# The following site is being submitted for inclusion into the GIS registry:

APR 28 2004

• To begin, click on cell to the right of; This	is a:	etiles	ATTROCE
Use Tab, ↓ or Pg Down to navigate form. Pri	int & include with fil	e when completed	d.
This is a:	New Submittal		
BRRTS ID (no dashes):	0341169385	SubaRc	APR 3 0 2004
Comm # (no dashes):	53218326935		)
Off-source property contamination?	N		MAY 0 7 2004
(If yes, attach locational data and deed information on pg. 2)	:	$\mathcal{C}$	TIAI 0 / 2004
Right-of-way contamination?	. <b>N</b>		
GPS Coordinates (meters in the <b>WTM91</b> projection)	683909, 295956		
Easting (X):			; ;
Northing (Y):			
Collection Method:	DNR Website		
Scale or Resolution:	1822		
(1:24,000 scale or finer)	Environmental As		
Off Source Property #1:  GPS Coordinates (meters in the WTM91 projection)			
Easting (X):  Northing (Y):			
<ul><li>Off-source property notification</li><li>Copy of the most recent deed</li></ul>	n letter (Appendix A	a) attached	
Off Source Property #2:			
GPS Coordinates (meters in the WTM91 projection)			
Easting (X):			
Northing (Y):			
Off-source property notification	n letter (Appendix A	attached	
Copy of the most recent deed			
Off Source Property #3:			
GPS Coordinates (meters in the WTM91 projection)			
Easting (X):			
Northing (Y):			
Off-source property notification	n letter (Appendix A	A) attached	

Copy of the most recent deed

BUREAU OF PECFA

101 West Pleasant Street, Suite 100A Milwaukee, Wisconsin 53212-3963

> TDD #: (608) 264-8777 Fax #: (414) 220-5374 http://www.commerce.state.wi.us

> > http://www.wisconsin.gov Jim Doyle, Governor Cory L. Nettles, Secretary



June 12, 2003

Mr. Fredric Wein PO Box 17396 Milwaukee, WI 53217

RE: Conditional Case Closure

**Commerce # 53218-3269-35** WDNR BRRTS # 03-41-169385 Silver Terrace Strip Mall, 5821-5835 W. Silver Spring Dr., Milwaukee

Three fuel oil underground storage tanks removed/abandoned June 1997

Dear Mr. Wein:

The Wisconsin Department of Commerce (Commerce) has reviewed the request for case closure prepared by your consultant, Environmental Associates, Inc. It is understood that residual soil 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 condition must be satisfied to obtain final closure:

• All monitoring wells must be properly abandoned and the appropriate documentation forwarded to me at the letterhead address.

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 (414) 220-5375.

Sincerely,

Greg Michael Hydrogeologist

Site Review Section

# 000112287

7894342

# STATE BAR OF WISCONSIN FORM 3 1998 QUIT CLAIM DEED

Document Number		REGISTER'S OFFICE   SS Milwaukee County, WI:
		RECORDED AT 9:45 AM
This Deed, made between FREDRIC M. WEIN, AN ARENA, JAMES LEWENAUER, JOHN LEWENAUER and ROBE LEWENAUER	ERT	04-11-2000
	, Crantor.	WALTER R. BARCZAK
andSILVER TERRACE SHOPPING CENTER, LLP		REGISTER OF DEEDS
		ANOUNT 12.00
Grantor quit claims to Grantee the following described M11waukee County, State of Wisconsin:	real estate in	
Legal description on attached rider.		Name and Relum Address Richard J. Rakita 735 North Water Street, #1100 Milwaukee, WI 53202-4105
•		,
		190-1701-100-9
		Parcel Identification Number (PIN)
		This 1s not homestead property.  (is) (is not)
•		tray tra Hory
Together with all appurtenant rights, title and interests.		
Dated this 30th day of March 2	1000	Λ
Justin Meylen (SFAL)	(140	Krym (SEAL)
_ /)		
Predric M. Wein	Andrew A	rena
Asix Allen (SEAL)	1 Kerren	(SEAL)
tonit leverauet	James Le	wenauer
Robert Lewenauer AUTHENTICATION		ACKNOWLEDGMENT
Signature(s)	<b>.</b>	W
	State of	Wisconsin,
<del></del>	MILWAU	KEE County.
authenticated this day of		ame before me this 30th day of
	March. 2 Fredric M.	000. the above named Wein, John Lewenauer, Robert
		Andrew Arena and James
	Lewenauer,	-
ITTLE: MEMBER STATE BAR OF WISCONSIN (If not	me known to be	the person 5 who executed the foregoing
authorized by §706.06, Wis. Stats.)	a bns jighuum	
THIS INSTRUMENT WAS DRAFTED BY	C	cknowledge the same.
Richard J. Rakita, Attorney	majer	eknowledge the same.
	-:	7.12
· · · · · · · · · · · · · · · · · · ·	Maxine E	Raapo
	Maxine E	Raapo

\* Names of persons signing in any capacity must be typed or printed below their signature.

STATE BAR OF WISCONSIN FORM No. 3 - 1998 QUIT CLAIM DEED

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

#### PARCEL I:

LOTS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 AND 11, IN BLOCK 1, INCLUDING ALL OF THE VACATED ALLEY LOCATED WITHIN SAID BLOCK 1, IN SILVER SPRING TERRACE, BEING A SUBDIVISION OF A PART OF THE NORTH WEST 1/4 OF SECTION 35, IN TOWNSHIP 8 NORTH, RANGE 21 EAST, IN THE CITY OF MILWAUKEE, COUNTY OF MILWAUKEE, STATE OF WISCONSIN.

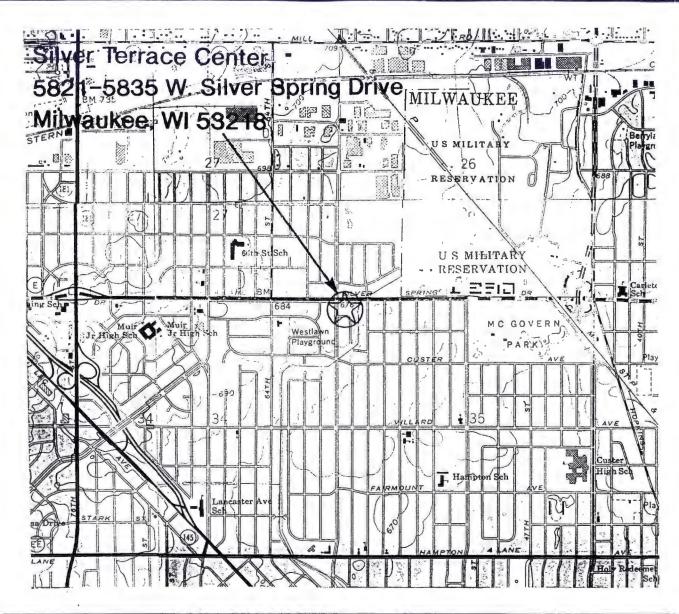
#### PARCEL II:

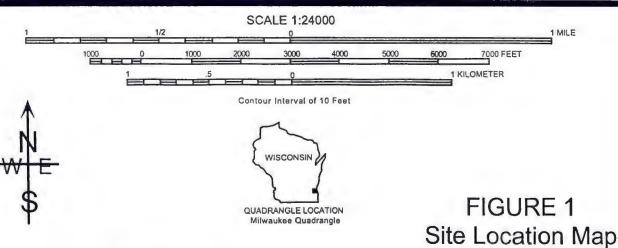
THAT PART OF THE NORTH WEST 1/4 OF SECTION 35, IN TOWNSHIP 8 NORTH, RANGE 21 EAST, IN THE CITY OF MILWAUKEE, COUNTY OF MILWAUKEE AND STATE OF MISCONSIN, WHICH IS BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTH WEST CORNER OF SAID 1/4 SECTION; RUNNING THENCE NORTH 88°30'26° EAST ALONG THE NORTH LINE OF SAID 1/4 SECTION 330.48 FEET TO A POINT; THENCE SOUTH 00°29'45° WEST ALONG THE EAST LINE OF BLOCK 1 IN SILVER SPRING TERRACE 180.00 FEET TO THE POINT OF BEGINNING OF THE LAND TO BE DESCRIBED; RUNNING THENCE SOUTH 00°29'45° WEST ALONG THE EAST LINE OF SAID BLOCK 1 IN SILVER SPRING TERRACE 230.00 FEET TO A POINT; THENCE NORTH 88°30'26° EAST AND PARALLEL TO THE NORTH LINE OF SAID 1/4 SECTION 165.00 FEET TO A POINT; THENCE NORTH 00°29'45° EAST AND PARALLEL TO THE EAST LINE OF BLOCK 1 IN SILVER SPRING TERRACE 230.00 FEET TO A POINT; THENCE SOUTH 88°30'26° WEST AND PARALLEL TO THE NORTH LINE OF SAID 1/4 SECTION 165.00 FEET TO THE POINT OF BEGINNING.

#### PARCEL III:

THAT PART OF THE NORTH WEST 1/4 OF SECTION 35, IN TOWNSHIP 8 NORTH, RANGE 21 EAST, IN THE CITY OF MILWAUKEE, COUNTY OF MILWAUKEE, STATE OF WISCONSIN, BOUNDED AND DESCRIBED AS FOLLOWS, TO-WIT: COMMENCING AT A POINT IN THE NORTH LINE OF SAID NORTH WEST 1/4 OF SECTION 35, 330.48 FEET EAST OF THE NORTH WEST CORNER OF SAID 1/4 SECTION, RUNNING THENCE EAST ALONG SAID NORTH LINE, 165.00 FEET TO A POINT; THENCE SOUTH 0\*29\*45\* WEST, 180.00 FEET TO A POINT; THENCE WEST AND PARALLEL TO THE NORTH LINE OF SAID 1/4 SECTION, 165.0 FEET TO A POINT; THENCE NORTH 0\*29\*45\* EAST, 180.00 FEET TO THE PLACE OF COMMENCEMENT, EXCEPTING THEREFROM THE NORTH 60 FEET FOR HIGHWAY PURPOSES, AND FURTHER EXCEPTING THAT PART CONVEYED TO THE SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE BY DEED RECORDED JANUARY 31, 1956, IN VOLUME 3535, PAGE 303, AS DOCUMENT NO. 3464847.

1111





and

Local Topography

Environmental Associates, Inc.

Drawn	RRG	Drawing:	98-06598-1	
by:	4-24-98	File:	FIGURE 1	

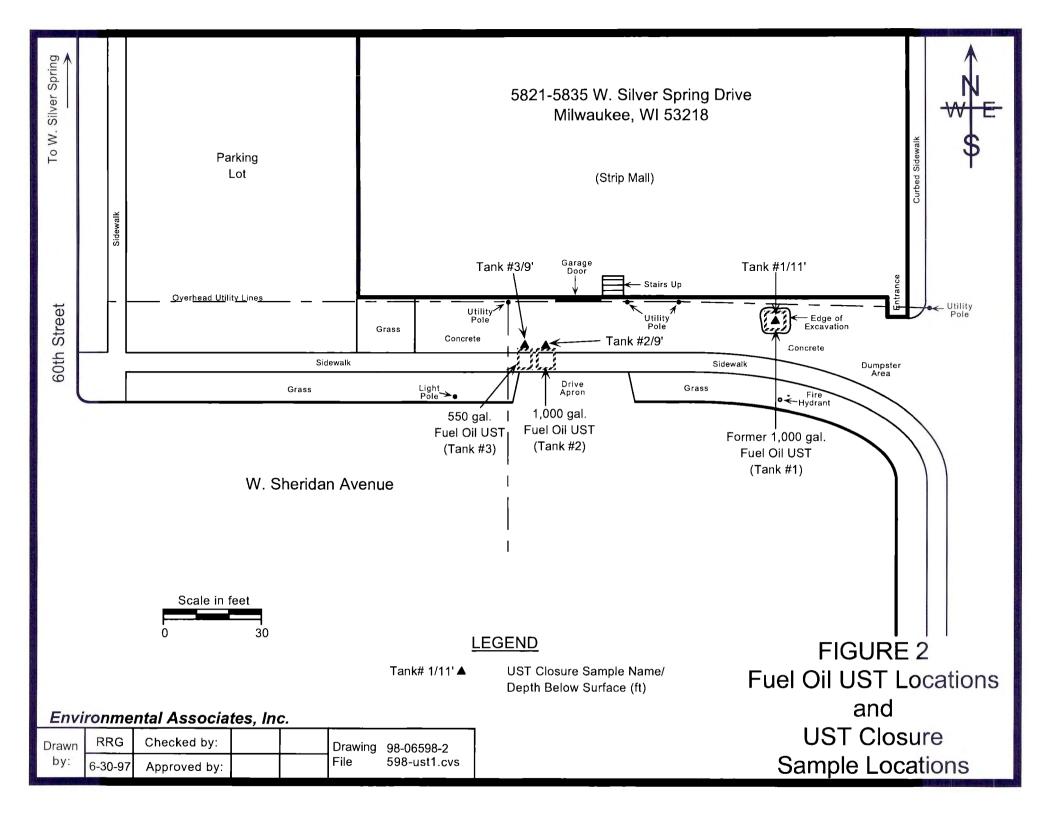


Table 1: Summary of Soil Quality Analytical Results, Fuel Oil Tank Closure Assessment, Silver Terrace Center, 5821-5835 West Silver Spring Drive, Milwaukee, Wisconsin

Sample Location Sample Name Sampling Interval in Feet Soil Type Sample Collection Date		720.09 Generic Soil Standards	<b>Tank #1</b> Tank #1 11' CL 6/26/97	<b>Tank #2</b> Tank #2 9' CL 6/27/97	Tank #3 Tank #3 9' CL 6/27/97
Environmental Associates Results					
WDNR Modified TPH: Diesel Range Organics (DRO)	mg/kg	100	<10	460	1,900
Total Solids	%	 tage 55	82.4	81.8	81.4
Clayton Environmental Results					
WDNR Modified TPH: Diesel Range Organics (DRO)	mg/kg	100	<4.4	<6.0	<4.6
Total Solids	%		82.5	80.8	82.0
Photo-Ionization Detector (PID)	ppm i.u.		53	78	29

## Footnotes:

PID = Photo-ionization Detector

mg/kg = Milligrams per kilogram

ppm = Parts per Million

i.u. = instrument units

"J" Flag = Analyte Detected Between Laboratory Limit of Detection and Limit of Quantitation

-- = Not Analyzed or No Established WAC NR 720.09 Soil Cleanup Standard

Table 3: Summary of Site Investigation Soil Quality Results, Silver Terrace Center, 5821-5835 West Silver Spring Drive, Milwaukee, Wisconsin

Sample Location		WAC NR	MV	V-5	MV	N-6		MW-7			MV	N-9		
Sample Name		720.09	MW-5(10-12)	MW-5(18-20)	MW-6(12-14)	MW-6(18-20)	MW-7(6-8)	MW-7(12-14)	MW-7(18-20)	MW-9(5-7)	MW-9(13-15)	MW-9(15-17)	MW-9(17-19)	TRIP
Sampling Interval in Feet		Soil	10-12'	18-20'	12-14'	18-20'	6-8'	12-14'	18-20'	5-7'	13-15'	15-17'	17-19'	
Sample Collection Date	units	Standards	6/3/98	6/3/98	6/3/98	6/3/98	6/3/98	6/3/98	6/3/98	11/3/98	11/3/98	11/3/98	11/3/98	6 3 98
WDNR Modified TPH:														
Diesel Range Organics (DRO)	mg/kg	100	<10	<10	NT	NT	-10	<10	· 10		-10		<10	
Total Solids	%		88 7	82 1			82.7	83 9	83.2		87.6		87.6	
Selected Petroleum Volatile														
Organic Compounds (VOC):														
Toluene	ug/kg	1,500	<25	<25	<:25	<25	<25	<25	<25	<25	<25		<25	< 25
Torse	ug/ng	1,000		2-5	25		20	20	22	20	2.5		22	
Xylenes	ug/kg	4,100	<75	<75	<75	<75	<75	~75	~75	<75	<75	<75	<75	- 75
					40	- 40		••	40					
Total Trimethylbenzenes	ug/kg		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Naphthalene	ug/kg		<25	<25	< 25	<25	<25	<25	<25	<25	<25	<25	<25	- 25
Selected Solvent Volatile Organic Compounds (VOC):						[					4			
Vinyl Chloride	ug/kg		<25	<25	<25	<25	<25	<25	<25	<25	<25		<25	<25
vinyi v monde	OF VE		123			123	~23	-25		دس~	123		\2J	' 40 2 <sup>1</sup>
cis-1,2 Dichloroethene	ug/kg		<25	<-25	<25	<25	<25	<25	<25	<25	<25		140	~ 25
							_							
Trichloroethene	ug/kg		<25	<25	<25	<25	<25	<25	<25	<25	<25		47	<25
Tetrachloroethene	ug/kg		<25	<25	<25	<25	<25	<25	<25	<25	<25		<25	- 25
				-25			25		-25		-23		-m.:	
Flame-Ionization Detector (FID)	i.u.		0	0	0	0	2.5	0	0	0	0	0	0	

Footnotes

TPH - Total Petroleum Hydrocarbons

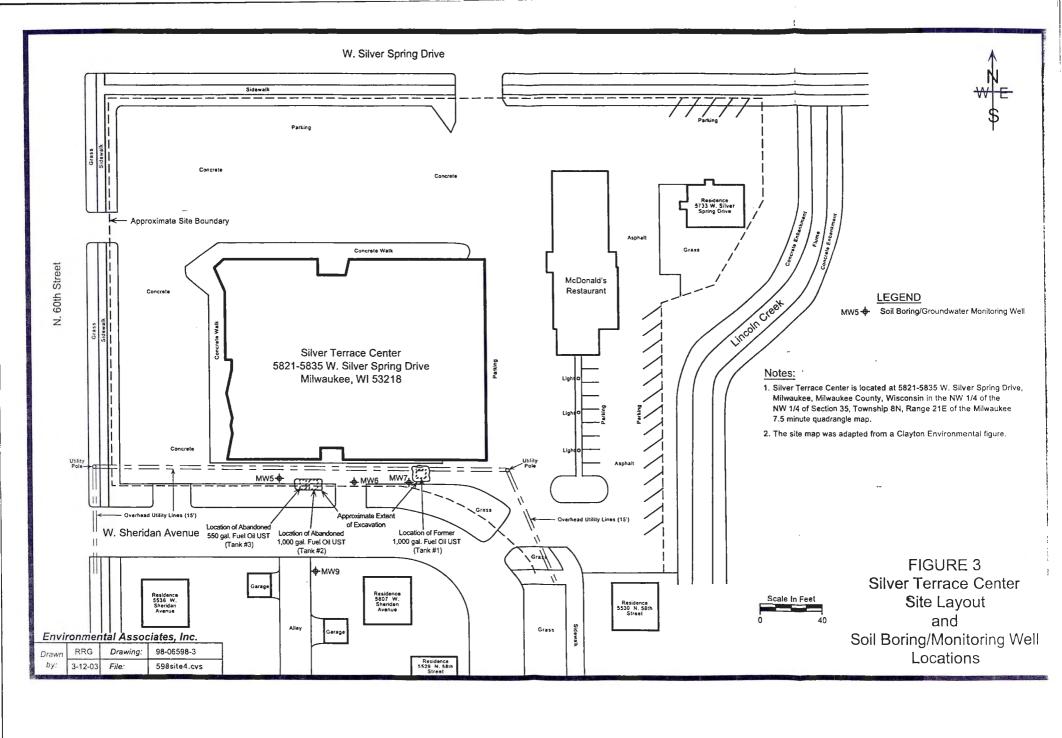
i.u. = Instrument Units

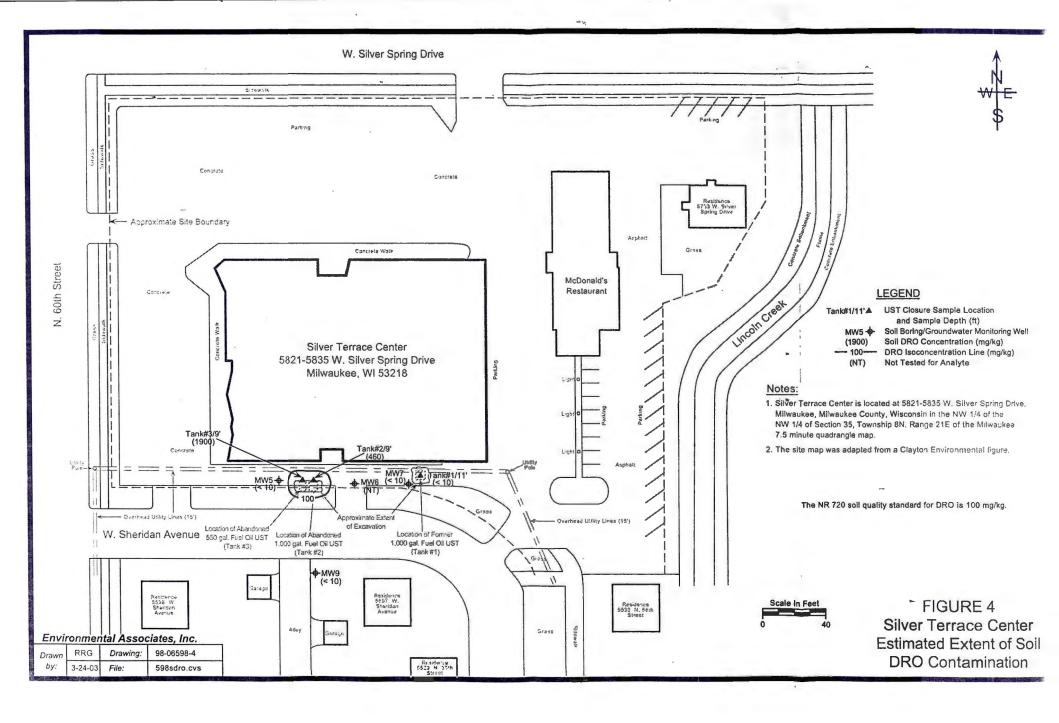
mg/kg - Milligrams per Kilogram

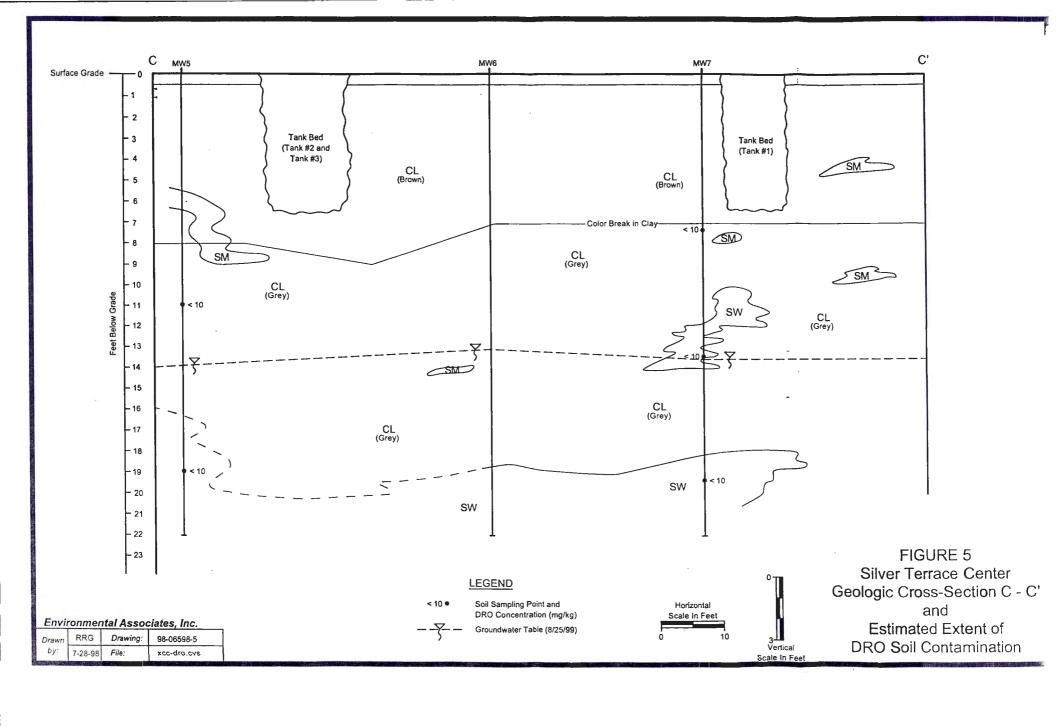
-- = Not Analyzed or No Established WAC NR 720.09 Soil Cleanup Standard

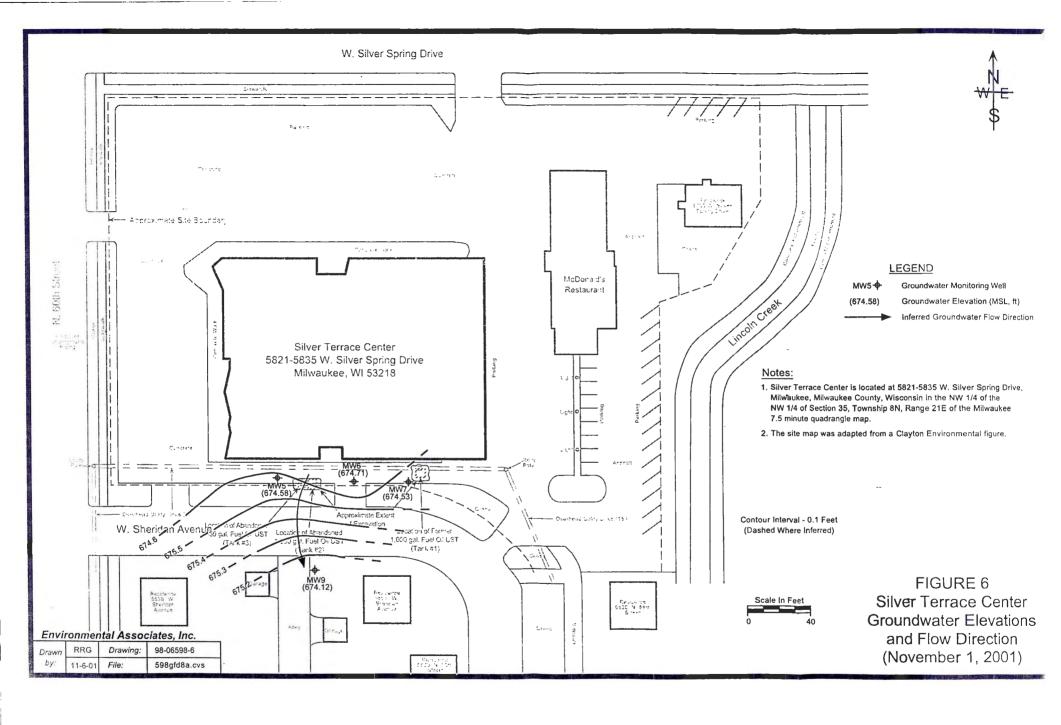
ug kg = Micrograms per Kilogram

\*\* = Combined Total Xylene Standard









As owner of the Silver Terrace Center Site located at 5821 – 5835 W. Silver Spring Drive, Milwaukee, Wisconsin, I believe that the legal description given on the Quit Claim Deed dated March 30, 2000 is complete and accurately describes the contaminated property.

