GIS REGISTRY INFORMATION

SITE NAME:	Jon Rufenacht Oil Company		
BRRTS #:	02-23-000927	**FID #** (if appropriate):	
COMMERCE # (if appropriate):	53566-1339-20		
CLOSURE DATE:	April 06, 2004		
STREET ADDRESS:	120 10 1/2 Street		
CITY:	Monroe		

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	**X =**	548025		**Y =**	236545	
CONTAMINATED MEDIA:	Groundwater	X	Soil	X	Both	X
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**		
• **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)	X
Tables of Latest Soil Analytical Results (no shading or cross-hatching)	X
Isoconcentration map(s), *if required for site investigation (SI)* (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. **If not available, include the latest extent of contaminant plume map.**	X
GW: Table of water level elevations, with sampling dates, and free product noted if present	X
GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)	X
SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour	X
Geologic cross-sections, *if required for SI.* (8.5x14' if paper copy)	X
RP certified statement that legal descriptions are complete and accurate.	X
Copies of off-source notification letters (if applicable)	NA
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)	NA
Copy of (soil or land use) deed restriction (s) or deed notice if any required as a condition of closure	NA

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
Cory L. Nettles, Secretary

April 6, 2004

Jon Rufenacht
Rufenacht Oil Company, Inc.
212 26th Avenue
Monroe, WI 53566

RE: **Final Closure**

Commerce # 53566-1339-20 WDNR BRRTS # 02-23-000927
Jon Rufenacht Oil Company, 120 10 1/2 Street, Monroe

Dear Mr. Rufenacht:

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) 261-6543.

Sincerely,

Ralph N. Smith
Hydrogeologist
Site Review Section

cc: Jason Powell -- METCO
Case File

File Ref: G:\Electronic Mailbox\535\53566\133920\040604 Close-Final.doc

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
P.O. Box 8044
Madison, Wisconsin 53708-8044
TDD #: (608) 264-8777
Fax #: (608) 267-1381
http://www.commerce.wi.gov
http://www.wisconsin.gov
Jim Doyle, Governor
Cory L. Nettles, Secretary

Wisconsin
Department of Commerce

March 15, 2004

Jon Rufenacht
Rufenacht Oil Company, Inc
212 26th Avenue
Monroe, WI 53566

RE: **Conditional Case Closure**

Commerce # 53566-1339-20 WDNR BRRTS # 02-23-000927
Jon Rufenacht Oil Company, 120 10 1/2 Street, Monroe

Dear Mr. Rufenacht:

The Wisconsin Department of Commerce (Commerce) has reviewed the request for case closure prepared by your consultant, METCO, for the site referenced above. It is understood that residual soil and groundwater contamination remains on-site. Commerce has determined that this site does not pose a significant threat to the environment and human health. No further investigation or remedial action is necessary.

The following conditions must be satisfied to obtain final closure:

- Proper documentation of the investigative wastes disposal is necessary.
- Proper abandonment and documentation of the abandonment of the monitoring wells, recovery well, and piezometers are required.

This letter serves as your written notice of "no further action". Timely filing of your final PECFA claim (if applicable) is encouraged. If your claim is not received within 120 days of the date of this letter, interest costs incurred after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (608) 261-6543.

Sincerely,

Ralph N. Smith

Ralph N. Smith
Hydrogeologist
Site Review Section

cc: Jason Powell -- METCO
Harry Bowen -- Bowen Oil, P.O. Box 26, Orangeville, IL 61060
Case File

DOCUMENT NO. 355584

STATE BAR OF WISCONSIN FORM 3 — 1982

QUIT CLAIM DEED

THIS SPACE RESERVED FOR RECORDING DATA

VOL. 509 PAGE 464

REGISTER OF DEEDS OFFICE GREEN COUNTY WISCONSIN } ss

RECORDED Dec 21 1994

9:15 A M. VOL. 509 PAGE 464

MARJIN NEUENSCHWANDER REGISTER

pd $10.00

RETURN TO

Attorney Carl W. Ross

Harold A. Rufenacht

quit-claims to Rufenacht Oil Company, Inc., a Wisconsin Corporation

the following described real estate in Green County, State of Wisconsin:

Tax Parcel No:

Commencing at the Northwest corner of Block 10 Scotts Addition to the City of Monroe, thence South 89°55' West along the South line of Clay Street a distance of 575 feet to point of beginning, thence South parallel with West line of 2nd Avenue a distance of 228 feet, thence South 89°55' West 327.36 feet to a point, thence North 95.24 feet to a point on meander line 12 feet South of creek, thence North 38°16' East along meander line 169.29 feet, thence North 89°55' East 222.52 feet to point of beginning, said meander line being 12 feet from center of creek and intending to convey to center of creek.

CODE
W7
EXCLUSION

FEE
$ 77.25 (15)
EXEMPT

This is not homestead property.
(is not)

Dated this 19 day of December, 19.94

Harold A. Rufenacht (SEAL)

Harold A. Rufenacht

(SEAL)

(SEAL)

(SEAL)

AUTHENTICATION

Signature of Harold A. Rufenacht

authenticated this 19 day of December, 19

Carl W. Ross

TITLE: MEMBER STATE BAR OF WISCONSIN

(If not, authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY

Attorney Carl W. Ross

Monroe, WI 53566 (tlg)

(Signatures may be authenticated or acknowledged. Both are not necessary.)

ACKNOWLEDGMENT

STATE OF WISCONSIN } ss.
County.

Personally came before me this day of, 19 the above named

to me known to be the person who executed the foregoing instrument and acknowledge the same.

Notary Public County, Wis.
My Commission is permanent. (If not, state expiration date: , 19)

Wisconsin Legal Blank Co. Inc. Milwaukee, Wis.

A B S T R A C T O F T I T L E

T O

The following described real estate situated in the City of Monroe, County of Green and State of Wisconsin, towit:

Lot Two (2) of Certified Survey Map Number 1826, recorded in Volume Six of Certified Survey Maps of Green County, on page 68, being part of the Northwest Quarter (NW¼) of the Southwest Quarter (SW¼) of Section Thirty-Four (34), Town Two (2) North, Range Seven (7) East, City of Monroe, Green County, Wisconsin.

358220

358220

CERTIFIED SURVEY MAP NO. 1826

That part of the NW 1/4 of the SW 1/4 of Sec. 34, T2N, R7E, City of Monroe, Green, Co., Wis., bounded and described as follows:

Commencing at the W 1/4 cor of said Sec. 34; thence S0°23'51"E along the W line of Sec. 34, 820.46'; thence N89°55'00"E, 1019.73' to the point of beginning; thence South, 307.61'; thence N77°45'00"W, 334.99'; thence North, 103.30' to a meander corner located 27' from Honey Creek; thence N38°16'00"E along a meander line, 169.29' to a meander corner located 26' from Honey Creek; thence N89°55'00"E, 222.52' to the point of beginning; plus any and all lands lying between the aforesaid meander line and Honey Creek; subject to any and all easements of record.

I hereby certify that this Survey is in compliance with Chap. 236.34 of the Wis. Statutes, and that I have surveyed, monumented and mapped the lands described hereon, and that this map is a correct representation thereof in accordance with the information provided.

May 2, 1995
Rev 5/3/95

Richard D. Talarczyk
Richard D. Talarczyk

CITY APPROVAL:

Approved for recording by the City of Monroe this 24th day of May, 1995.

by: James R. Myers

REGISTER OF DEEDS CERTIFICATE:

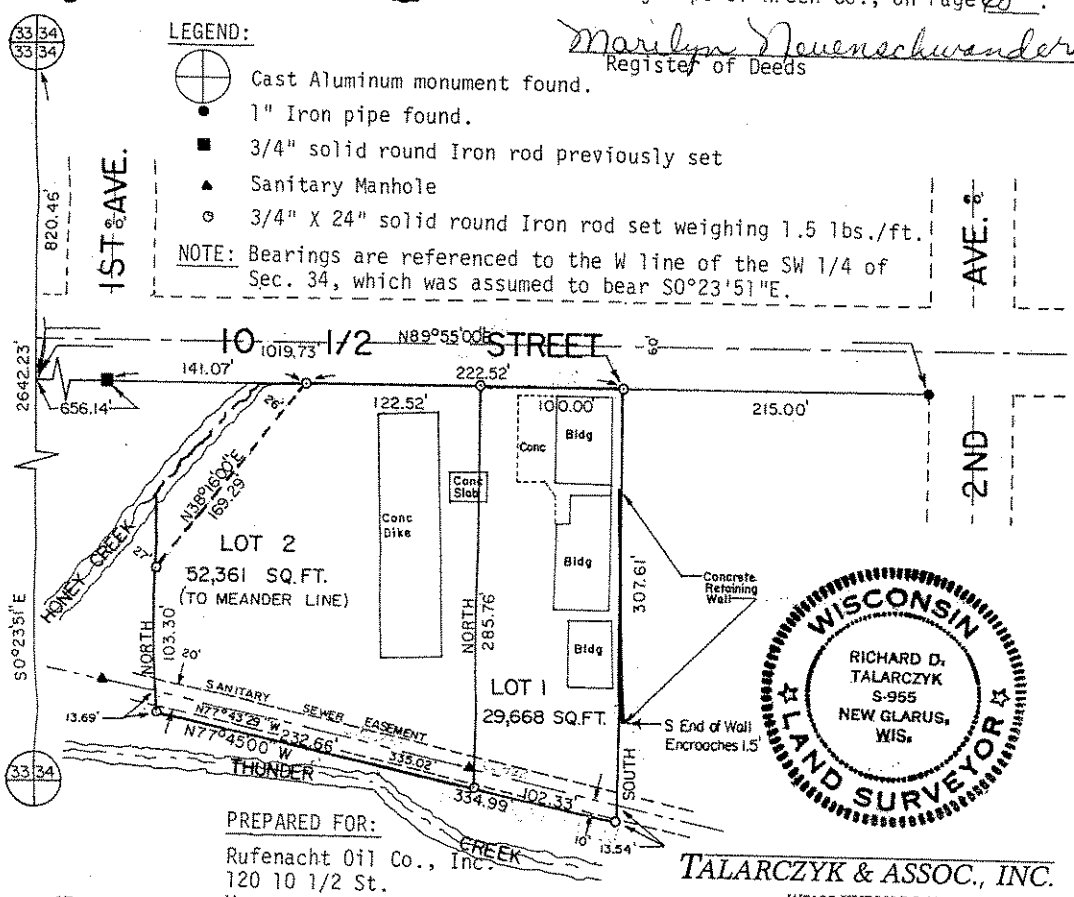
Received for recording this 24th day of May, 1995 at 2:15 o'clock P.M., and recorded in Vol. 6 of Certified Survey Maps of Green Co., on Page 68.

Marilyn Neuenschwander
Register of Deeds

LEGEND:

- Cast Aluminum monument found.
- 1" Iron pipe found.
- 3/4" solid round Iron rod previously set
- Sanitary Manhole
- 3/4" X 24" solid round Iron rod set weighing 1.5 lbs./ft.

NOTE: Bearings are referenced to the W line of the SW 1/4 of Sec. 34, which was assumed to bear S0°23'51"E.



Page 68

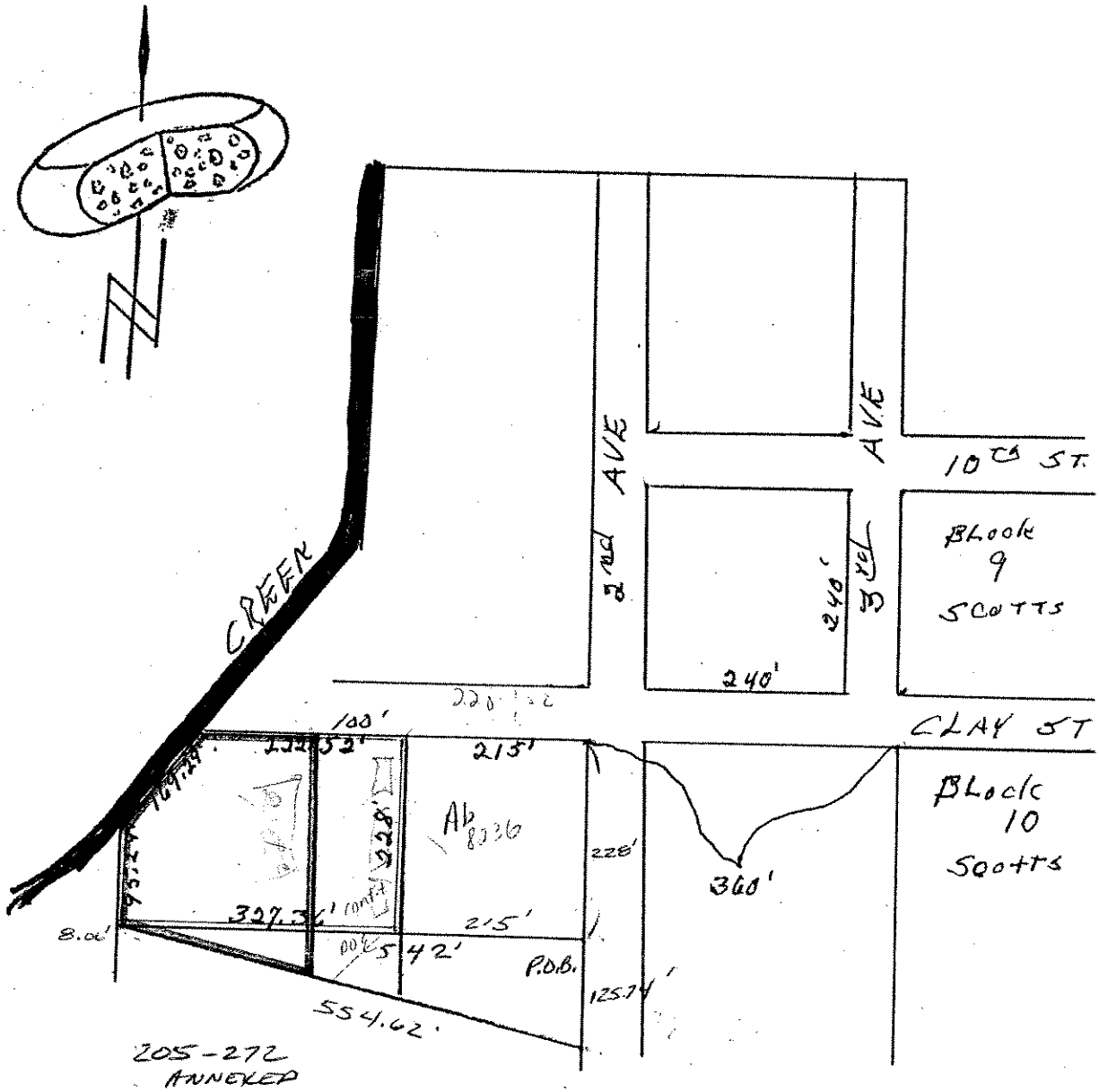
PREPARED FOR:
Rufenacht Oil Co., Inc.
120 10 1/2 St.
Monroe, WI. 53566
(608) 325-4158

SCALE: 1" = 100'

TALARCZYK & ASSOC., INC.
W5105 KUBLY ROAD
P.O. BOX 235
NEW GLARUS, WI 53574
PHONE 608/527-5216
FAX 608/527-5357

BOOK 47 PAGE 10
JOB NO. 95068
CHECKED RDT
DRAWN BY MST

358220


CREEK
2nd AVE
AVE
10th ST.
Block 9 SCOTTS
240'
240'
3rd
CLAY ST
100'
52'
215'
Ab 8036
228'
360'
Block 10 Scotts
327.36'
215'
8.00'
42'
P.O.B.
125.74'
554.62'
205-272 ANNEXED

