

SAMPLING CONDUCTED ON MAY 28, 2003

SOIL SAMPLES

Sample Location Number	G-16-1	G-16-2	G-17-1	G-17-2	G-18-1	G-18-2	G-18-3	G-19-1	G-19-2	G-19-3	G-20-1	G-20-2	G-21-1	G-21-2	G-21-3	G-21-4	G-22-1
Sample Depth in Feet	3-4	7.5-8	3.5-4	7.5-8	3-4	7.5-8	11.5-12	3-4	7.5-8	11.5-12	3-4	7.5-8	3-4	7.5-8	11.5-12	15-16	3-4
Soil Type	Sandy Clay	Sand	Sandy Clay	Sand	Fill	Sandy Clay	Sandy Clay	Fill	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay	Sand	Sandy Clay
Petroleum Odors	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	NO
Petroleum Staining	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO
Moisture	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST
HNU in Units	0	0	0	0	0	0	0	0	0	0	0	0	120	100	80	20	0
Lab Sample Collected?	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Solids, Total/%	81.5	95.7	79.2	88.2	80.1	80.6	81.1	80	79.8	79.2	78.8	80	71.8	77.2	78.9	94.6	81.7
Lead/ppm	**9.7**	ns	ns	ns	ns	ns	ns	ns	ns	ns	**48**	ns	**13**	ns	ns	ns	<4.9
Gasoline Range Organics/ppm	<6.1	<5.2	<6.3	<5.7	<6.2	<6.2	<6.2	<6.2	<6.3	<6.3	<6.3	<6.2	**3060**	**453**	**266**	**634**	<6.1
Diesel Range Organics/ppm	<6.1	<5.2	ns	ns	<6.2	**22**	<6.2	<6.2	**6.8**	**14**	**7.2**	**7**	**5990**	**1300**	**418**	**1690**	<6.1
Benzene/ppb	<31	<26	<32	<28	<31	<31	<31	<31	<31	<32	<32	<31	**1100**	**363**	<152	<264	<31
Ethylbenzene/ppb	<31	<26	<32	<28	<31	<31	<31	<31	<31	<32	<32	<31	**7380**	**816**	**355**	**1060**	<31
Methyl-t-butyl ether/ppb	<31	<26	<32	<28	<31	<31	<31	<31	<31	<32	<32	<31	<696	<32	<152	<264	<31
Toluene/ppb	<31	<26	<32	<28	<31	<31	<31	<31	<31	<32	<32	<31	**5290**	**376**	<152	<264	<31
1,2,4-Trimethylbenzene/ppb	<31	<26	<32	<28	<31	<31	<31	<31	<31	<32	<32	<31	**237000**	**6990**	**8370**	**22200**	**62**
1,3,5-Trimethylbenzene/ppb	<31	<26	<32	<28	<31	<31	<31	<31	<31	<32	<32	<31	**69600**	**4150**	**3680**	**8670**	**42**
Xylenes, Total/ppb	<92	<37	<95	<85	<94	<43	<43	<94	<44	<44	<95	<44	**36200**	**3110**	646	**5290**	<92
Acenaphthene/ppb	<61	ns	ns	ns	<62	ns	ns	<62	ns	ns	<63	ns	**195**	ns	ns	ns	<61
Acenaphthylene/ppb	<100	ns	ns	ns	<110	ns	ns	<110	ns	ns	<110	ns	<240	ns	ns	ns	<100
Anthracene/ppb	<6.1	ns	ns	ns	<6.2	ns	ns	<6.2	ns	ns	<6.3	ns	**71**	ns	ns	ns	**6.6**
Benzo(a)anthracene/ppb	<6.1	ns	ns	ns	**16**	ns	ns	<6.2	ns	ns	<6.3	ns	**139**	ns	ns	ns	**39**
Benzo(b)fluoranthene/ppb	<6.1	ns	ns	ns	<6.2	ns	ns	<6.2	ns	ns	<6.3	ns	<14	ns	ns	ns	**28**
Benzo(k)fluoranthene/ppb	<6.1	ns	ns	ns	<6.2	ns	ns	<6.2	ns	ns	<6.3	ns	<14	ns	ns	ns	**26**
Benzo(a)pyrene/ppb	<6.1	ns	ns	ns	**16**	ns	ns	<6.2	ns	ns	<6.3	ns	<14	ns	ns	ns	**50**
Benzo(ghi)perylene/ppb	<6.1	ns	ns	ns	**15**	ns	ns	<6.2	ns	ns	<6.3	ns	<14	ns	ns	ns	**56**
Chrysene/ppb	<6.1	ns	ns	ns	**12**	ns	ns	<6.2	ns	ns	<6.3	ns	<14	ns	ns	ns	**35**
Dibenzo(a,h)anthracene/ppb	<9.2	ns	ns	ns	<9.4	ns	ns	<9.4	ns	ns	<9.5	ns	<20	ns	ns	ns	**13**
Fluoranthene/ppb	<12	ns	ns	ns	**49**	ns	ns	**15**	ns	ns	<13	ns	**320**	ns	ns	ns	**80**
Fluorene/ppb	<12	ns	ns	ns	<12	ns	ns	<12	ns	ns	<13	ns	**1810**	ns	ns	ns	<12
Indeno(1,2,3-cd)pyrene/ppb	<6.1	ns	ns	ns	**12**	ns	ns	<6.2	ns	ns	<6.3	ns	<14	ns	ns	ns	**37**
1-Methylnaphthalene/ppb	<37	ns	ns	ns	<37	ns	ns	<38	ns	ns	<38	ns	**16700**	ns	ns	ns	<37
2-Methylnaphthalene/ppb	<31	ns	ns	ns	<31	ns	ns	<31	ns	ns	<32	ns	**32000**	ns	ns	ns	**78**
Naphthalene/ppb	<37	<26	ns	ns	<37	<31	<31	<38	<31	<32	<38	<31	**15300**	**2070**	**482**	**3280**	**39**
Phenanthrene/ppb	<6.1	ns	ns	ns	**46**	ns	ns	**12**	ns	ns	<6.3	ns	**585**	ns	ns	ns	**50**
Pyrene/ppb	<6.1	ns	ns	ns	**39**	ns	ns	<6.2	ns	ns	<6.3	ns	**669**	ns	ns	ns	**87**