Mr. Fred Wein

Date

# Environmental Associates, Inc.



August 14, 1997

Mr. Ronald Sweet City of Milwaukee Planning Department 841 N. Broadway, Room 919 Milwaukee, Wisconsin 53202

RE: Request for In Place Tank Abandonment, 5821-5835 W. Silver Spring Drive, Milwaukee, Wisconsin

Dear Mr. Sweet,

The purpose of this correspondence is to update you on the status of the property located at 5821-5835 W. Silver Spring Drive in Milwaukee, Wisconsin (Figure 1). Petroleum contaminated soils were detected during tank excavation activities at the property on June 26-27, 1997. The property is currently the location of a strip mall.

A total of three fuel oil tanks were uncovered on the south side of the strip mall during the tank excavation activities (Figure 2). A 1,000 gallon fuel oil tank (Tank #1) was removed from the site on June 26, 1997. On June 27, 1997 a 550 gallon fuel oil tank (Tank #3) and a 1,000 gallon fuel oil tank (Tank #3) were uncovered from a common excavation but left in place when it was discovered they were confined by the City of Milwaukee sidewalk along W. Sheridan Avenue. Soil in the excavation had a strong petroleum odor and was visibly stained. Laboratory analytical results (Attachment A) from soil samples collected at the base of the tanks confirmed a petroleum release resulting from the leaking of Tanks #2 and #3 had occurred. At the request of our client, Mr. Fred Wein (property owner), Environmental Associates notified the Wisconsin Department of Natural Resources of petroleum contamination at the site and intend to implement an investigation to delineate the extent of contamination at the site.

Due to the poor accessibility of the tanks, on behalf of our client, Mr. Fred Wein, Environmental Associates request permission from the City of Milwaukee to abandon the tanks in place. The tanks would be uncovered, cleaned, filled with concrete and left under the W. Sheridan Avenue sidewalk in full compliance with the State of Wisconsin Administrative Code ILHR10 guidelines for closure of underground storage tanks.

Environmental Associates request that the City of Milwaukee respond to this correspondence such that we may complete this project. Included is a site map indicating the locations of Tanks #2 and #3 and utilities in the vicinity of the tanks (Figure 3). If you require any additional information or would like to discuss this project in greater detail, please contact our office at (414) 242-1088. We appreciate your attention in this matter and look forward to hearing from you.

Sincerely,

Environmental Associates, Inc.

Jas Miraldine

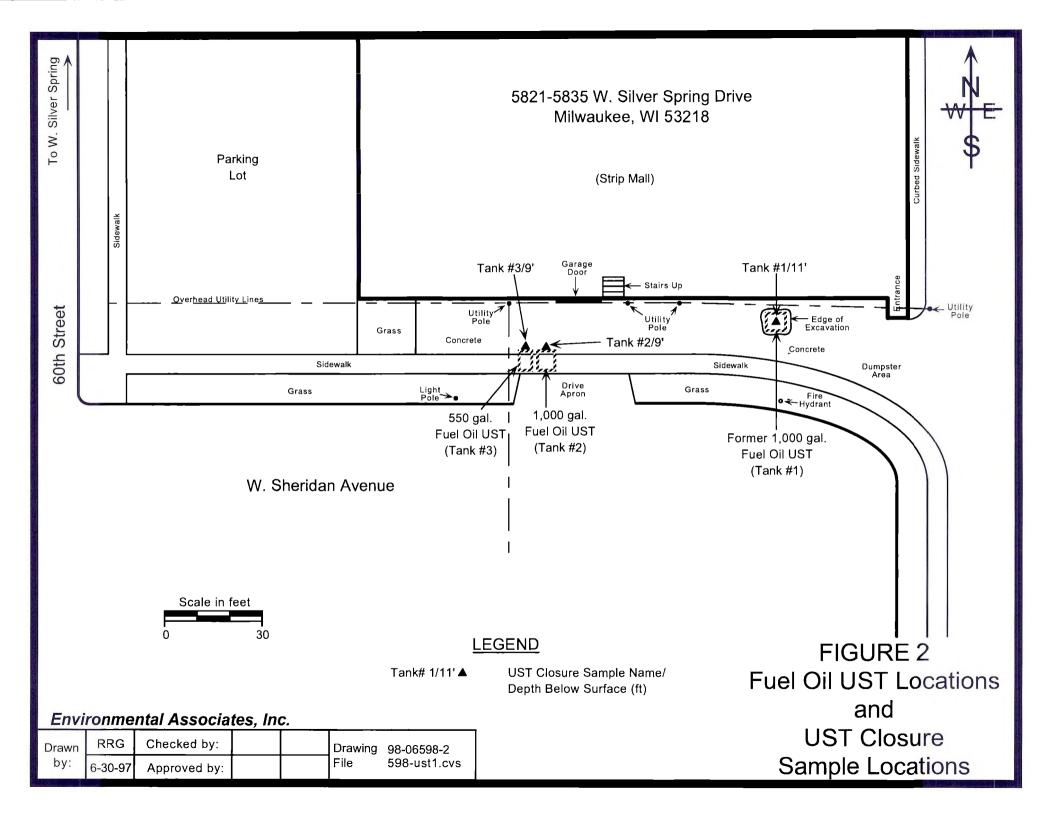
Joe Michaelchuck Project Manager

JM:mas 553TANK.DOC

CC:

File

Client



# Environmental Associates, Inc.



September 3, 1997

Mr. Ronald Sweet City of Milwaukee Planning Department 841 N. Broadway, Room 919 Milwaukee, Wisconsin 53202

RE: Proposed Tank Abandonment Procedure, 60th and Silver Spring (5821-5835 W. Silver Spring Drive, Milwaukee, Wisconsin)

The following presents the proposed procedure and points of interest for in-place tank abandonment at 5821-5835 W. Silver Spring Drive in the City of Milwaukee, Wisconsin for the City of Milwaukee review and approval:

- The north end of the tanks shall be exposed and each tank shall be opened and completely filled with 1/2 bag slurry mix or pea gravel. The tanks were previously uncovered and cleaned on June 27, 1997. It will not be necessary to remove the City of Milwaukee sidewalk.
- The six inch water line will not be uncovered during these activities.
- All excavation activities will be conducted on the 5821-5835 W. Silver Spring Drive (Fred Wein) property. No work associated with the tank abandonment activities will be conducted on or impact the City of Milwaukee Right of Way.
- Tank abandonment activities will be performed by Valley View Maintenance of Menomonee Falls, Wisconsin.
- Environmental Associates shall contact the City of Milwaukee Building Inspection Department and Planning Department a minimum of 24 hours prior to the abandonment activities. Valley View Maintenance shall contact Diggers Hotline a minimum of 3 days prior to excavation activities.

Environmental Associates additionally propose to conduct an investigation to define the horizontal and vertical extent of petroleum soil contamination at the site. The site formerly utilized one 550 gallon and one 1,000 gallon fuel oil tank. It is proposed that one (1) one inch diameter geoprobe be advanced on the south side of the tanks to an estimated depth of 20 feet as part of this investigation.

# Environmental Associates, Inc.

Environmental Associates will provide the City of Milwaukee with all laboratory analytical data, reports and information with respect to the City of Milwaukee public right-of-way. Environmental Associates will consult the City of Milwaukee prior to implementation of remedial action or WDNR involvement.

Implementation of the workplan described above is contingent on City of Milwaukee approval. Additional information on this project, including sil quality analytical data is presented in an August 14, 1997 correspondence letter to Ron Sweet of the City of Milwaukee. Tim Temperly of the City of Milwaukee Building Inspection Department was present during tank removal/cleaning activities on June 26-27, 1997 at the site.

If you have any questions or require additional information, please contact me at (414) 242-1088.

Sincerely,

Environmental Associates, Inc.

Ja Minulds

Joe Michaelchuck

Project Engineer

JM:mas 553CTY.DOC

P10-6

# Environmental Associates, Inc.

October 6, 1997

Mr. Timothy Temperly Construction Inspector, City of Milwaukee 841 N. Broadway, Room 1016 Milwaukee, WI 53202-3613

RE: Request for Commercial Fuel Oil Underground Storage Tank (UST) Closure In Place, 5821-5835 W. Silver Spring Drive, Milwaukee, WI 53218 (Figure 1)

Dear Mr. Temperly,

The purpose of this correspondence is to request permission for closure of one (1) 1,000 gallon and one (1) 550 gallon fuel oil UST in place. The tanks were formerly utilized by the strip mall located at the above referenced property.

A total of three fuel oil tanks were uncovered on the south side of the strip mall during the tank excavation activities (Figure 2). A 1,000 gallon fuel oil tank (Tank #1) was removed from the site on June 26, 1997. On June 27, 1997 a 550 gallon fuel oil tank (Tank #2) and a 1,000 gallon fuel oil tank (Tank #3) were uncovered from a common excavation but left in place when it was discovered they were inaccessible for removal due to the presence of utilities. Soil in the excavation had a strong petroleum odor and was visibly stained. Laboratory analytical results (Attachment A) from soil samples collected at the base of the tanks confirmed a petroleum release resulting from leaking of Tanks #2 and #3 had occurred. At the request of our client, Mr. Fred Wein (property owner), Environmental Associates notified the Wisconsin Department of Natural Resources of petroleum contamination at the site.

Due to the inaccessibility of the tanks (per City of Milwaukee Code 10.732 (2) (6)), on behalf of our client, Mr. Fred Wein, Environmental Associates request permission from the City of Milwaukee Construction Inspection to abandon the tanks in place. The tanks would be uncovered, cleaned, filled with concrete and left under the W. Sheridan Avenue sidewalk in full compliance with the State of Wisconsin Administrative Code ILHR 10 guidelines for closure of underground storage tanks. The City of Milwaukee issued a permit for the closure of these tanks in place on September 3, 1997. A copy of the permit is included in Attachment B for your reference.

# Environmental Associates, Inc.

Environmental Associates appreciates your review and welcomes any comments or suggestions at (414) 242-1088.

Sincerely,

Environmental Associates, Inc.

Jas Misalde

Joe Michaelchuck

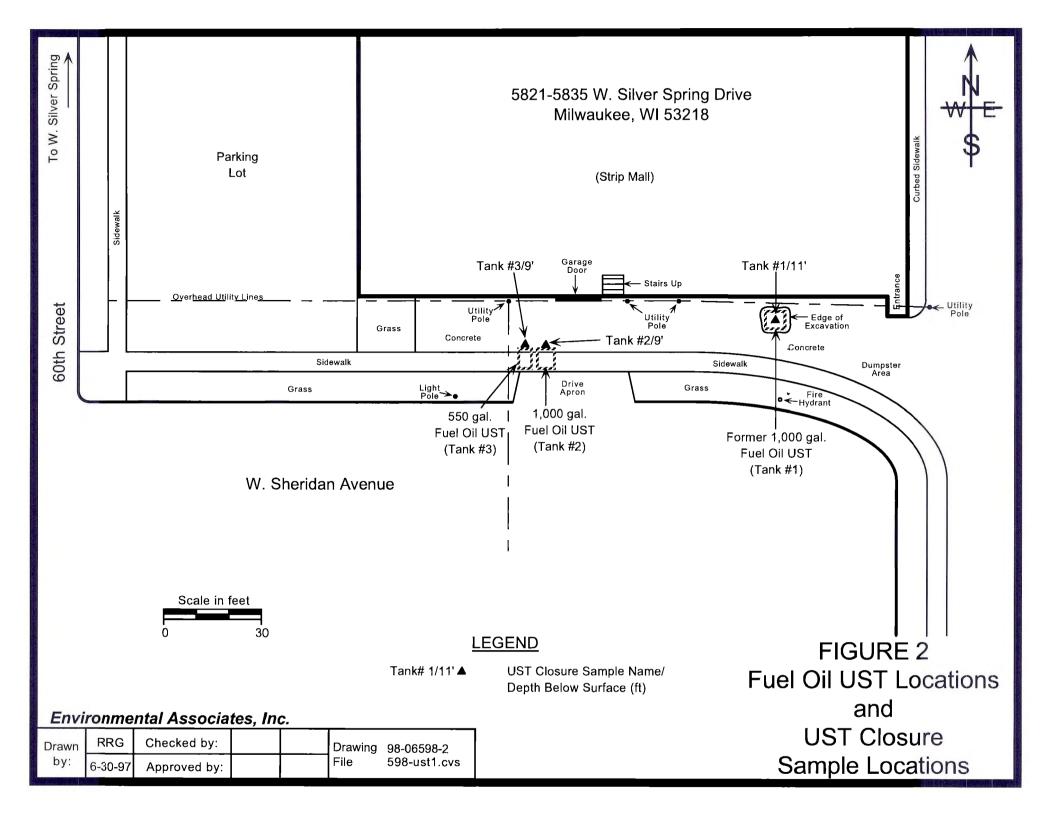
Project Engineer

JM:mas

553USTCLDOC

cc: File

Client





P.O. Box 136 Thiensville, Wisconsin 53092

OFFICE: 262.242.1088 - TOLL FREE: 800.494.4645 - FAX: 262.242.6554 - www.eaiwi.com

# RECEIVED

April 24, 2003

MAY 1 3 2003

ERS DIVISION MILWAUKEE

Victoria Stovall WDNR Southeast Region Headquarters 2300 N. Dr. Martin Luther King Jr. Drive Milwaukee, WI 53212

Re: GIS Registry Packet, Silver Terrace Shopping Center, 5821-5835 West Silver Spring

Drive, Milwaukee, Wisconsin (BRRTS #03-41-169385) (FID #241931910)

Dear Victoria Stovall:

Please find enclosed the GIS Registry Packet for the above referenced property. Also enclosed is a check made payable to WDNR Redevelopment & Remediation in the amount of \$200.00. This check is to cover the fees for soil registry of the site on the Department's GIS Registry.

If there are any questions or you require additional information, please call us at (262) 242-1088.

Sincerely,

Environmental Associates, Inc.

Jae mirandurk

Joe Michaelchuck, PE

Project Manager

Encl: GIS Registry Packet

\$200 Check Payable to WDNR

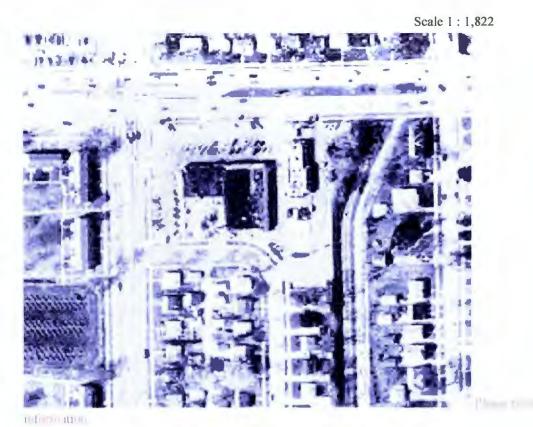
cc: File (w/ copy of check)

Client (w/ copy of check)

# Checklist of Documents for GIS Registry Packet WI DNR, Bureau for Remediation and Redevelopment, PUB-RR-688

(Include with closure request – please assemble in this order. This checklist applies to closure requests for sites with groundwater exceeding ch. NR 140 standards and/or soil contamination exceeding ch. NR 720 generic or site specific residual contaminant levels (RCLs).)

	M	One-time fee of \$250.00 for groundwater, and/or \$200 for soil, for each case closed, for maintenance of the registry.
	₩	Copies of the most recent deed including legal descriptions, for all properties within or partially within the contaminated site boundaries. (Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.)
NA		A copy of the certified surveyed map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot2 of xyz subdivision))
	Ø	Parcel identification number for each property, if the county in which the property is located uses parcel identification numbers.
	Þ	Geographic position of all properties within or partially within the contaminated site boundaries. The coordinates need to be for a spot located at least 40 feet inside the property boundary. Refer to NR 716.15(2)(d)7, and (k). The coordinates must be in WTM91 projection. See the following WDNR website address for assistance: www.dnr.state.wi.us/org/at/et/geo/gwur/index.htm.
	¥	A location map which outlines all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit the easy location of all parcels. If groundwater standards are exceeded, the map must also include the location of all municipal and petable wells within 1200 feet of the site. (If only one parcel, combine with next item.)
	净	A map of all contaminated properties within site boundaries, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. This map shall also show the location of all contaminated public streets, and 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 enforcement standards, and/or in relation to the boundaries of soil contamination exceeding generic or site-specific residual contaminant levels as determined under s NR 720.09, 720.11 and 720.19.
	卢	A table of the most recent analytical results, with sample collection dates: from all monitoring wells, and any potable wells for which samples have been collected for groundwater, and/or showing results for all contaminants found in pre-remedial sampling and in the most recent soil sampling event for soils (without shading/crosshatching).
N∄		An isoconcentration map, if required as part of the site investigation (SI), of the contaminated properties within the site boundaries. The map should include the areal extent of groundwater contamination exceeding PALs and ESs, groundwater flow directions based on the most recent data, and sample collection dates. If an isoconcentration map was not required as part of the SI, substitute a map showing the horizontal extent of contamination, based on the most recent data.
	×	A table of the previous 4 water level elevation measurements from all monitoring wells, at a minimum, with the date measurements were made, is to be included. If present, free product is to be noted on the table. In addition, a groundwater flow direction map, representative of groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, 2 groundwater flow maps showing the maximum variation in flow direction are to be submitted
	A	For sites closing with residual soil contamination, include a map showing the location of all soil samples and a single contour showing the horizontal extent of each area of continguous residual soil contamination that exceeds generic or site specific residual contaminant levels.
	×	A geologic cross section, if required as part of the SI, showing vertical extent and location of residual soil contamination exceeding generic or site specific RCLs and residual groundwater contamination, source extent and location; isoconcentrations for all groundwater contaminants that exceed PALs that remain when closure is requested; water table and piezometric elevations, and the location and elevation of geologic units, bedrock, and confining units, if any.
	対	A statement signed by the responsible party, which states that he or she believes that the legal descriptions attached to the statement are complete and accurate. (The point here is that the legal descriptions are describing the correct (i.e. contaminated) properties.)
NA		A copy of the letters sent by the RP to all owners of properties with groundwater exceeding ESs (including the current source-property owner, if the RP is not the current source-property owner.) (Off source properties are listed separately with a link to the source property.)
	×	A copy of all written notifications provided (to City/village/municipality/state agency or other responsible for maintenance) of a public street or highway or railroad right-of-way, within or partially within the boundaries of the contaminated site, for contamination exceeding groundwater ESs and/or soil exceeding generic or site specific RCLs.



△WTM coordinates: 683909, 295956

Table 4: Groundwater Elevations and Depth to Groundwater, Silver Terrace Center, 5821-5835 W. Silver Spring Drive, Milwaukee, Wisconsin

# Depth to Groundwater

Well Name	MW5	MW6	MW7	MW9
units	(feet)	(feet)	(feet)	(feet)
Date				
6/3/98	14.09	12.24	13.25	NI
6/17/98	13.20	12.63	12.90	NI
7/15/98	13.33	12.61	13.06	NI
11/16/98	,14.77	14.20	14.38	14.88
2/24/99	13.91	13.40	13.69	14.13
8/25/99	13.95	13.30	13.61	14.11
8/16/00	13.55	12.67	13.19	13.50
11/8/00	13.34	13.77	12.98	13.12
3/1/01	12.97	12.48	12.63	12.78
5/9/01	12.18	11.69	11.85	11.84
8/7/01	13.49	12.78	13.21	13.52
11/1/01	13.75	13.18	13.43	13.77

## **Groundwater Elevations**

Well Name	MW5	MW6	MW7	MW9	
units	(feet)	(feet)	(feet)	(feet)	
TOC Elevation*	688.33	687.90	687.97	688.45	
TOC Elevation**	688.33	687.89	687.96	687.89	
Date					
6/3/98	674.24	675.66	674.72	NI	
6/17/98	675.13	675.27	675.07	NI	
7/15/98	675.00	675.29	674.91	NI	
11/16/98	673.56	673.70	673.59	673.57	
2/24/99	674.42	674.50	674.28	674.32	
8/25/99	674.38	674.60	674.36	674.34	
8/16/00	674.78	675.23	674.78	674.95	
11/8/00	674.99	674.13	674.99	675.33	ı
3/1/01	675.36	675.42	675.34	675.67	ı
5/9/01	676.15	676.20	676.11	676.05	ı
8/7/01	674.84	675.11	674.75	674.37	
11/1/01	674.58	674.71	674.53	674.12	

#### Notes:

NI = Not Installed

AB = Abandoned Well

<sup>\* = 6/3/98</sup> Survey Conducted by Environmental Associates

<sup>\*\* = 5/9/01</sup> Survey Conducted by Environmental Associates

# 000112287

7894342

#### STATE BAR OF WISCONSIN FORM 3 1998 QUIT CLAIM DEED

REGISTER'S OFFICE | Milwaukee County, WII Document Number RECORDED AT 9:45 AM This Deed, made between FREDRIC M. WEIN, ANDREW 04-11-2000 ARENA, JAMES LEWENAUER, JOHN LEWENAUER and ROBERT WALTER R. BARCZAK REGISTER OF DEEDS SILVER TERRACE SHOPPING CENTER, LLP. AMOUNT 12.00 Grantee. Grantor quit claims to Grantee the following described real estate in <u>Milwaukee</u> \_\_ County, State of Wisconsin: Legal description on attached rider. Name and Return Address Richard J. Rakita 735 North Water Street, #1100 Milwaukee, WI 53202-4105 190-1701-100-9 Parcel Identification Number (PIN) This 1s not homestead property. (is) (is not) This is a confirmation pursuant to \$178.40, Wis. Stats., to give notice of existing partnership converting to a limited liability partnership (LLP). The document is not a conveyance pursuant to \$77.21(1), Wis. Stats., and is not subject to transfer return or fee. Together with all appurtenant rights, title and interests 30th day of \_ 2000 (SEAL) Lewenauer AUTHENTICATION ACKNOWLEDGMENT Signature(s) \_ State of Wisconsin, MILWAUKEE Personally came before me this \_ authenticated this \_\_\_\_ 30th \_ day of March, 2000. the above named Fredric M. Wein, John Lewenauer, Robert Lewenauer, Andrew Arena and James TITLE: MEMBER STATE BAR OF WISCONSIN me known to be the person 5 \_\_\_\_ who executed the foregoing instrument and acknowledge the same.