Rufenacht Oil Company

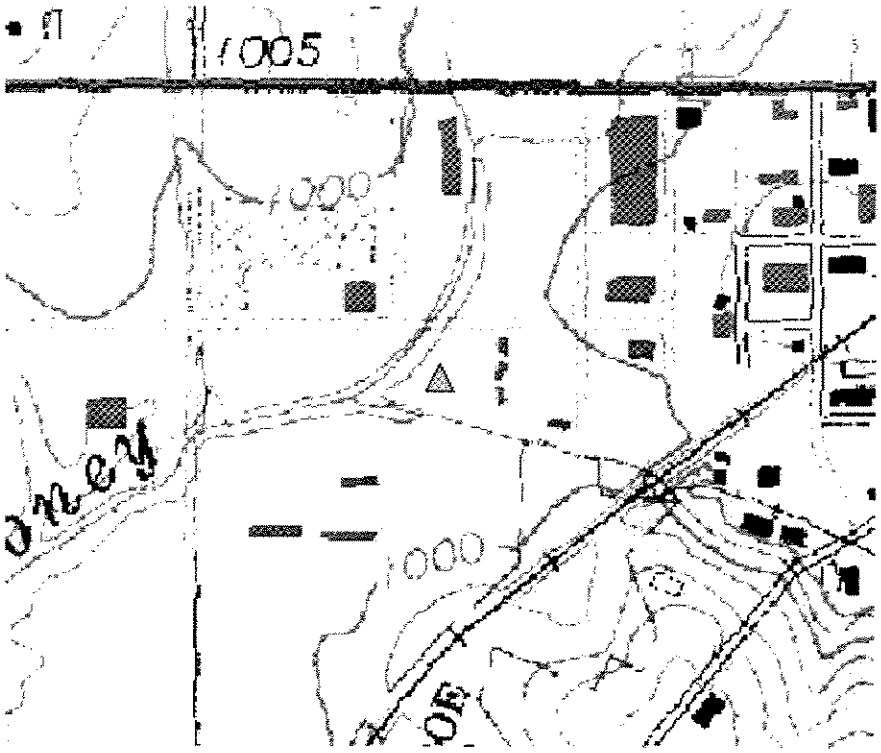
WDNR BRRTS# 02-23-000927

Green County Parcel ID No. :

23-251-3536.0

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

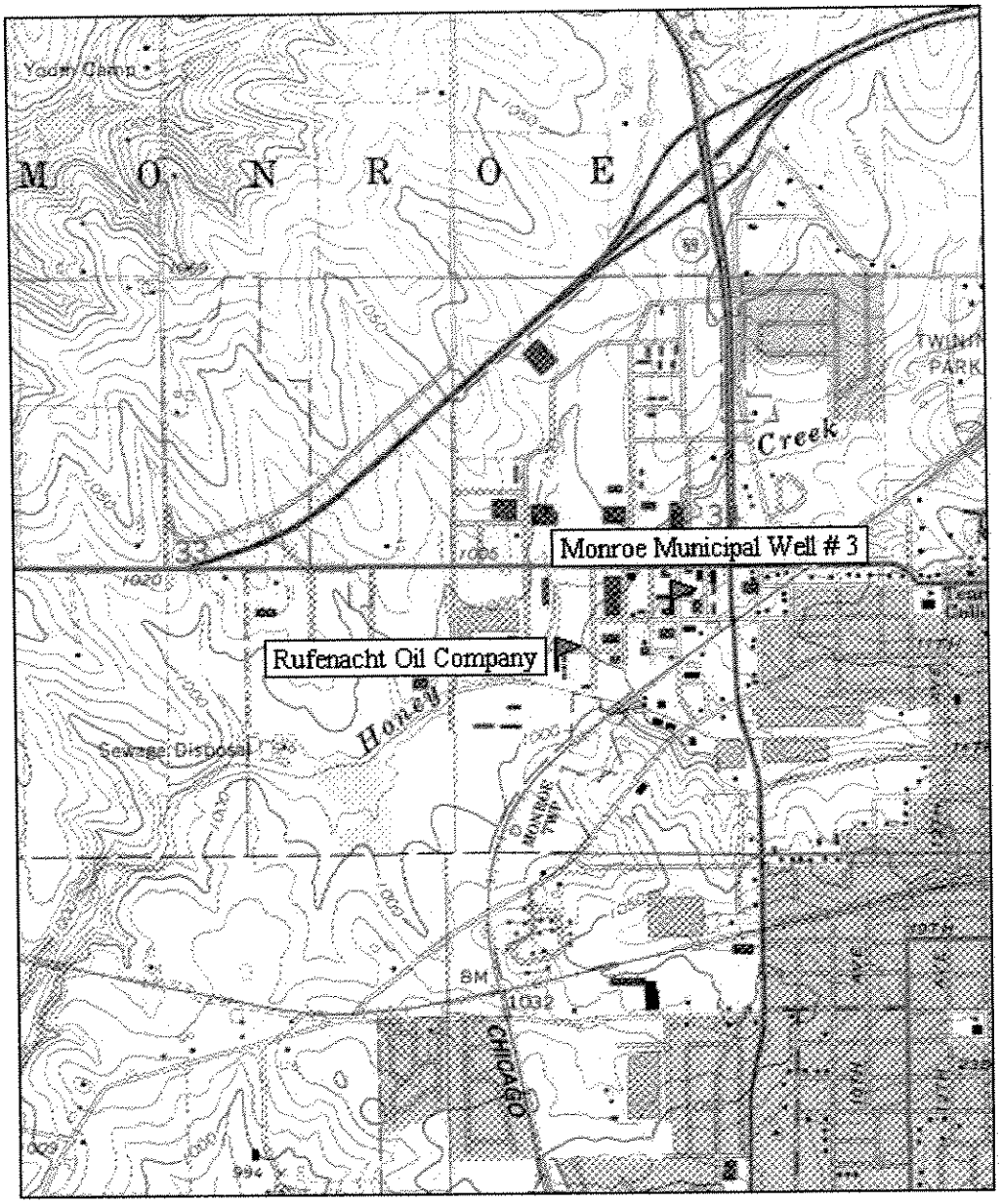
Scale 1 : 5,759



Please read the documentation for more information.

▲WTM coordinates: 548025, 236545

TOPO! map printed on 12/03/03 from "Wisconsin.tpo" and "Untitled.tpg"



TN MN 1½°

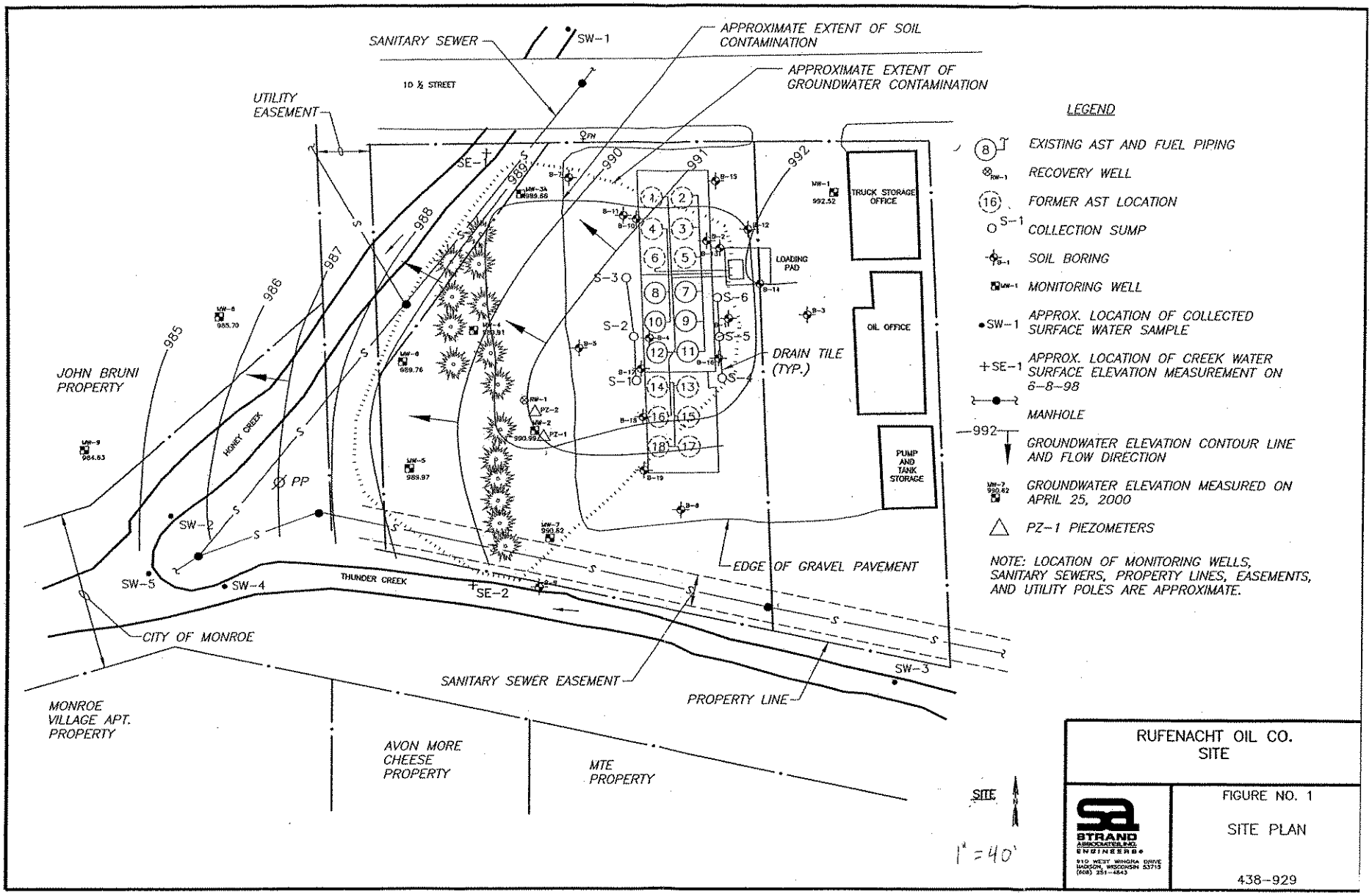
0 .5 1 MILE

0 1000 FEET 0 500 1000 METERS

Printed from TOPO! ©2001 National Geographic Holdings (www.topo.com)

SITE LOCATION MAP
RUFENACHT OIL COMPANY – MONROE, WI
MONROE QUADRANGLE – 7.5 MINUTE SERIES

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


SANITARY SEWER
SW-1
APPROXIMATE EXTENT OF SOIL CONTAMINATION
APPROXIMATE EXTENT OF GROUNDWATER CONTAMINATION
10 ½ STREET
UTILITY EASEMENT
SE-1
989.5
990
991
992
988
987
986
985
JOHN BRUNI PROPERTY
HONEY CREEK
PP
SW-2
SW-5
SW-4
THUNDER CREEK
SE-2
CITY OF MONROE
MONROE VILLAGE APT. PROPERTY
AVON MORE CHEESE PROPERTY
MTE PROPERTY
SANITARY SEWER EASEMENT
PROPERTY LINE
EDGE OF GRAVEL PAVEMENT
SW-3
TRUCK STORAGE OFFICE
OIL OFFICE
PUMP AND TANK STORAGE
LOADING PAD
DRAIN TILE (TYP.)
S-1
S-2
S-3
S-4
S-5
S-6
S-10
LEGEND
EXISTING AST AND FUEL PIPING
RECOVERY WELL
FORMER AST LOCATION
COLLECTION SUMP
SOIL BORING
MONITORING WELL
APPROX. LOCATION OF COLLECTED SURFACE WATER SAMPLE
APPROX. LOCATION OF CREEK WATER SURFACE ELEVATION MEASUREMENT ON 6-8-98
MANHOLE
GROUNDWATER ELEVATION CONTOUR LINE AND FLOW DIRECTION
GROUNDWATER ELEVATION MEASURED ON APRIL 25, 2000
PZ-1 PIEZOMETERS
NOTE: LOCATION OF MONITORING WELLS, SANITARY SEWERS, PROPERTY LINES, EASEMENTS, AND UTILITY POLES ARE APPROXIMATE.
SITE
1" = 40'
RUFENACHT OIL CO. SITE
STRAND ASSOCIATES, INC. ENGINEERS
910 WEST WINGRA DRIVE MADISON, WISCONSIN 53715 (608) 251-4843
FIGURE NO. 1
SITE PLAN
438-929

Rufenacht Oil

Groundwater Monitoring Analytical Results

Project No.: 438-929
Date: 15-Apr-03

MW-1

Date		6/8/1994	8/13/1996	5/13/1997	6/24/1997	8/7/1997	7/23/1998	4/25/2000	7/31/2002	2/27/2003
	ES/PAL									
Dissolved Iron, mg/L as Fe	0.3/0.15	NA	NA	NA	ND	NA	0.066	ND	0.094	<0.042
NH3-N, mg/Las N	+++	NA	NA	NA	0.089	NA	ND	NA	NA	NA
NO2/NO3, mg/L as N	+++	NA	NA	NA	1.2	NA	0.32	0.753	1.2	0.33
TKN, mg/L as N	+++	NA	NA	NA	0.21	NA	NA	NA	NA	NA
Sulfate, mg/L as SO4	250/125	NA	NA	NA	18	NA	NA	NA	18	27
Field DO, mg/L	+++	NA	NA	NA	2.3	3.8	3.15	0.7	0.5	9.5
Field RedOx Potential, mV	+++	NA	NA	130.1	95	112.1	-12.9	15	71.2	106.7
Field pH	+++	NA	NA	NA	NA	NA	NA	7.69	7.4	7.2
Detected VOCs/PVOCs, ug/L **	ES/PAL									
MTBE	60/12	ND	ND	NA	ND	NA	ND	ND	<0.43	<0.23
Benzene	5/0.5	ND	ND	NA	ND	NA	ND	ND	<0.45	<0.25
Toluene	1000/200	ND	ND	NA	ND	NA	ND	ND	<0.68	<0.11
Ethylbenzene	700/140	ND	ND	NA	ND	NA	ND	ND	<0.82	<0.22
Total xylenes	10000/1000	ND	ND	NA	ND	NA	ND	ND	<2.47	<0.39
Trimethylbenzenes	480/96	ND	ND	NA	ND	NA	ND	ND	<1.86	<0.25
n-Butylbenzene	+++	ND	ND	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5/0.5	ND	ND	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	+++	ND	ND	NA	NA	NA	NA	NA	NA	NA
Napthalene	40/8	ND	0.52	NA	NA	NA	NA	NA	<0.89	<0.50
n-Propylbenzene	+++	ND	ND	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	+++	ND	ND	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	+++	ND	ND	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	+++	ND	ND	NA	NA	NA	NA	NA	NA	NA
Total PVOCs	+++	ND	ND	NA	ND	NA	ND	ND	ND	ND
Total VOCs	+++	0.00	0.52	NA	0.00	NA	0.00	0.00	0.00	0.00
PAHs, ug/L	ES/PAL									
Acenaphthene	+++	ND	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	+++	ND	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	3000/600	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	+++	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	0.2/0.02	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	0.2/0.02	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	+++	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	+++	ND	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	0.2/0.02	ND	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	+++	ND	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	400/80	ND	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	400/80	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Ideno (1,2,3-cd) pyrene	+++	ND	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-1-naphthalene	+++	0.50	NA	NA	NA	NA	NA	NA	NA	NA
Methyl-2-naphthalene	+++	0.63	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	40/8	0.70	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	+++	ND	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	250/50	ND	NA	NA	NA	NA	NA	NA	NA	NA
Total PAHs	+++	1.96	0	0	0	0	0	0	0	0

Notes:

NA = not analyzed
ND = not detected
bold = exceeds current NR 140 PAL
= exceeds current NR 140 ES
Italics = results are greater than the LOD but lest than the LOQ
ES/PAL = current NR140 Enforcement Standard/Preventive Action Limit
+++ = no NR140 ES or PAL adopted