NOTE: Bold = detects ns = not sampled

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Environmental Consulting, Fuel System Design, Installation and Service
2956 Airport Road – La Crosse, WI 54603 608-781-8879

SOIL EXCAVATION DATA TABLE FOR MAGELAND OIL
BY METCO

EXCAVATION & SAMPLING CONDUCTED ON AUGUST 11, 2004

SOIL SAMPLES

Sample Location Number	EX-1	EX-2	EX-3	EX-4	EX-5	EX-6	EX-7	EX-8	EX-9	EX-10	EX-11	EX-12	EX-13	EX-14
Sample Depth Below Ground Surface	4	17	4	17	4	17	17	17	4	17	4	15	4	15
Soil Type	CLAY	SAND	CLAY	SAND	CLAY	SAND	SAND	SAND	CLAY	SAND	CLAY	SAND	CLAY	SAND
Petroleum Odors	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO	NO	NO	NO
Percent Solids/%	80.5	94.2	80.2	94.0	79.6	94.6	94.0	94.1	79.1	94.6	82.9	96.2	82.5	96.2
Benzene/ppb	< 25	< 25	< 25	< 25	**39**	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Bromobenzene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Bromodichloromethane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Bromoform/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
tert-Butylbenzene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
sec-Butylbenzene/ppb	< 25	< 25	< 25	< 25	< 25	**255**	**72**	**35 "J"**	< 25	< 25	< 25	< 25	< 25	< 25
n-Butylbenzene/ppb	< 25	< 25	< 25	< 25	< 25	**472**	**135**	**71**	< 25	< 25	< 25	< 25	< 25	< 25
Carbon Tetrachloride/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Chlorobenzene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Chloroethane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Chloroform/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Chloromethane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
2-Chlorotoluene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
4-Chlorotoluene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,2-Dibromo-3-chloropropane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Dibromochloromethane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,4-Dichlorobenzene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,3-Dichlorobenzene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,2-Dichlorobenzene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Dichlorodifluoromethane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,2-Dichloroethane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,1-Dichloroethane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,1-Dichloroethene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
cis-1,2-Dichloroethene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