Thinking E. Haas authorized by §706.06, Wis. Stats.) THIS INSTRUMENT WAS DRAFTED BY

Maxine E. Haas &

Notest Public, Stafe of Wisconsin
My continussion is permanent. (If not, state expiration date:

June 25 - 2000 \,

2

OUIT CLAIM DEED

Richard J. Rakita, Attorney

(Signatures may be authenticated or acknowledged. Both are not

#### PARCEL I:

LOTS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 AND 11, IN BLOCK 1, INCLUDING ALL OF THE VACATED ALLEY LOCATED WITHIN SAID BLOCK 1, IN SILVER SPRING TERRACE, BEING A SUBDIVISION OF A PART OF THE NORTH WEST 1/4 OF SECTION 35, IN TOWNSHIP 8 NORTH, RANGE 21 EAST, IN THE CITY OF MILWAUKEE, COUNTY OF MILWAUKEE, STATE OF WISCONSIN.

#### PARCEL II:

THAT PART OF THE NORTH WEST 1/4 OF SECTION 35, IN TOWNSHIP 8 NORTH, RANGE 21 EAST, IN THE CITY OF MILWAUKEE, COUNTY OF MILWAUKEE AND STATE OF WISCONSIN, WHICH IS BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTH WEST CORNER OF SAID 1/4 SECTION; RUNNING THENCE NORTH 88°30'26" EAST ALONG THE NORTH LINE OF SAID 1/4 SECTION 330.48 FEET TO A POINT; THENCE SOUTH 00°29'45" WEST ALONG THE EAST LINE OF BLOCK 1 IN SILVER SPRING TERRACE 180.00 FEET TO THE POINT OF BEGINNING OF THE LAND TO BE DESCRIBED; RUNNING THENCE SOUTH 00°29'45" WEST ALONG THE EAST LINE OF SAID BLOCK 1 IN SILVER SPRING TERRACE 230.00 FEET TO A POINT; THENCE NORTH 88°30'26" EAST AND PARALLEL TO THE NORTH LINE OF SAID 1/4 SECTION 165.00 FEET TO A POINT; THENCE NORTH 00°29'45" EAST AND PARALLEL TO THE EAST LINE OF BLOCK 1 IN SILVER SPRING TERRACE 430.00 FEET TO A POINT; THENCE SOUTH 88°30'26" WEST AND PARALLEL TO THE NORTH LINE OF SAID 1/4 SECTION 165.00 FEET TO THE POINT OF BEGINNING.

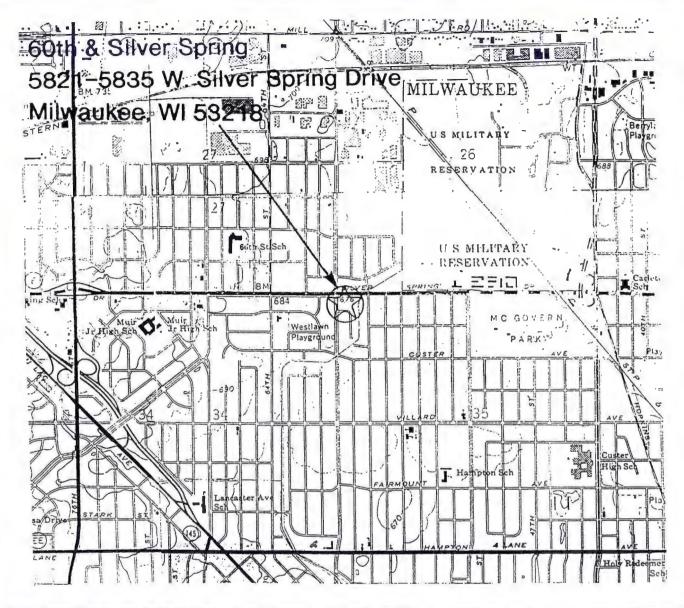
#### PARCEL III:

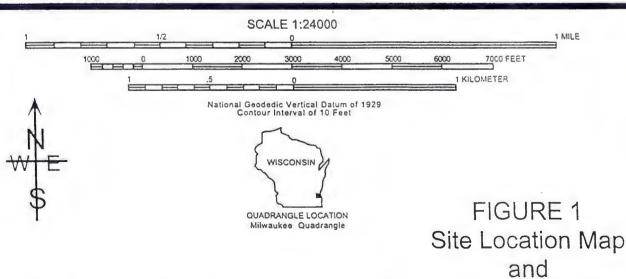
THAT PART OF THE NORTH WEST 1/4 OF SECTION 35, IN TOWNSHIP 8 NORTH, RANGE 21 EAST, IN THE CITY OF MILWAUKEE, COUNTY OF MILWAUKEE, STATE OF WISCONSIN, BOUNDED AND DESCRIBED AS FOLLOWS, 10-WIT: COMMENCING AT A POINT IN THE NORTH LINE OF SAID NORTH WEST 1/4 OF SECTION 35, 330.48 FEET EAST OF THE NORTH WEST CORNER OF SAID 1/4 SECTION, RUNNING THENCE EAST ALONG SAID NORTH LINE, 165.00 FEET TO A POINT; THENCE SOUTH 0°29'45" WEST, 180.00 FEET TO A POINT; THENCE WEST AND PARALLEL TO THE NORTH LINE OF SAID 1/4 SECTION, 165.0 FEET TO A POINT; THENCE NORTH 0°29'45" EAST, 180.00 FEET TO THE PLACE OF COMMENCEMENT, EXCEPTING THEREFROM THE NORTH 60 FEET FOR HIGHWAY PURPOSES, AND FURTHER EXCEPTING THAT PART CONVEYED TO THE SEMERAGE COMMISSION OF THE CITY OF MILWAUKEE BY DEED RECORDED JANUARY 31, 1956, IN VOLUME 3535, PAGE 303, AS DOCUMENT NO. 3464847.

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Local Topography

Environmental Associates, Inc.

Drawn	RRG	Checked by:	Drawing 97-03	540-002-1
	6-26-97	Approved by:	File	



## Analytical Laboratory 1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

WI DNR Certified Lab #445027660

JOE MICHAELCHUCK

ENVIRONMENTAL ASSOCIATES INC

PO BOX 136

THIENSVILLE WI 53092

Project #: Project:

97-03540-002 Wein Property

Sample ID:

Tank #1

Lab Code: Sample Type: Soil

5017616A

Report Date:

11-Jul-97

Sample Date: 26-Jun-97

Test	Result	LOD	LOG	Unit	-Dilution Factor	Date Analyzed:	Analyzac Ev	OC Code
TOTAL SOLIDS	82.4			%		03-Jul-97	S.Dequaîne	1
MODIFIED DRO WDNR SEP 86	< 10	1.7	5.5	MG/KG	1	10-Jul-87	D. Manominee	1

LOD = Limit of Detection

LOQ - Limit of Quantitation

## QC SUMMARY

$\alpha \alpha$	-פת
$\sim$	وضاحها

1

All laboratory QC requirements were met for this sample.



# Analytical Laboratory 1090 Kennedy Avs. Kimberly, WI 54136 414-735-8295

WI DNR Certified Lab #445027660

JOE MICHAELCHUCK

ENVIRONMENTAL ASSOCIATES INC

Authorized Signature

PO BOX 136

THIENSVILLE WI 53092

Report Date: 11-Jul-97 Project #: Project:

97-03540-002 Wein Property

Sample ID:

Tank #2

Lab Code:

5017616B

Sample Type: Soil

Sample Date: 27-Jun-97

Ţ <b>ás</b> t	Result	LOD	usura do Meild	. Unit	Dilution Factor	Date Analyzed:	Analyzad By:	Code
TOTAL SOLIDS	61.8			<b>%</b>		03-Ju <del>l-9</del> 7	S.Dequeine	1
MODIFIED DRO WDNR SEP 86	460	1.7	5.5	MG/KG	1	10-Ju⊢87	D. Menomines	1

LOD = Limit of Dotsolion

LOQ = Limit of Quantitation

# QC SUMMARY

CODE:	
1	All laboratory QC requirements were met for this sample.



Analytical Laboratory 1090 Kennedy Ave. Kimberly, Wi 54136 414-735-8285

WI DNR Certifled Lab #445027660

JOE MICHAELCHUCK

ENVIRONMENTAL ABSOCIATES INC

PO BOX 136

THIENSVILLE WI 53092

Report Date:

11-Jul-97

Project #: Project: 97-03540-002 Wein Property

Sample ID:

Tank #3

Lab Code: Sample Type: Soil

5017616C

Sample Date: 27-Jun-87

Tost	Result				Dilution Factor	Date Analyzed:	Analyzad By:	OC Code
TOTAL SOLIDS	B1.4			<b>4</b> .		03-Jul- <del>0</del> 7	S.Dequeine	1
MODIFIED DRO WDNR SEP 85	1900	34	110	MG/KG	20	10-Ju <del>l-9</del> 7	D. Menominee	1

LOD - Limit of Detaction

LOQ - Limit of Quantitation

## QC SUMMARY

CODE:
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1

All laboratory QC requirements were met for this sample.

Authorized Signature			_	
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#### Rev. Date: 2-19-96

# CHAIN OF CUSTODY RECORD

Analytical Lab

1090 Kennedy Ave. Kimberly, WI 54136
(414) 735-8295 • FAX 414-739-1738 • 800-490-4902

Chain # Nº

7764

Lab I.D. # 501 1616		AB@AOL.COM	3-1700 - 000	750 7	. J U L					
Account No.: Quote No.:						Page	e	of _1		
Project #: 97·03540 -002	Sample Integrity - To completed by receiving lab.									
Sampler: (signature)	Sample Integrity - To completed by receiving lab.  Method of Shipment:  Cooler seal intact upon receipt:  Yes No  Silver Spring Analysis Requested  Sample Handling Request  Avironmental Assort Rush Analysis									
Project (Name / Location):	< 1 . S					Analys	sis Rea	uested		
Reports To: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Silver spring	Sample Handli	na			ΙÍ		Other Ana	alysis	
Company C . A Company C . Comp	o wein	Request	''g							
Environmental Hosoz Company 10. C1	nviroumental Assoc.	Rush Analysis								
Addiess 10.001 136 Addiess 1.0.1	Box 136	Date Required	F	DRO (Mod/TPH) GRO (Mod/TPH) PVOC (EPA 8020) BTEX (EPA 8020) VOC (EPA 8021) O&G (EPA 413.1) PAH (EPA 8310) PAH						
City State Zip Thouselle, Wi City State Zip The Phone (414) 242-1088 Phone (414) Pho	iousville, wr 53002	Normal Turn A	round	3/TPI	A 80	83				
Phone (414) 242-1058 Phone (414) 24	2-1088			Mod EFI	EPA	EPA	Poir			
			vation   유	S S	žiois	AH G	lash		PID/ FID	
		Soil Other (specify)		0 4	<u>m &gt; 0</u>		<u>ц</u>		7.15	
Tank # 1624 911:45 2-6	202. jaxs		CE X							
Frank # 3 6/27/9711:45 2-6		X	/ X							
J- Tank #3 6/27/97 11:35	<u> </u>	X 4	/							
									!	
Department Use Only Con Split Samples: Offered ? Yes No	nments/ Special Instruction	s (See reverse side for i	important rem	inders	5)					
Accepted? Yes No										
Accepted By:										
	inquished By; (sign)	Time Date	Received	By: (s	ign )			Time	Date	
Disposition of unused portion of sample	Paris Stalinen	10:45 pm 7-1	1-97 Dev 1	Tel.	16.04		10:45	- 71	11/97	
Lab Should:	Mulian	5:45 7-	1-97					,		
Dispose Retain for days						-				
Doturn Other D	to Lin Laboratory Ry	TAC		Date:	7			Time:	= 45	

## CITY OF MILWAUKEE, WISCONSIN DEPARTMENT OF PUBLIC WORKS

841 N. Broadway - Rm. 507 Milwaukee, WI 53202 (414) 286-3312

# **Public Way Permit**

Permittee

TYPE OF PERMIT

ENVIRONMENTAL ASSOC. OF MILW. P.O. BOX 136 MEQUON, WI 53092 (414)242-1088-

**EXCAVATE** 

Work Location 5821 W SILVER SPRING DR

CALL 286-3435 STREET & SEWER MAINTENANCE FOR INSPECTION 48 HOURS PRIOR TO STARTING WORK

DATE
09/03/97
PLAN NO
PERMIT
EFFECTIVE DATE
09/03/97
CONTRACT NO.

REPTINT
9718-034
PERMIT
EXPIRES
90 DAYS

ABANDON UNDERGROUND STORAGE TANKS LOCATED UNDER WALK ON W SHERIDAN AVE

SEE ALL NOTES & COMMENTS ON PLAN SEE TRAFFIC RESTRICTIONS ATTACHED



APPLICANT'S SIGNATUR

AMOUNT O.00

DIVISION

EXCEPT FOR EMERGENCY EXCAVATIONS, ANY PERMIT TO EXCAVATE IS VOID IF DIGGERS HOTLINE 259-1181 IS NOT CALLED AT LEAST 3 WORKING DAYS PRIOR TO DIGGING.

(Call Traffic Engr. & Elec. Services at 286-3246 if "Temp. No Parking" Signs are Needed)

NOTIFY FIRE DEPT. DISPATCHER Anytime Road is Closed: 226-8999

COMMISSIONER OF PUBLIC WORKS

PERMIT FEE	17
INSPECTION FEE	41_
TOTAL AMOUNT DUE	58

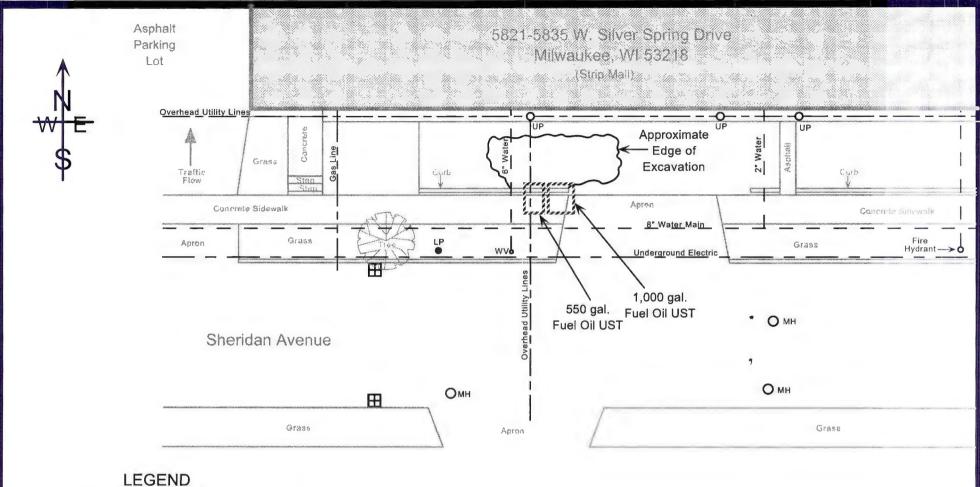
9718-0346

(SEE REVERSE SIDE)

# CITY OF MILWAUKEE - BUREAU OF FORESTRY SPECIAL REQUIREMENTS

DATE: 9-3-1997		
CONTRACTOR/UTILITY: ENVIRONMENTAL ASSOCIATES, INC.		
LOCATION(S): 5821-35 W. SILVER SPRING DE. (W. SHERIDAN AYE. SIDE)	) '	
"PROPOSED TANK REMOVAL"		
Damage to city-owned trees, shrubs, and other plant material due to permit-holder negligence or accident shall be repaired <u>only</u> by the Bureau of Forestry. The Bureau shall remove and replace any trees, shrubs, and other plant material determined to be excessively damaged. The costs of all such repairs, removals, replacements; and an amount of value lost will be the liability of the permit-holder and billed accordingly.		•
The following specific responsibilities are required of the permit-holder when marked.		
To protect the immediate portion of tree root zones, NO construction equipment or materials, sand, soil, gravel or any other materials shall be placed, parked, or stored on the surface of any unpaved areas within the driplines (outermost reach of branches) of city street trees. NO chemicals, rinsates, or petroleum products shall be deposited within the driplines of city street trees.	10KT	TREE.
Temporary protective fencing (e.g., snow fence) shall be erected to protect the tree root zones. All unpaved area within the dripline (outermost reach of branches) of each tree in the construction site shall be fenced. The fencing shall be installed prior to set-up for construction. It shall be removed after final clean-up of the site.	THAN	TREET
To preserve viable root systems and maintain structural stability, it is required that you bore or tunnel beneath the root systems of city street trees. Open-cut excavating is allowed only up to the distance from various size trees, as listed below. You must bore or tunnel from trench to trench below the minimum depth indicated for the tree size. The surfac area and subsoil directly adjacent to street trees shall not be disturbed as follows:	0.5E	CITY BY
TREE SIZE MINIMUM UNDISTURBED RADIUS MINIMUM DEPTH OF TUNNEL/BORE (diameter in inches) (measured from face of trunk)	ED	74.
less than 3"	W0776	OF A
The top four (4) feet of all excavations in the tree border (between the curb and sidewalk/property line) and in all boulevard medians shall be backfilled ONLY with clean, viable soil. NO concrete, slurry, gravel, stone, sand, or other such materials shall be used for backfill. Flush backfilled excavations to settle material. Restoration shall be to	8/ /8	FACE
original grade, unless otherwise specified.	110	ž
Cables, ducts, conduits, gas lines, and all other underground utilities installed in tree borders (between the curb and sidewalk/property line) and in all boulevard medians shal be placed so any topmost surface or part is at a minimum depth of three (3) feet.	EXCAVATION	TRUNK
Care shall be taken not to damage tree trunks and branches. The Bureau of Forestry shall be contacted at least three (3) business days prior to the set-up for any construction to discuss problems of overhanging branches which may be damaged.	10 EX	FROM
Box-out(s) shall be constructed as per City specifications.  Grate(s) shall be provided by property owner.  Guard(s) shall be provided by property owner.		4

DEPOSIT REQUIRED: \$\_



Underground Natural Gas Line Overhead Utility Lines Underground Electric Line **Underground Water Line** LP · Light Pole WVo Water Shutoff Valve UP O **Utility Pole** MH O Manhole H

Sewer Inlet Grate

Environmental Associates, Inc.

Drawn by:	RRG	Drawing:	98-06598		
	8-8-97	File:	598-ust3.cvs		



# Notes:

1. Tank locations are approximate.

FIGURE 3 60th & Silver Spring Site Layout, **Utility Locations** and **UST Locations** 

# CITY OF MILWAUKEE INFRASTRUCTURE SERVICES DIVISION TRAFFIC PROVISIONS

		TRAITIC TROV	/	
LOCATION: _	5821-5839	5 W. SIL	ver Spri	ny Dr. (Sheridan)
CONTRACTOR:	:		OTHER JURIS	EDICTION:
	WISCONSIN ELECTRIC	co.	<u> </u>	
	WISCONSIN GAS CO.	, j	•	NG OF PRIVATE
	AMERITECH	•	- VEHIC	LES PROHIBITED
文	ENVIRONMEN	MAC ASSOCI	ATES	
TYPE OF WOR	<u>u</u> :			
	CONDUIT	☐ MANHOLE		OCCUPANCY
	CABLE	☐ BORING	Ø	ABANDONING TAKKS UNDER WACK
WORKING HOURS	NON-WORKING HOURS		,	UNDER WACK
			MAINTAIN AC	CCESS
				NO-WAY TRAFFIC
				TRAFFIC LANE(S)
			MAINTAIN FOR EACH I	TRAFFIC LANE(S) DIRECTION ON THE DE OF THE ROADWAY
	П.			TRAFFIC LANE(S)
			DO NOT IMPI	EDE TRAFFIC LANES BOUND
X			MAINTAIN P	EDESTRIAN WAY
			MAY CLOSE	ROADWAY/SIDEWALK
			OPEN ENTIR	E ROADWAY TO TRAFFIC
			<del></del>	
□ NO W	ORK 7:00 TO 8:30 AM		NO WORK 3:	30 TO 5:30 PM
☐ work	COMPLETED FOR PERMI			
REMARKS	Work being	done from	n private	e property.
			•	
		· · · · · · · · · · · · · · · · · · ·		
· · · · · · · · · · · · · · · · · · ·				
SIDE	WALK(S)	PARKING LA	NE(S)	TRAFFIC LANE(S)
Traffic La	ne = 11-0" Minimum	Pedestrian	way = 4'-0"	Minimum 9-3-97
		•		

# CITY OF MILWAUKEE - BUREAU OF FORESTRY SPECIAL REQUIREMENTS

DATE: 9-3-1997	
CONTRACTOR/UTILITY: ENVIRONMENTAL ASSOCIATES, INC.	
LOCATION(S): 5821-35 W. SILVER SPRING DR. (W. SHERIDAN AVE. SIDE)	
"PROPOSED TANK REMOVAL"	
Damage to city-owned trees, shrubs, and other plant material due to permit-holder negligence or accident shall be repaired only by the Bureau of Forestry. The Bureau shall remove and replace any trees, shrubs, and other plant material determined to be excessively damaged. The costs of all such repairs, removals, replacements, and an amount of value lost will be the liability of the permit-holder and billed accordingly.	
- The following specific responsibilities are required of the permit-holder when marked.	
To protect the immediate portion of tree root zones, NO construction equipment or materials, sand, soil, gravel or any other materials shall be placed, parked, or stored on the surface of any unpaved areas within the driplines (outermost reach of branches) of city street trees. NO chemicals, rinsates, or petroleum products shall be deposited within the driplines of city street trees.	10FT. TREE.
Temporary protective fencing (e.g., snow fence) shall be erected to protect the tree root zones. All unpaved area within the dripline (outermost reach of branches) of each tree in the construction site shall be fenced. The fencing shall be installed prior to set-up for construction. It shall be removed after final clean-up of the site.	748N
To preserve viable root systems and maintain structural stability, it is required that you bore or tunnel beneath the root systems of city street trees. Open-cut excavating is allowed only up to the distance from various size trees, as listed below. You must bore or tunnel from trench to trench below the minimum depth indicated for the tree size. The surface area and subsoil directly adjacent to street trees shall not be disturbed as follows:	CLOSER CITY S
TREE SIZE MINIMUM UNDISTURBED RADIUS MINIMUM DEPTH OF TUNNEL/BORE (diameter in inches) (measured from face of trunk)	FD
less than 3"	4610W
sidewalk/property line) and in all boulevard medians shall be backfilled ONLY with clean, viable soil. NO concrete, slurry, gravel, stone, sand, or other such materials shall be used	10N 18
Cables, ducts, conduits, gas lines, and all other underground utilities installed in tree borders (between the curb and sidewalk/property line) and in all boulevard medians shall be placed so any topmost surface or part is at a minimum depth of three (3) feet.	CAVATION
Care shall be taken not to damage tree trunks and branches. The Bureau of Forestry shall be contacted at least three (3) business days prior to the set-up for any construction to discuss problems of overhanging branches which may be damaged.	NO EX EROM
Box-out(s) shall be constructed as per City specifications.  Grate(s) shall be provided by property owner.  Guard(s) shall be provided by property owner.	- <b>U</b>

DEPOSIT REQUIRED: \$



October 15, 2003

RECEIVEL

OCT 17 26.

Mr. Lee Delcore Wisconsin Department of Commerce 101 W Pleasant Street, Suite 100A Milwaukee WI 53212-3963

**ERS DIVISION** 

Monitoring Well Abandonment Condition for Case Closure of Silver Terrace Strip Mall, Re:

5821-5835 W. Silver Spring Drive, Milwaukee (WDNR BRRTS #03-41-169385)

(COMM #53218-3269-35)

Dear Mr. Delcore:

This letter is written at your request to document our telephone conversation last week regarding conditional closure of the above referenced case. On June 12, 2003, our Client, Mr. Fred Wein, received a conditional closure letter for WDNR BRRTS #03-41-169385. This case file was related to three fuel oil USTs that were removed from the property in 1997. Closure of this case is conditional upon the abandonment of three monitoring wells that were installed in the vicinity of these fuel oil tank beds (MW5, MW6 and MW7).

As we discussed last week, these wells are currently being used to monitor chlorinated solvent contamination related to a former dry cleaning operation under a separate WDNR activity number (BRRTS #02-41-191377). Therefore, we respectfully request that these wells not be required to be abandoned at this time. The groundwater monitoring that is being conducted is part of a remedial action plan that was approved by DNR in May of 2003.

If you have any questions, or need any additional information, please contact us at 262-242-1088.