Rufenacht Oil

Groundwater Monitoring Analytical Results

Project No. 438-929
Date: 15-Apr-03

MW-2

Date	ES/PAL	6/8/1994	8/13/1996	5/13/1997	6/24/1997	8/7/1997	7/23/1998	4/25/2000	8/1/2002	2/28/2003
Dissolved Iron, mg/L as Fe	0.3/0.15	NA	NA	NA	0.016	NA	15	14.7	13	14
NH3-N, mg/Las N	+++	NA	NA	NA	0.35	NA	0.27	NA	NA	NA
NO2/NO3, mg/L as N	+++	NA	NA	NA	0.047	NA	ND	ND	<0.023	<0.024
TKN, mg/L as N	+++	NA	NA	NA	0.37	NA	NA	NA	NA	NA
Sulfate, mg/L as SO4	250/125	NA	NA	NA	12	NA	NA	NA	3.8	12
Field DO, mg/L	+++	NA	NA	NA	2.1	3.9	0.75	0.65	0.55	0.5
Field RedOx Potential, mV	+++	NA	NA	-49.5	96.1	-31.5	-89.3	-91.5	-93.7	-60.5
Field pH	+++	NA	NA	NA	NA	NA	NA	7.57	6.6	7
Detected VOCs/PVOCs, ug/L **	**ES/PAL**									
MTBE	60/12	ND	**21**	NA	ND	NA	ND	**21**	<4.3	<6.0
Benzene	5/0.5	8800	3600	NA	3700	NA	3400	2800	1600	1900
Toluene	1000/200	1200	160	NA	120	NA	*66*	39	20	28
Ethylbenzene	700/140	2000	980	NA	1100	NA	1600	1400	790	980
Total xylenes	10000/1000	**9300**	**2890**	NA	**3800**	NA	**4520**	**4710**	**2030**	**2300**
Trimethylbenzenes	480/96	1530	800	NA	950	NA	1370	1350	760	970
n-Butylbenzene	+++	120	100	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5/0.5	ND	ND	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	+++	49	35	NA	NA	NA	NA	NA	NA	NA
Napthalene	40/8	300	190	NA	NA	NA	NA	NA	210	230
n-Propylbenzene	+++	130	87	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	+++	ND	24	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	+++	ND	19	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	+++	ND	5.9	NA	NA	NA	NA	NA	NA	NA
Total PVOCs	+++	22830	8451	NA	9670	NA	10956	10320	5200	6178
Total VOCs	+++	23429	8912	NA	9670	NA	10956	10320	5410	6408
PAHs, ug/L	**ES/PAL**									
Acenaphthene	+++	ND	NA	ND	ND	NA	NA	NA	NA	NA
Acenaphthylene	+++	ND	NA	ND	ND	NA	NA	NA	NA	NA
Anthracene	3000/600	ND	NA	ND	ND	NA	NA	NA	NA	NA
Benzo (a) anthracene	+++	ND	NA	ND	ND	NA	NA	NA	NA	NA
Benzo (a) pyrene	0.2/0.02	ND	NA	ND	ND	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	0.2/0.02	ND	NA	ND	ND	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	+++	ND	NA	ND	ND	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	+++	ND	NA	ND	ND	NA	NA	NA	NA	NA
Chrysene	0.2/0.02	ND	NA	ND	**0.054**	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	+++	ND	NA	ND	ND	NA	NA	NA	NA	NA
Fluoranthene	400/80	ND	NA	ND	ND	NA	NA	NA	NA	NA
Fluorene	400/80	7.7	NA	ND	ND	NA	NA	NA	NA	NA
Ideno (1,2,3-cd) pyrene	+++	ND	NA	ND	ND	NA	NA	NA	NA	NA
Methyl-1-naphthalene	+++	130	NA	120	95	NA	NA	NA	NA	NA
Methyl-2-naphthalene	+++	170	NA	130	91	NA	NA	NA	NA	NA
Naphthalene	40/8	410	NA	240	150	NA	NA	NA	NA	NA
Phenanthrene	+++	1.4	NA	0.80	0.86	NA	NA	NA	NA	NA
Pyrene	250/50	0.19	NA	0.13	0.099	NA	NA	NA	NA	NA
Total PAHs	+++	719	0	491	337	0	0	0	0	0

Notes:

NA = not analyzed
ND = not detected
bold = exceeds current NR 140 PAL
= exceeds current NR 140 ES
italics = results are greater than the LOD but lest than the LOQ
ES/PAL = current NR140 Enforcement Standard/Preventive Action Limit
+++ = no NR140 ES or PAL adopted

Rufenacht Oil
Groundwater Monitoring Analytical Results

Project No.: 438-929
Date: 15-Apr-03

MW-3/MW-3A

Date		6/8/1994	8/13/1996	5/13/1997	6/24/1997	8/7/1997	7/23/1998	4/25/2000	7/31/2002	2/28/2003
	ES/PAL									
Dissolved Iron, mg/L as Fe	0.3/0.15	NA	----	----	NA	NA	1.8	4.4	5.9	8.3
NH3-N, mg/Las N	+++	NA	----	----	NA	NA	0.082	NA	NA	NA
NO2/NO3, mg/L as N	+++	NA	----	----	NA	NA	ND	ND	3	<0.024
TKN, mg/L as N	+++	NA	----	----	NA	NA	NA	NA	NA	NA
Sulfate, mg/L as SO4	250/125	NA	----	----	NA	NA	NA	NA	12	46
Field DO, mg/L	+++	NA	----	----	2.1	2.2	0.7	0.4	0.5	0.35
Field RedOx Potential, mV	+++	NA	----	----	94	81.3	-67.6	-74.1	-100.7	-78.4
Field pH	+++	NA	----	----	NA	NA	NA	7.6	6.8	6.8
Detected VOCs/PVOCs, ug/L **	ES/PAL									
MTBE	60/12	**15**	----	----	ND	NA	ND	ND	3.4	<5.8
Benzene	5/0.5	ND	----	----	290	NA	160	330	66	180
Toluene	1000/200	ND	----	----	10	NA	ND	ND	1.1	2.5
Ethylbenzene	700/140	ND	----	----	33	NA	24	**140**	10	36
Total xylenes	10000/1000	ND	----	----	120	NA	33	200	9	6
Trimethylbenzenes	480/96	ND	----	----	**183**	NA	34	**110**	<1.86	<0.25
n-Butylbenzene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5/0.5	0.68	----	----	NA	NA	NA	NA	NA	NA
Isopropylbenzene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
Napthalene	40/8	ND	----	----	NA	NA	NA	NA	**8**	**14**
n-Propylbenzene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
Isopropyl ether	+++	3.8	----	----	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
Total PVOCs	+++	15	----	----	636	NA	251	780	89.8	224.8
Total VOCs	+++	19.48	----	----	636	NA	251	780	97.8	238.8
PAHs, ug/L	ES/PAL									
Acenaphthene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
Acenaphthylene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
Anthracene	3000/600	ND	----	----	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	0.2/0.02	ND	----	----	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	0.2/0.02	ND	----	----	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
Chrysene	0.2/0.02	ND	----	----	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
Fluoranthene	400/80	ND	----	----	NA	NA	NA	NA	NA	NA
Fluorene	400/80	ND	----	----	NA	NA	NA	NA	NA	NA
Ideno (1,2,3-cd) pyrene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
Methyl-1-naphthalene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
Methyl-2-naphthalene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
Naphthalene	40/8	0.13	----	----	NA	NA	NA	NA	NA	NA
Phenanthrene	+++	ND	----	----	NA	NA	NA	NA	NA	NA
Pyrene	250/50	ND	----	----	NA	NA	NA	NA	NA	NA
Total PAHs	+++	0.13	----	----	NA	NA	NA	0	0	0

Notes:

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Rufenacht Oil

Groundwater Monitoring Analytical Results

Project No.: 438-929
Date: 15-Apr-03

MW-4

Date		6/8/1994	8/13/1996	5/13/1997	6/24/1997	8/7/1997	7/23/1998	4/25/2000	7/31/2002	2/28/2003
	ES/PAL									
Dissolved Iron, mg/L as Fe	0.3/0.15	NA	NA	NA	0.016	0.98	11	10.1	14	21
NH3-N, mg/Las N	+++	NA	NA	NA	0.64	0.50	0.54	NA	NA	NA
NO2/NO3, mg/L as N	+++	NA	NA	NA	0.24	ND	ND	ND	<0.061	<0.024
TKN, mg/L as N	+++	NA	NA	NA	0.81	0.96	NA	NA	NA	NA
Sulfate, mg/L as SO4	250/125	NA	NA	NA	13	26	NA	NA	4.1	11
Field DO, mg/L	+++	NA	NA	NA	2.1	3.4	0.6	0.7	0.35	0.6
Field RedOx Potential, mV	+++	NA	NA	-109.6	83.5	174.3	-94.7	-98.5	-109.2	-71.5
Field pH	+++	NA	NA	NA	NA	NA	NA	7.74	7.1	7.2
Detected VOCs/PVOCs, ug/L **	**ES/PAL**									
MTBE	60/12	**20**	11	NA	ND	ND	ND	9.5	<2.1	<4.0
Benzene	5/0.5	2900	950	NA	1500	1400	1200	590	200	330
Toluene	1000/200	100	25	NA	58	22	*16*	ND	<3.4	6.4
Ethylbenzene	700/140	760	**260**	NA	800	770	**450**	800	**280**	**320**
Total xylenes	10000/1000	**2030**	423	NA	**2100**	**1554**	742	**1600**	430	520
Trimethylbenzenes	480/96	740	**294**	NA	930	910	**472**	1020	579	608
n-Butylbenzene	+++	73	19	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5/0.5	ND	ND	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	+++	30	25	NA	NA	NA	NA	NA	NA	NA
Napthalene	40/8	140	85	NA	NA	NA	NA	NA	170	140
n-Propylbenzene	+++	87	63	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	+++	ND	6.0	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	+++	ND	12	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	+++	ND	ND	NA	NA	NA	NA	NA	NA	NA
Total PVOCs	+++	6570	1963	NA	5388	4656	2880	4019.5	1489	1784.4
Total VOCs	+++	6900	2173	NA	5388	4656	2880	4019.5	1659	1924.4
PAHs, ug/L	**ES/PAL**									
Acenaphthene	+++	31	NA	10	5.2	19	NA	NA	NA	NA
Acenaphthylene	+++	ND	NA	ND	ND	ND	NA	NA	NA	NA
Anthracene	3000/600	8.4	NA	1.1	0.28	2.7	NA	NA	NA	NA
Benzo (a) anthracene	+++	0.32	NA	0.082	ND	ND	NA	NA	NA	NA
Benzo (a) pyrene	0.2/0.02	ND	NA	ND	ND	ND	NA	NA	NA	NA
Benzo (b) fluoranthene	0.2/0.02	ND	NA	ND	ND	ND	NA	NA	NA	NA
Benzo (g,h,i) perylene	+++	ND	NA	ND	ND	ND	NA	NA	NA	NA
Benzo (k) fluoranthene	+++	ND	NA	ND	ND	ND	NA	NA	NA	NA
Chrysene	0.2/0.02	**0.17**	NA	ND	ND	ND	NA	NA	NA	NA
Dibenzo (a,h) anthracene	+++	ND	NA	ND	ND	ND	NA	NA	NA	NA
Fluoranthene	400/80	ND	NA	1.0	ND	4.6	NA	NA	NA	NA
Fluorene	400/80	25	NA	6.9	ND	11	NA	NA	NA	NA
Ideno (1,2,3-cd) pyrene	+++	ND	NA	ND	ND	ND	NA	NA	NA	NA
Methyl-1-naphthalene	+++	71	NA	61	59	88	NA	NA	NA	NA
Methyl-2-naphthalene	+++	75	NA	50	40	70	NA	NA	NA	NA
Naphthalene	40/8	90	NA	180	98	220	NA	NA	NA	NA
Phenanthrene	+++	51	NA	ND	0.93	24	NA	NA	NA	NA
Pyrene	250/50	2.8	NA	0.60	0.18	ND	NA	NA	NA	NA
Total PAHs	+++	354.69	0	310.682	203.59	439.3	0	0	0	0

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Rufenacht Oil

Groundwater Monitoring Analytical Results

Project No. 438-929
Date 15-Apr-03

MW-5

Date		6/8/1994	8/13/1996	5/13/1997	6/24/1997	8/7/1997	7/23/1998	4/25/2000	8/1/2002	2/28/2003
	ES/PAL									
Dissolved Iron, mg/L as Fe	0.3/0.15	----	----	----	0.016	NA	5.1	3.35	4	6.1
NH3-N, mg/Las N	+++	----	----	----	0.58	NA	0.14	NA	NA	NA
NO2/NO3, mg/L as N	+++	----	----	----	0.11	NA	ND	ND	<0.023	<0.024
TKN, mg/L as N	+++	----	----	----	ND	NA	NA	NA	NA	NA
Sulfate, mg/L as SO4	250/125	----	----	----	24	NA	NA	NA	7.8	21
Field DO, mg/L	+++	----	----	----	1.7	1.6	0.85	0.65	0.5	0.65
Field RedOx Potential, mV	+++	----	----	----	100.9	110.8	-127.5	-30.6	-29	-27.7
Field pH	+++	----	----	----	NA	NA	NA	8.01	6.5	6.9
Detected VOCs/PVOCs, ug/L **	ES/PAL									
MTBE	60/12	----	----	----	ND	NA	ND	1.6	1.5	<1.2
Benzene	5/0.5	----	----	----	450	NA	150	56	**1.6**	56
Toluene	1000/200	----	----	----	13	NA	*4.3*	0.98	<0.68	2.4
Ethylbenzene	700/140	----	----	----	**210**	NA	27	13	<0.82	26
Total xylenes	10000/1000	----	----	----	**450**	NA	42	2.5	<2.47	23
Trimethylbenzenes	480/96	----	----	----	261	NA	16	6.4	<1.86	15.9
n-Butylbenzene	+++	----	----	----	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5/0.5	----	----	----	NA	NA	NA	NA	NA	NA
Isopropylbenzene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Napthalene	40/8	----	----	----	NA	NA	NA	NA	<0.89	3
n-Propylbenzene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Isopropyl ether	+++	----	----	----	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	+++	----	----	----	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Total PVOCs	+++	----	----	----	1384	NA	239.3	80.48	3.1	123.3
Total VOCs	+++	0	0	0	1384	NA	239.3	80.48	3.1	126.3
PAHs, ug/L	ES/PAL									
Acenaphthene	+++	----	----	----	ND	NA	NA	NA	NA	NA
Acenaphthylene	+++	----	----	----	ND	NA	NA	NA	NA	NA
Anthracene	3000/600	----	----	----	ND	NA	NA	NA	NA	NA
Benzo (a) anthracene	+++	----	----	----	ND	NA	NA	NA	NA	NA
Benzo (a) pyrene	0.2/0.02	----	----	----	ND	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	0.2/0.02	----	----	----	ND	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	+++	----	----	----	ND	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	+++	----	----	----	ND	NA	NA	NA	NA	NA
Chrysene	0.2/0.02	----	----	----	ND	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	+++	----	----	----	ND	NA	NA	NA	NA	NA
Fluoranthene	400/80	----	----	----	ND	NA	NA	NA	NA	NA
Fluorene	400/80	----	----	----	ND	NA	NA	NA	NA	NA
Ideno (1,2,3-cd) pyrene	+++	----	----	----	ND	NA	NA	NA	NA	NA
Methyl-1-naphthalene	+++	----	----	----	25	NA	NA	NA	NA	NA
Methyl-2-naphthalene	+++	----	----	----	16	NA	NA	NA	NA	NA
Naphthalene	40/8	----	----	----	**31**	NA	NA	NA	NA	NA
Phenanthrene	+++	----	----	----	0.47	NA	NA	NA	NA	NA
Pyrene	250/50	----	----	----	ND	NA	NA	NA	NA	NA
Total PAHs	+++	----	----	----	72.47	0	0	0	0	0

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Rufenacht Oil

Groundwater Monitoring Analytical Results

Project No. 438-929
Date: 15-Apr-03

MW-7

Date	ES/PAL	6/8/1994	8/13/1996	5/13/1997	6/24/1997	8/7/1997	7/23/1998	4/25/2000	7/31/2002	2/28/2003
Dissolved Iron, mg/L as Fe	0.3/0.15	----	----	----	----	----	----	1.89	6.7	4.7
NH3-N, mg/Las N	+++	----	----	----	----	----	----	NA	NA	NA
NO2/NO3, mg/L as N	+++	----	----	----	----	----	----	ND	<0.023	<0.024
TKN, mg/L as N	+++	----	----	----	----	----	----	NA	NA	NA
Sulfate, mg/L as SO4	250/125	----	----	----	----	----	----	NA	19	44
Field DO, mg/L	+++	----	----	----	----	----	----	0.55	0.5	0.65
Field RedOx Potential, mV	+++	----	----	----	----	----	----	70.1	-36.1	30.9
Field pH	+++	----	----	----	----	----	----	7.63	6.9	8.2
Detected VOCs/PVOCs, ug/L **	**ES/PAL**									
MTBE	60/12	----	----	----	----	----	----	1.3	1.8	0.51
Benzene	5/0.5	----	----	----	----	----	----	**1.3**	<0.45	<0.25
Toluene	1000/200	----	----	----	----	----	----	ND	<0.68	<0.11
Ethylbenzene	700/140	----	----	----	----	----	----	ND	<0.82	<0.22
Total xylenes	10000/1000	----	----	----	----	----	----	ND	<2.47	<0.39
Trimethylbenzenes	480/96	----	----	----	----	----	----	ND	<1.86	<0.25
n-Butylbenzene	+++	----	----	----	----	----	----	NA	NA	NA
1,2-Dichloroethane	5/0.5	----	----	----	----	----	----	NA	NA	NA
Isopropylbenzene	+++	----	----	----	----	----	----	NA	NA	NA
Napthalene	40/8	----	----	----	----	----	----	NA	<0.89	<0.50
n-Propylbenzene	+++	----	----	----	----	----	----	NA	NA	NA
Isopropyl ether	+++	----	----	----	----	----	----	NA	NA	NA
sec-Butylbenzene	+++	----	----	----	----	----	----	NA	NA	NA
p-Isopropyltoluene	+++	----	----	----	----	----	----	NA	NA	NA
Total PVOCs	+++	0	0	0	0	0	0	2.6	1.8	0.51
Total VOCs	+++	0	0	0	0	0	0	2.6	1.8	0.51
PAHs, ug/L	**ES/PAL**									
Acenaphthene	+++	----	----	----	----	----	----	NA	NA	NA
Acenaphthylene	+++	----	----	----	----	----	----	NA	NA	NA
Anthracene	3000/600	----	----	----	----	----	----	NA	NA	NA
Benzo (a) anthracene	+++	----	----	----	----	----	----	NA	NA	NA
Benzo (a) pyrene	0.2/0.02	----	----	----	----	----	----	NA	NA	NA
Benzo (b) fluoranthene	0.2/0.02	----	----	----	----	----	----	NA	NA	NA
Benzo (g,h,i) perylene	+++	----	----	----	----	----	----	NA	NA	NA
Benzo (k) fluoranthene	+++	----	----	----	----	----	----	NA	NA	NA
Chrysene	0.2/0.02	----	----	----	----	----	----	NA	NA	NA
Dibenzo (a,h) anthracene	+++	----	----	----	----	----	----	NA	NA	NA
Fluoranthene	400/80	----	----	----	----	----	----	NA	NA	NA
Fluorene	400/80	----	----	----	----	----	----	NA	NA	NA
Ideno (1,2,3-cd) pyrene	+++	----	----	----	----	----	----	NA	NA	NA
Methyl-1-naphthalene	+++	----	----	----	----	----	----	NA	NA	NA
Methyl-2-naphthalene	+++	----	----	----	----	----	----	NA	NA	NA
Naphthalene	40/8	----	----	----	----	----	----	NA	NA	NA
Phenanthrene	+++	----	----	----	----	----	----	NA	NA	NA
Pyrene	250/50	----	----	----	----	----	----	NA	NA	NA
Total PAHs	+++	----	----	----	----	----	----	NA	NA	NA