trans-1,2-Dichloroethene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,2-Dichloropropane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
2,2-Dichloropropane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,3-Dichloropropane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Di-isopropyl ether/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
EDB (1,2-Dibromoethane)/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene/ppb	< 25	< 25	< 25	< 25	< 25	**150**	**47**	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Hexachlorobutadiene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Isopropylbenzene/ppb	< 25	< 25	< 25	< 25	< 25	**101**	**36**	< 25	< 25	< 25	< 25	< 25	< 25	< 25
p-Isopropyltoluene/ppb	< 25	< 25	< 25	< 25	< 25	**157**	**41**	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Methylene chloride/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Methyl tert-butyl ether (MTBE)/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Naphthalene/ppb	< 25	< 25	< 25	< 25	< 25	**1810**	**399**	**198**	< 25	< 25	< 25	< 25	< 25	< 25
n-Propylbenzene/ppb	< 25	< 25	< 25	< 25	< 25	**195**	**92**	**50**	< 25	< 25	< 25	< 25	< 25	< 25
1,1,2,2-Tetrachloroethane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,1,1,2-Tetrachloroethane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Tetrachloroethene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Toluene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,2,4-Trichlorobenzene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,2,3-Trichlorobenzene/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,1,1-Trichloroethane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,1,2-Trichloroethane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Trichloroethene (TCE)/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Trichlorofluoromethane/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,2,4-Trimethylbenzene/ppb	< 25	< 25	< 25	< 25	< 25	**826**	**387**	**255**	< 25	< 25	< 25	< 25	< 25	< 25
1,3,5-Trimethylbenzene/ppb	< 25	< 25	< 25	< 25	< 25	**334**	**154**	**98**	< 25	< 25	< 25	< 25	< 25	< 25
Vinyl Chloride/ppb	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
m&p-Xylene/ppb	< 50	< 50	< 50	< 50	< 50	**318**	**106**	**61**	< 50	< 50	< 50	< 50	< 50	< 50
o-Xylene/ppb	< 25	< 25	< 25	< 25	< 25	**77**	**30**	< 25	< 25	< 25	< 25	< 25	< 25	< 25

NOTE: Bold = detects ns = not sampled
"J" Flag: Analyte detected between LOD and LOQ

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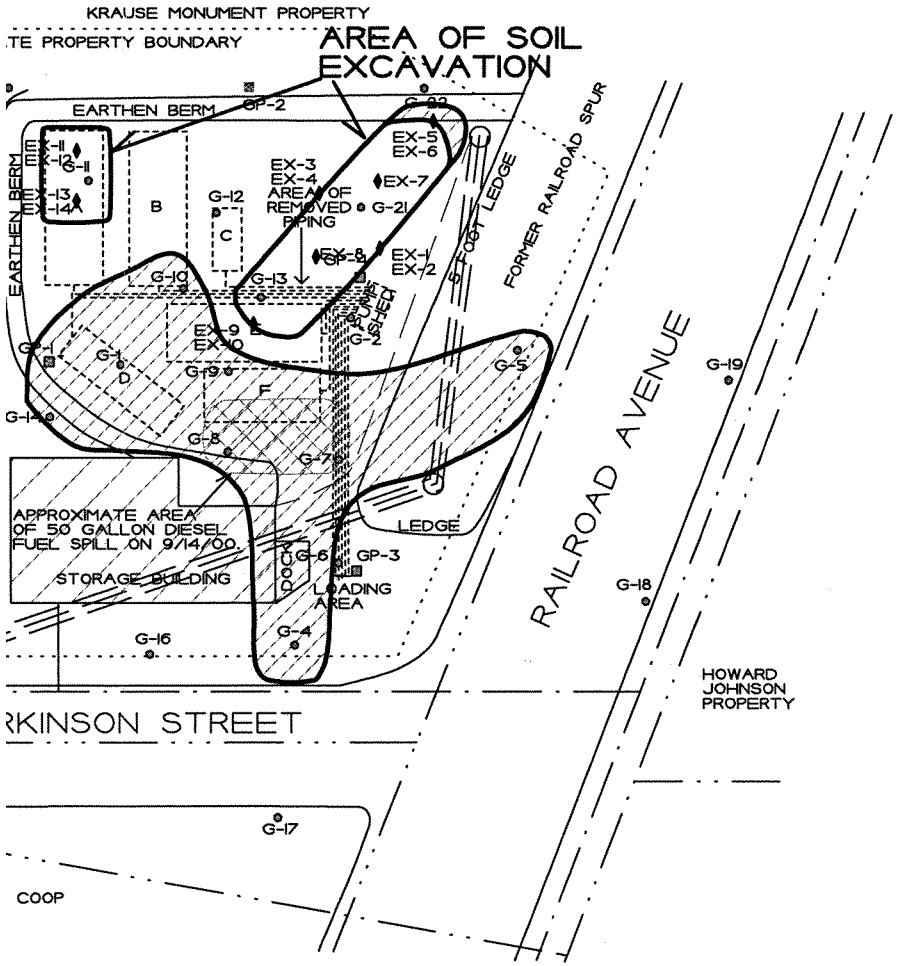
L SOIL
TION MAP
L COMPANY
SCONSIN
CALE:
INCH = 40 FEET