Sincerely,

Environmental Associates, Inc.

Jac miraldwck

Joe Michaelchuck, P.E.

Senior Engineer

Fred Wein - Silver Terrace Shopping Center, LLP cc:

Dennis Fisher - Meissner, Tierney, Fisher and Nichols, S.C.

Greg Michael - COMM

COMM Correspondence dated June 12, 2003 Enc:

101 West Pleasant Street, Suite 100A Milwaukee, Wisconsin 53212-3963

> TDD #: (608) 264-8777 Fax #: (414) 220-5374

http://www.commerce.state.wi.us http://www.wisconsin.gov

Jim Doyle, Governor Cory L. Nettles, Secretary



June 12, 2003



ENVIRONMENTAL ASSOCIATES, INC.

Mr. Fredric Wein PO Box 17396 Milwaukee, WI 53217

RE:

**Conditional Case Closure** 

Commerce # 53218-3269-35 WDNR BRRTS # 03-41-169385 Silver Terrace Strip Mall, 5821-5835 W. Silver Spring Dr., Milwaukee

Three fuel oil underground storage tanks removed/abandoned June 1997

Dear Mr. Wein:

The Wisconsin Department of Commerce (Commerce) has reviewed the request for case closure prepared by your consultant, Environmental Associates, Inc. It is understood that residual soil 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 condition must be satisfied to obtain final closure:

 All monitoring wells must be properly abandoned and the appropriate documentation forwarded to me at the letterhead address.

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 (414) 220-5375.

Sincerely.

Greg Michael
Hydrogeologist
Site Review Section

CC

Environmental Associates, Inc. Case File

ERS-5524-E (R. 4/98)





P.O. Box 136 Thiensville, Wisconsin 53092

OFFICE: 262.242.1088 - TOLL FREE: 800.494.4645 - FAX: 262.242.6554 - www.ediwi.com

April 24, 2003

Site Reviewer Wisconsin Department of Commerce Environmental & Regulatory Services 101 West Pleasant Street—Suite 205 Milwaukee, WI 53212 APR 29 2003

ERS DIVISION MILWAUKEE

Re:

Request for Closure, Silver Terrace Shopping Center (Fuel Oil Tanks), 5821-5835 West Silver Spring Drive, Milwaukee, Wisconsin (BRRTS #03-41-169385) (FID #241931910)

#### Dear Site Reviewer:

The purpose of this correspondence is to provide the Wisconsin Department of Commerce (COMM) a reporting of the tank closure assessment and site investigation, and to request closure of this site with respect to fuel oil contamination at the Silver Terrace Shopping Center (Figure 1, Attachment B). It should be noted that this site is also the location of a chlorinated solvent release that is being investigated/remediated under a separate BRRTs number (02-41-191377). Investigation results reveal solvent and fuel oil contamination are not commingled at the site; therefore, it is the opinion of Environmental Associates that COMM has jurisdiction for this release.

At the request of Mr. Fred Wein, Environmental Associates notified the Wisconsin Department of Natural Resources (WDNR) of a fuel oil release at this site on August 6, 1997. The WDNR subsequently notified Mr. Wein of his responsibility to assess the extent of contamination and select and implement the most appropriate remedial action. A copy of this WDNR correspondence is included in Attachment A.

# **Tank Closure Assessment Results**

On June 26, 1997 A-1 Tank Removal (A-1) of Menomonee Falls, Wisconsin removed one (1) 1,000 gallon fuel oil UST (Tank #1) from the site. On June 27, 1997, A-1 returned to the site and abandoned the two remaining 1,000-gallon (Tank #2) and 550-gallon (Tank #3) fuel oil USTs in place when it was discovered the tanks extended beneath the City of Milwaukee sidewalk and could not be removed without damaging the sidewalk. The locations of the former fuel oil tanks are indicated on Figure 2, Attachment B.

Prior to tank removal activities, A-1 Tank subcontracted National Tank Service of Wisconsin of West Allis, Wisconsin (National Tank) to remove any liquids contained within the tanks. Environmental Associates was contracted by Mr. Fred Wein to observe and document UST removal/abandonment activities and evaluate local soil quality conditions.

# **UST System Construction**

All three UST's (Tanks 1, 2 and 3) were found to be similarly constructed of ¼ inch welded plate steel and were observed to be in poor condition with heavy corrosion and pitting. A ½-inch hole was observed near the base of Tank #1 at the time of removal. Product supply and vent piping from all three tanks was found to be constructed of heavily corroded ½ inch bare steel. All piping was physically removed from the property during UST closure activities. A total of 300 gallons of fuel oil and 1,925 gallons of water were pumped out of the three tanks during tank closure activities. Disposal manifests for the waste fuel oil and contaminated water removed from the tank systems are included in Attachment E.

# Soil Sampling Methods and Results

During tank removal/abandonment activities, Environmental Associates carefully examined in place and excavated soil for the presence of discharged petroleum product. Representative samples were subjected to PID headspace analyses to identify the presence of VOC's such as those related with petroleum product. The locations where soil samples were collected during the tank closure assessment are presented on Figure 2 (Attachment B).

Soil screening was performed using a Thermo Environmental Instruments Model 580 B Organic Vapor Monitor (OVM) calibrated with 0.0 ppm ambient air and 250 ppm Isobutylene span gas. During soil sample collection, a portion of each sample was transferred into a clean, resealable sample container and allowed to equilibrate in a warm location (i.e. 60° F to 70° F) for approximately 20 to 30 minutes. After stabilization, the PID probe extension was inserted into the container seal and the highest stable PID reading occurring within 10 to 20 sections was recorded. Odor and appearance of the soil samples were also noted during field screening efforts.

Native soils adjacent to Tanks #1, #2 and #3 consisted of silty clay soil. A small amount of what was believed to be perched groundwater was observed within the Tank #1 excavation area at a depth of approximately 9 feet below grade. Environmental Associates personnel observed petroleum contaminated backfill material only within the tank beds of Tanks #1, #2 and #3. No free product was observed during the assessment.

One soil sample was collected at the center of the Tank #1 excavation to document if soil quality had been contaminated by a fuel oil release. Soil sample "Tank 1" was collected within native soil at a depth of 18 inches beneath the former tank bed and submitted to U.S. Oil Co., Inc. Analytical Laboratory (U.S. Analytical) of Kimberly, Wisconsin for analysis of DRO. After completion of soil inspection activities, the Tank #1 excavation area was backfilled and brought to surface grade. Laboratory analytical results revealed no DRO in soil collected at this location (to within laboratory method of detection limits). Soil analytical results from tank closure activities are summarized on Table 1 (Attachment C). The full laboratory analytical report is presented in Attachment D.

As Tank #2 and Tank #3 were not removed from the site, but were cleaned and abandoned in place, soil samples were collected near the north ends of these tanks. Samples were collected within native soil at a depth of approximately 18 inches beneath the north end of the base of each tank and submitted to U.S. Analytical for analysis of DRO. After completion of soil inspection activities, the tanks were abandoned in compliance with COMM 10 and areas around each tank were backfilled to match existing grade. Analytical results indicated soil contained 1,900 mg/kg DRO beneath Tank #3 and 460 mg/kg DRO beneath Tank #2. Soil analytical results from tank closure activities are summarized on Table 1 (Attachment C). The full laboratory analytical report is presented in Attachment D.

Tank closure checklists (WDILHR Form SBD-8951), underground petroleum product tank inventory forms (WDILHR Form SBD 7437) and tank waste disposal manifests are included in Attachment E of this report.

# Site Investigation Results

On June 3, 1998, Environmental Associates advanced three monitoring wells, MW-5, MW-6, and MW-7, in the vicinity of the tank locations (Figure 3, Attachment B). Environmental Associates returned to the site on November 3, 1998 and installed downgradient monitoring well MW-9.

# Site Investigation Soil Sampling Methods and Results

Soil samples were collected during the installation of monitoring wells MW-5, MW-6 and MW-7 from ground surface to borehole completion depth. All samples were collected using hollow stem augers and standard split spoon sampling techniques in accordance with American Society for Testing and Materials (ASTM) Procedure D, 1586 ("Penetration Test and Split Barrel Sampling of Soils"). Downhole soil sampling equipment was washed with trisodium phosphate soap and double rinsed with potable water between subsequent samples.

Borehole logs were completed by Environmental Associates personnel in general conformance with ASTM Method 2488. The logs include information on soil type, gradation, plasticity, color, moisture content, estimated group symbol and genetic origin. Soil boring log information forms (Soil Boring Log Information Form 4400-122) are presented in Attachment F.

Soil samples collected for laboratory analysis were immediately placed in a clean, dry glass jar lined with a teflon lined lid, and preserved for laboratory analysis. Soil samples collected for laboratory analysis were submitted under chain of custody to U.S. Analytical Laboratory (WDNR Certification No. 445027660) for analysis of VOC and/or DRO.

Laboratory analytical results for soil samples collected from boreholes MW-5, MW-6, MW-7 and MW-9 during the site investigation are summarized on Table 2, Attachment C. As indicated

on Table 3, no fuel oil contamination was detected in soil collected from these boreholes. The laboratory analytical reports for these samples are presented in Attachment G.

# Site Investigation Groundwater Monitoring Methods and Results

Environmental Associates has conducted ten groundwater monitoring events since tank closure activities in the summer of 1997. Based on the results of groundwater monitoring in the vicinity of the former tanks (MW-5, MW-6, MW-7 and MW-9), groundwater has not been contaminated by the observed fuel oil releases. The only fuel oil related compound detected in groundwater at the site occurred in monitoring well MW-7 on November 16, 1998, where naphthalene was detected at 1.2 ug/L. However, because this result is below the laboratory limit of quantitation, it is not statistically verifiable and is, therefore, considered "suspect". Furthermore, this result is well below the preventive action limit (PAL) for naphthalene, which is 40 ug/L. Groundwater monitoring results are summarized on Table 3, Attachment C. Copies of the full laboratory analytical reports including chain of custody documentation for these samples have been submitted to the WDNR under a separate activity number for this site (WNDR Activity No. 02-41-191377).

### **Conclusions and Recommendations**

Contamination associated with the former Tank #1 UST system was found to be limited to the backfill materials within the excavation area at the time the tank was removed. Analytical results from soil collected within native soil beneath the tank bed confirmed that fuel oil contamination had not migrated vertically beneath the former tank beds.

Field observations during tank removal/abandonment activities indicated soil beneath the north ends of Tank #2 and Tank #3 had been contaminated by an apparent fuel oil release. However, the results of the site investigation indicated residual soil contamination in the vicinity of Tank #2 and #3 had not migrated vertically, and has not impacted groundwater at the site. Depth to groundwater measurements are presented on Table 4, Attachment C.

Environmental Associates has conducted ten rounds of groundwater monitoring since tank closure assessment activities in the summer of 1997. Based on the results of groundwater monitoring in the vicinity of the former tanks (MW5, MW6, MW7 and MW-9), there is no fuel oil contamination in groundwater at the site. The only fuel oil related compound detected in groundwater on the southern portion of the property was naphthalene, which was detected at a concentration below the laboratory limit of quantitation (1.2 ug/l) on November 2, 1998. Naphthalene was not detected in any of the site monitoring wells during previous any of the previous or subsequent sampling events.

Based on field observations during tank closure assessment activities and the results of groundwater monitoring in the vicinity of the former fuel oil tanks, Environmental Associates recommend no further action with respect to fuel oil contamination at the property.

Environmental Associates, Inc. (Environmental Associates) appreciates this opportunity to provide environmental consultation, and looks forward to working with you throughout the duration of this project. This report is rendered solely for the benefit of Silver Terrace Shopping Center LLP and Mr. Fred Wein, and is limited to the scope of services described herein. This report is not to be copied, quoted, filed with any governmental authority or third party, or used for any other purpose without Environmental Associates expressed written consent. Additionally, the results of this study are based upon the professional interpretation of the information made available and/or provided to Environmental Associates. Environmental Associates has assumed that the information provided by others is correct and complete.

The observations of the quality of samples collected are specific to the physical location and time of sample collection; consequently, sample quality may vary given the passage of time and/or alternate sample location(s).

We hope this information meets your needs. If you have any questions or require additional information or clarification, please call us at your convenience at (414) 242-1088. Environmental Associates has appreciated working with you on this very important project.

Sincerely,

Environmental Associates, Inc.

Rebecca Rewey, E.I.T.

Roleson Reux

Staff Engineer

Joe Michaelchuck, P.E.

Senior Engineer

COMM Site Assessor Cert. No. 46996

cc: File

Fred Wein – Silver Terrace Shopping Center LLP Dennis Fisher – Meissner Tierney Fisher & Nichols



# State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary Gloria L. McCutcheon, Regional Director Southeast Region Annex 4041 N. Richards Street, Box 12436 Milwaukee, WI 53212-0436 TELEPHONE 414-229-0800 FAX 414-229-0810

August 27, 1997

FRED & SARA WEIN BOX 17396 MILWAUKEE WI 53217 AUG 2 9 1997

BRRTS#: 03-41-169385 Facility ID#: 241931910 BRR/LUST

SUBJECT: Reported Contamination at 5821-5835 W. Silver Spring Dr., Milwaukee

To speed processing, correspondence should reference BRRTS & FID numbers at top of letter.

Dear Mr. & Ms. Wein:

On 8-6-97 Joe Michaelchuck of Environmental Associates informed the Department that fuel oil which leaked from underground storage tanks caused soil contamination and potential groundwater contamination at the subject address.

Based on the information submitted to the Wisconsin Department of Natural Resources (WDNR), we believe you are responsible for restoring the environment at the referenced site under Section 292, Wisconsin Stats., known as the hazardous substances spills law. Utilizing information submitted to the Department, this case has been assigned an unknown ranking due to the lack of information concerning soil and groundwater contamination.

### WDNR Southeast Region Prioritization and Scoring Policy

Due to the WDNR workload, it is necessary to rank all contamination cases for review priority. Lower priority cases do not have assigned project managers, however, responsible parties are required to proceed with investigation and clean-up efforts. Until a priority has been assigned to this site, you should proceed with the required response work, submitting all plans and reports, along with status reports, to this office. The WDNR will notify you if your site will receive active oversight.

Your responsibilities include investigating the extent of the contamination and then selecting and implementing the most appropriate remedial action. Enclosed is information to help you understand what you need to do to ensure your compliance with the spills law.

The purpose of this letter is threefold: 1) to describe your legal responsibilities, 2) to explain what you need to do to investigate and clean up the contamination, and 3) to provide you with information about cleanups, environmental consultants, possible financial assistance, and working cooperatively with the Department of Natural Resources.

#### Legal Responsibilities:

Your legal responsibilities are defined both in statute and in administrative codes. The hazardous



substances spill law, Section 292.11 (3) Wisconsin Statutes, states:

\* RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Wisconsin Administrative Codes chapters NR 700 through NR 728 establish requirements for emergency and interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Chapter NR 708 includes provisions for immediate actions in response to limited contamination. Wisconsin Administrative Code chapter NR 140 establishes groundwater standards for contaminants that reach groundwater.

#### Steps to Take:

The longer contamination is left in the environment the farther it can spread and the more it may cost to clean up. Quick action may lessen damage to your property and neighboring properties and reduce your costs in investigating and cleaning up the contamination. To ensure that your cleanup complies with Wisconsin's laws and administrative codes, you should hire a professional environmental consultant who understands what needs to be done. These are the first four steps to take:

- 1. By 10-10-97, please submit <u>written</u> verification (such as a letter from the consultant) that you have hired an environmental consultant. You will need to work quickly to meet this timeline.
- 2. By 11-21-97, your consultant must submit a workplan and schedule for the investigation. The consultant must follow the DNR administrative codes and technical guidance documents. Please include with your workplan a copy of any previous information that has been completed (such as an underground tank removal report or a preliminary excavation report).
- 3. Please inform DNR of what is being done at your site. Submittal requirement timelines depend on the contaminants at the site. As described in Chap. NR 700.11, if the site meets criteria for a "simple site", progress reports must be submitted semi-annually, beginning 6 months from the initial notification date. If the site meets criteria for a "complex site", the site investigation report and a draft remedial options report must be submitted to DNR within 30 days of completion of both reports. Your consultant must clearly document the extent and degree of soil and groundwater contamination and submit a proposal for cleaning it up.
- 4. For complex sites, per chapter NR 724.13(3), you or your consultant must provide a <u>brief</u> report at least every 90 days, starting after the remediation system begins operation. The reports should summarize the work completed since the last report. Quarterly reports need only include one or two pages of text, plus any relevant maps and tables. However, should conditions at your site warrant, we may require more frequent contacts with the Department.

Due to the number of contaminated sites and our staffing levels in DNR's Southeast Region, we will be unable to provide workplan approvals for investigations or remedial actions. To maintain your compliance with the spills law and chs. NR 700 through NR 728, do not delay the investigation and cleanup of your site by waiting for DNR response. We have provided detailed technical guidance to environmental consultants. Your consultant is expected to know our technical procedures and administrative codes and should be able to answer your questions on meeting cleanup requirements.

Your correspondence and reports regarding this site should be sent to:

Michael Farley, BRR Program Assistant Wisconsin Department of Natural Resources Box 12436 4041 N Richards St Milwaukee WI 53212

Unless otherwise requested, please send only one copy of plans and reports. To speed processing, correspondence should reference the BRRTS and FID numbers shown at the top of this letter.

### Information for Site Owners:

Enclosed is a list of environmental consultants and some tips on selecting one. If you are eligible for reimbursement of costs under Wisconsin's PECFA program (see last paragraph) you will need to compare at least three consultants' proposals before hiring a consultant. Consultants and laboratories working in the PECFA program are required to carry errors and omissions insurance to help protect you against unsuitable work. Also enclosed are materials on controlling costs, understanding the cleanup process, and choosing a site cleanup method. Please read this information carefully.

If you are interested in obtaining the protection of limited liability under s. 292, Stats., please call 1-800-367-6076 in DNR's Madison office for more information. The liability exemption under s. 292 Stats., is available to persons who meet the definition of "purchaser" in s. 292 and receive DNR approval for the response actions taken at the property undergoing cleanup. DNR will determine eligibility for this program on a case-by-case basis, prior to the "purchaser" developing a scope of work for conducting a ch. NR 716 site investigation.

#### Financial Information:

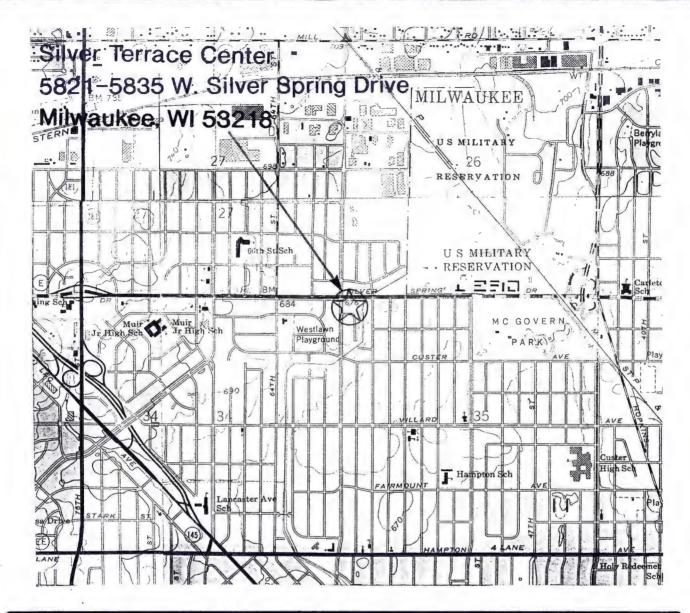
Reimbursement from the Petroleum Environmental Cleanup Fund (PECFA) is available for the costs of cleaning up contamination from eligible petroleum storage tanks. The fund is administered by the Department of Industry, Labor, and Human Relations (DILHR). Please contact DILHR at (608) 266-2424 for more information on eligibility and regulations for this program.

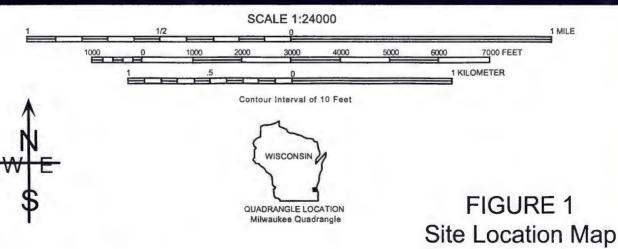
Thank you for your cooperation.

Sincerely,

Michael G. Farley Program Assistant 414-229-0808

cc: Joe Michaelchuck, EA





Environmental Associates, Inc.

File:

Drawing:

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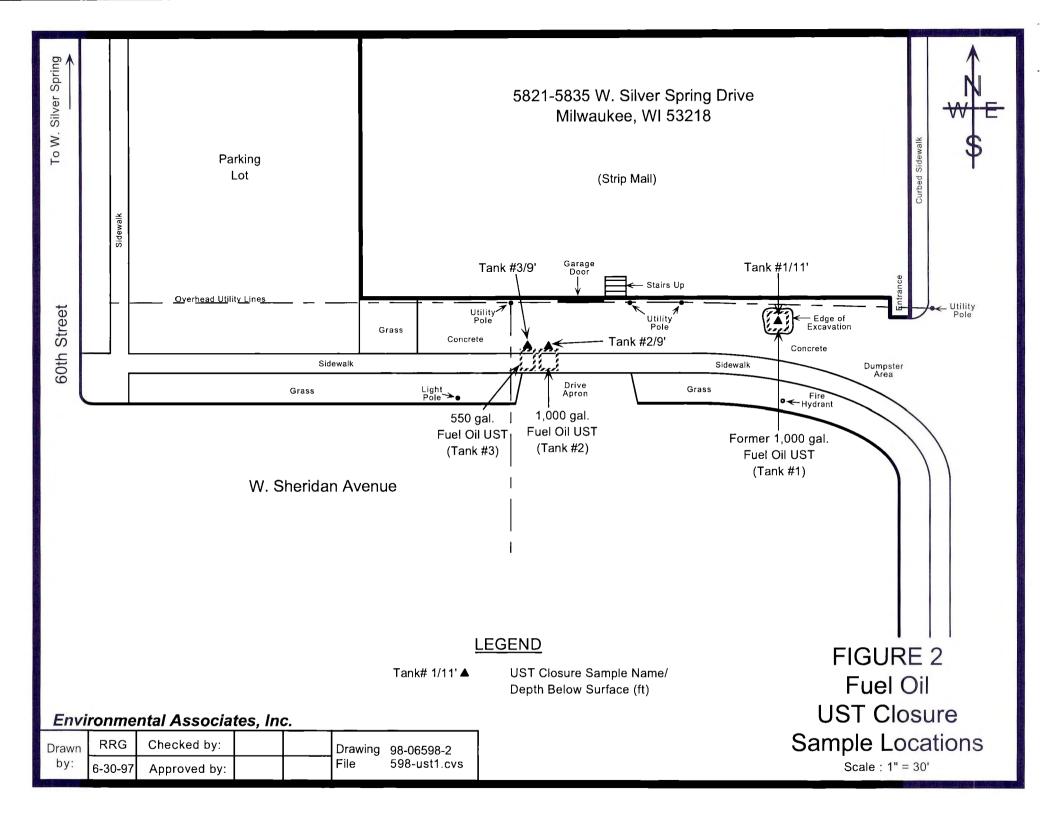
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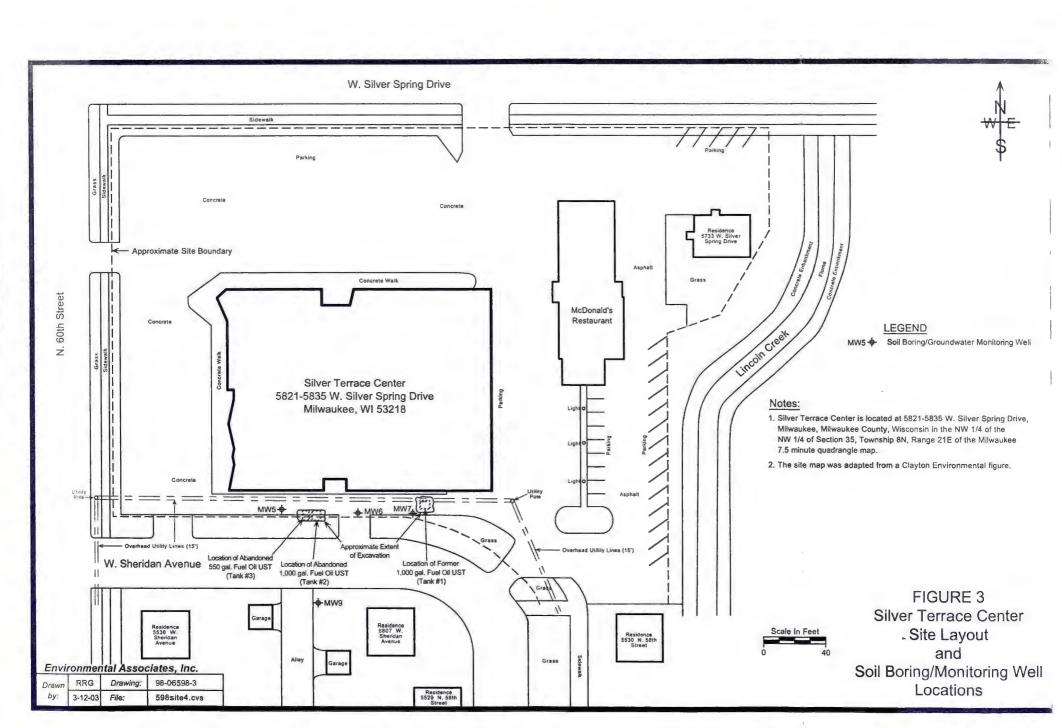
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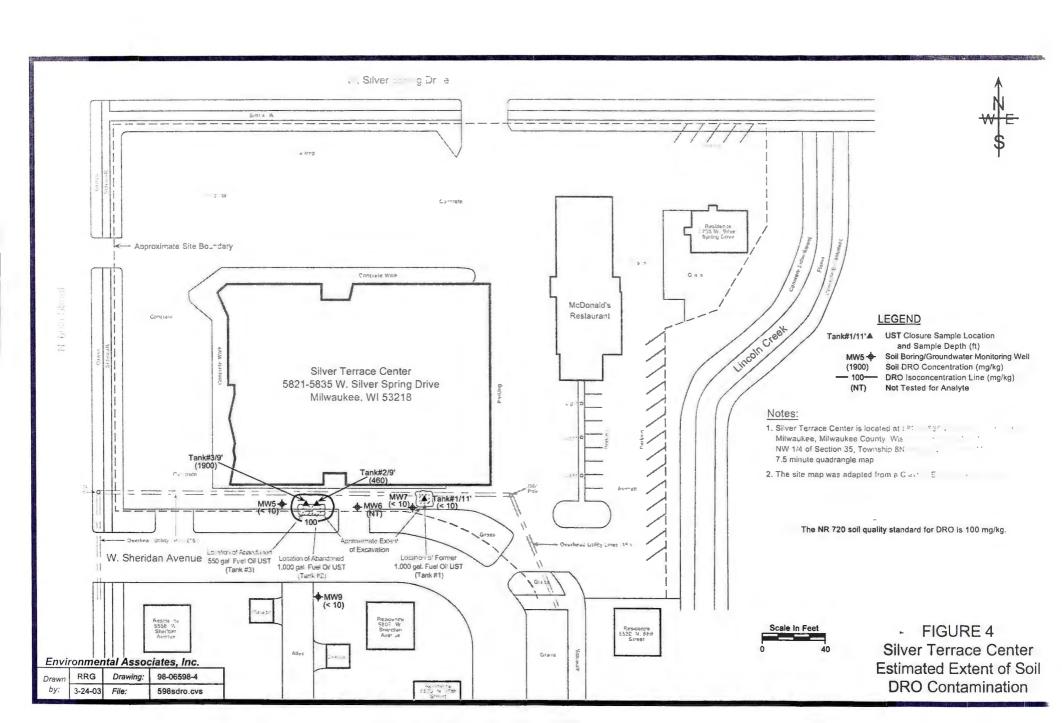
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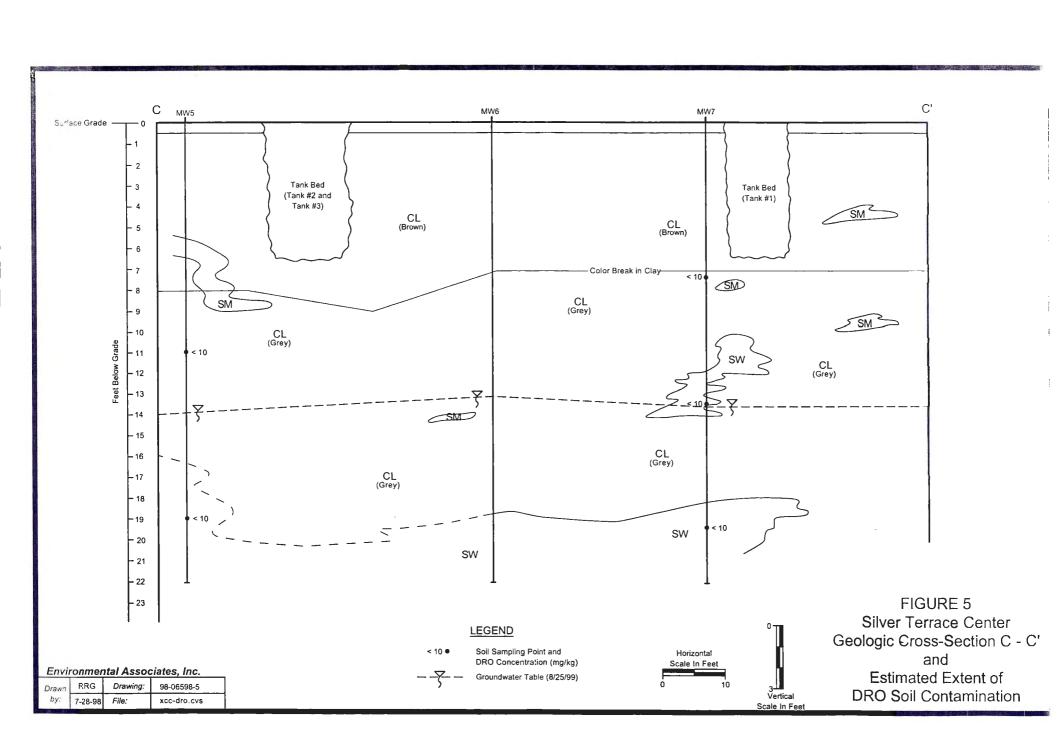
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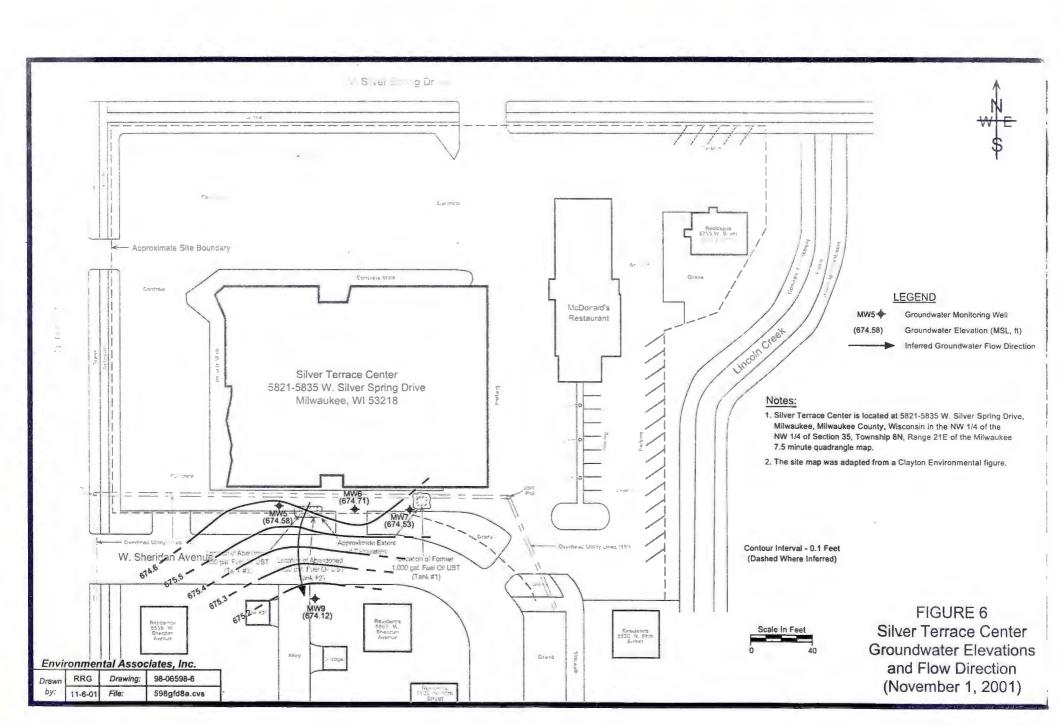


Table 1: Summary of Soil Quality Analytical Results, Fuel Oil Tank Closure Assessment, Silver Terrace Center, 5821-5835 West Silver Spring Drive, Milwaukee, Wisconsin

Sample Location Sample Name Sampling Interval in Feet Soil Type Sample Collection Date	720.09 Generic Soil Standards	Tank #1 Tank #1 11' CL 6/26/97	Tank #2 Tank #2 9' CL 6/27/97	Tank #3 Tank #3 9' CL 6/27/97
Environmental Associates Results	was an are sure worthing some in their	e with a material and a substitution of the second	and the second of the second o	
WDNR Modified TPH: Diesel Range Organics (DRO) mg/kg	100	<10	460	1,900
Total Solids %		82.4	81.8	81.4
Photo-Ionization Detector (PID) ppm i.u.	- Company of the Comp	53	78	29

PID = Photo-ionization Detector

mg/kg = Milligrams per kilogram

ppm = Parts per Million

i.u. = instrument units

"J" Flag = Analyte Detected Between Laboratory Limit of Detection and Limit of Quantitation

-- = Not Analyzed or No Established WAC NR 720.09 Soil Cleanup Standard

Table 2: Summary of Site Investigation Soil Quality Results, Silver Terrace Center, 5821-5835 West Silver Spring Drive, Milwaukee, Wisconsin

Sample Location		WAC NR	MV	V-5	MY	W-6		MW-7	
Sample Name		720.09	MW-5(10-12)	MW-5(18-20)	MW-6(12-14)	MW-6(18-20)	MW-7(6-8)	MW-7(12-14)	MW-7(18-20)
Sampling Interval in Feet		Soil	10-12'	18-20'	12-14'	18-20'	6-8'	12-14'	18-20'
Sample Collection Date	units	Standards	6/3/98	6/3/98	6/3/98	6/3/98	6/3/98	6/3/98	6/3/98
WDNR Modified TPH:									
Diesel Range Organics (DRO)	mg/kg	100	<10	<10	NT	NT	<10	<10	~ 10
Total Solids	%	<b>~</b>	88.7	82.1	 i		82.7	83.9	83.2
Selected Petroleum Volatile									
Organic Compounds (VOC):									
Toluene	ug/kg	1,500	<25	<25	<25	<25	<25	<25	<25
	5 5	,							
Xylenes	ug/kg	4,100	<75	<75	<75	<75	<75	<75	<75
Total Trimethylbenzenes	na/ka		<50	<50	<50	<50	<50	<50	<50
1 total 17 illetilyibenzenes	ug/kg			<50	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>\</b> 30	<b>\</b> 30	<b>\</b> 30	<b>\30</b>
Naphthalene	ug/kg		<25	<25	<25	<25	<25	<25	<25
Selected Solvent Volatile									
Organic Compounds (VOC):									
Vinyl Chloride	ug/kg		<25	<25	<25	<25	<25	<25	<25
	_			_	_				
cis-1,2 Dichloroethene	ug/kg		<25	<25	<25	<25	<25	<25	<25
Trichloroethene	ug/kg		<25	<25	<25	<25	<25	<25	<25
	-5"5		1	-3		.23	-23	-2-/	-22
Tetrachloroethenc	ug/kg		<25	<25	<25	<25	<25	<25	<25
Flows Ionization Detector (FID)				0			3.5	0	0
Flame-Ionization Detector (FID)	i.u.		0	0	0	0	2.5	0	()

TPH = Total Petroleum Hydrocarbons mg/kg = Milligrams per Kilogram

i.u. = Instrument Units

-- = Not Analyzed or No Established WAC NR 720.09 Soil Cleanup Standard

ug/kg = Micrograms per Kilogram

\*\* = Combined Total Xylene Standard

Table 2: Summary of Site Investigation Soil Quality Results, Silver Terrace Center, 5821-5835 West Silver Spring Drive, Milwaukee, Wisconsin

Sample Location		WAC NR		MV	V-9		
Sample Name	_	720.09	MW-9(5-7)	MW-9(13-15)	MW-9(15-17)	MW-9(17-19)	TRIP
Sampling Interval in Feet		Soil	5-7'	13-15'	15-17'	17-19'	
Sample Collection Date	units	Standards	11/3/98	11/3/98	11/3/98	11/3/98	6/3/98
WIDNID Madicad TDIL							
WDNR Modified TPH: Diesel Range Organics (DRO)	mg/kg	100		<10		<10	
Diesel Range Of gantes (DRO)	mg/kg	100		10		10	
Total Solids	%			87.6		87.6	
Selected Petroleum Volatile							
Organic Compounds (VOC):							
Toluene	ug/kg	1,500	<25	<25		<25	<25
		!					
Xylenes	ug/kg	4,100	<75	<75	<75	<75	<75
Ayienes	ug/kg	4,100		<13	<73	~73	<b>\</b> 73
	:						
Total Trimethylbenzenes	ug/kg		<50	<50	< 50	<50	<50
  Naphthalene	ug/kg		<25	<25	<25	<25	<25
		!					
Selected Solvent Volatile							
Organic Compounds (VOC):						ĺ	
Vinyl Chloride	ug/kg		<25	<25		<25	<25
cis-1,2 Dichloroethene	ug/kg		<25	<25		140	<25
eis-t, a Dientor betnene	ug/kg		-23	-25		140	~23
	ļ						
Trichloroethene	ug/kg		<25	<25		47	<25
100							
Tetrachloroethene	ug/kg		<25	<25		<25	<25
			_	_		ļ	İ
Flame-Ionization Detector (FID)	i.u.		0	0	0	0	

TPH = Total Petroleum Hydrocarbons

i.u. = Instrument Units

mg/kg = Milligrams per Kilogram ug/kg = Micrograms per Kilogram -= Not Analyzed or No Established WAC NR 720.09 Soil Cleanup Standard

Table 3: Summary of Groundwater Quality Results, Silver Terrace Center, 821-5835 W. Silver Spring Drive, Milwaukee, Wisconsin

Parameter	Units	ES	PAL	Date	MW-5	MW-6	MW-7	MW-9
Detected Petroleum (VOC) Analytes:								
Toluene	ug/L	1.000	200	6/17/98 11/16/98 2/25/99	<0.38 <0.38 <0.38	<0.38 <0.38 <0.38	<0.38 <0.38 <0.38	NI <0.38 <0.38
				8/25/99 8/16/00 11/8/00 3/1/01	<0.38 NS NS NS	<0.38 0.22 <0.10 <0.10	<0.38 NS NS <0.10	<0.38 0.22 <0.10 <0.10
				5/9/01 8/7/01 11/1/01	NS NS <0.10	<0.10 <0.10 <0.10	<0.10 <0.10 NS	<0.10 <0.39 <0.10
Total Xylenes (m/p-Xylenes + o-Xylene)	ug/L	10.000	1,000	6/17/98 11/16/98 2/25/99 8/25/99 8/16/00	<1.04 <1.04 <1.04 <1.04 NS	<1.04 <1.04 <1.04 <1.04 <0.25	<1.04 <1.04 <1.04 <1.04 NS	NI <1.04 <1.04 <1.04 <0.25
				11/8/00 3/1/01 5/9/01 8/7/01 11/1/01	NS NS NS NS <0.25	<0.25 <0.25 <0.25 <0.25 <0.25	NS <0.25 <0.25 <0.25 NS	<0.25 <0.25 <0.25 <1.1 <0.25
Total Trimethylbenzenes (1,2,4-TMB + 1,3,5-TMB)	ug/L	480	96	6/17/98 11/16/98 2/25/99 8/25/99 8/16/00 11/8/00 3/1/01 5/9/01 8/7/01 11/1/01	<0.70 <0.70 <0.70 <0.70 NS NS NS NS NS NS	<0.70 <0.70 <0.70 <0.70 <0.20 <0.20 <0.20 <0.20 <0.20 <0.20 <0.20	<0.70 <0.70 <0.70 <0.70 NS NS <0.20 <0.20 <0.20 NS	NI <0.70 <0.70 <0.70 <0.20 <0.20 <0.20 <0.20 <0.20 <0.20 <0.20 <0.20 <0.20 <0.20 <0.20 <0.20 <0.20 <0.65 <0.20
See Attached Footnotes Naphthalene	ug/L	40	8	6/17/98 11/16/98 2/25/99 8/25/99 8/16/00 11/8/00 3/1/01 5/9/01 8/7/01 11/1/01	<0.73 <0.73 <0.73 <0.73 NS NS NS NS NS NS	<0.73 <0.73 <0.73 <0.73 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25	<0.73 1.2 <7.3 <0.73 NS NS <0.25 <0.25 <0.25 NS	NI <0.73 <0.73 <0.73 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.25 <0.

ES = WAC NR 140.10 Table 1 Groundwater Quality Enforcement Standard
PAL = WAC NR 140.10 Table 1 Groundwater Quality Preventative Action Limit
< = Not detected above laboratory method detection value given

NI = Not Installed

AB = Abandoned Well
NS = Not Sampled
ug/L - Micrograms per Liter
Bold Value = ES Exceedence

Table 4: Groundwater Elevations and Depth to Groundwater, Silver Terrace Center, 5821-5835 W. Silver Spring Drive, Milwaukee, Wisconsin

# Depth to Groundwater

Well Name	MW5	MW6	MW7	MW9
units	(feet)	(feet)	(feet)	(feet)
Date				
6/3/98	14.09	12.24	13.25	NI
6/17/98	13.20	12.63	12.90	NI
7/15/98	13.33	12.61	13.06	NI
11/16/98	14.77	14.20	14.38	14.88
2/24/99	13.91	13.40	13.69	14.13
8/25/99	13.95	13.30	13.61	14.11
8/16/00	13.55	12.67	13.19	13.50
11/8/00	13.34	13.77	12.98	13.12
3/1/01	12.97	12.48	12.63	12.78
5/9/01	12.18	11.69	11.85	11.84
8/7/01	13.49	12.78	13.21	13.52
11/1/01	13.75	13.18	13.43	13.77

### **Groundwater Elevations**

Well Name	MW5	MW6	MW7	MW9
units	(feet)	(feet)	(feet)	(feet)
TOC Elevation*	688.33	687.90	687.97	688.45
TOC Elevation**	688.33	687.89	687.96	687.89
Date	,			
6/3/98	674.24	675.66	674.72	NI
6/17/98	675.13	675.27	675.07	NI
7/15/98	675.00	675.29	674.91	NI
11/16/98	673.56	673.70	673.59	673.57
2/24/99	674.42	674.50	674.28	674.32
8/25/99	674.38	674.60	674.36	674.34
8/16/00	674.78	675.23	674.78	674.95
11/8/00	674.99	674.13	674.99	675.33
3/1/01	675.36	675.42	675.34	675.67
5/9/01	676.15	676.20	676.11	676.05
8/7/01	674.84	675.11	674.75	674.37
11/1/01	674.58	674.71	674.53	674.12

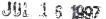
#### Notes

<sup>\* = 6/3/98</sup> Survey Conducted by Environmental Associates

<sup>\*\* = 5/9/01</sup> Survey Conducted by Environmental Associates

NI = Not Installed

AB = Abandoned Well





# Analytical Laboratory

WI DNR Certified Lab #445027660

1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

JOE MICHAELCHUCK

**ENVIRONMENTAL ASSOCIATES INC** 

PO BOX 136

Report Date:

THIENSVILLE WI 53092

14-Jul-97

Project #:

97-03540-002

Project:

Wein Property

Sample ID:

Tank #1

Lab Code:

5017616A

Sample Type: Soil

Sample Date:

26-Jun-97

Test	Result	LOD	LOQ	Unit	Dilution Factor	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	82.4			%		03-Jul-97	S.Dequaine	1
MODIFIED DRO WDNR SEP 95	< 10	1.7	5.5	MG/KG	1	10-Jul-97	D. Menominee	1

LOD = Limit of Detection

LOQ = Limit of Quantitation

QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature



# Analytical Laboratory

1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

JOE MICHAELCHUCK

**ENVIRONMENTAL ASSOCIATES INC** 

**PO BOX 136** 

THIENSVILLE WI 53092

Report Date:

14-Jul-97

Project #:

97-03540-002

Project:

Wein Property

WI DNR Certified Lab #445027660

Sample ID: Lab Code:

Tank #2 5017616B

Sample Type: Soil

Sample Date:

27-Jun-97

Test	Result	LOD	LOQ	Unit	Dilution Factor	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	81.8			%		03-Jul-97	S.Dequaine	1
MODIFIED DRO WDNR SEP 95	460	1.7	5.5	MG/KG	1	10-Jul-97	D. Menominee	1

LOD = Limit of Detection

LOQ = Limit of Quantitation

QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

**Authorized Signature** 



Analytical Laboratory 1090 Kennedy Ave. Kimberly, Wi 54136 414-735-8295

WI DNR Certified Lab #445027660

JOE MICHAELCHUCK

**ENVIRONMENTAL ASSOCIATES INC** 

**PO BOX 136** 

THIENSVILLE WI 53092

Report Date:

14-Jul-97

Project #:

97-03540-002

Project:

Wein Property

Sample ID:

Tank #3

Lab Code:

5017616C

Sample Type: Soil

Sample Date:

27-Jun-97

Test	Result	LOD	LOQ	Unit	Dilution Factor	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	81.4			%		03-Jul-97	S.Dequaine	1
MODIFIED DRO WDNR SEP 95	1900	34	110	MG/KG	20	10-Jul-97	D. Menominee	1

LOD = Limit of Detection

LOQ = Limit of Quantitation

QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

**Authorized Signature** 

Rev. Date: 2-19-96

CHAIN OF	CUSTODY	RECORD		Ana	lytica	Lab  Rimberly WI 541	36					N	lo.	Rev. (	Date: 2-19
Lab I.D. # 5	27616					e. Kimberly, WI 541 FAX 414-739-1738	• 800-4	190-4	902	C	hair	1 # N	_	11	J 4
Account No. :		Quote No.:		USALA	B@AOL.C	ЮМ				P	age		of _L		
Project #: 97. (	3540-00	2	Mathad of Shi	inment :	0	receiving lab. Temp. of Temp.	emp. Bi	ank.		°CO	n lee	. 1			
Sampler: (signaturé	Jony M.	arles	Cooler seal in	tact upon	receipt:	Yes No	O	_					_		
Project (Name /	ocation).	n Property 6	OH I Silver Spring							Ana	alys	is Re	queste	∌d	
Reports To:	e Michaele	Invoice T	Cooler seal in  OH 1 Silver Spring  O: Fred Wein		Sa	mple Handling							Oth	er Ana	lysis
Company	manual O L	Compan	% % Environmental A	SSAT.		Request									
			P.O. Box 136			ush Analysis		<u></u>							t
City State Zip			ZIP Thiersville, WI 5	2		ate Required	E	8020	3020	113.1	310)				
Phone (414) 24	7-1064	Phone (1)	14)242-1086	3092	₹ N	ormal Turn Around	T/bo	EPA E	PA 8	PA 4	Y Y	Point			
Lab I.D.	Sample I.D.	Collection	No. of Containers	D	escription	Preservation	DRO (Mod/TPH)	000		O&G (EPA 413.1)	<u>ה</u>	sh Po			PID/
		Date Time	Size and Type	Water	Soil Other (	specify)	R C	F S	8	8	P S	Flash			FID
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B.	Tank #2	427/97 11:15			X		X							-4-1-	
U 4.	Tank #3	6/27/97 11:35	V		X	V	X				-				-
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De	northwest Hos (	Ombr			(0		_								7 -
Split Samples: (	partment Use ( Offered ?	Yes No	Comments/ Special Ins	structions	s (See reve	erse side for importai	nt remi	naers	5)						
	ccepted?														
Accepted By:															
Department L	Ise Optional fo	r Soil Samples	Relinquished By; (sign	)	Time	Date Rec	eived E	By: (s	ign )				Tin	ne	Date
Disposition of un	used portion of	sample	Marin Stople	nen	10:	15 pm 7-1-976	Lev La	ele	ver		/	0:4.	5	7/	1/97
Lab Should:	_		Lev Tretian	*	5.4	15 7-1-9;	7								
Dispose Return	Ret	tain for days												-	
netum	Otr	ici	Received in Laborator	у Ву:	(	A	D	ate:	1	-/			Time	e:5 :	YF

State of Wisconsin Department of Commerce

WI Tank ID#:

# PRODUCT TANK INVENTORY

Information Required By Section 101.142, Wis. Stats.