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Rufenacht Oil

Groundwater Monitoring Analytical Results

Project No. 438-929
Date 15-Apr-03

MW-8

Date	ES/PAL	6/8/1994	8/13/1996	5/13/1997	6/24/1997	8/7/1997	7/23/1998	4/25/2000	7/31/2002	2/28/2003
Dissolved Iron, mg/L as Fe	0.3/0.15	---	---	---	---	---	---	0.981	NA	NA
NH3-N, mg/Las N	+++	---	---	---	---	---	---	NA	NA	NA
NO2/NO3, mg/L as N	+++	---	---	---	---	---	---	ND	NA	NA
TKN, mg/L as N	+++	---	---	---	---	---	---	NA	NA	NA
Sulfate, mg/L as SO4	250/125	---	---	---	---	---	---	NA	NA	NA
Field DO, mg/L	+++	---	---	---	---	---	---	4.7	NA	NA
Field RedOx Potential, mV	+++	---	---	---	---	---	---	45.5	NA	NA
Field pH	+++	---	---	---	---	---	---	7.7	NA	NA
Detected VOCs/PVOCs, ug/L **	**ES/PAL**									
MTBE	60/12	---	---	---	---	---	---	ND	NA	NA
Benzene	5/0.5	---	---	---	---	---	---	ND	NA	NA
Toluene	1000/200	---	---	---	---	---	---	ND	NA	NA
Ethylbenzene	700/140	---	---	---	---	---	---	ND	NA	NA
Total xylenes	10000/1000	---	---	---	---	---	---	ND	NA	NA
Trimethylbenzenes	480/96	---	---	---	---	---	---	ND	NA	NA
n-Butylbenzene	+++	---	---	---	---	---	---	NA	NA	NA
1,2-Dichloroethane	5/0.5	---	---	---	---	---	---	NA	NA	NA
Isopropylbenzene	+++	---	---	---	---	---	---	NA	NA	NA
Napthalene	40/8	---	---	---	---	---	---	NA	NA	NA
n-Propylbenzene	+++	---	---	---	---	---	---	NA	NA	NA
Isopropyl ether	+++	---	---	---	---	---	---	NA	NA	NA
sec-Butylbenzene	+++	---	---	---	---	---	---	NA	NA	NA
p-Isopropyltoluene	+++	---	---	---	---	---	---	NA	NA	NA
Total PVOCs	+++	---	---	---	---	---	---	ND	NA	NA
Total VOCs	+++	---	---	---	---	---	---	NA	NA	NA
PAHs, ug/L	**ES/PAL**									
Acenaphthene	+++	---	---	---	---	---	---	NA	NA	NA
Acenaphthylene	+++	---	---	---	---	---	---	NA	NA	NA
Anthracene	3000/600	---	---	---	---	---	---	NA	NA	NA
Benzo (a) anthracene	+++	---	---	---	---	---	---	NA	NA	NA
Benzo (a) pyrene	0.2/0.02	---	---	---	---	---	---	NA	NA	NA
Benzo (b) fluoranthene	0.2/0.02	---	---	---	---	---	---	NA	NA	NA
Benzo (g,h,i) perylene	+++	---	---	---	---	---	---	NA	NA	NA
Benzo (k) fluoranthene	+++	---	---	---	---	---	---	NA	NA	NA
Chrysene	0.2/0.02	---	---	---	---	---	---	NA	NA	NA
Dibenzo (a,h) anthracene	+++	---	---	---	---	---	---	NA	NA	NA
Fluoranthene	400/80	---	---	---	---	---	---	NA	NA	NA
Fluorene	400/80	---	---	---	---	---	---	NA	NA	NA
Ideno (1,2,3-cd) pyrene	+++	---	---	---	---	---	---	NA	NA	NA
Methyl-1-naphthalene	+++	---	---	---	---	---	---	NA	NA	NA
Methyl-2-naphthalene	+++	---	---	---	---	---	---	NA	NA	NA
Naphthalene	40/8	---	---	---	---	---	---	NA	NA	NA
Phenanthrene	+++	---	---	---	---	---	---	NA	NA	NA
Pyrene	250/50	---	---	---	---	---	---	NA	NA	NA
Total PAHs	+++	---	---	---	---	---	---	NA	NA	NA

Notes:

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ND = not detected
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= exceeds current NR 140 ES
Italics = results are greater than the LOD but lest than the LOQ
ES/PAL = current NR140 Enforcement Standard/Preventive Action Limit
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Rufenacht Oil
Groundwater Monitoring Analytical Results

Project No.: 438-929
Date: 15-Apr-03

MW-6

Date		6/8/1994	8/13/1996	5/13/1997	6/24/1997	8/7/1997	7/23/1998	4/25/2000	8/1/2002	2/27/2003
	ES/PAL									
Dissolved Iron, mg/L as Fe	0.3/0.15	----	----	----	NA	NA	0.94	2.27	**0.18**	<0.042
NH3-N, mg/Las N	+++	----	----	----	NA	NA	0.1	NA	NA	NA
NO2/NO3, mg/L as N	+++	----	----	----	NA	NA	*0.034*	ND	<0.023	<0.024
TKN, mg/L as N	+++	----	----	----	NA	NA	NA	NA	NA	NA
Sulfate, mg/L as SO4	250/125	----	----	----	NA	NA	NA	NA	4.3	17
Field DO, mg/L	+++	----	----	----	6.3	2.4	0.55	0.55	1.4	0.75
Field RedOx Potential, mV	+++	----	----	----	118.8	131.1	38.3	17.1	26.5	18.8
Field pH	+++	----	----	----	NA	NA	NA	7.78	7	7
Detected VOCs/PVOCs, ug/L **	ES/PAL									
MTBE	60/12	----	----	----	ND	NA	5.1	5.5	3.6	3.8
Benzene	5/0.5	----	----	----	0.18	NA	5.9	**2.2**	<0.45	<1.2
Toluene	1000/200	----	----	----	0.22	NA	*0.1*	ND	<0.68	0.6
Ethylbenzene	700/140	----	----	----	ND	NA	0.4	ND	<0.82	<1.1
Total xylenes	10000/1000	----	----	----	ND	NA	ND	ND	<2.47	<2.0
Trimethylbenzenes	480/96	----	----	----	ND	NA	ND	ND	<1.86	<1.2
n-Butylbenzene	+++	----	----	----	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5/0.5	----	----	----	NA	NA	NA	NA	NA	NA
Isopropylbenzene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Napthalene	40/8	----	----	----	NA	NA	NA	NA	<0.89	<2.5
n-Propylbenzene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Isopropyl ether	+++	----	----	----	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	+++	----	----	----	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Total PVOCs	+++	----	----	----	0.4	NA	11.5	7.7	3.6	4.4
Total VOCs	+++	0	0	0	0.4	NA	11.5	7.7	3.6	4.4
PAHs, ug/L	ES/PAL									
Acenaphthene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Acenaphthylene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Anthracene	3000/600	----	----	----	NA	NA	NA	NA	NA	NA
Benzo (a) anthracene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Benzo (a) pyrene	0.2/0.02	----	----	----	NA	NA	NA	NA	NA	NA
Benzo (b) fluoranthene	0.2/0.02	----	----	----	NA	NA	NA	NA	NA	NA
Benzo (g,h,i) perylene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Benzo (k) fluoranthene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Chrysene	0.2/0.02	----	----	----	NA	NA	NA	NA	NA	NA
Dibenzo (a,h) anthracene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Fluoranthene	400/80	----	----	----	NA	NA	NA	NA	NA	NA
Fluorene	400/80	----	----	----	NA	NA	NA	NA	NA	NA
Ideno (1,2,3-cd) pyrene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Methyl-1-naphthalene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Methyl-2-naphthalene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Naphthalene	40/8	----	----	----	NA	NA	NA	NA	NA	NA
Phenanthrene	+++	----	----	----	NA	NA	NA	NA	NA	NA
Pyrene	250/50	----	----	----	NA	NA	NA	NA	NA	NA
Total PAHs	+++	----	----	----	NA	NA	NA	NA	NA	NA

Notes:
- NA = not analyzed
- ND = not detected
- **bold** = exceeds current NR 140 PAL
- = exceeds current NR 140 ES
- *Italics* = results are greater than the LOD but lest than the LOQ
- ES/PAL = current NR140 Enforcement Standard/Preventive Action Limit
- +++ = no NR140 ES or PAL adopted

Rufenacht Oil

Groundwater Monitoring Analytical Results

Project No.: 438-929
Date: 15-Apr-03

MW-9

Date	ES/PAL	6/8/1994	8/13/1996	5/13/1997	6/24/1997	8/7/1997	7/23/1998	4/25/2000	7/31/2002	2/28/2003
Dissolved Iron, mg/L as Fe	0.3/0.15	----	----	----	----	----	----	0.362	NA	NA
NH3-N, mg/Las N	+++	----	----	----	----	----	----	NA	NA	NA
NO2/NO3, mg/L as N	+++	----	----	----	----	----	----	0.128	NA	NA
TKN, mg/L as N	+++	----	----	----	----	----	----	NA	NA	NA
Sulfate, mg/L as SO4	250/125	----	----	----	----	----	----	NA	NA	NA
Field DO, mg/L	+++	----	----	----	----	----	----	7.7	NA	NA
Field RedOx Potential, mV	+++	----	----	----	----	----	----	55.1	NA	NA
Field pH	+++	----	----	----	----	----	----	8.05	NA	NA
Detected VOCs/PVOCs, ug/L **	**ES/PAL**									
MTBE	60/12	----	----	----	----	----	----	ND	NA	NA
Benzene	5/0.5	----	----	----	----	----	----	ND	NA	NA
Toluene	1000/200	----	----	----	----	----	----	ND	NA	NA
Ethylbenzene	700/140	----	----	----	----	----	----	ND	NA	NA
Total xylenes	10000/1000	----	----	----	----	----	----	ND	NA	NA
Trimethylbenzenes	480/96	----	----	----	----	----	----	ND	NA	NA
n-Butylbenzene	+++	----	----	----	----	----	----	NA	NA	NA
1,2-Dichloroethane	5/0.5	----	----	----	----	----	----	NA	NA	NA
Isopropylbenzene	+++	----	----	----	----	----	----	NA	NA	NA
Napthalene	40/8	----	----	----	----	----	----	NA	NA	NA
n-Propylbenzene	+++	----	----	----	----	----	----	NA	NA	NA
Isopropyl ether	+++	----	----	----	----	----	----	NA	NA	NA
sec-Butylbenzene	+++	----	----	----	----	----	----	NA	NA	NA
p-Isopropyltoluene	+++	----	----	----	----	----	----	NA	NA	NA
Total PVOCs	+++	----	----	----	----	----	----	ND	NA	NA
Total VOCs	+++	----	----	----	----	----	----	NA	NA	NA
PAHs, ug/L	**ES/PAL**									
Acenaphthene	+++	----	----	----	----	----	----	NA	NA	NA
Acenaphthylene	+++	----	----	----	----	----	----	NA	NA	NA
Anthracene	3000/600	----	----	----	----	----	----	NA	NA	NA
Benzo (a) anthracene	+++	----	----	----	----	----	----	NA	NA	NA
Benzo (a) pyrene	0.2/0.02	----	----	----	----	----	----	NA	NA	NA
Benzo (b) fluoranthene	0.2/0.02	----	----	----	----	----	----	NA	NA	NA
Benzo (g,h,i) perylene	+++	----	----	----	----	----	----	NA	NA	NA
Benzo (k) fluoranthene	+++	----	----	----	----	----	----	NA	NA	NA
Chrysene	0.2/0.02	----	----	----	----	----	----	NA	NA	NA
Dibenzo (a,h) anthracene	+++	----	----	----	----	----	----	NA	NA	NA
Fluoranthene	400/80	----	----	----	----	----	----	NA	NA	NA
Fluorene	400/80	----	----	----	----	----	----	NA	NA	NA
Ideno (1,2,3-cd) pyrene	+++	----	----	----	----	----	----	NA	NA	NA
Methyl-1-naphthalene	+++	----	----	----	----	----	----	NA	NA	NA
Methyl-2-naphthalene	+++	----	----	----	----	----	----	NA	NA	NA
Naphthalene	40/8	----	----	----	----	----	----	NA	NA	NA
Phenanthrene	+++	----	----	----	----	----	----	NA	NA	NA
Pyrene	250/50	----	----	----	----	----	----	NA	NA	NA
Total PAHs	+++	----	----	----	----	----	----	NA	NA	NA

Notes:

NA = not analyzed
ND = not detected
bold = exceeds current NR 140 PAL
= exceeds current NR 140 ES
Italics = results are greater than the LOD but lest than the LOQ
ES/PAL = current NR140 Enforcement Standard/Preventive Action Limit
+++ = no NR140 ES or PAL adopted

Rufenacht Oil
Groundwater Monitoring Analytical Results

Project No.: 438-929
Date: 15-Apr-03

PZ-1

Date	ES/PAL	6/8/1994	8/13/1996	5/13/1997	6/24/1997	8/7/1997	7/23/1998	9/25/2001	8/1/2002	2/27/2003
Dissolved Iron, mg/L as Fe	0.3/0.15	----	----	----	----	----	----	NA	0.6	0.059
NH3-N, mg/Las N	+++	----	----	----	----	----	----	NA	NA	NA
NO2/NO3, mg/L as N	+++	----	----	----	----	----	----	NA	2.3	2.9
TKN, mg/L as N	+++	----	----	----	----	----	----	NA	NA	NA
Sulfate, mg/L as SO4	250/125	----	----	----	----	----	----	NA	60	74
Field DO, mg/L	+++	----	----	----	----	----	----	NA	0.4	0.85
Field RedOx Potential, mV	+++	----	----	----	----	----	----	NA	-24.9	126.7
Field pH	+++	----	----	----	----	----	----	NA	7.1	7.4
Detected VOCs/PVOCs, ug/L **	**ES/PAL**									
MTBE	60/12	----	----	----	----	----	----	<0.40	<0.43	<0.23
Benzene	5/0.5	----	----	----	----	----	----	**1.5**	**0.51**	<0.25
Toluene	1000/200	----	----	----	----	----	----	<0.40	<0.68	<0.11
Ethylbenzene	700/140	----	----	----	----	----	----	0.62	<0.82	<0.22
Total xylenes	10000/1000	----	----	----	----	----	----	<3.3	<2.47	<0.39
Trimethylbenzenes	480/96	----	----	----	----	----	----	<1.31	<1.86	<0.25
n-Butylbenzene	+++	----	----	----	----	----	----	NA	NA	NA
1,2-Dichloroethane	5/0.5	----	----	----	----	----	----	NA	NA	NA
Isopropylbenzene	+++	----	----	----	----	----	----	NA	NA	NA
Napthalene	40/8	----	----	----	----	----	----	NA	<0.89	<0.50
n-Propylbenzene	+++	----	----	----	----	----	----	NA	NA	NA
Isopropyl ether	+++	----	----	----	----	----	----	NA	NA	NA
sec-Butylbenzene	+++	----	----	----	----	----	----	NA	NA	NA
p-Isopropyltoluene	+++	----	----	----	----	----	----	NA	NA	NA
Total PVOCs	+++	----	----	----	----	----	----	2.12	0.51	0.00
Total VOCs	+++	----	----	----	----	----	----	2.12	0.51	0.00
PAHs, ug/L	**ES/PAL**									
Acenaphthene	+++	----	----	----	----	----	----	NA	NA	NA
Acenaphthylene	+++	----	----	----	----	----	----	NA	NA	NA
Anthracene	3000/600	----	----	----	----	----	----	NA	NA	NA
Benzo (a) anthracene	+++	----	----	----	----	----	----	NA	NA	NA
Benzo (a) pyrene	0.2/0.02	----	----	----	----	----	----	NA	NA	NA
Benzo (b) fluoranthene	0.2/0.02	----	----	----	----	----	----	NA	NA	NA
Benzo (g,h,i) perylene	+++	----	----	----	----	----	----	NA	NA	NA
Benzo (k) fluoranthene	+++	----	----	----	----	----	----	NA	NA	NA
Chrysene	0.2/0.02	----	----	----	----	----	----	NA	NA	NA
Dibenzo (a,h) anthracene	+++	----	----	----	----	----	----	NA	NA	NA
Fluoranthene	400/80	----	----	----	----	----	----	NA	NA	NA
Fluorene	400/80	----	----	----	----	----	----	NA	NA	NA
Ideno (1,2,3-cd) pyrene	+++	----	----	----	----	----	----	NA	NA	NA
Methyl-1-naphthalene	+++	----	----	----	----	----	----	NA	NA	NA
Methyl-2-naphthalene	+++	----	----	----	----	----	----	NA	NA	NA
Naphthalene	40/8	----	----	----	----	----	----	NA	NA	NA
Phenanthrene	+++	----	----	----	----	----	----	NA	NA	NA
Pyrene	250/50	----	----	----	----	----	----	NA	NA	NA
Total PAHs	+++	----	----	----	----	----	----	NA	NA	NA