ION BASED ON AVAILABLE
CONDITIONS MAY DIFFER

**REA OF RESIDUAL SOIL CONTAMINATION
XCEEDING NR720 SOIL CLEANUP
TANDARDS AND/OR COMM46 TABLE I
ALUES.**

FORMER AST'S ARE LABELED AS FOLLOWS:
A - 18,000 GALLON DIESEL
B - 18,000 GALLON #2 FUEL OIL
C - 3,000 GALLON PREMIUM GASOLINE
D - 10,000 GALLON #1 FUEL OIL
E - 18,000 GALLON GASOLINE
F - 17,000 GALLON DIESEL

- SITE ASSESSMENT SAMPLE LOCATION
- GEOPROBE BORING LOCATION
- EXCAVATION PROJECT SOIL SAMPLE LOCATION
- OVERHEAD LINES
- WATER LINE
- SEWER LINE
- GAS LINE
- BURIED ELECTRIC LINE



SOIL SAMPLING RESULTS

(ONLY NR720, COMM46, AND GENERIC RCL EXCEEDANCES ARE LISTED)

NOTE: ALL SOIL RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).

GRO - GASOLINE RANGE ORGANICS
DRO - DIESEL RANGE ORGANICS
B - BENZENE
E - ETHYLBENZENE
N - NAPHTHALENE
T - TOLUENE
TMB - TRIMETHYLBENZENE
X - XYLENE
B(a)A - BENZO(a)ANTHRACENE
B(a)P - BENZO(a)PYRENE
D(a,h)A - DIBENZO(a,h)ANTHRACENE
I(1,2,3-cd)P - INDENO(1,2,3-cd)PYRENE

SITE ASSESSMENT (5/21/97)

GP-1-3 (10-11 FEET)
416 GRO

GP-4-3 (13.5-14 FEET)
254 GRO

GEOPROBE PROJECT #1 (2/05-06/03)

G-1-1(3-4 FEET)
0.15 B(a)P
0.014 D(a,h)A
0.093 I(1,2,3-cd)P

G-1-2 (7.5-8 FEET)
110 DRO

G-1-3 (11-11.5 FEET)
261 GRO
2,610 DRO

G-3-1 (3-4 FEET)
0.033 B(a)P
0.024 D(a,h)A

G-4-1 (3-4 FEET)
0.065 B

G-5-1 (3-4 FEET)
0.049 B
974 DRO
2.92 N
0.402 B(a)A
0.609 B(a)P
0.633 D(a,h)A
0.743 I(1,2,3-cd)P