Send Completed Form To: Storage Tank, Permitting and Registration Section P.O. Box 7969, Madison, WI 53707

Underground tanks in Wisconsin that have stored or	contently store p	etroleum or regulated sui	ostances must be reg	istered. Please see
he reverse side for additional information on this pro ts total volume (including piping) located below grou	ogram. An under Ind level. A sena	ground storage tank is de rate form is needed for e	and tank Send each	h at least 10 percent of
agency designated in the top right corner. Have you	previously regist	tered this tank by submitt	ing a form?  Yes	Toy No. If yes, are you
correcting/updating information only? 🔲 Yes 🔃 No	0		<u>,                                    </u>	age in part and you
Personal information you provide may be used for seconda	ry purposes. [Priva	cy Law, s. 15.04 (1)(m)]		
This registration applies to a tank that is (check one):	Yarlı Danınını	0 570		artment providing fire
	Tank Removed Filled with Inert Ma	8. 🗍 Ownership Char Iterials new owner name		where tank is located:
	ervice - Provide Da		1 - 1	Village
3. Abandoned No Product (empty) or with Water			Town	of 4025
A. IDENTIFICATION (Please Print)				
1. Tank Site Name	Site Address	1. C-1	Site Tele	phone Number
Silver terrace (enter	1575/W	1. Silver Spri	ng Kal	)
☐ City ☐ Village ☐ Town of:	State	Zip Code	County	/
Milway Kee	WI	53218	///	1/W
2. Tank Owner Name	Mailing Address		Telephon	e Number
Fredric Wern	544	umber land	ct 414	-35/-4248
☐ City ☐ Village ☐ Town of:	State	Zip Code	County	1 .
Bay State	WI	5321	/ Mi	$l\omega$
3. Previous Name	Previous site add	Iress if different than #1		
·		•		
4. Tank Age (date installed, if known or years old)	5. Tank Capacit	(gailons) 6. If more than	one tank is located at fa	acility, please provide tank
	1000			21 6
B. TYPE OF USER (check one)			New York Control of the Control of t	
1. Gas/Retail Sales 2. Bulk Storage	3. 🔲 Utility	4. Mercantile/Co	mmercial 5. 🔲 Indu	ıstrial
6. Government 7. School	8. Residentia			er (specify):
11. Tribal Nation 12. Federal Property	13. Backup G	enerator	· · · · · · · · · · · · · · · · · · ·	
C. TANK CONSTRUCTION (check one)				
1. Bare Steel 2. Cathodically Protect	Red & Coated Stee	I (Check one: A. 🔲 Sacrific	cial Anodes or B. 🦳 Imp	pressed Current)
To Control Charles A. C. Ciberriero	E C Other /and		<b>-</b>	
3. Coated Steel 4. Fiberglass 6. Unined - Date:	5. ☐ Other (spe 7. ☐ Steel - Fib	cify):		•
6. Lined - Date:			Composite 9. Unl	known
6. Lined - Date:	7 Steel - Fib	cify):	Composite 9. Unl	known ? ☐ Yes 😿 No
6. Lined - Date:  Approval: 1. Nat'l Std. 2. UL 3. Other:  Overfill Protection Provided? Yes No If y	7. Steel - Fib	ecify): erglass Reinforced Plastic C	composite 9. Unl Is tank double walled Spill Containment?	known  ? Yes No
6. Lined - Date:  Approval: 1. Nat'l Std. 2. UL 3. Other:  Overfill Protection Provided? Yes No If y  Tank leak detection method: 1. Automatic tank gat	7. Steel - Fib	ecify):erglass Reinforced Plastic C	composite 9. Unl Is tank double walled Spill Containment? ing 3. Gro	known ? ☐ Yes 😿 No
6. Lined - Date:  Approval: 1. Nat'l Std. 2. UL 3. Other:  Overfill Protection Provided? Yes No If y  Tank leak detection method: 1. Automatic tank gau 4. Inventory control a 7. Manual tank gaugin	7. Steel - Fite  yes, identify type:  uging  nd tightness testing	erglass Reinforced Plastic C  2.  Vapor monitor 5.  Interstitial mor	Is tank double walled Spill Containment? ing 3.  Gro	known  ? Yes No
6.  Lined - Date:  Approval: 1.  Nat'l Std.  2.  UL 3. Other:  Overfill Protection Provided?  Yes No If y  Tank leak detection method:  1.  Automatic tank gau 4.  Inventory control a 7.  Manual tank gaugin	7. Steel - Fib yes, identify type: uging nd tightness testing ng (only for tanks o	ecify): erglass Reinforced Plastic C  2.  Vapor monitor 5.  Interstitial mor	Is tank double walled Spill Containment? ing 3.  Gro itoring 8.  Statistical Invent	Yes No Yes No Yes No oundwater monitoring fory Reconciliation (SIR)
6.  Lined - Date:	7. Steel - Fib  yes, identify type:  uging nd tightness testing ng (only for tanks o	2. Vapor monitor  5. Interstitial mor f 1,000 gallons or less)	Is tank double walled Spill Containment?  ing 3.  Grantering 8.  Statistical Inventical Anodes or B.  Imp	Yes No Yes No Dundwater monitoring ory Reconciliation (SIR) pressed Current)
6.  Lined - Date:  Approval: 1.  Nat'l Std. 2.  UL 3. Other: Overfill Protection Provided? Yes No If y  Tank leak detection method: 1. Automatic tank gau 4. Inventory control at 7. Manual tank gaugit  D. PIPING CONSTRUCTION 1. Bare Steel 2. Cathodically Protect 3. Coated Steel 4. Fiberglass	7. Steel - Fib yes, identify type: uging nd tightness testing ng (only for tanks o	2.	composite 9. Unl stank double walled Spill Containment? ing 3. Graitoring 8. Statistical Invent cial Anodes or B. Imp	Yes No Yes No Dundwater monitoring ory Reconciliation (SIR) pressed Current)
6.  Lined - Date:  Approval: 1.  Nat'l Std. 2.  UL 3. Other: Overfill Protection Provided? Yes No If y Tank leak detection method: 1.  Automatic tank gau 4.  Inventory control a 7.  Manual tank gaugi D. PIPING CONSTRUCTION 1.  Bare Steel 2.  Cathodically Protect 3.  Coated Steel 4.  Fiberglass	7. Steel - Fibrary Steel - Fib	2.  Vapor monitor  5.  Interstitial mor f 1,000 galfons or less)  (Check one: A. Sacrific	Spill Containment?     Is tank double walled     Spill Containment?     Ing	Yes No Yes No Ves No Dundwater monitoring For Reconciliation (SIR)  Pressed Current)  known
6.  Lined - Date:  Approval: 1.  Nat'l Std. 2.  UL 3. Other: Overfill Protection Provided? Yes No If y Tank leak detection method: 1. Automatic tank gau 4. Inventory control at 7. Manual tank gaugit D. PIPING CONSTRUCTION 1. Bare Steel 2. Cathodically Protect 3. Coated Steel 4. Fiberglass  Vapor Recovery/Stage !! 4. Fiberglass 6. Flexible 5.	7. Steel - Fibrary Steel - Fib	2.	Spill Containment?     Is tank double walled     Spill Containment?     Ing	Yes No Yes No Ves No Dundwater monitoring For Reconciliation (SIR)  Pressed Current)  known
6.	7. Steel - Fibrary Steel - Fib	2.	Spill Containment?     Is tank double walled     Spill Containment?     Ing	Yes No Yes No Yes No Oundwater monitoring tory Reconciliation (SIR) pressed Current) known  B (mo/day/yr):
6.	7. Steel - Fibrary Steel - Fib	2.	Is tank double walled Spill Containment?  Ing 3. Grantoring 8. Statistical Invent cial Anodes or B. Imp 9. Uni ARB #: perational - Provide Date we restrictor spectable 4.	Yes No Yes No Ves No Dundwater monitoring For Reconciliation (SIR)  Pressed Current)  known
6.	7. Steel - Fibrary Steel - Fib	2.	Is tank double walled Spill Containment?  Ing 3. Grantoring 8. Statistical Invent cial Anodes or B. Imp 9. Uni ARB #: perational - Provide Date we restrictor spectable 4.	Yes No Yes No Yes No Oundwater monitoring tory Reconciliation (SIR) pressed Current) known  by (mo/day/yr):  Not needed if waste oil Interstitial monitoring
6.	7. Steel - Fibrary Steel - Fib	2.	Is tank double walled Spill Containment?  Ing 3. Grantoring 8. Statistical Invent cial Anodes or B. Imp 9. Uni ARB #: perational - Provide Date we restrictor spectable 4. Grantoring 2. Uni	Yes No Yes No Yes No Oundwater monitoring Fory Reconciliation (SIR) Pressed Current) Known  B (mo/day/yr):  Not needed if waste oil Interstitial monitoring SIR
6.	7. Steel - Fibrary Steel Ste	2.  Vapor monitor  2.  Vapor monitor  5.  Interstitial mor  f 1,000 galfons or less)  cl (Check one: A. Sacrificecify):  check valve at pump and instance of the control of	Is tank double walled   Spill Containment?     Ing   3.	Yes No  Yes No  Yes No  Dundwater monitoring  fory Reconciliation (SIR)  Pressed Current)  known  B (mo/day/yr):  Not needed if waste oil  Interstitial monitoring  SIR  Yes No
6.	7. Steel - Fibrary Steel Ste	2.	Is tank double walled   Spill Containment?     Ing	Yes No  Yes No  Yes No  Oundwater monitoring  fory Reconciliation (SIR)  Pressed Current)  known  B (mo/day/yr):  Not needed if waste oil  Interstitial monitoring  SIR  Yes No
6.	7. Steel - Fibrary Steel Ste	2.  Vapor monitor  2.  Vapor monitor  5.  Interstitial mor  f 1,000 gallons or less)  cl (Check one: A. Sacrificecify):  Control	Is tank double walled   Spill Containment?     Spill Containment     Spill Contai	Yes No  Yes No  Yes No  Dundwater monitoring  fory Reconciliation (SIR)  Pressed Current)  known  B (mo/day/yr):  Not needed if waste oil  Interstitial monitoring  SIR  Yes No  No  No  Oil Oil 5.   Gasohol  known* 10.   Premix
6.	7. Steel - Fibrary Steel Ste	2.	Is tank double walled   Spill Containment?     Spill Containment     Spill Contai	Yes No  Yes No  Yes No  Dundwater monitoring  fory Reconciliation (SIR)  Pressed Current)  known  B (mo/day/yr):  Not needed if waste oil  Interstitial monitoring  SIR  Yes No  No  No  Oil Oil 5.   Gasohol  known* 10.   Premix
6.	7. Steel - Fib yes, identify type: uging nd tightness testing ng (only for tanks of cted & Coated Stee 5. Other (Sp 3) Other (specify): with A. auto sh Suction piping with heck valve at tank: sting 5. Li  ] Leaded ] Empty ] Chemical te chemical name ar	2.	Is tank double walled   Spill Containment?     Spill Containment     Spill Contai	Yes No  Yes No  Yes No  Dundwater monitoring  fory Reconciliation (SIR)  Pressed Current)  known  B (mo/day/yr):  Not needed if waste oil  Interstitial monitoring  SIR  Yes No  No  No  Oil Oil 5.   Gasohol  known* 10.   Premix
6.	7. Steel - Fib yes, identify type: uging nd tightness testing ng (only for tanks of cted & Coated Stee 5. Other (Sp 3) Other (specify): with A. auto sh Suction piping with heck valve at tank: sting 5. Li  ] Leaded ] Empty ] Chemical te chemical name ar	2.	Is tank double walled   Spill Containment?     Ing	Yes No  Yes No  Yes No  Oundwater monitoring  fory Reconciliation (SIR)  Pressed Current)  known  B (mo/day/yr):  Not needed if waste oil  Interstitial monitoring  SIR  Yes No
6.	7. Steel - Fib yes, identify type: uging nd tightness testing ng (only for tanks of cted & Coated Stee 5. Other (Sp 3) Other (specify): with A. auto sh Suction piping with heck valve at tank: sting 5. Li  ] Leaded ] Empty ] Chemical te chemical name ar	2.	Is tank double walled   Spill Containment?     Ing	Yes No  Yes No  Yes No  Oundwater monitoring  fory Reconciliation (SIR)  Pressed Current)  known  B (mo/day/yr):  Not needed if waste oil  Interstitial monitoring  SIR  Yes No
6.	7. Steel - Fib yes, identify type: uging nd tightness testing ng (only for tanks of cted & Coated Stee 5. Other (Sp 3) Other (specify): with A. auto sh Suction piping with heck valve at tank: sting 5. Li  ] Leaded ] Empty ] Chemical te chemical name ar	2.  Vapor monitor 5.  Interstitial mor f 1,000 gallons or less)  (Check one: A. Sacrificecify):  Check valve at pump and instance to sacrifice to sacrification of	Is tank double walled   Spill Containment?     Ing	Yes No  Yes No  Yes No  Oundwater monitoring  fory Reconciliation (SIR)  Pressed Current)  known  B (mo/day/yr):  Not needed if waste oil  Interstitial monitoring  SIR  Yes No
Approval: 1.  Nat'l Std. 2.  UL 3. Other:  Overfill Protection Provided? Yes No If y Tank leak detection method: 1. Automatic tank gau 4. Inventory control at 7. Manual tank gaugi D. PIPING CONSTRUCTION 1. Bare Steel 2. Cathodically Protect 3. Coated Steel 4. Fiberglass  Vapor Recovery/Stage!! 4. Fiberglass 6. Flexible 5. Piping System Type: 1. Pressurized piping 2. Suction piping with check valve at tank 3. Septing leak detection method: used if pressurized or of a septing seak detection method: used if pr	7. Steel - Fib yes, identify type: uging nd tightness testing ng (only for tanks of cted & Coated Stee 5. Other (Sp 3) Other (specify): with A. auto sh Suction piping with heck valve at tank: sting 5. Li  ] Leaded ] Empty ] Chemical te chemical name ar	2.	Is tank double walled   Spill Containment?     Ing	Yes No  Yes No  Yes No  Dundwater monitoring  For Reconciliation (SIR)  Pressed Current)  Rhown  Re (mo/day/yr):  Not needed if waste oil  Interstitial monitoring  SIR  Yes No  No  No  Oil Oil 5. Gasohol  Known* 10. Premix  ation
Approval: 1.  Nat'l Std. 2.  UL 3. Other:  Overfill Protection Provided? Yes No If y Tank leak detection method: 1.  Automatic tank gau 4.  Inventory control a 7.  Manual tank gaugi D. PIPING CONSTRUCTION 1.  Bare Steel 2.  Cathodically Protect 3.  Coated Steel 4.  Fiberglass  Vapor Recovery/Stage I! 4.  Fiberglass 6.  Flexible 5.  Piping System Type: 1.  Pressurized piping 2.  Suction piping with check valve at tank 3.  Sering successive detection method: used if pressurized or ct 3.  Groundwater monitoring 4.  Tightness te Approval: 1.  Nat'l Std. 2.  UL 3.  Other:  E. TANK CONTENTS 1.  Diesel 2.  Indicat 4  Tightness te Approval: 1.  Nat'l Std. 2.  UL 3.  Other:  E. TANK CONTENTS 1.  Diesel 2.  Indicat 4  Tightness te Approval: 1.  Nat'l Std. 2.  UL 3.  Other:  E. TANK CONTENTS 1.  Diesel 2.  Indicat 5  Tightness te Approval: 1.  Nat'l Std. 2.  UL 3.  Other:  E. TANK CONTENTS 1.  Diesel 2.  Indicat 5  Tightness te Approval: 1.  Nat'l Std. 2.  UL 3.  Other:  E. TANK CONTENTS 1.  Diesel 2.  Indicat 5  Tightness te Approval: 1.  Nat'l Std. 2.  UL 3.  Other:  E. TANK CONTENTS 1.  Diesel 2.  Indicat 5  Tightness te Approval: 1.  Nat'l Std. 2.  UL 3.  Other:  E. TANK CONTENTS 1.  Other:  Tightness te Approval: 1.  Nat'l Std. 2.  UL 3.  Other:  E. TANK CONTENTS 1.  Other:  Tightness te Approval: 1.  Nat'l Std. 2.  UL 3.  Other:  E. TANK CONTENTS 1.  Other:  Tightness te Approval: 1.  Nat'l Std. 2.  UL 3.  Other:  E. TANK CONTENTS 1.  Other:  Tightness te Approval: 1.  Nat'l Std. 2.  UL 3.  Other:  E. TANK CONTENTS 1.  Other:  Tightness te Approval: 1.  Other:  Tightnes	7. Steel - Fib yes, identify type: uging nd tightness testing ng (only for tanks of cted & Coated Stee 5. Other (Sp 3) Other (specify): with A. auto sh Suction piping with heck valve at tank: sting 5. Li  ] Leaded ] Empty ] Chemical te chemical name ar	2.	Is tank double walled   Spill Containment?     Spill Containment     Spi	Yes No  Yes No  Yes No  Dundwater monitoring  For Reconciliation (SIR)  Pressed Current)  Rhown  Re (mo/day/yr):  Not needed if waste oil  Interstitial monitoring  SIR  Yes No  No  No  Oil Oit 5. Gasohol  Known* 10. Premix  ation
Approval: 1.  Nat'l Std. 2.  UL 3. Other:  Overfill Protection Provided? Yes No If y Tank leak detection method: 1. Automatic tank gau 4. Inventory control at 7. Manual tank gaugi D. PIPING CONSTRUCTION 1. Bare Steel 2. Cathodically Protect 3. Coated Steel 4. Fiberglass  Vapor Recovery/Stage!! 4. Fiberglass 6. Flexible 5. Piping System Type: 1. Pressurized piping 2. Suction piping with check valve at tank 3. Septing leak detection method: used if pressurized or of a septing seak detection method: used if pr	7. Steel - Fib yes, identify type: uging nd tightness testing ng (only for tanks of cted & Coated Stee 5. Other (Sp 3) Other (specify): with A. auto sh Suction piping with heck valve at tank: sting 5. Li  ] Leaded ] Empty ] Chemical te chemical name ar	2.	Is tank double walled   Spill Containment?	Yes No  Yes No  Yes No  Dundwater monitoring  fory Reconciliation (SIR)  Pressed Current)  known  Interstitial monitoring  SIR  Yes No  No  No  One Gasohol  Chown* 10. Premix  Pation  Pressed For details)

2

State of Wisconsin Department of Commerce

WI Tank ID#:

# UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Information Required By Section 101.142, Wis. Stats.

Send Completed Form To: Storage Tank, Permitting and Registration Section P.O. Box 7969, Madison, WI 53707

Underground tanks in Wisconsin that have stored or the reverse side for additional information on this proits total volume (including piping) located below grou agency designated in the top right corner. Have you correcting/updating information only?   Personal information you provide may be used for secondal	gram. An underg nd level. A separ previously regist o	ground stora rate form is ered this tal	age tank is de needed for ea nk by submitti	fined as any ach tank. Se	tank with at	least 10 p	ercent o
This registration applies to a tank that is (check one):  1A.	Tank Removed Filled with Inert Ma ervice - Provide Dat	8. 🗀 O terlais ni	wnership Chan	ge (Indicate	Fire Departm coverage whe	ere tank is lo	
A. IDENTIFICATION (Please Print)  1. Tank Site Name  Silver terrace (enter	معدد المستحدث والمراقع والمراقع والمستحدث المراق	-Silve		Rd	Site Telephor	ne Number	
City   Village   Town of:	State		5 32/	8	County /U	V_	
2. Tank Owner Name Fred FC WETN		umber	land a	t	Telephone No.	mber 5/-424	18
Gity   Village   Town of:	State WI		Zip Code 532/	7	County MI		
3. Previous Name	Previous site add	ress if differe					
4. Tank Age (date installed, if known or years old)	5. Tank Capacity		i. If more than	one tank is lo	cated at facilit	y, please pro	ovide tank
B. TYPE OF USER (check one)  1.	3. Utility 8. Residentia 13. Backup Ge	I 9. 🗀	Mercantile/Cor Agricultural		5.   Industria 0.   Other (s		
1.	ted & Coated Steel  5.  Other (spe  7.  Steel - Fibe	cify):			B. Impress	·	
Approval: 1. Nat'l Std. 2. UL 3. Other:				Is tank doub		☐ Yes	M No
	es, identify type:			Spill Contai	nment?	☐ Yes	DE No
Tank leak detection method: 1. ☐ Automatic tank gau 4. ☐ Inventory control at 7. ☑ Manual tank gaugir	nd tightness testing	5. 🗂	Vapor monitori Interstitial mon s or less)	itoring	3. Ground Ground		oring
D. PIPING CONSTRUCTION  1. ⊠ Bare Steel  2. □ Cathodically Protect  3. □ Coated Steel  4. □ Fiberglass	cted & Coated Steel		: A. 🗍 Sacrific	ial Anodes or		sed Current)	
Vapor Recovery/Stage II			□ CA	RB #:		···	
4. Fiberglass 6. Flexible 5.	Other (specify):		□ Op	erational - Pro	ovide Date (m	o/day/yr):	
Piping System Type: 1. Pressurized piping							
2. Suction piping with check valve at tank 3. St.	Suction piping with		or monitoring	pectable		needed if w	
3. Groundwater monitoring 4. Tightness te		i. ∟, val e leak detec∷		t required	8.  SIR	rstitial monit	bung
Approval: 1. Nat'l Std. 2. UL 3. Other:	<del></del>		178	Is pipe dou			ZI No
E. TANK CONTENTS	THE SHOP RES	14N	. The second second	1974 1 1980 1 2 500	Marine Commence		E.J
6. Other (Specify): 7. [11. Waste/Used Motor Oll 13. [	Leaded   Empty*   Chemical   chemical name an		. ☐ Unleaded . ☐ Sand/Gra . ☐ Kerosene	vel/Slurry" 9	. ☐ Unknow . ☐ Aviation	m* 10. 🗖 F	Gasohol Premix
* If 7, 8, or 9 is chosen, this tank is NOT PECFA eligible.	The series of the			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
If Tank Closed, Abandoned or Out of Service, give da	te (moldaylyr):	Has a site	essessment be ☑ No	en complete	d (see revers	e side for d	etails)
Owner or Operator Name (please print):	417		,	idicate wheth	)BF:	<del></del>	
Fredric Wein					☐ Operator		-
Owner or Operator Signature:		.0*4		ate Signed			•
Luchit Dai				6-26	-97		. •

State of Wisconsin Department of Commerce

WI Tank ID#:

# UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Information Required By Section 101.142, Wis. Stats.

Send Completed Form To: Storage Tank, Permitting and Registration Section P.O. Box 7969, Madison, WI 53707

Underground tanks in Wisconsin that have stored or the reverse side for additional information on this profits total volume (Including piping) located below ground agency designated in the top right corner. Have you correcting/updating information only?   Personal information you provide may be used for secondary.	gram. An undergr nd level. A separa previously register	ound storage tank is te form is needed for ed this tank by subm	defined as any each tank. So	y tank with a	t least 10 p	ercent of
This registration applies to a tank that is (check one):  1A.		8. Ownership Ch		Fire Departm coverage who City  Town of		ocated:
A. IDENTIFICATION (Please Print)  1. Tank Site Name		Silver Spir	nard	Site Telepho	ne Number	
Olty Village Town of.	State	Zip Code 532	2/8	Milu	1.	
2. Tank Owner Name Fredric Weth		mberland a	et	Telephone N	umber 35/-42	48
City Sillage Town of:	State WI	Zip Code	7	MT/4	1	
3. Preyious Name	Previous site addre	ss if different than #1				
4. Tank Age (date installed, if known or years old)	5. Tank Capacity (		an one tank is lo	cated at facilit	y, please pr	ovide tank
B. TYPE OF USER (check one)  1.	13. Backup Gen		1	5.   Industri 0.   Other (s	specify):	
3. Coated Steel 4. Fiberglass 6. Lined - Date:	5. Other (specif			9. Unknow		
Approval: 1. Nat'l Std. 2. UL 3. Other:				ble walled?	☐ Yes	8 No
Tank leak detection method:  1. Automatic tank gau 4. Inventory control ar 7. Manual tank gaugir	nd tightness testing	2. Vapor monit 5. Interstitial m ,000 gallons or less)	onitoring	inment?  3. Ground ical Inventory		
D. PIPING CONSTRUCTION  1. State Steel  2. Cathodically Protect  3. Coated Steel  4. Fiberglass		Check one: A.  Sacrify):	rificial Anodes o		sed Current	
Vapor Recovery/Stage II 4. ☐ Fiberglass 6. ☐ Flexible 5. ☐	Other (specify):		CARB #: Operational - Pr	ovide Date (m	io/day/vr):	
Piping System Type: 1. ☐ Pressurized piping	with A. 🔲 auto shuto		flow restrictor			anta all
<ol> <li>Suction piping with check valve at tank</li> <li>Piping leak detection method: used if pressurized of ch</li> </ol>	eck valve at tank:	1.  Vapor monitorin	9		needed if w	
3. Groundwater monitoring 4. Tightness ter	sting 5. Line	leak detector 6. 😿	Not required	8. DSIR		
Approval: 1. Nat'l Std. 2. UL 3. Other  E. TANK CONTENTS	a sa pateragas	a the water of the	is pipe dou	ible walled?	∐ Yes	□ No
1. ☐ Diesel 2. ☐ 6. ☐ Other (Specify):	Leaded Empty* Chemical a chemical name and i	14.	PreveVSlurry"	Urknov  Digital Oi	vn* 10. 🗖 f	Gasohol Premix
If Tank Closed, Abandoned or Out of Service, give dat  6-26-97  42		las a site assessment Yes X No	been complete	d (see revers	e side for d	letalis)
Owner or Operator Name (please print):			Indicate wheth			
Fredric Wein		S. S. Astronomics	Owner or	Operator		
Owner or Operator Signature:			Date Signed 6-24	-97		•