Notes:

NA = not analyzed
ND = not detected
bold = exceeds current NR 140 PAL
= exceeds current NR 140 ES
Italics = results are greater than the LOD but lest than the LOQ
ES/PAL = current NR140 Enforcement Standard/Preventive Action Limit
+++ = no NR140 ES or PAL adopted

Rufenacht Oil

Groundwater Monitoring Analytical Results

Project No.: 438-929
Date: 15-Apr-03

PZ-2

Date	ES/PAL	6/8/1994	8/13/1996	5/13/1997	6/24/1997	8/7/1997	7/23/1998	9/25/2001	8/1/2002	2/27/2003
Dissolved Iron, mg/L as Fe	0.3/0.15	---	---	---	---	---	---	NA	1.9	1.5
NH3-N, mg/Las N	+++	---	---	---	---	---	---	NA	NA	NA
NO2/NO3, mg/L as N	+++	---	---	---	---	---	---	NA	<0.023	<0.024
TKN, mg/L as N	+++	---	---	---	---	---	---	NA	NA	NA
Sulfate, mg/L as SO4	250/125	---	---	---	---	---	---	NA	28	38
Field DO, mg/L	+++	---	---	---	---	---	---	NA	0.2	0.4
Field RedOx Potential, mV	+++	---	---	---	---	---	---	NA	-69.4	-45.6
Field pH	+++	---	---	---	---	---	---	NA	7.4	7.6
Detected VOCs/PVOCs, ug/L **	**ES/PAL**									
MTBE	60/12	---	---	---	---	---	---	<0.40	<0.43	<0.23
Benzene	5/0.5	---	---	---	---	---	---	**1.5**	**1.1**	<0.25
Toluene	1000/200	---	---	---	---	---	---	<0.40	<0.68	<0.11
Ethylbenzene	700/140	---	---	---	---	---	---	0.62	<0.82	0.55
Total xylenes	10000/1000	---	---	---	---	---	---	<3.3	<2.57	<0.39
Trimethylbenzenes	480/96	---	---	---	---	---	---	<1.31	<1.86	<0.25
n-Butylbenzene	+++	---	---	---	---	---	---	NA	NA	NA
1,2-Dichloroethane	5/0.5	---	---	---	---	---	---	NA	NA	NA
Isopropylbenzene	+++	---	---	---	---	---	---	NA	NA	NA
Napthalene	40/8	---	---	---	---	---	---	<1.0	<0.89	<0.50
n-Propylbenzene	+++	---	---	---	---	---	---	NA	NA	NA
Isopropyl ether	+++	---	---	---	---	---	---	NA	NA	NA
sec-Butylbenzene	+++	---	---	---	---	---	---	NA	NA	NA
p-Isopropyltoluene	+++	---	---	---	---	---	---	NA	NA	NA
Total PVOCs	+++	---	---	---	---	---	---	2.12	1.10	0.55
Total VOCs	+++	---	---	---	---	---	---	2.12	1.10	0.55
PAHs, ug/L	**ES/PAL**									
Acenaphthene	+++	---	---	---	---	---	---	NA	NA	NA
Acenaphthylene	+++	---	---	---	---	---	---	NA	NA	NA
Anthracene	3000/600	---	---	---	---	---	---	NA	NA	NA
Benzo (a) anthracene	+++	---	---	---	---	---	---	NA	NA	NA
Benzo (a) pyrene	0.2/0.02	---	---	---	---	---	---	NA	NA	NA
Benzo (b) fluoranthene	0.2/0.02	---	---	---	---	---	---	NA	NA	NA
Benzo (g,h,i) perylene	+++	---	---	---	---	---	---	NA	NA	NA
Benzo (k) fluoranthene	+++	---	---	---	---	---	---	NA	NA	NA
Chrysene	0.2/0.02	---	---	---	---	---	---	NA	NA	NA
Dibenzo (a,h) anthracene	+++	---	---	---	---	---	---	NA	NA	NA
Fluoranthene	400/80	---	---	---	---	---	---	NA	NA	NA
Fluorene	400/80	---	---	---	---	---	---	NA	NA	NA
Ideno (1,2,3-cd) pyrene	+++	---	---	---	---	---	---	NA	NA	NA
Methyl-1-naphthalene	+++	---	---	---	---	---	---	NA	NA	NA
Methyl-2-naphthalene	+++	---	---	---	---	---	---	NA	NA	NA
Naphthalene	40/8	---	---	---	---	---	---	NA	NA	NA
Phenanthrene	+++	---	---	---	---	---	---	NA	NA	NA
Pyrene	250/50	---	---	---	---	---	---	NA	NA	NA
Total PAHs	+++	---	---	---	---	---	---	NA	NA	NA

Notes:

NA = not analyzed
ND = not detected
bold = exceeds current NR 140 PAL
= exceeds current NR 140 ES
Italics = results are greater than the LOD but lest than the LOQ
ES/PAL = current NR140 Enforcement Standard/Preventive Action Limit
+++ = no NR140 ES or PAL adopted

TABLE 3.03-1

SOIL ANALYTICAL RESULTS
AST SITE INVESTIGATION

RUFENACHT OIL CO., INC.

Boring No. Depth (Feet)	B-1[1] 6-8	B-2[1] 6-8	B-3[1] 6-8	B-4[1] 3.5-5.5	B-5[1] 6-8	B-6[1] 8.5-10.5	B-7[1] 6-8	B-10[2] (MW-2) 6-8	ISCG[3] or PSS[4]
Compound									
GRO, mg/kg	1,200	1,500	<2	1,000	1,200	<2	<2	470	100/250
DRO, mg/kg	1,100	840	<5	270	180	<5	<5	550	100/250
Lead, mg/kg	15	16	4.4	6.9	55	8	27	6.7	(250/500)
Detected PVOCs, μg/kg:									
Tert-Butylmethyl Ether	<5,000	<5,000	<50	<2,500	<5,000	<50	<50	<310	--
Benzene	10,000	8,000	<30	<1,500	5,900	<30	<30	290	5.5
Toluene	56,000	45,000	<30	4,700	25,000	<30	<30	1,400	1,500
Ethylbenzene	24,000	28,000	<30	4,700	27,000	<30	<30	8,400	2,900
M/P Xylene	82,000	99,000	<60	27,000	87,000	<60	<60	29,000	4,100[5]
O-Xylene	29,000	37,000	<50	17,000	33,000	<50	<50	4,800	4,100[5]
1,3,5 Trimethylbenzene	15,000	20,000	<50	13,000	19,000	<50	<50	4,000	--
1,2,4 Trimethylbenzene	54,000	71,000	<50	43,000	61,000	<50	<50	28,000	--
Total Detected PVOCs	270,000	308,000	ND	109,400	257,900	ND	ND	75,890	
Detected PAHs, μg/kg:									
Acenaphthylene	NS	NS	NS	1.0	NS	NS	NS	NS	--
Fluorene	NS	NS	NS	4.7	NS	NS	NS	NS	--
Methyl-1-Naphthalene	NS	NS	NS	16	NS	NS	NS	NS	--
Methyl-2-Naphthalene	NS	NS	NS	29	NS	NS	NS	NS	--

436-926/BJL:LMR/RPT/RUFENACHT/091994

Table 3.03-1 (Continued)

Boring No. Depth (Feet)	B-1[1] 6-8	B-2[1] 6-8	B-3[1] 6-8	B-4[1] 3.5-5.5	B-5[1] 6-8	B-6[1] 8.5-10.5	B-7[1] 6-8	B-10[2] (MW-2) 6-8	ISCG[3] or PSS[4]
Naphthalene	NS	NS	NS	6.8	NS	NS	NS	NS	--
Phenanthrene	NS	NS	NS	24	NS	NS	NS	NS	--
Total Detected PAHs	NS	NS	NS	81.5	NS	NS	NS	NS	

1 Samples collected April 4, 1994

2 Sample collected June 7, 1994

3 Interim soil clean-up guidelines (NR 720), 100 ppm DRO and GRO contamination guideline applies to sites with saturated soil hydraulic conductivity $> 1 \times 10^{-6}$ cm/sec, while 250 ppm DRO and GRO contamination guideline applies to sites with saturated soil hydraulic conductivity $\leq 1 \times 10^{-6}$ cm/sec. Hydraulic conductivity testing on the four wells on site indicate a conductivity of $> 1 \times 10^{-6}$ cm/sec for all four wells. Therefore the 100 ppm GRO and DRO guideline applies.

4 Wisconsin Administrative Code NR 720 proposed soil standards (PSS) are in parentheses.

5 ISCG is given for total xylenes

ISCG exceedance

-- No ISCG or PSS at this time

NS Not sampled

< Less than the detection limit shown

Table 2
Soil Analytical Results

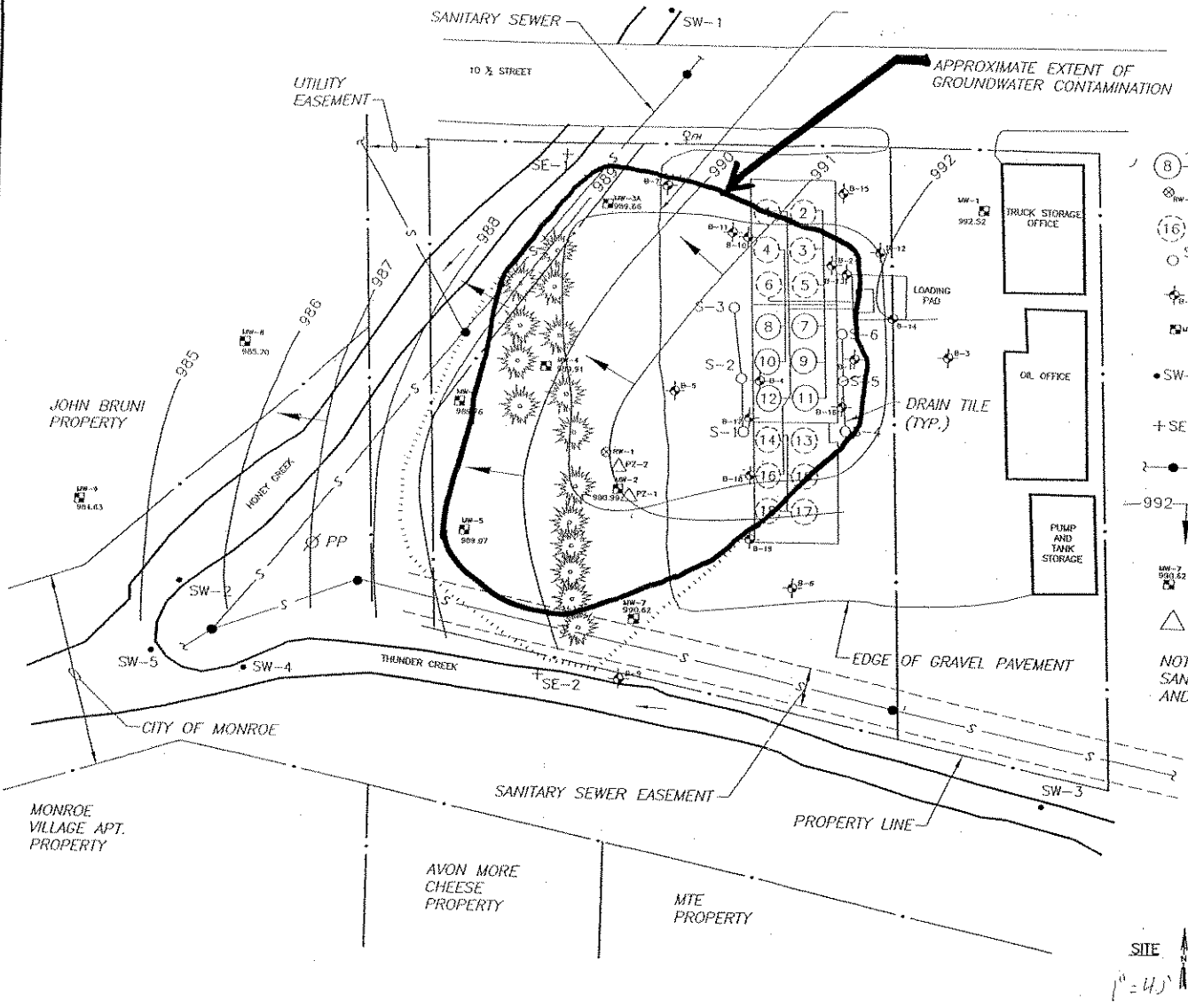
Compound	NR720 RCLs (nonindustrial/ industrial)	Boring Number and Sample Depth											
		B-10 0-2 ft	B-11 2-4 ft	B-12 2-4 ft	B-13 2-4 ft	B-14 0-2 ft	B-15 2-4 ft	B-16 2-4 ft	B-17 2-4 ft	B-18 2-4 ft	B-19 0-2 ft	PZ-1 52-53 ft	PZ-2 38-40 ft
Lead, *mg/kg*	50/500	52.5	6.9	6.8	7.3	87.6	7.6	5.3	44.1	5.7	47.3	34.1	15.8
PVOCs, mg/kg													
Benzene	0.0055	<0.025	<0.025	<0.025	**0.14**	<0.025	<0.025	**0.46**	<0.025	<0.025	<0.025	<0.025	<0.025
Ethylbenzene	2.9	0.053	<0.025	<0.025	0.59	0.13	0.10	**6.2**	<0.025	0.14	<0.025	<0.025	<0.025
MTBE	--	<0.025	<0.025	<0.025	0.079	<0.025	<0.025	<0.18	<0.025	<0.025	<0.025	<0.025	<0.025
Toluene	1.5	0.051	<0.025	<0.025	0.22	<0.025	<0.025	0.57	<0.025	<0.025	<0.025	<0.025	<0.025
TMB	--	0.57	0.097	<0.025	3.5	2.9	0.67	40	0.026	6.1	<0.025	<0.025	<0.025
Xylenes	4.1	0.40	0.038	<0.025	0.94	1.18	0.476	**17**	0.040	1.5	<0.025	<0.025	<0.025
PAHs, mg/kg													
1-Methylnaphthalene	--	<0.018	<0.017	<0.017	<0.017	<0.017	0.21	<0.017	<0.022	<0.17	<0.017	<0.019	<0.020
2-Methylnaphthalene	--	<0.017	<0.016	<0.016	<0.016	0.82	0.33	3.4	<0.021	<0.16	<0.016	<0.017	<0.018
Acenaphthene	900/60000	<0.019	<0.019	<0.019	<0.018	1.3	<0.018	0.42	<0.023	<0.18	<0.018	<0.020	<0.021
Acenaphthylene	18/360	0.087	0.23	0.48	0.27	<0.016	0.47	0.75	<0.021	1.8	0.038	0.062	<0.018
Benzo(a)anthracene	0.088/3.9	<0.00062	<0.00061	<0.00061	<0.00061	<0.00060	<0.00059	0.15	<0.00077	<0.0060	<0.00059	0.0023	<0.00069
Benzo(a)pyrene	0.0088/0.39	<0.0023	<0.0023	<0.0023	<0.0023	<0.0022	<0.0022	<0.0022	0.0096	<0.022	<0.0022	0.0099	0.0067
Benzo(b)flouranthene	0.088/3.9	0.0021	<0.00068	<0.00068	0.0025	0.0049	<0.00065	0.0085	0.0090	0.11	<0.00066	0.0059	0.15
Benzo(g,h,i)perylene	1.8/39	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	0.018	<0.014	0.0076	0.016	0.012
Benzo(k)fluoranthene	0.88/39	0.0031	<0.00078	<0.00079	0.0024	<0.00077	<0.00076	0.014	0.0047	0.20	<0.00076	<0.00083	<0.00088
Dibenzo(a,h)anthracene	0.0088/0.39	<0.0044	<0.0044	<0.0044	<0.0043	<0.0043	<0.0042	<0.0042	0.014	<0.043	<0.0042	<0.0046	<0.0049
Fluoranthene	600/40000	<0.00086	<0.00084	<0.00084	0.038	0.40	<0.00081	0.44	0.012	0.90	<0.00082	0.0048	<0.00094
Fluorene	600/40000	<0.0089	<0.0087	<0.0087	<0.0087	<0.0086	<0.0084	0.17	<0.011	<0.085	<0.0085	<0.0093	<0.0098
Indeno(1,2,3-cd)pyrene	0.088/3.9	0.0046	<0.0015	0.0061	0.0063	<0.0015	0.0059	0.0041	0.014	<0.015	0.0058	0.0059	0.0090
Naphthalene	20/110	<0.017	<0.016	<0.016	<0.016	<0.016	<0.016	0.66	<0.021	<0.16	<0.016	<0.017	<0.018
Phenanthrene	18/390	<0.0037	<0.0036	<0.0036	<0.0036	<0.0035	<0.0035	0.30	<0.0045	<0.035	<0.0035	<0.0038	<0.0040
Pyrene	500/30000	<0.0031	<0.0030	<0.0031	<0.0030	<0.0030	<0.0029	<0.0030	<0.0039	<0.030	<0.0030	<0.0032	0.011