G-7-1 (3-4 FEET)
110 DRO
0.031 B(a)P

G-7-2 (7.5-8 FEET)
1,230 GRO
4,220 DRO

G-7-3 (11-12 FEET)
621 GRO
846 DRO

G-8-1 (3-4 FEET)
570 GRO
5,440 DRO

G-8-2 (7-8 FEET)
363 DRO

GEOPROBE PROJECT #1 CONTINUED

G-9-3 (9.5-10 FEET)
107 GRO
204 DRO

G-10-1 (3-4 FEET)
2,330 DRO

G-11-2 (7.5-8 FEET)
1,510 GRO
769 DRO
9.08 N
227 1,2,4 TMB
82 1,3,5 TMB
17.7 X

G-11-3 (11-12 FEET)
1,430 GRO
750 DRO
13.1 E
15.5 N
13.1 T
202 1,2,4 TMB
78.6 1,3,5 TMB
53.6 X

G-11-4 (14.5-15 FEET)
385 GRO
125 DRO
5.1 E
3.44 N
1.77 T
14.6 1,3,5 TMB
30.2 X

G-13-1 (3-4 FEET)
576 GRO
9,240 DRO
9.37 N
17.4 B(a)A

G-13-2 (7.5-8 FEET)
110 GRO
214 DRO

G-13-4 (12-12.5 FEET)
464 GRO
2,270 DRO
5.88 N

G-14-1 (3-4 FEET)
66 LEAD
165 DRO
0.059 B(a)P

G-15-1 (3-4 FEET)
0.12 B(a)A
0.135 B(a)P
0.017 D(a,h)A
0.098 I(1,2,3-cd)P

GEOPROBE PROJECT #2 (5/28/03)

G-18-1 (3-4 FEET)
0.016 B(a)P

G-21-1 (3-4 FEET)
1.1 B
7.38 E
5.29 T