#### Complete one form for RETURN COMPLETED CHECKLIST TO: CHECKLIST FOR TANK, CLOSURE CHECK ONE: each site closure: Wisconsin Department of Commerce T-UNDERGROUND **ERS Division** Bureau of Storage Tank Regulation The information you provide may be MABOVEGROUND used by other government agency P.O. Box 7969 FOR PORTIONS OF THE FORM THAT programs [Privacy Law is 15.04 (1)(m)]. DO NOT APPLY, CHECK THE MIA BOX Madison, WI 53707 A. IDENTIFICATION: (Please Print) Indicate whether closure is for: ☐ Tank Only ☐ Piping Only Tank System 1. Site Name 2. Owner Name Silver Tellage Center 1011116 Owner Street Address LUMME Milwauke e Village ☐ Village ☐ Town of: SICIP Telephone No. (include area code) Cipsure Company Name (print) Closure Company Closure Company Telephone No (Include area code) Closure/Company City, State Zip Code MICROMINUER FALL 4: Name of Company Performing Closure Assessment / Environ Montal / ASSOCIATS Assessment Company Street Address, City, State, Zip Code hiensuille WIS 35 Telephone # (include area code) Certified Assessor Name (grint) Assessor Signature Assessor Certification No.8 Prtin - nome Tank ID # Closure Temp Closure **∦Closure in Place**3 Tank Capacity Contents\* Closure Assessmen 厌 000 DX. $\square$ N - 10°N П \*Indicate; which product by numeric code: 01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Qther: O 4: 14-Kerosene; 15-Aviation. 11-Waste Oil; 13-Chemical (indicate the chemical name(s) or number(s) Written notification was provided to the local agent 15 days in advance of closure date. All local permits were obtained before beginning closure Check applicable box at right in response to all statements in Sections B-E. Remover : Inspector B. TEMPORARILY OUT OF SERVICE Verified Verified Written inspector approval of temporary closure obtained, which is effective until (provide date) $\square$ N 1: Product Removed a Product lines drained into tank (or other container) and resulting liquid removed, AND $\square$ N b All product removed to bottom of suction line OR $\square$ Y $\square$ N C. All product removed to within 1- of bottom $\square$ N $\square$ Y 2. Fill pipe: gauge pipe; tank truck vapor recovery fiftings, and vapor return lines capped. $\square$ Y $\square$ N 3. All product lines at the islands or pumps located elsewhere are removed and capped, CR $\square$ N 4. Dispensers/pumps left in place but locked and power disconnected. $\square$ N $\Box$ 5. Vent lines left open. $\square$ N C. CLOSURE BY REMOVAL 1. Product from piping drained into tank (or other container). DY: $\square$ N 2. Piping disconnected from tank and removed. TY $\sqcap N$ All liquid and residue removed from tank using explosion proof pumps or hand pumps. □N 4: All pump molors and suction hoses bonded to tank or otherwise grounded. TIN 5. Fill pipes, gauge pipes, vapor recovery connections submersible pumps and other fixtures removed... $\square$ N NOTE: DROPTUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR 区 Vent lines left connected until tanks purged. ĽЗИ Tank openings lemporarily blugged so vapors exit through vent. DIN $\square$ Y 回 Ø 8. Trank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F. LT)

 $\square$ N

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9 Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to

prevent movement

RS-8951 (R 03/97)

10. Tank cleaned before being removed from site.

CLOSURE BY REMOVAL (confined)	Remove Verifier		
11. Tank labeled in 2 high letters after removal but before being moved from site.	ĮŽ]Υ □		
NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS, VAPOR STATE; VAPOR FREEING TREATMENT; DATE.	\$		100
12. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site.		JN □	
13. Inventory form ERS-7437 filed by owner with the Department of Commerce indicating closure by removal.		M	<b>)</b> [
14. Site security is provided while the excavation is open.		JN Z	
NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF	At the second		LANGE.
THE DEPARTMENT OF COMMERCE OR LOCAL AGENT.	4		
1. Product from piping drained into tank (or other container). 2. Piping disconnected from tank and removed		JN 💆	
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps	بالمها	N ⊠	
4. All pump motors and suction hoses bonded to tank or otherwise grounded.		M M M M M M M M M M M M M M M M M M M	
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed NOTE: DROPTUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH		JN 🔼	
THE USE OF AN EDUCTOR SEDUCTOR OUTPUT: 12 FT. ABOVE GRADE.			
6. Vent lines left connected until tanks purged. 7. Tank openings temporarily plugged so vapors exit through vent.		JN (EQ.)	,  } - □
8. Tank openings temporarily plugged so vapors exit inrough vent.  8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) see Section F.			
9. Tank properly cleaned to remove all sludge and residue. 10. Solid inert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled			
10. Solid inert material (sand cyclone boiler slag pea gravel recommended) introduced and tank filled	DaY: □	]N 🔂	
11Vent line disconnected grremoved. 12. Inventory form filed by owner with the Department of Commerce indicating closure in place.		JN. VZ	
E-CLOSURE ASSESSMENTS		0 72 E 22 PH 27	
NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO ILHR 10.			
Individual conducting the assessment has a closure assessment plan (written) which is used as the basis to their work on the site.			
is used as the basis for their work on the site.  2 Do points of obvious contamination exist?	7 7 19 1	JN B	
3 Are there strong odors in the soils?			
4: Was a field screening instrument used to pre-screen soil sample locations?	DÿY ∴ □	JN ⊠	e E
5: Was a closure assessment omitted because of obvious contamination? 6: Was the DNR notified of suspected or obvious contamination?			
Agency, office and person contacted:	GΥ. C	JN. Q	
7. Contamination suspected because of: 如 Odor. 可Soil Staining □ Free Product □ Sheen on Groundwar	ler [[Field	I Instrument T	est
METHODOF ACHIEVING 10% L'EVEL DESCRIPTION.  FIEductor Or Diffused Air Blower	West of		
Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12	₂ feet abov	e around.	
Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.			
Div Ice introduced at 1,5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over	the greate	st nossible ta	nk area
Dry ice evaporated perore proceeding		30 F 4325	
TIME (GAS (GOZ O NZ) NOTE INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.	THE TAN	IK MAY NOT	BE
Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank op			in Me
Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing de [7] ank atmosphere monitored for flattimable or combustible vapor levels.	ice ground	led.	
Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space mo	nitored at t	ottom, middle	e and
upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before rem			_
NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW ONE 100000 TOWN	LUKE,	MOVED	
20 24 25 BD 3 LA 10 BA 4 B ( 60/24/27) ( )(	Office?		
REMOVERICLEANER INFORMATION	To the state of th		
Mark Petermonn Mach Istiman 12/57	福静山	1. 18	16-4
Remover Name (print) Remover Signature Remover Certification I	Vo. 345-722	Date	signed
INSPECTOR INFORMATION		M	
Inspector Signature	4.44.544	O 116	BNC.
	inspect	12 Com	HINOS:
AND THE PARTY OF T	*Doto S	10/11/1	:: 13
FDID # For Location Where inspection Performed Inspector Telephone Number	∜Date Si	Alien Market	

CONTAINS HAZARDOUS MATERIALS must be logibly filled in, in Ink, in Indalible Pencil, or in THIS SHIPPING ORDER Carbon, and retained by the Agent Shipper's No. \_\_\_ (Carrier) NATIONAL TANK SERVICE OF WI, INC. SCAC. #10563 Carrier's No. Received, subject to the classifications and tariffs in offect on the date of this Bill of Lnding 6/20/97 . date \_ from . the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns. (Mail or street address of consignee for purposes of notification only.) FROM: Consignee NATIONAL TANK SERVICE OF WI, INC. Shipper A-1 TANK 1813 SOUTH 73RD STREET Street Street 5821-35 W. STLUBE SPRING DR 55214 Destination WEST ALLIS, WI Origin MILW WI. Route: U.S. DOT Hazmat Reg. Number **Delivering Carrier** Trailer Initial/Number 38 051096 m 04 021E Class or Labels required. Che **Packing** HM Description of articles, special marks, and exceptions I.D. Weight Group Class Number rate (or exemption)

FUNDED OUT THEE LIQUIDS ONLY NO SLUDGE TAKEN Subject to Section 7 of conditions, if this shipment is to be delivered to the consigned without recourse on the consigner, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. Remit C.O.D. to: C. O. D. FEE: Address: Prepaid \$ City: Zip:

If the chipment moves between two ports by a corner by water, the law requires that the bill distring shall state whether at a "current"s or sluppe lake. — where the rate is dependent on value, shappers are required to state specifically in writing the agreed of declared value of the property. The agreed or declared value of the property shall be property. PLACARDS REQUIRED

Charges Advanced

Collect 3 FREIGHT CHARG

(Signature of consignor) PLACARDS

Prepaid - Colla . YES NO - FURNISHED BY CARE DRIVER'S SIGNATURE:

SPECIAL INSTRUCTIONS:

SHIPPER: 1 TANK PER: DATE: \_\_\_\_/20/07

CARRIER NATIONAL TANK SERVICE OF WIL

PER: EMERGENCY RESPONSE TELEPHONE NUMBER: (414 ) 588-0501

Monitored at all times the Hazardous Material is in transportation including storage incidental to transcortation (§17

SUPPLIED

Permanent pest office address of shipper

FREIGHT CHARGES Prepaid Collect (Signature of consigner) **PLACARDS PLACARDS** YES NO - FURNISHED BY CARRIER REQUIRED SUPPLIED DRIVER'S SIGNATURE: PECIAL INSTRUCTIONS: NATIONAL TANK SERVICE OF WI, INC PER: EMERGENCY RESPONSE TELEPHONE NUMBER:\_ (414) 588-0501 Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (5172-634)

Suite of	Wisco	nsin	10	Route To:					S	OIL E	ORIN	G LO	OG IN	FORM		
Departu	tent of	Natur	al Keso	urces Solid Waste  Emergency Response	☐ Haz				·	orm 44	00-122	2 -			Rev.	5-92
				☐ Wastewater		icr Res				•				,	,	
<del></del>	45			☐ Superfund	☐ Oth		(0)	-0.7			=		Page		of	
Facility	•		Si	Iver Terrace Center		License					}		Numbo	M۱		
Boring	Drilled	By (F	irm nar	me and name of crew chief)		Date Dr	rilling S	Started 3/9	, <sub>B</sub>					Orilling	Meth	od
				esting/Paul	N		/ <u>O</u>			0 6 M M				HS		<del></del>
			NO. W.	Unique Well No.   Common Well   MW 5	Name		F	eet M	SL	Surface		Feet N	ISL	Borehol Borehol	in	neter ches
Boring State P		on —		N,I	E S/C/N	۷ La	ıt <u>43 °</u>	07'	09"	Tocal (	שם דכ	cauen		licable)		<b>-</b> r
MM	1/4 of	<u>NW</u>	1/4 o	f Section <u>35</u> , T <u>8</u> N, R <u>2</u> 1	_EM	Long	87°	59'	08 <sup>*</sup>			et 🗖	<u>S</u>			D E
County	M	lilwau	uKce		DNR C	County	Code	Civil T	own	City/) or	r Villaj	ge M	ilwau	Kce		
Sam	ple											Soil	Prope	erties		
	£.8	Str	i, i, i,	Soil/Rock Description	•	l					۸e					
្រស្	h Ai crod	Son	ië	And Geologic Origin For Each Major Unit			CS	ပ္	Ħ	B	ressi.	nt		city		cnts
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	adii Major Ome			US (	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
SI	6	9,9,	E							0						
-		5,4,	-2	SILTY CLAY, trace sand an			CL			-			<u> </u>			
52	18	9	E,	moist to wet at 10 feet, brown to grey at 6 feet						0						
S3	24	5,5, 7	F		. :					0		M		. 41		
	-	3,5,	F-6	FINE SAND, orange-brown, w	ell sort	ed	SM	}		-	┧.		;			
54	24	7	E.	SILTY CLAY (as above)						0						
55	24	3,3,	E							0				-		
ī —	-	5,5,	10							-	-	-	-		'	
S6	24	Ч	<u>E</u> 12				CL			0	1			-		
57	24	4,5,	E							0						
<del></del>	-	6,7,								<u>                                     </u>	1					
58	0	6	E							0		W				
S9	24	5,6,	E	SAND, Well sorted, trace	silf a	nl				0						
-		<u> </u>	18	clay, grey, wet, no odor			5 W	' <b> </b>		-	-					
1510	12	N2	E.							0						
			= 20	EOB @ 20' Below G	rade			1			1					
i			E					1.								
1			E													
			上				<u> </u>			<u> </u>				_L		
he	reby	certli	fy that	t the information on this form i	s true	and o		t to t	he b	est of	my l	(nowl	edae.			
sign	ature	7	u j	Minaldre		1, 11,1	_	nviro	nmen	tal A	ssoni	des.	Inc.			
his	form i			by Chapters 144.147 and 162, Wis. St	ats. Co	mpletio								cit not	less	

This form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forseit not less han \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

				•		
ate of Wisconsin Route to: Solid Wa	sie 🛘 Haz. Wasie I	☐ Wastewater ☐	1	MONITORING WEI	LL CONSTRUC	THON
artment of Natural Resources Env. Response & Re				FORM 4400-113A	Rev	4.90
ility/Project Name Loca	Grid Location of	Well J	II E	Well Name		
. Silver Terrace Center		ì_ <del></del>	fr. 🛮 E.	Mw5		
ility License, Permit or Monitoring Number Grid	Origin Location 43° 07′ 09'	Long. <u>87° 1</u>	59' <u>08"</u> or	Wis, Unique Well Number	DNR Well No	unce
	isne			Date Well Installed		-
Piezometer 12 Secti	on Location of Was	ste/Source			.1931१8	
ance Well Is From Waste/Source Boundary	/4 of <u>NW</u> 1/4 of Se	c.35, T. 8 N.	R.21 目标	Well Installed By: (Perso	n's Name and Fi	um)
Well A Point of Enforcement Std. Application?	tion of Well Relativ	ve to Waste/Sourc	e	Paul	<del></del>	
	☐ Upgradient ☐ Downgradient	s 🔲 Sidegrad		Wisconsin Soil 7	iestina.	
Protective pipe, top elevation ft. MS		1.	Cap and lock?		Z Y≅ □	
• •			Protective cov	er pipe:	E 10 []	1 :43
Yell casing, top elevation ft. MS	L	719	a. Inside diame		6	ò.0 in.
	iL _		b. Length:			. Q ft.
Surface seal, bottom ft MSL or _ Q.5		1	c. Material:		Steel (2	
					Other [2	
USCS classification of soil near screen:  GP GM GC GC GW SW SP [		K.	d. Additional	protection? ribe: Expandable Loc)	⊠ Yes □	% [
SM S SC D MLD MHD CL S CH I	<b> </b>	18//		noe: Cypanadie Loci	<del></del>	
Bedrock []		₩ \ `3.	. Surface seal:	•	Bentonite C	,
Sieve analysis attached?		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Concrete to Other E	
14. Drilling method used: Rotary D 50		4	. Material betwe	een well casing and protect		
Hollow Stem Auger 🗵 4.1			:	•	Bentonite E	<b>ವ</b> 30
Other 🛘 🚉				Annu	ılar space seal 🛭	<b>⊐</b> <u>30</u>
15. Drilling fluid used: Water [] 02 Air [] 01				<u> </u>	Other [	
Drilling Mud 🗆 03 None 🗵 99		1 14441	•	seal: a Gran		
THE STATE OF THE PARTY OF THE P		1 1333		al mud weight Benton		
5. Drilling additives used? \( \square\) Yes \( \square\) No				al mud weight Be ntonite Bentonite		
				Ft 3 volume added for any		<b>⊐</b> 50
Describe	-	1 1883	f. How instal		Tremie [	□ 01
'. Source of water (attach analysis):					remie pumped [	□ 02
		· 🔯			Gravity 🛭	
6 NOT	c		6. Bentonite sea		tonite granules [	
Bentonite seal, top $\underline{}$ _ $\underline{}$ _ ft. MSL or $\underline{}$ _ $\underline{}$	5 tr∕ 🖔			⊠3/8 in. □1/2 in. Be	-	
ine sand, top ft. MSL or	5 ft.		c, 7. Fine sand ma	terial: Manufacturer, pro-	Other [	LL ∑:_ esb size
				30 Red Flint Sand.	act hanc & me	3113.22
3. Filter pack, top ft. MSL or 4	O tr.			ided   Bag @ 5016	<del>प्र</del> के	
				aterial: Manufacturer, pro	xduct name and n	mesh siz
Screen joint, top ft. MSL or	ō tr —		a #35/4	15 Red Flint Sand		<u> </u>
5 VCI - 2 0				dted 10 Bog: @5015		
Yell bottom ft. MSL or _ 2 O	ο .r. /		9. Well casing:			
Filter pack, bottom ft. MSL or _ 20	0 %	<b>冒</b> 术		Flush threaded PV(		
. Finer pack couldn't in mod of	Ž		0. Screen mate	rial: PVC	Other	U
3 3 3 3 3 3 3 4 3 4 5 4 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6	O (1.\	· '	a. Screen ty		Factory cut	ৰ্বে 11
					Continuous siot	
Borehole, diameter $-8.25$ in.	<u> </u>				೦ಗಿಕಾ	
•				wer Environmental N	Manufacturing	-, Inc.
O.D. well casing 225 in.			c. Slot size			. <u>010</u> ir
		`\	d Slotted l			15.01
I.D. well casing 2.00. in.		1	I I Backini mat	erial (below filter pack):		図 14
hereby certify that the information on this f	orm is true and	Correct to the	a hast of mi	knowledge		<u> </u>
hereby certify that the information on this h	THE STICE STICE	COLLECT TO THE	J 0631 OF 1119	MIO MEGGE.		

Environmental Associates, Inc.

Firm Environmental Associates, Inc.

Firm Environmental Associates, Inc.

Firm Environmental Associates, Inc.

Firm Environmental Associates, Inc.

Firm Environmental Associates, Inc.

Firm Environmental Associates, Inc.

Firm Environmental Associates, Inc.

Firm Environmental Associates, Inc.

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Route to: Solid Waste That Waste Wastewater There. Response & Repair Underground Tanks Other Land

Facility/Project Name	County Name		Well Name .	*
Silver Spring Terrau	e Mili	aullee	mw-3	
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Wall No	Inber DNR We	II Number
		Application of the second	Carried Management	
1. Can this well be purged dry?	⊠'Y∝ □:No	11. Depth to Water	Before Development	After Development
2. Well development method		(from top of	13.20m	16, 400
surged with bailer and bailed	区 41	well casing)		
surged with bailer and pumped	□ 61		•	
surged with block and bailed	□ <sup>-</sup> 42	Date	b 0 6 / 1 7 / 9 8 m m d d y y	06/17/98
surged with block and pumped	□.¨62		mm dd y y	06/17/98 mm: dd.yy
surged with block, bailed and pumped	<b>1</b> 70		c. //:0.0 pm	
compressed air	20	Time	c √ √ : o o □ b m	11-20 P
bailed only	□ 10		2	
pumped only	<b>5</b> 1	12. Sediment in well bottom	$\underline{3}$ , $\underline{5}$ inches	_ O Onche
pumped slowly	□ 50		_	
Other	. 🗆 🕮	13. Water clarity	Clear [] 10	Cox. 0.20
			Turbid ⊠ 15	Turbid 28 25
3. Time spent developing well			, (Describe)	(Describe)
4. Depth of well (from top of well casising)	_19.5ft		• • • • • • • • • • • • • • • • • • • •	
5. Inside diameter of well	in.		Sily Gry	light (ruy
6. Yolume of water in filter pack and well	, ,	1		
casing	6.3 gal			
	٥	Fill in if drilling flui	ids were used and well is	at solid waste facility:
7. Volume of water removed from well	9. O gal		\	
8. Volume of water added (if any)	OOgal	14. Total suspended solids	mg/	
9. Source of water added	J/A	15. COD		1
10. Analysis performed on water added?	☐Yes ☑ No			
(If yes, ausch results)	2 1- 2 10			
16. Additional comments on developments				
to the second control of the telephine				
		•		
Well developed by: Person's Name and Furn	1	Thereby cerury the	st the acove information is	ו מוש בוחם בסוודפבו נם נוהם נ
		of my knowledge.		
Name: Janu Marchin		Signature:	Tony Marton	~
Jony Martin		-		
Firm: Environmental A.	ssociales	Print Initials:	UM	
		Firm:	to the first	unda
		(_m	Marining A 3:	uare

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State of			al Dacou	Route To:	<b>-</b>				S	OIL I	ORIN	G L	OG IN	FORM		
Deparu	nent ot	Natur	al Resou	Solid Waste Emergency Response	☐ Haz				r	orm 44	00-122	2 .		•	Rev. 5	5-92
				☐ Wastewater	☐ Wa	ter Res								1		
Facility	/Projec	t Nam	ie.	☐ Superfund	Oth	er License	e/Perm	it/Mon	itoring	Numb	er li	Boring	Page . Numb		of	
	,,.		Sil	Iver Terrace Center	ľ	_						- 01.01.6		Mr	v6	
3 oring	Drilled	By (F	irm nam	ne and name of crew chief)		Date D	rilling	Started		Date D						
W	iscons	in S	oil Te	sting/Paul	•	₩ W	/음	3/ <u>9</u>	- 우	06/03/98 MM DD YY				АZЦ		
				Unique Well No. Common Well	Name	Final S				Surface				Borehol	e Dian	neter
Boring				Mw6				eet M		( 2001 (		Feet N		<u>8 %</u>		ches
State P	lanc				e s/c/n			<u>07'</u>	<u>U1</u>	Local	Jila Do		(11 app N	licable)		ΠE
JM	1/4 01	<u>WK</u>	_1/4 of	Section 35 , T 8 N, R 21	_EM	/ Lon	g <u>87</u>	<u>59'</u>	<u>08</u>	~		et 🗖			Feet	
County	, M	lilwau	ıkee		DNR C	County	Code	Civil 7	l'own/	City) o	r Villa	ge M	ilwau	Kce.		
Sam													Prope			
	it. & (in)	Str	cet	Soil/Rock Description			•				Š					
કુ જૂ	h At	Con	ië	And Geologic Origin For Each Major Unit			CS	ပ္သ	m	(A)	ressi	n ii		ity		cnts
Number and Type	Length Att Recovered	Blow Counts	Depth in Feet				u s c	Graphic Log	Well Diagram	PID/CIII	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
12 8			-	6 Inches Concrete Pavem	ent			0 1	1	├	003	20				20
SI	24	4,6,	E					1		3.3						
	,	4,4,	E 2	,	1	امد					1					
52	24	5	E., 1	SILTY CLAY, trace send a	na gro	7				310			l			
S3	24	4,5,	F"	orange-brown to grey at	f fee	7				7,7						
1 33	ļ- <u>-</u> -	4	E_6	below grade, wet at 12	- ( . )		ļ			0	1					
, 54	24	5,6,	E	no odor						0					1	
	+	-	E-8				1		1	<b>}</b>	1					4
55	74	5,5,	E							0				1		
	- "	4,6,	E 10				CL				1	M				
' 56	24	6	= 12	,						0				-	1 :	1
57	24	5,7,	F."							0	T			'	:	
1	1 27	6	E <sub>I</sub>							<u> </u>	4			-		
, <i>S</i> 8	18	3,6,	E							0				'		
ļ	-	5,4,	-16							-	-					
59	18	11	E				1			0	·					
	24	†	-  s	SAND well graded egare to be	-5 10		+	-					-			
1 210	29	NR	20	SAND, Well graded, coarse to s. silt, wet, grey, no odo	, ~, ,,,		SW					W				
1			= 20	EOB @ 20' Below Gr	ade			7					7			
١			E													
			E				1									
-			上								<u> </u>				<u> </u>	
	reby ature	certli	y that	the information on this form is	s true	and o		t to t	he be	est of	my k	nowle	edqe.	<del></del>		
.511		1	u 7	Minaldul			_	nvicoi	nmen	tal A	ssocia	des,	Inc.			
inis	form i	s auth	orized b	y Chapters 144.147 and 162, Wis. Sta	its. Cor	npletio								cit not	iess	

his form is authorized by Chapters 144.147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