Notes: Samples were collected September 17, 2001.
RCL Residual Contaminant Level
BOLD Concentration detected exceeds the Industrial Site RCL.
-- No RCL is established for this compound.
mg/kg milligram per kilogram

GROUNDWATER AND SURFACE WATER ELEVATIONS
RUFENACHT OIL SITE

MW/Surface	TOC	06/08/94		09/15/94		08/13/96		05/13/97		06/25/97		08/07/97		07/23/98		04/25/00		09/25/01	
Elevation No.	msl	DTW feet	GW/SW Elev msl	DTW feet	GW Elev msl	DTW feet	GW Elev msl	DTW feet	GW Elev msl	DTW feet	GW Elev msl	DTW feet	GW Elev msl	DTW feet	GW Elev msl	DTW feet	GW Elev msl	DTW feet	GW Elev msl
MW-1	995.89	5.38	990.51	4.58	991.31	4.14	991.75	4.37	991.52	3.14	992.75	4.43	991.46	3.68	992.21	3.37	992.52	—	—
MW-2	996.52	8.66	987.86	8.11	988.41	7.40	989.12	7.48	989.04	6.44	990.08	7.67	988.85	6.23	990.29	5.53	990.99	5.08	991.44
MW-3	996.26	9.69	986.57	7.81	988.45	7.21	989.05	—	—	—	—	—	—	—	—	—	—	—	—
MW-3A	995.46	—	—	—	—	—	—	—	—	5.93	989.53	7.82	987.64	6.66	988.80	5.8	989.66	5.12	990.34
MW-4	993.42	5.59	987.83	5.57	987.85	4.85	988.57	5.18	988.24	4.59	988.83	5.11	988.31	3.99	989.43	3.51	989.91	2.95	990.47
MW-5	993.41	—	—	—	—	—	—	—	—	4.44	988.97	5.64	987.77	4.04	989.37	3.44	989.97	3.2	990.21
MW-6	993.17	—	—	—	—	—	—	—	—	4.41	988.76	5.58	987.59	4.25	988.92	3.41	989.76	3.4	989.77
MW-7	996.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.68	990.62	5.08	991.22
MW-8	994.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.51	985.70	8.33	985.88
MW-9	993.71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.08	984.63	8.99	984.72
SE-1	—	—	986.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SE-2	—	—	985.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
PZ-1	997.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.71	994.63
PZ-2	996.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.6	990.89

Notes: MW-1, MW-2, MW-3, MW-4 installed on June 7, 1994.
MW-3 abandoned and replaced with MW-3A on June 25, 1997.
MW-5 and MW-6 installed June 9, 1997.
MW-7, MW-8, and MW-9 installed on April 14, 2000
PZ-1, PZ-2 installed on September 17, 2001.
SE-1 = Water surface elevation measured on June 8, 1994 on Honey Creek (See Figure 1A).
SE-2 = Water surface elevation measured on June 8, 1994 on Honey Creek (See Figure 1A).
GW/SW Elevation = groundwater/surface water elevation
TOC = top of PVC casing
DTW = depth to water
msl = elevation referenced to mean sea level
— = not measured or not applicable



LEGEND

- (8) EXISTING AST AND FUEL PIPING
- RW-1 RECOVERY WELL
- (16) FORMER AST LOCATION
- S-1 COLLECTION SUMP
- B-1 SOIL BORING
- MW-1 MONITORING WELL
- SW-1 APPROX. LOCATION OF COLLECTED SURFACE WATER SAMPLE
- SE-1 APPROX. LOCATION OF CREEK WATER SURFACE ELEVATION MEASUREMENT ON 6-8-98
- MANHOLE
- 992 GROUNDWATER ELEVATION CONTOUR LINE AND FLOW DIRECTION
- MW-7 990.62 GROUNDWATER ELEVATION MEASURED ON APRIL 25, 2000
- PZ-1 PIEZOMETERS

NOTE: LOCATION OF MONITORING WELLS, SANITARY SEWERS, PROPERTY LINES, EASEMENTS, AND UTILITY POLES ARE APPROXIMATE.

RUFENACHT OIL CO. SITE

STRAND ASSOCIATES, INC. ENGINEERS
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608) 251-4843

FIGURE NO. 1

SITE PLAN

438-929

MASTER BLUE PRINT INC. 551761

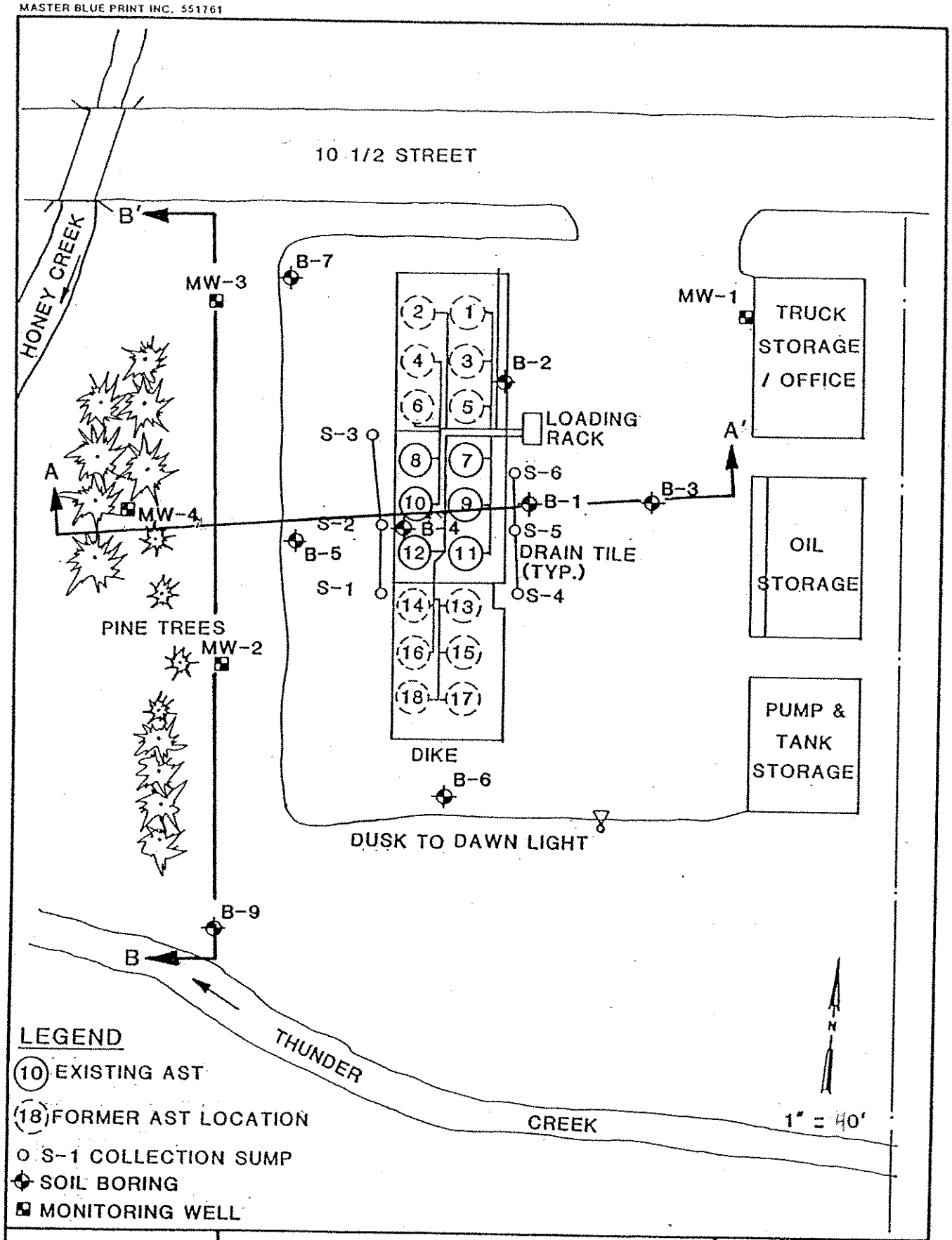
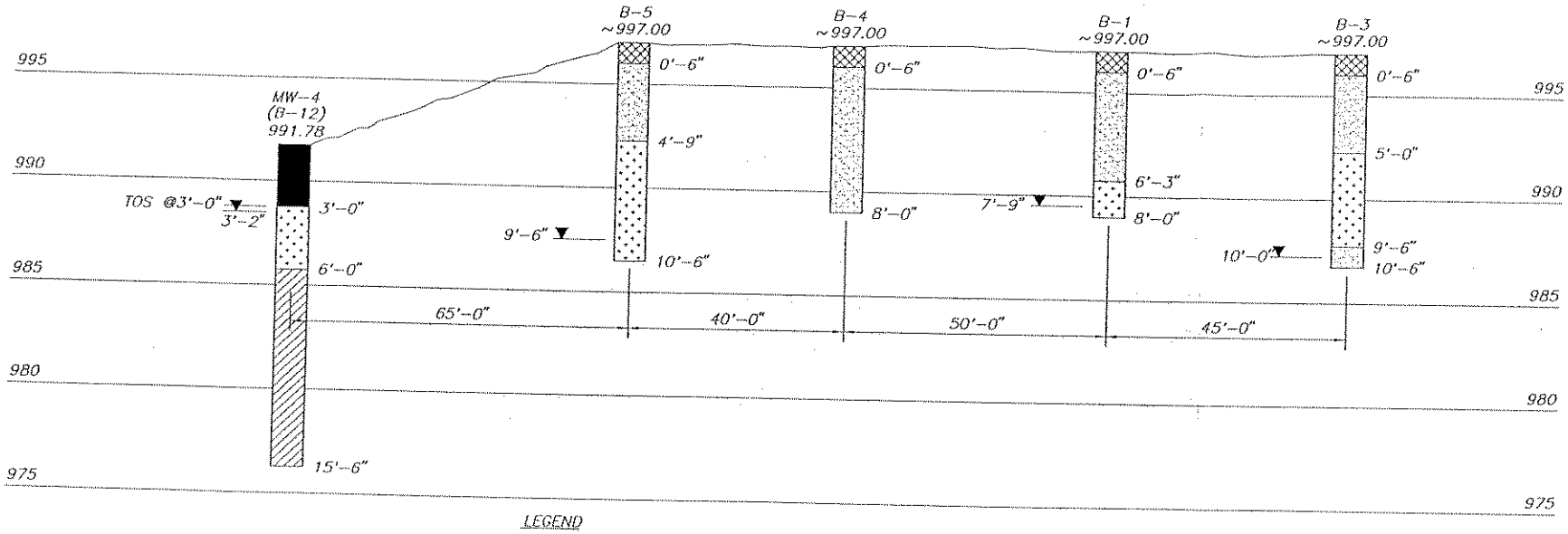


FIGURE 3.02-1

438-921-8A

RUFENACHT OIL CO.
A S T SITE INVESTIGATION
SOIL BORING AND MONITORING
WELL LOCATIONS

STRAND ASSOCIATES, INC. ENGINEERS



NOTES:
1. SEE BORING AND WELL LOGS FOR COMPLETE SAMPLE DESCRIPTIONS.
2. SEE FIGURE 3.02-1 FOR CROSS SECTION LOCATIONS.
3. THE HORIZONTAL SCALE IS EXAGGERATED AT THE SOIL BORINGS FOR CLARITY.
4. GROUNDWATER ELEVATIONS FOR B-1, B-3, B-4, B-5 ARE BASED ON APRIL 4, 1994 MEASUREMENTS. GROUNDWATER ELEVATION FOR MW-4 BASED ON JUNE 8, 1994 MEASUREMENT.
5. B-4 AND B-5 ARE PROJECTED INTO CROSS SECTION.

LEGEND

- TOPSOIL
- CRUSHED GRAVEL ROAD SURFACE/FILL
- SAND AND GRAVEL FILL
- SILT AND SAND
- CLAY AND SILT
- CLAY

TOS = TOP OF WELL SCREEN

▼—— INDICATES GW DEPTH

SCALE

1" = 15' HORIZONTAL
1" = 4' VERTICAL

RUFENACHT OIL CO.
AST SITE INVESTIGATION

STRAND ASSOCIATES, INC. ENGINEERS

FIGURE 3.02-2

CROSS SECTION A-A'

438-921-98

DWN BY: MAK PLOT DATE: 9/09/94 FILE: A-A

WDNR BRRTS Case #: 02-23-000927

WDNR Site Name: Rufenacht Oil Company

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.