237 1,2,4-TMB
69.6 1,3,5-TMB
36.2 X
3,060 GRO
5,990 DRO
0.139 B(a)A
15.3 N

G-21-2 (7.5-8 FEET)
453 GRO
1,300 DRO
0.363 B

G-21-3 (11.5-12 FEET)
266 GRO
418 DRO

G-21-4 (15-16 FEET)
634 GRO
1,690 DRO
3.28 N
5.29 X

G-22-1 (3-4 FEET)
0.05 B(a)P
0.013 D(a,h)A

EXCAVATION PROJECT (8/11/04)

EX-5 (4 FEET)
0.039 B

CROSS SECTION MAP

MAGELAND OIL COMPANY
VIROQUA, WISCONSIN

METCO

SCALE:
1 INCH = 30 FEET

DRAWN BY: ED
DATE: 1/27/03
JOB NO.: R-00-533/C851

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

AREA OF RESIDUAL SOIL CONTAMINATION EXCEEDING NR720 SOIL CLEANUP STANDARDS AND/OR COMM46 TABLE I VALUES.

FORMER AST'S ARE LABELED AS FOLLOWS:
A - 18,000 GALLON DIESEL
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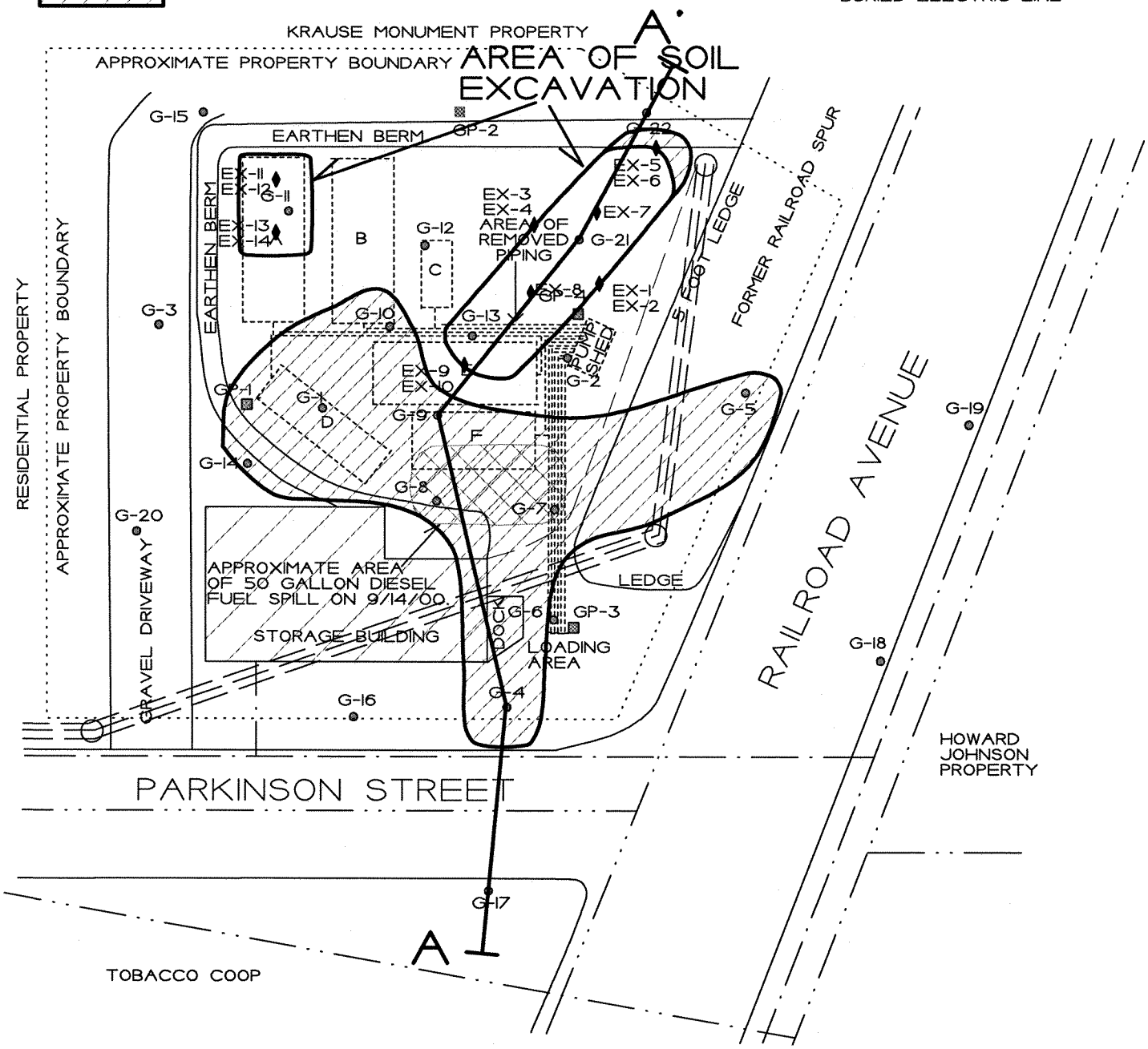
C - 3,000 GALLON PREMIUM GASOLINE
D - 10,000 GALLON #1 FUEL OIL
E - 18,000 GALLON GASOLINE
F - 17,000 GALLON DIESEL