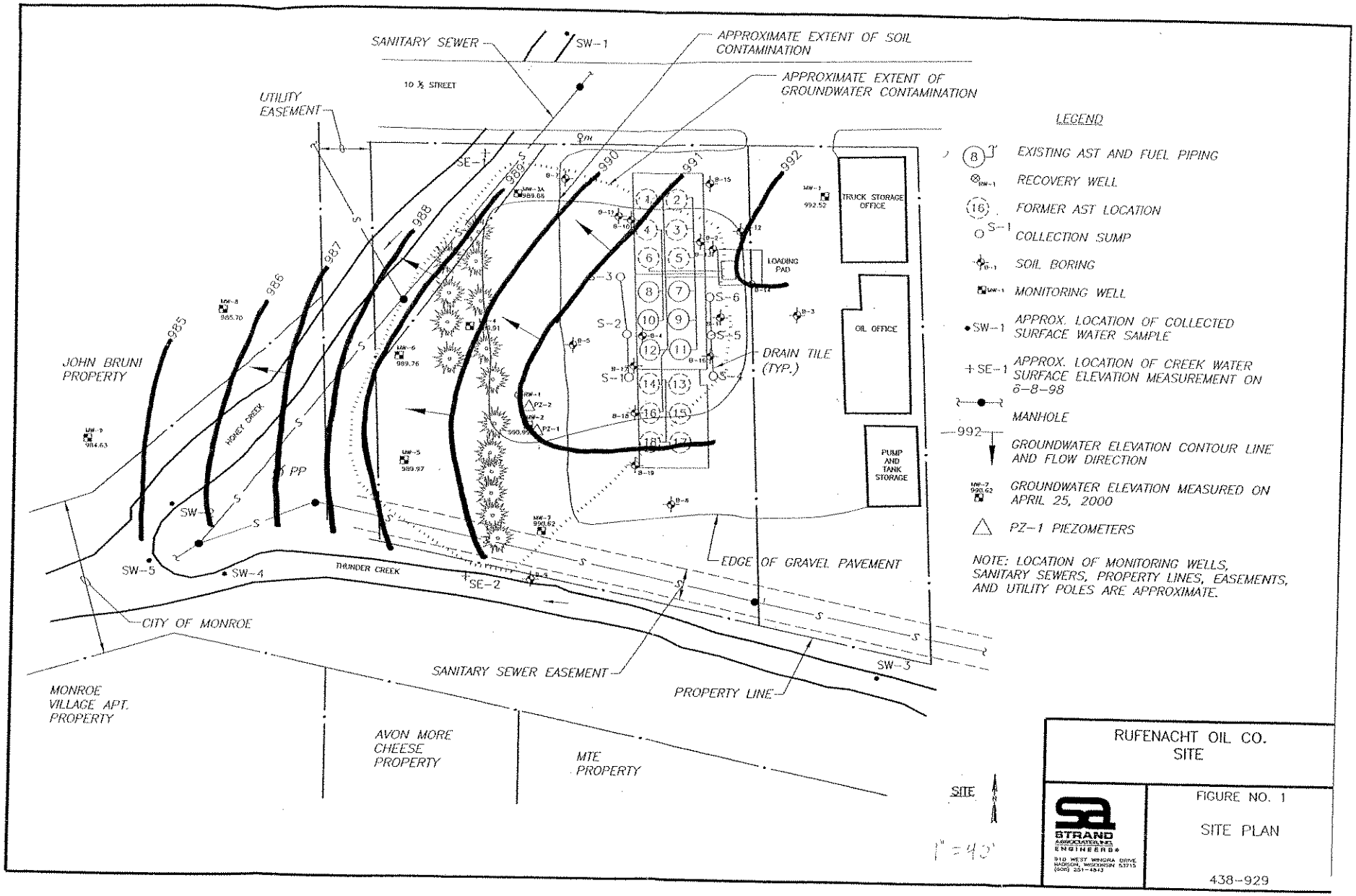
Responsible Party: JON RUFENACHT
(print name/title)

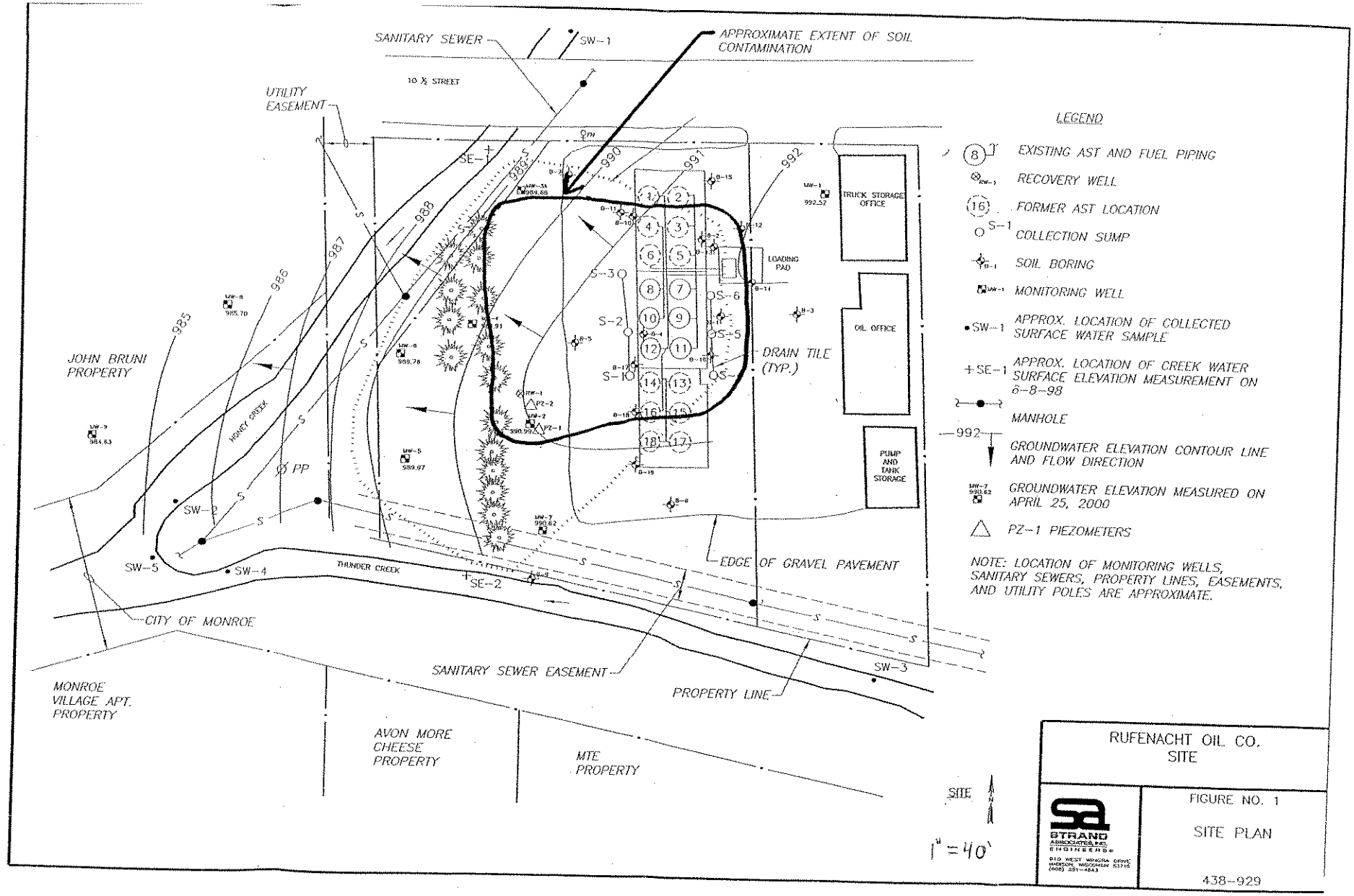
Jon Rufenacht 12/09/03
(signature) (date)

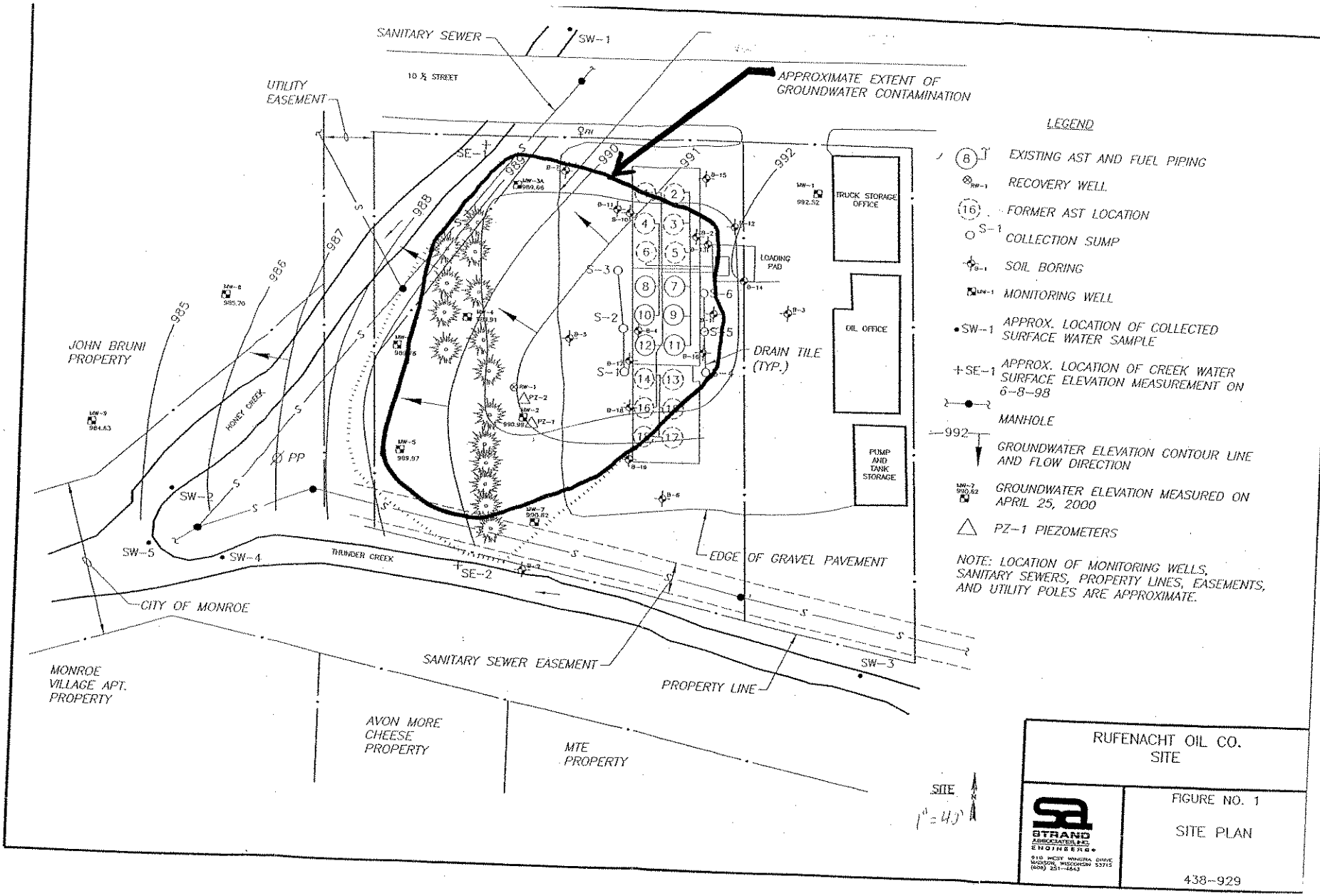
METCO
Environmental Consulting, Fuel System Design, Installation and Service
2956 Airport Road – La Crosse, WI 54603 608-781-8879

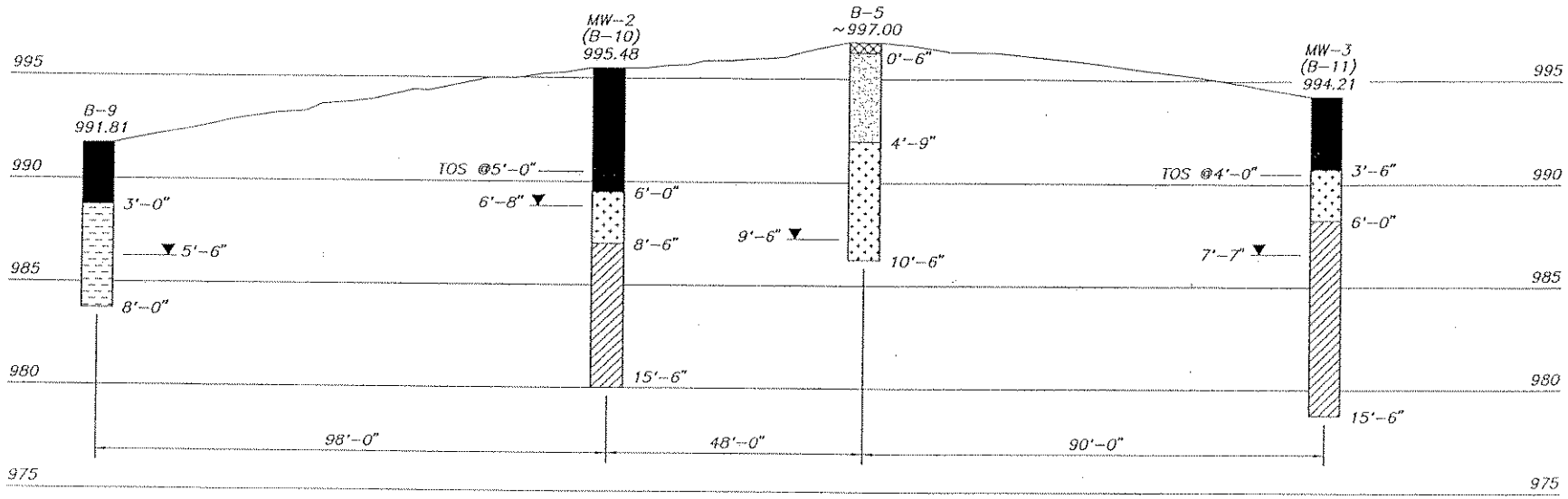
LEGAL DESCRIPTION (property at120 10½ Street, Monroe, Wisconsin)

Lot Two (2) of Certified Survey Map Number 1826, recorded in Volume Six of Certified Survey Maps of Green County, on page 68, being part of the Northwest Quarter (NW ¼) of the Southwest Quarter (SW ¼) of Section Thirty-Four (34), Town Two (2) North, Range Seven (7) East, City of Monroe, Green County, Wisconsin.


SANITARY SEWER
SW-1
APPROXIMATE EXTENT OF SOIL CONTAMINATION
APPROXIMATE EXTENT OF GROUNDWATER CONTAMINATION
10 ½ STREET
UTILITY EASEMENT
SE-1
985
986
987
988
989
990
991
992
JOHN BRUNI PROPERTY
HONEY CREEK
PP
SW-2
SW-5
SW-4
THUNDER CREEK
SE-2
CITY OF MONROE
MONROE VILLAGE APT. PROPERTY
AVON MORE CHEESE PROPERTY
MTE PROPERTY
SANITARY SEWER EASEMENT
PROPERTY LINE
EDGE OF GRAVEL PAVEMENT
DRAIN TILE (TYP.)
LOADING PAD
TRUCK STORAGE OFFICE
OIL OFFICE
PUMP AND TANK STORAGE
S-1
S-2
S-3
S-5
S-6
S-10
SW-3
LEGEND
EXISTING AST AND FUEL PIPING
RECOVERY WELL
FORMER AST LOCATION
COLLECTION SUMP
SOIL BORING
MONITORING WELL
APPROX. LOCATION OF COLLECTED SURFACE WATER SAMPLE
APPROX. LOCATION OF CREEK WATER SURFACE ELEVATION MEASUREMENT ON 6-8-98
MANHOLE
GROUNDWATER ELEVATION CONTOUR LINE AND FLOW DIRECTION
GROUNDWATER ELEVATION MEASURED ON APRIL 25, 2000
PZ-1 PIEZOMETERS
NOTE: LOCATION OF MONITORING WELLS, SANITARY SEWERS, PROPERTY LINES, EASEMENTS, AND UTILITY POLES ARE APPROXIMATE.
SITE
1" = 40'
RUFENACHT OIL CO. SITE
STRAND ASSOCIATES, INC. ENGINEERS
910 WEST WINGRA DRIVE MADISON, WISCONSIN 53715 (608) 251-4843
FIGURE NO. 1
SITE PLAN
438-929


SANITARY SEWER
SW-1
APPROXIMATE EXTENT OF SOIL CONTAMINATION
10 ½ STREET
UTILITY EASEMENT
SE-1
985
986
987
988
989
990
991
992
JOHN BRUNI PROPERTY
HONEY CREEK
PP
SW-2
SW-5
SW-4
THUNDER CREEK
SE-2
CITY OF MONROE
MONROE VILLAGE APT. PROPERTY
AVON MORE CHEESE PROPERTY
MTE PROPERTY
SANITARY SEWER EASEMENT
PROPERTY LINE
EDGE OF GRAVEL PAVEMENT
SW-3
TRUCK STORAGE OFFICE
OIL OFFICE
PUMP AND TANK STORAGE
LOADING PAD
DRAIN TILE (TYP.)
S-1
S-2
S-3
S-5
S-6
S-10
SITE
1" = 40'
LEGEND
EXISTING AST AND FUEL PIPING
RECOVERY WELL
FORMER AST LOCATION
COLLECTION SUMP
SOIL BORING
MONITORING WELL
APPROX. LOCATION OF COLLECTED SURFACE WATER SAMPLE
APPROX. LOCATION OF CREEK WATER SURFACE ELEVATION MEASUREMENT ON 6-8-98
MANHOLE
GROUNDWATER ELEVATION CONTOUR LINE AND FLOW DIRECTION
GROUNDWATER ELEVATION MEASURED ON APRIL 25, 2000
PZ-1 PIEZOMETERS
NOTE: LOCATION OF MONITORING WELLS, SANITARY SEWERS, PROPERTY LINES, EASEMENTS, AND UTILITY POLES ARE APPROXIMATE.
RUFENACHT OIL CO. SITE
STRAND ASSOCIATES, INC. ENGINEERS
910 WEST WINGRA DRIVE MADISON, WISCONSIN 53715 (608) 251-4843
FIGURE NO. 1
SITE PLAN
438-929