- SITE ASSESSMENT SAMPLE LOCATION
- GEOPROBE BORING LOCATION
- EXCAVATION PROJECT SOIL SAMPLE LOCATION
- OVERHEAD LINES
- WATER LINE
- SEWER LINE
- GAS LINE
- BURIED ELECTRIC LINE



CROSS SECTION MAP CLOSE UP

MAGELAND OIL COMPANY

VIROQUA, WISCONSIN

METCO

SCALE: 1 INCH = 20 FEET

DRAWN BY: ED

DATE: 1/27/03

JOB NO.: R-00-633/C851

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

AREA OF RESIDUAL SOIL CONTAMINATION EXCEEDING NR720 SOIL CLEANUP STANDARDS AND/OR COMM46 TABLE I VALUES.

FORMER AST'S ARE LABELED AS FOLLOWS:
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- SITE ASSESSMENT SAMPLE LOCATION
- GEOPROBE BORING LOCATION
- EXCAVATION PROJECT SOIL SAMPLE LOCATION
- OVERHEAD LINES
- WATER LINE
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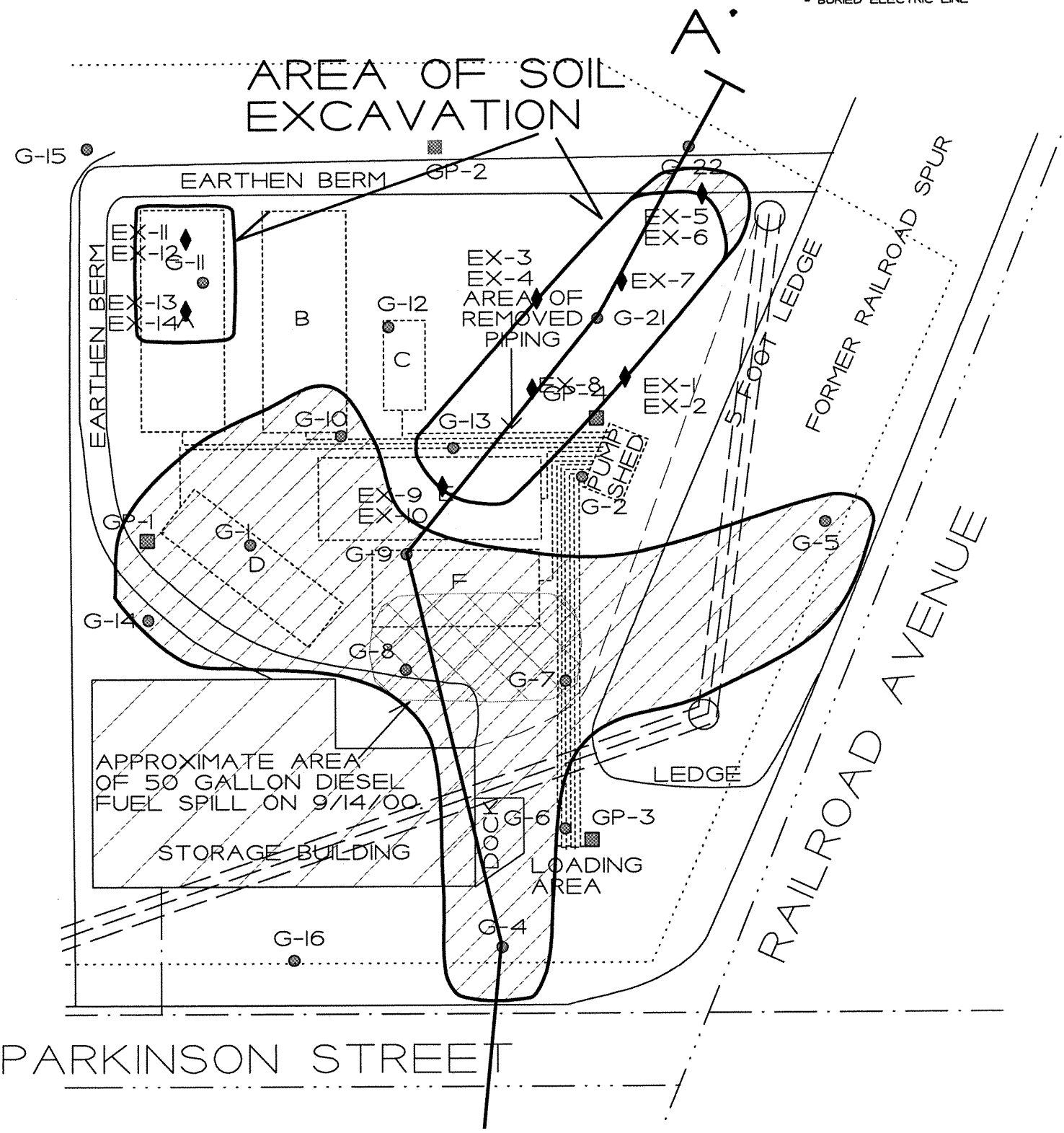
- GAS LINE
- BURIED ELECTRIC LINE



CROSS SECTION

MAGELAND OIL COMPANY

METCO

VIROQUA, WISCONSIN

DRAWN BY: ED
DATE: 5/24/03
JOB NO.: R-00-633/C&R

HORIZONTAL SCALE: 1 INCH = 20 FEET
VERTICAL SCALE: 1 INCH = 6.7 FEET

INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER.

SOIL SAMPLE RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).

LEACHABILITY SAMPLE RESULTS ARE PRESENTED IN PARTS PER BILLION (PPB).

NOTE: SOIL SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE FOLLOWING EVENTS:

GEOPROBE PROJECT # 1 (2/5-6/03)
GEOPROBE PROJECT #2 (5/28/03)
EXCAVATION PROJECT (8/11/04)

GRO = GASOLINE RANGE ORGANICS
DRO = DIESEL RANGE ORGANICS
B = BENZENE
E = ETHYLBENZENE
T = TOLUENE
TMB = TRIMETHYLBENZENE
X = XYLENES
N = NAPHTHALENE
B(a)A = BENZO(a)ANTHRACENE
B(a)P = BENZO(a)PYRENE
D(a,h)A = DIBENZO(a,h)ANTHRACENE