SANITARY SEWER
SW-1
10 ½ STREET
UTILITY EASEMENT
APPROXIMATE EXTENT OF GROUNDWATER CONTAMINATION
TRUCK STORAGE OFFICE
OIL OFFICE
PUMP AND TANK STORAGE
LOADING PAD
DRAIN TILE (TYP.)
EDGE OF GRAVEL PAVEMENT
JOHN BRUNI PROPERTY
HONEY CREEK
THUNDER CREEK
CITY OF MONROE
MONROE VILLAGE APT. PROPERTY
AVON MORE CHEESE PROPERTY
MTE PROPERTY
SANITARY SEWER EASEMENT
PROPERTY LINE
SE-1
SE-2
SW-2
SW-3
SW-4
SW-5
S-1
S-2
S-3
S-5
S-6
S-10
PZ-1
PZ-2
985
986
987
988
989
990
991
992
SITE
1" = 40'
LEGEND
EXISTING AST AND FUEL PIPING
RECOVERY WELL
FORMER AST LOCATION
COLLECTION SUMP
SOIL BORING
MONITORING WELL
APPROX. LOCATION OF COLLECTED SURFACE WATER SAMPLE
APPROX. LOCATION OF CREEK WATER SURFACE ELEVATION MEASUREMENT ON 6-8-98
MANHOLE
GROUNDWATER ELEVATION CONTOUR LINE AND FLOW DIRECTION
GROUNDWATER ELEVATION MEASURED ON APRIL 25, 2000
PZ-1 PIEZOMETERS
NOTE: LOCATION OF MONITORING WELLS, SANITARY SEWERS, PROPERTY LINES, EASEMENTS, AND UTILITY POLES ARE APPROXIMATE.
RUFENACHT OIL CO. SITE
STRAND ASSOCIATES, INC. ENGINEERS
910 WEST WINGRA DRIVE MADISON, WISCONSIN 53715 (608) 251-4843
FIGURE NO. 1
SITE PLAN
438-929



NOTES:
1. SEE BORING AND WELL LOGS FOR COMPLETE SAMPLE DESCRIPTIONS.
2. SEE FIGURE 3.02-1 FOR CROSS SECTION LOCATIONS.
3. THE HORIZONTAL SCALE IS EXAGGERATED AT THE SOIL BORINGS FOR CLARITY.
4. GROUNDWATER ELEVATION FOR B-5 IS BASED ON APRIL 4, 1994 MEASUREMENT. GROUNDWATER ELEVATIONS FOR B-9, MW-2 AND MW-3 ARE BASED ON JUNE 7 AND 8, 1994 MEASUREMENTS.
5. B-5 IS PROJECTED INTO CROSS SECTION.

LEGEND

- TOPSOIL
- CRUSHED GRAVEL ROAD SURFACE/FILL
- SAND AND GRAVEL FILL
- SILT AND SAND
- CLAY AND SILT
- CLAY

TOS = TOP OF WELL SCREEN
▼ INDICATES GW DEPTH

SCALE
1" = [illegible] HORIZONTAL
1" = [illegible] VERTICAL

RUFENACHT OIL CO.
AST SITE INVESTIGATION

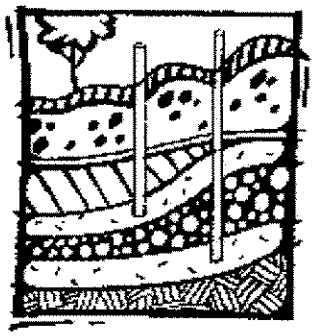
STRAND ASSOCIATES, INC. ENGINEERS

FIGURE 3.02-3

CROSS SECTION B-B'

438-921-10B

DWN BY: MAK PLOT DATE: 9/09/94 FILE: B-B



Fact Sheet

What Landowners Should Know: Information About Using Natural Attenuation To Clean Up Contaminated Groundwater

What Is Natural Attenuation?

Natural attenuation makes use of natural processes in soil and groundwater to contain the spread of contamination and to reduce the amount of contamination from chemical releases.

Natural attenuation is an *in-situ* treatment method. This means that contaminants are left in place while natural attenuation works on them. Natural attenuation is relied upon to clean up contamination that remains after the source of the contamination is removed. An example of a source of contamination would be a leaking underground petroleum tank.

How Does Natural Attenuation Work?

Natural attenuation processes work at many sites, but the rate and degree of effectiveness varies from property to property, depending upon the type of contaminants present and the physical, chemical and biological characteristics of the soil and groundwater.

Natural attenuation processes can be divided into two broad categories – destructive and non-destructive. Destructive processes destroy contaminants. The most common destructive process is **biodegradation**.

Non-destructive processes do not destroy the contaminant, but reduce contaminant concentrations in groundwater through **dilution**, **dispersion** or **adsorption**.

Biodegradation

Biodegradation is a process in which microorganisms (e.g. yeast, fungi, or bacteria) that naturally occur in soil and groundwater break down, or degrade, hazardous substances to less toxic or non-toxic substances. Microorganisms, like humans, eat and digest organic compounds for nutrition and energy (organic compounds contain carbon and hydrogen atoms).

Some types of microorganisms can digest organic substances such as fuels or solvents that are hazardous to humans. Microorganisms break down the organic contaminants into harmless products – mainly carbon dioxide and water. Once the contaminants are degraded, the microorganism populations decline because they have used their food sources. These small populations of microorganisms pose no contaminant or health risk.

Many organic contaminants, like petroleum, can be biodegraded by microorganisms in the underground environment. For example, biodegradation processes can effectively cleanse soil and groundwater of hydrocarbon fuels such as gasoline and benzene, toluene, ethylbenzene, and xylene – known as the BTEX compounds, under certain condtions.

WISCONSIN DEPT. OF NATURAL RESOURCES

October 2001 RR-671

Wisconsin Department of Natural Resources
PO Box 7921, Madison, WI 53707

Environmental Remediation and Redevelopment Program

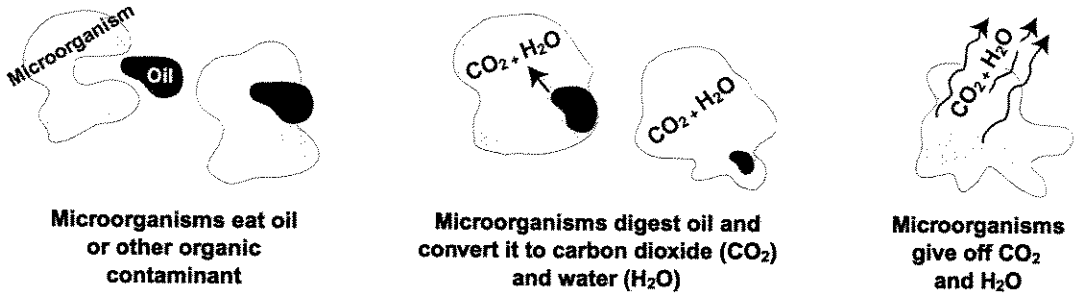


Figure 1. Schematic Diagram of Aerobic Biodegradation in Soil

Biodegradation can also breakdown other contaminants in groundwater such as trichloroethylene (TCE), a chlorinated solvent used in metal cleaning. However, the processes involved are harder to predict and are less effective at contaminant removal compared to petroleum-contaminated sites

Dilution and Dispersion

The effects of dilution and dispersion reduce contaminant concentrations but do not destroy contaminants. Clean water from the surface seeps underground to mix with and dilute contaminated groundwater.

Other processes that lead to reduced concentrations of contaminants include clean groundwater flowing into contaminated areas, and the dispersion of pollutants as they spread out and away from the main path of the contaminated plume.

Adsorption

Adsorption occurs when contaminants attach or "sorb" to underground particles. Most oily substances (like petroleum compounds) repel water and escape from the groundwater by attaching to organic matter and clay minerals in the subsurface.

This process holds back or retards contaminant movement and reduces the concentration of contaminants in the groundwater. However, like dilution and dispersion, adsorption does not destroy contaminants.

Why Consider Natural Attenuation To Clean Up Soil And Groundwater?

In certain situations, natural attenuation is an effective, inexpensive cleanup option and the most appropriate way to remediate some contamination problems. Natural attenuation focuses on confirming and monitoring natural remediation processes rather than relying on engineered or "active" technologies (such as pumping groundwater, treating it above ground, then disposing of the treated water).

Contaminants from petroleum are good candidates for natural attenuation because they are among the most easily destroyed by biodegradation. Natural attenuation is non-invasive, which allows treatment to go on below ground, while the surface can continue to be used.

Natural attenuation can also be less costly than active engineered treatment options, and requires no special equipment, energy source, or disposal of treated soil or groundwater.

Will Natural Attenuation Work At My Property?

Whether natural attenuation will work at a particular location is determined by investigating the soil and groundwater. These investigations determine the type of contaminants present, the levels of contamination, and the physical and chemical conditions that lead to biodegradation of the contaminants.

In order to rely on natural attenuation, responsible parties are required to confirm that natural attenuation processes are working by monitoring the soil and groundwater over a period of time to show that the contaminant concentrations are decreasing and that the contamination is no longer spreading.

Those conducting the cleanup need to know whether natural attenuation, or any proposed remedy, will reduce the contaminant concentrations in the soil and groundwater to legally acceptable limits within a reasonable period of time.

Natural attenuation may be an acceptable option for sites where active remediation has occurred and has reduced the concentration of contaminants (for instance, removing leaking underground tanks and contaminated soil).

However, natural attenuation is not an appropriate option at all sites. If the contamination has affected a drinking water well, or has entered a stream or lake, active cleanup options may be necessary to make sure people and the environment are protected from direct contact with the contamination.

The speed or rate of natural attenuation processes is typically slow. Monitoring is necessary to show that concentrations decrease at a sufficient rate to ensure that contaminants will not become a health threat in the future.

Closure Of Contaminated Sites Using Natural Attenuation As A Final Remedy

When contamination is discovered at a property (such as a gas station with leaking underground tanks), the person who is responsible for causing the contamination, and persons having possession or control of hazardous substances that have been discharged, have the responsibility to remove the source of contamination and investigate and clean up the contamination that has escaped into the soil and groundwater.

The contaminant release must be reported to the Wisconsin Department of Natural Resources (DNR) and the site investigation and cleanup are overseen by a state agency. Depending on the type of contaminant, the oversight agency could be the Department of Agriculture, Trade and Consumer Protection; Department of Commerce; or Department of Natural Resources.

When the cleanup has complied with state standards, the person responsible for the contamination will ask the state agency for closure of the case. If natural attenuation is relied upon to finish cleaning up a contaminated property after closure, the responsible person will need to show that contaminant concentrations are not spreading, that contaminant concentrations are stable or decreasing, and that the concentrations will decrease in the future until state groundwater standards are met.

Because natural attenuation processes are slow, it may take many years before the properties with contamination are clean. State rules require that all owners of properties where groundwater contamination has spread must be informed of the contamination below their property.

In addition, the properties with groundwater contamination exceeding state groundwater enforcement standards must be listed on a database to notify future owners and developers of the presence of contamination. If future monitoring occurs and shows that natural attenuation processes have removed the contaminants to state-required cleanup levels, then the properties can be removed from the database.

The state agency will grant closure if the site investigation and monitoring shows that natural attenuation will clean up groundwater to state standards within a reasonable period of time. All state rules for cleanup must be met and the person who is responsible for the contamination must comply with all conditions of the state's closure approval.

For More Information

The following publications provide additional information on natural attenuation. Web sites

where these can be downloaded free of charge are also listed.

- *A Citizen's Guide to Bioremediation*, April 1996, EPA 542-F-96-007; http://www.epa.gov/tio/productions/citguide/natural.htm

- *Commonly asked questions regarding the use of natural attenuation for petroleum-contaminated sites at federal facilities; November 20, 2000* http://www.epa.gov/swerffrr/ petrol.htm.

- *U.S. EPA Technology Fact Sheet: Monitored natural attenuation of petroleum hydrocarbons*, May 1999, EPA 600-F-98-021; http://www.epa.gov/ada/download/fact/pet-hyd.pdf.

- *U.S. EPA Technology Fact Sheet: Monitored natural attenuation of chlorinated solvents*, May 1999, EPA 600-F-98-0022; http://www.epa.gov/ada/download/fact/chl-solv.pdf.

- *Interim Guidance on Natural Attenuation for Petroleum Releases, WI DNR, Bureau for Remediation and Redevelopment*, October, 1999, PUB-RR-614; http://www.dnr.state.wi.us/org/aw/rr/archives/pubs/RR614.pdf.

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This document may contain some information about certain state statutes and rules but does not necessarily include all of the details found in the statutes/rules. Readers should consult the actual language of the statutes/rules to answer specific questions.

The Wisconsin Department of Natural Resources provides equal opportunity in its employment, programs, services, and functions under an Affirmative Action Plan. If you have any questions, please write to Equal Opportunity Office, Department of Interior, Washington, D.C. 20240.

This publication is available in alternative format upon request. Please call 608-267-3543 for more information.

Jon Rufenacht
212 26th Avenue
Monroe, WI 53566

January 6, 2004

Harry Bowen
P.O. Box 26
Orangeville, IL 61060

Dear Mr. Bowen,

Starting with the following paragraph is the text of the form letter that the Wisconsin DNR requires me to send to you, with site-specific details entered at appropriate points by our environmental consultant, METCO. It is your notification of residual groundwater contamination on your property, with details on how the source property (in this case, again your property) is requesting case closure with natural attenuation as the final remediation for the contamination.

Groundwater contamination that appears to have originated on the property located at 120 10½ Street, Monroe, Wisconsin, has been shown to be staying within the property boundaries. The levels of Benzene, Ethylbenzene, Naphthalene, Trimethylbenzenes, and Xylenes in the groundwater on your property are above the state groundwater enforcement standards found in chapter NR 140, Wisconsin Administrative Code. However, the environmental consultants who have investigated this contamination have informed me that this groundwater contaminant plume is stable or receding and will naturally degrade over time. I believe that allowing natural attenuation to complete the cleanup at this site will meet the requirements for case closure that are found in chapter Comm 46, Wisconsin Administrative Code, and I will be requesting that the Department of Commerce accept natural attenuation as the final remedy for this site and grant case closure. Closure means that the Department will not be requiring any further investigation or cleanup action to be taken, other than the reliance on natural attenuation.

Since I am the "responsible party" for the contamination on your property, neither you nor any subsequent owner of your property will be held responsible for investigation or cleanup of this groundwater contamination, as long as you and any subsequent owners comply with the requirements of section 292.13, Wisconsin Statutes, including allowing access to your property for environmental investigation or cleanup, if access is required. For your further information, a copy of the WDNR's Fact Sheet on Natural Attenuation and the requirements of section 292.13, Wisconsin Statutes (publication RR-671) is enclosed.

The Department of Commerce will not review my closure request for at least 30 days after the date of this letter. As an affected property owner, you have a right to contact the Department to provide any technical information that you may have that indicates closure should not be granted for this site. If you would like to submit any information to the Department of Commerce that is relevant to this closure request, you should mail that information to Mr. Ralph Smith, Wisconsin Department of Commerce – Site Review Section, 201 West Washington Avenue, P.O. Box 8044, Madison, Wisconsin, 53708-8044.

If this case is closed, all properties within the site boundaries where groundwater contamination exceeds chapter NR 140 groundwater enforcement standards will be listed on the Department of Natural Resources' geographic information system (GIS) Registry of Closed Remediation Sites. The

information on the GIS Registry includes maps showing the location of properties in Wisconsin where groundwater contamination above chapter NR 140 enforcement standards was found at the time that the case was closed. This GIS Registry will be available to the general public on the Department of Natural Resources internet web site. Please review the enclosed legal description of your property, and notify us within the next 30 days if the legal description is incorrect.

Should you or any subsequent property owner wish to construct or reconstruct a well on your property, special well construction standards may be necessary to protect the well from the residual groundwater contamination. Any well driller who proposes to construct a well on your property in the future will first need to discuss with the Drinking Water program within the Department of Natural Resources the need for special well construction standards.

Once the Department makes a decision on our closure request, it will be documented in a letter. If the Department grants closure, you may obtain a copy of this letter by requesting a copy from me, by writing to the agency address given above or by accessing the DNR GIS Registry of Closed Remediation Sites on the Internet at www.dnr.state.wi.us/org/at/et/geo/gwur. A copy of the closure letter is included as part of the site file on the GIS Registry of Closed Remediation Sites.

If you need more information, you may contact me at 212 26th Avenue, Monroe, WI 53566. The phone number at which you can reach me is (608) 325-3418. If you would prefer, you may contact Mr. Ralph Smith of the Department of Commerce at the address given above. His phone number is (608) 261-6543.

Sincerely,

Jon Rufenacht

Jon Rufenacht

Enclosures: legal description, map, table of analytical results