● - GEOPROBE BORING LOCATION

- GEOPROBE SOIL SAMPLE LOCATION

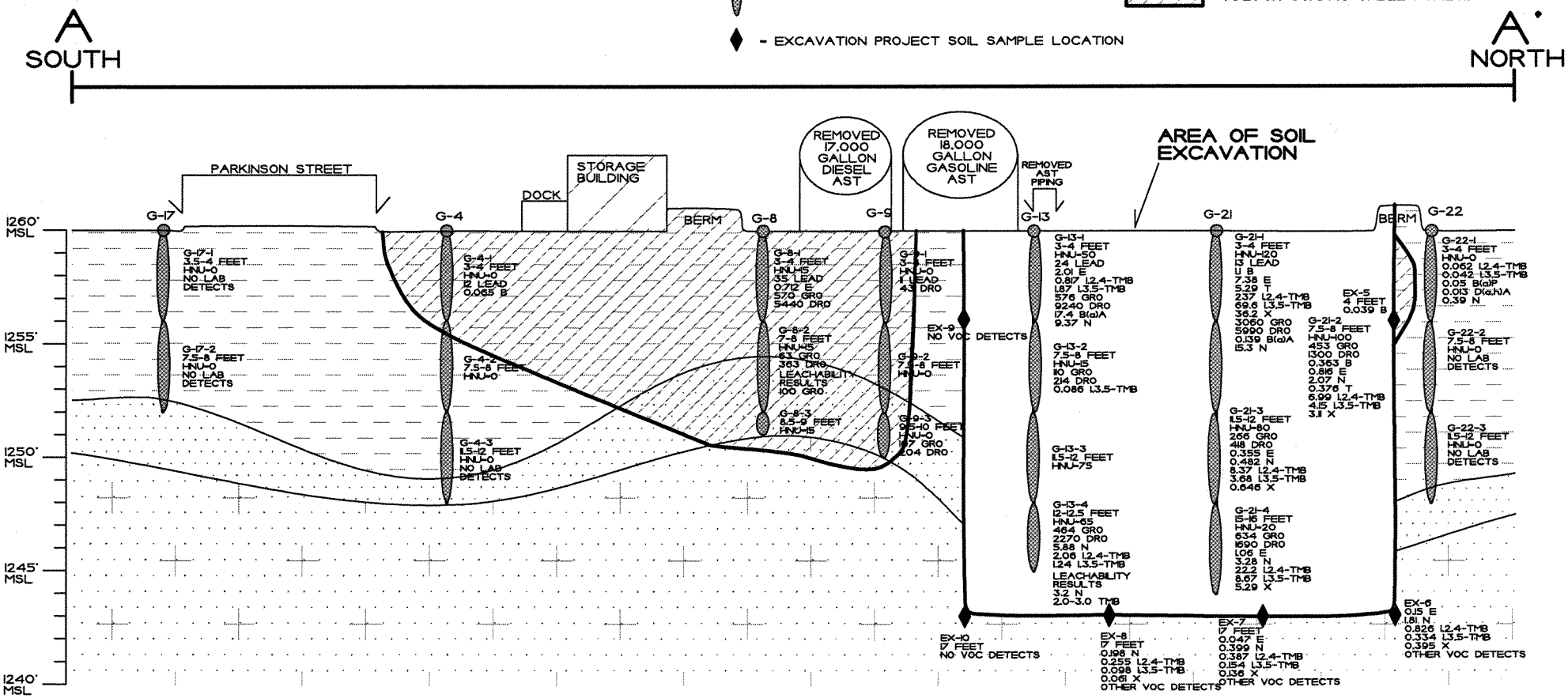
♦ - EXCAVATION PROJECT SOIL SAMPLE LOCATION

BROWN TO GREEN SANDY CLAY

GRAY TO WHITE TO TAN TO ORANGE TO RED, VERY FINE TO FINE GRAINED SAND (WEATHERED SANDSTONE)

SANDSTONE

AREA OF RESIDUAL SOIL CONTAMINATION EXCEEDING NR720 SOIL CLEANUP STANDARDS AND/OR COMM46 TABLE 1 VALUES.



WDNR BRRTS Case #: 02-63-152688

WDNR Site Name: Mageland Oil

Geographic Information System (GIS) Registry of Closed Remediation Sites

In compliance with the revisions to the NR 700 rule series requiring certain closed sites to be listed on the Geographic Information System (GIS) Registry of Closed Remediation Sites (Registry) effective Nov., 2001, I have provided the following information.

To the best of my knowledge the legal descriptions provided and attached to this statement are complete and accurate.

Responsible Party: DAVID MAGELAND PRES
(print name/title)

(signature) 7-7-03
(date)

METCO
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