Secretarion of National Resource   Environment   Environ	( ) 1 1 D 1	d Wasie 🛛 Haz. Wasie 🗆		MONTTORING WELL	-CONSTRUCTION
Silver Terrace, Center   Silver Terrace   Silver		& Repair D Undergrou		rom 400-113A	Rev. 4.90
Specific Continues and Properties   Specific Continues and Prope		Local Grid Location of W	/ell □ E.		
Section   Least   15			ft.		
	ility License, Permit or Monitoring Number	Grid Origin Location Lat. 43° 07′ 09"	Long. 87° 59′ 08″ or		
				Date Well Installed 06/	03/98
Verification of Enforcement Standard Applications   University pipe, top elevation   NSL   Ulygradient   S   Sidergation   NSL   Cap and lock?   Q   Ye   No   Q   Ye	tance Well Is From Waste/Source Boundary	Will as Allel 114 as Sac	35 T 8 N P 21 A E	Well Installed By: (Person's	s Name and Firm)
Well A Point of Entorcement Std. Applecation	Unknown ft.			Paul	·
Protective pipe, top elevation	•	u 🛘 Upgradient	s 🔲 Sidegradient	Wisconsin Soil Te	sting.
Well casing, top elevation	Protective pipe, top elevation			?	⊠ Ys □ No
and surface elevation		12M 7	2. Protective co	ver pipe:	
Surface seal bottom	Well casing, top elevation	" MSL	a. Inside diam	eter:	_ <u>B</u> .0 in
Surface seal, bottom	and surface elevation	ft. MSL	b. Length:		
USCS classification of soil near screen:   GP   GM   GC   GW   SW   SP   BY   SM   SS   M   C   C   C   C   C   C   C   C   C	C. f Lawren G. MCI on	0.5 (1)	c. Material:		Steel 🔼 04
CP   CM   CC   CW   SW M SP   Details   SM M SC   ML   MH   CL M CH   Details   Six M SC   ML   MH   CL M CH   Details   Six M SC   ML   MH   CL M CH   Details   Six M SC   ML   MH   CL M CH   Concrete   Six M SC   ML   MH   CL M CH   Six M SC   MR   MI   Six M SC   MR   MR   Concrete   Six M SC   MR   MR   MR   MR   MR   MR   MR   M					Other 🗆 💆
SM SC MI. MH CL S CH D Schrold Sieve analysis attached? Yes Mo Noter Sieve Motor Stem August 24 1 Noter Sieve analysis attached? Annular space seal:    Annular space seal:					☑ Y≈ □ 1%
Betrotric   Sieve analysis attached?   Yes   Mo   No   Note   Sieve analysis attached?   Yes   Mo   Other   Sieve analysis attached?   Yes   Mo   Other   Sieve analysis attached?   Yes   Mollow Stem Auger			If yes, des	cribe: <u>Expandable Locki</u>	<del></del>
Sieve analysis attached?   Yes   Mo			3. Surface seal:	•	ė.
Drilling method used:   Rotary		No.			
Hollow Stem Auger   2 41   Other   Other   Annular space seal   Annular space seal   Other		1 1873			Oth≈ □ 💆
Annular space seal	•	1 023	4. Material betw	veen well casing and protective	
5. Drilling fluid used: Water   02 Air   01 Drilling Mud   03 Nore   99   6. Drilling additives used?   Yes   No   Describe   Source of water (attach analysis):  Bentonite seal;   Bentonite seand shurry   3 d.   Sentonite seand shurry   Sentonite					
5. Drilling fluid used: Wazer   0.2 Ar   0.1   0				· Annua	
Drilling Mud	5 Drilling fluid used: Water 02 Air 0	01			
6. Drilling additives used?	Drilling Mud □ 03 None ☑	99	1004		
d			DYII	- <del>-</del>	
Describe    Posteribe   Poster	6. Drilling additives used? ☐ Yes ☒	No   💥			
Filter pack, top   ft. MSL or   200 ft.			i <b>b</b>	4	
Tremie pumped   0 Gravity   0		· 👹	too.		
Gravity ≥ 0  Bentonite seal, top. ft. MSL or 20.5 ft.  ine sand, top ft. MSL or 1.5 ft.  Filter pack, top ft. MSL or 20.0 ft.  Screen joint, top ft. MSL or 20.0 ft.  Borehole, bottom ft. MSL or 20.0 ft.  Borehole, diameter 8.25 in.  O.D. well casing 2.00 in.  Gravity ≥ 0  6. Bentonite seal: a. Bentonite granules 3  b. □1/4 in. □3/8 in. □1/2 in. Bentonite pellets □ 3  c. □ Other □ 3  b. □1/4 in. □3/8 in. □1/2 in. Bentonite pellets □ 3  c. □ Other □ 4  7. Fine sand material: Manufacturer, product name & mesh size a. □ 30 Red Flint Sand.  b. Volume added □ Bag @ 50 lbs of a.  b. Volume added □ D Eagle @ 50 lbs of a.  Filter pack bottom ft. MSL or 20.0 ft.  Sorehole, bottom ft. MSL or 20.0 ft.  Borehole, diameter 8.25 in.  O.D. well casing 2.25 in.  O.D. well casing 2.00 in.  I.D. well casing 2.00 in.  II. Backfill material (below filter pack): None ≥ 0  Other □ 1.  II. Backfill material (below filter pack): None ≥ 0  Other □ 1.	7. Source of water (attach analysis):		I. HOW HIS		
Bentonite seal, top			. 🚟		
Bentonite seal, top ft. MSL or 0.5 ft.  b. 1/4 in. 2/8 in. 1/2 in. Bentonite pellets 3  c. Other 3  c. Other 3  7. Fine sand material: Menufacturer, product name & mesh size a #30 Real Flint Sand.  b. Volume added 1 Bag @ 50 lbg ft.  8. Filter pack top ft. MSL or 5 0 ft.  Well bottom ft. MSL or 200 ft.  Borehole, bottom ft. MSL or 200 ft.  Borehole, diameter 8.25 in.  O.D. well casing 2.25 in.  D. Manufacturer Environmental Manufacturing, Inc.  C. Slot size: d. Slotted length: 1.5 ft.  D. Manufacturer Environmental Manufacturing, Inc.  C. Slot size: d. Slotted length: 1.5 ft.  D. Other 3  Screen in MSL or 200 in.  D. Manufacturer Environmental Manufacturing, Inc.  C. Slot size: d. Slotted length: 1.5 ft.  D. Other 3			6 Bentonite se	al: a. Benton	•
b. Volume added   Bag @ SO   Befe    8. Filter pack, top   ft. MSL or   5 0 ft.    Well bottom   ft. MSL or   2 0 0 ft.    Borehole, bottom   ft. MSL or   2 0 0 ft.    Borehole, diameter   8 25 in.    Other   D. Manufacturer   Environmental   Manufacturing   Inc.    Borehole, diameter   2 0 0 in.    Other   D. Manufacturer   C. Slot size:   O. 01 0 in.    I.D. well casing   2 0 0 in.    None   Source   Inc.    D. Volume added   Bag @ SO   Befe    8. Filter pack material:   Manufacturing product name and mesh so a way of the product name and mesh so a way of the product name and mesh so a way of the pack product name and	Bentonite seal, top ft. MSL or	05 ft. 👹	/ h D1/4 ir		
b. Volume added   Bag @ SO   Befe    8. Filter pack, top   ft. MSL or   5 0 ft.    Well bottom   ft. MSL or   2 0 0 ft.    Borehole, bottom   ft. MSL or   2 0 0 ft.    Borehole, diameter   8 25 in.    Other   D. Manufacturer   Environmental   Manufacturing   Inc.    Borehole, diameter   2 0 0 in.    Other   D. Manufacturer   C. Slot size:   O. 01 0 in.    I.D. well casing   2 0 0 in.    None   Source   Inc.    D. Volume added   Bag @ SO   Befe    8. Filter pack material:   Manufacturing product name and mesh so a way of the product name and mesh so a way of the product name and mesh so a way of the pack product name and	· ·	·- W			-
b. Volume added   Bag @ SO   Befe    8. Filter pack, top   ft. MSL or   5 0 ft.    Well bottom   ft. MSL or   2 0 0 ft.    Borehole, bottom   ft. MSL or   2 0 0 ft.    Borehole, diameter   8 25 in.    Other   D. Manufacturer   Environmental   Manufacturing   Inc.    Borehole, diameter   2 0 0 in.    Other   D. Manufacturer   C. Slot size:   O. 01 0 in.    I.D. well casing   2 0 0 in.    None   Source   Inc.    D. Volume added   Bag @ SO   Befe    8. Filter pack material:   Manufacturing product name and mesh so a way of the product name and mesh so a way of the product name and mesh so a way of the pack product name and	ine sand, top ft. MSL or	15 11.	7. Fine sand m	aterial: Mznufacturer, produ	ot name & mesh siz
8. Filter pack material: Manufacturer, product name and mesh s  a #35/45 Red Flint Sand  b. Volume added 10 Eq. © 50 lbs Act  b. Volume added 10 Eq. © 50 lbs Act  9. Well casing: Flush threaded PVC schedule 40 © 2  Filter pack, bottom ft. MSL or 200 ft.  Borehole, bottom ft. MSL or 200 ft.  Borehole, diameter		· \	圈/·/ a		
8. Filter pack material: Manufacturer, product name and mesh s  a #35/45 Red Flint Sand  b. Volume added 10 Eq. © 50 lbs Act  b. Volume added 10 Eq. © 50 lbs Act  9. Well casing: Flush threaded PVC schedule 40 © 2  Filter pack, bottom ft. MSL or 200 ft.  Borehole, bottom ft. MSL or 200 ft.  Borehole, diameter	Filter pack, top ft. MSL or	_4 O m_ \\	b. Volume	added 1 Bag @ 50 lbsfr	8
#35/45 Red Flint Sand b. Volume added 10 Eq. @ 50 lb. R  Well bottom	-				
Well bottom	Screen joint, top ft. MSL or _	_5.0 m	a_#35/	45 Red Flint Sand	<u></u>
Filter pack, bottom	Well bottom ft. MSL or _	50'0 tr		g: Flush threaded PVC:	schodule 40 💆 🤅
Borehole, bottom ft. MSL or _ 20 0 ft. a Screen type: Factory cut 2 1  Continuous slot	Filter pack, bottom ft. MSL or _	200 m			
Borehole, diameter 8.25 in.  Other   b. Manufacturer Environmental Manufacturing, Inc.  c. Slot size:  d. Slotted length:  1.D. well casing 200 in.  11. Backfill material (below filter pack):  None   Other    6 VCL	7006	<i>////</i> /	erial: <u>PVC</u>	<del></del>	
Borehole, diameter 8.25 in.  b. Manufacturer Environmental Manufacturing, Inc. c. Slot size: d. Slotted length:  1.D. well casing 200 in.  11. Backfill material (below filter pack): None Signature of the state of	sorehole, bottom it. Wish or _	<u> </u>	a. Screen t	• •	
b. Manufacturer Environmental Manufacturing, Inc.  c. Slot size: d. Sloted length:  L5.0  I.D. well casing 200. in.  11. Backfill material (below filter pack):  Other II.	Borehole, diameter 8 25 in.			Co	
O.D. well casing _ Z 2 5 in.  c. Slot size: d. Slotted length: L5 .0  I.D. well casing _ Z 0 0 in.  11. Backfill material (below filter pack):  Other □			b. Manufac	arer Environmental M	
I.D. well casing 200 in.  11. Backfill material (below filter pack):  Other D	O.D. well casing _ Z 25 in.				
Other [] .			· d Sloned	length:	
Other [] .	I.D. well casing 200. in.		11. Backfill ma	iterial (below filter pack):	None 🖾
baroby cartify that the information on this form is true and correct to the best of my knowledge			•		
Beledy certify that the information on this form is the and confect to the dest of my knowledge,	hereby certify that the information on t	his form is true and	correct to the best of m	y knowledge.	

Environmental Associales, Ix.

Lease complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats.

1. This is the state of the sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats.

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MONITORING W	ELL DEVI	-I	OPMEN
Form 4400-113B			Rev. 4.50

Facility/Project Name  Silver Soving Terrace  Facility License, Permit or Mostroning Number	County Name	Wie Unique Well No	Well Name  MW - ( DNR.We	Numbers V
		-		
	MTYcs DINo	11. Depth to Water	Before Development	
4. Depth of well (from top of well casising)	M 41  □ 61  □ 42  □ 70  □ 20  □ 10  □ 51  □ 50  □ 20  min.  ∠8.8 ft.	(from top of well caxing)  Date  Time  12. Sediment in well bottom  13. Water clarity	b. 06/17/98 mm d d y y c. 12: 40 pm  3.0 inches  Clear 10 Turbid \$ 15 (Describe)	14.701  14.701  14.701  198  10.0   1
6. Volume of water in filter pack and well casing	6.2gal	Fill in if drilling flu	Ms were used and well is	at solid waste facility:
	7.0 gel	14. Total suspended		1
8. Volume of water added (if any)  9. Source of water added	O. Ogal.	solids 15. COD		1
10. Analysis performed on water added? (If yes, attach results)	☐Yes ☑ ⅓o	1		1
16. Additional comments on development:				

Well developed by: Person's Nan	ne and Firm	I hereby certify that the above information is true and correct to the of my knowledge.
Name: Jony Mart	in	Signature: Your Marke
Firm: Environme	ntal Associates	Print Initials: WM
		Firm: munimental - Association

.\*\* \* 1.11=

State of			-1 Dago	Route To:					S	OIL I	ORIN	G L	0G II	VFORM		
Deparu	nent of	Natur	al Reso	urces ☐ Solid Waste ☐ Emergency Response	☐ Haz				r	orm 44	.00-12	2	•	•	Rev. 5	5-92
			<del>-</del>	☐ Wastewater	□ Wa	iter Res								,		
Facility	·/Drain	at Nam		☐ Superfund	Oth	Licens	/Dom	it/Man	toring	Numb		20	Page .		of <u>/</u>	
•	•		Si	Iver Terrace Center								_		M	w7	
_				ne and name of crew chief)	1	Date D	rilling	Started 3 / 9 D Y	8	Date D				Drilling	Meth	od
				esting/Paul							1 <u>8</u>		1	НЗ		
			NO. WI	Unique Well No. Common Well MW7	Name	Final S		Yater Li Feet M:	SL	Surface 		Feet N	1SL	Borchol N <u>B</u>	L in	ncter ches
Boring State P	Location Lane	on		N,I	E S/C/I	N L	<sub>1t</sub> 43	° 07'	09"	Local (	Grid Lo			licable)		
		<u>wu</u>	1/4 o	f Section 35 , T 8 N, R 21			g <u>87</u>	059'	08		F	⊔ et 🗖	N S		Feet	DE DW
County	7	lilwa			DNR	County	Code	Civil 7	`own(	City) o	r Villa	ge M	ilwau	Kea		
Sam	ole				<u> </u>								Prope		<del>-</del>	
	(ii)	วเ	eet	Soil/Rock Description							e)					
ક દૂ	h At cred	Con	ii F	And Geologic Origin For Each Major Unit			S	, o	Ę		ressiv th	S T	<u> </u>	200		ents
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Lach Major Chit			usc	Graphic Log	Well Diagram	PTD/FTD	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
		4,4,		6 Inches Concrete Pavem	ect			0 1		-	OS	20		2 12	۳.	<u>≃0</u>
<sub>1</sub> S1	24	4	E							0			,			
-	-11	5,6,	E 2	SILTY CLAY, trace subrounded	grave	1										
52	24	8	<u> </u>	and fine sand, moist, dark	brow	ر^				0						
l S3	24	3,5,	E T	no odor	•					0						
	ļ	6	<u></u> 6		:	: !					+				1	
54	24	4,8,	E		1					2.5		W	'	1		
I	-	10,11,	<del>-</del> 8							1.1	1					
, 55	24	8	F.		:		}	CL		0						
56	24	5,6,	E		•	:										
	ļ <u>.</u>	6	F 12	- Well graded fine rand re	ams o	ž <del>)</del>				0	1			1		
S <b>7</b>	24	4,5,	E	12 to 18 feet						0						
	-	ļ		- Wet at 14 feet						}	1	-	-			
58	24	4,5,	E	•				-		0						
' <u>.</u>	<u> </u>	10,10	上版						1		┪.					
59	24	11	·							0		I W				
510	24	4,4,	F	SILTY SAND, a little clay, gre	A) +1=3	,			1	0						
,—		١.	<u> </u>	no odor			<del>                                     </del>			_	_	_	_			
			E	EOB @ 20' Below G	ade											
			F													
			E					.								
1 50	reby	CONTIN	h that	the information on this form is	1010	204		1 10 1	ho b	351.01	<u> </u>	(00)			<u></u>	1
	atur <b>c</b>			the information on this form is	rue	Firm	1							<del></del> -		
				Mualdrie		<u>ــــــــــــــــــــــــــــــــــــ</u>		nviror							- <del></del>	
				by Chapters 144.147 and 162, Wis. Sta		-		_								

than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

. CM Deserves		. Waste□ Wæ		MONTTORING WE Form 4400-113A	LL CONSTRUCT	TION
. Liv. Response			ks 🛘 Other 🖂		Kev.	4-90
acility/Project Name	Local Grid Loca		m c	Well Name		
. Silver Terrace Center	·	Ⴠ <u>뭐</u> ያ: —	ft. 🗆 E.	· MW7		
acility License, Permit or Monitoring Number	Grid Origin Loc	ation		Wis. Unique Well Number	DNR Well No	
	43° 07	7' 09" I ano	87° 59' 08"~			nuos.
				Date Well Installed		
			ft. E.	Date well hardled 06	103198	
Piezometer 12	Section Locatio	n of Waste/Source	× _,		183158	
rutance Well Is From Waste/Source Boundary	NWILL OF NW.	14 of Sec 35 7	г. <u>8</u> и, r.21 🖁 🖔	Well Irstalled By: (Perso	m's Name and Fir	m)
Unknown fc.		Il Relative to Wa		Paul		
: Well A Point of Enforcement Std. Application?	u Upgradio		ste/source Sidegradient			-
⊠ Yes □ No				Wisconsin Soil -	Testina	
		adient n 🗖				
Protective pipe, top elevation	ft. MSL		1. Cap and lock		🛛 Ya 🖸	No
3. Well casing, top elevation	ft. MSL ———		2. Protective co			
3. Well casing, top elevation		11-117	a. Inside diam	et <del>er.</del>	B.	.Q in.
Land surface elevation O.O	fr MSI		b. Length:			. <u>Q</u> ft.
		سرا البهر	c. Material:			
). Surface seal, bottom ft MSL or _	Q.5 ft.	数用上滤			Steel 🔼	
2. USCS classification of soil near screen:		*: (			Other 🗆	
				protection?	_ ⊠ Y≈ □	No
GP C GM C GC GW C SW M	SP. 님	/ BIL 113/	If yes, desc	ribe: Expandable Loc	King Well Cap	
SWE SC D MLD MHD CL M	Сн ⊔	洲阳	3. Surface seal:		Bentonite [	3 0
Bedrock 🗆		W W W	), Surface seat:		Concrete 🖾	
13. Sieve analysis attached?   Yes	No		/·	-	Other []	
4. Drilling method used: Rotary	50		4 Material bern	veen well casing and protect		
			4. Marchar octa	cent went easing and protect		1
Hollow Stem Auger		(A) (A)	•		Bentonite 🗹	
Other 🛘				· Anni	ular space seal 🔲	] _30
		<b>-88 88</b> -			Other 🛚	ַ נ
15. Drilling fluid used: Water 02 Air 0			5. Annular space	e seal: a. Gran	ular Bentonite 🗵	3. 33
Drilling Mud □ 03 None ☑	99		_	gal mud weight Benton		
e e e e e e e e e e e e e e e e e e e						
16. Drilling additives used? \(\sigma\) Yes \(\sigma\)	No.			gal mud weight Be		
				entoniteBentonite		J 5 (
Describe			е	_Ft <sup>3</sup> volume added for any	y of the above	
.7. Source of water (attach analysis):			f. How instr		Tremie 🗀	
7. Somee of water (and analysis).			•	,	remie pumped · [	٠٥ ت
		网 网			Gravity 🛭	<b>4</b> 0
			6. Bentonite se	al· a Ben	tonite granules	
i. Bentonite seal, top ft. MSL or _	056					
i. Bentuinte seal, top ii. insbot _			0. 4141	ı. ⊠3/8 in. □1/2 in. Be	-	
5 NOT .			/ c			
Fine send, top ft. MSL or _	_1.5 m			aterial: Manufacturer, pro		sh siza
	` ` `	、 '問 問/	/ · / a #	30 Red Flint Sand.		_
7. Filter pack, top ft. MSL or	_4.0 ft.	/13 13	b. Volume	edded 1 Bag @ 5016	مخهج	
•				naterial: Manufacturer, pro		nesh s
I. Screen joint, top ft. MSL or _	50 ft.		1201	45 Red Flint Sand	Josef Marite actorn	
			a <u>2357</u>	added 10 Bags @ 50 lbs		· <b>-</b>
W 6 MCI or	2006					<b>-</b> 4 ~
. Well bottom ft. MSL or _	₹0.0 m✓		9. Well casing	: Flush threaded PV	•	
	_		•	Flush threaded PV	C schedule 80 [	
. Filter pack, bottom ft. MSL or _	20.0 ft.		<u> </u>		Other [	
			10. Screen mate	rial: <u>PVC</u>		
C. Borehole, bottom ft. MSL or _	20 0 ft.		a. Screen t		Factory cut (	ৰ্বে ।
			a, between	•	•	
	•		•		Continuous siot (	
Borehole, diameter $8.25$ in.		•	\		೦:ಗಿಕ್	
•				azer Environmental 1		
1. O.D. well casing _ 2 2 5 in.			c. Slot size			010
•		•	d Sloned	length:	1	L <u>5</u> . c
i. I.D. well casing 200. in.			\	terial (below filter pack):	None	図:
					Other	
	h:- /	<del></del>		. 1		<del></del>
hereby certify that the information on t		ne sud collec	m 10 Ing best of m	y knowledde.		
Snature Our 201	Fum	<i>-</i> .:	1.1.0.	1		

Environmental Associates, Inc.

The complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by this. 144, 147 and 160. Wis. Stand of NR 141. Wis Ad. Code. In associations with the 144. Wis State failure to file this form may result in a forfainter of not less than \$10 per more than

Route to: Solid Waste THEZ Waste Wastewater TEnv. Response & Repair Underground Tanks Other L

Facility/Project Name	County Name		Well Name .	4
Silver Spring Terrau	e Milia	askee	mw-	7 .
Facility License, Permit or Monttoning Number		Wir Unique Wall Nu	mber DNRWe	1 Number of the same of the sa
1. Can this well be purged dry?	XI Yes DINo		Before Development	After Development
2. Well development method		11. Depth to Water (from top of	12.900	15,44
surged with bailer and bailed	⊠~41	well casing)		775
surged with bailer and pumped	□ 61			
surged with block and bailed	□ 42	Date	10/11 11/00	A . 11 M . 2
surged with block and pumped	□.¨62		P06/17/98	06/17/98 mm: dd.yy
surged with block, bailed and pumped	T 70	1 .		mm. dd.yy
compressed air	□ · 20	Time .	c. / /: 300 pm	12000
bailed only	□ 10			
pumped only	□ 51	12. Sediment in well	_ 5. 0 inches	
pumped slowly	□ - <u>5.0</u>	bottom		
Other		13. Water clarity	Clear 🛘 10	Clear. []_20
	hand Garden		Turbid 🖾 15	Turbid DS 25
3. Time spent developing well			. (Describe)	(Describe)
4. Depth of well (from top of well casising)	_12.9 ft.			
5. Inside diameter of well			Silly Brown	light Brown
6. Volume of water in filter pack and well				
caring				
		Fill in if drilling flui	Me were used and well is	at solid waste facility:
7. Volume of water removed from well	5.0 gal			1
		14. Total suspended	mg/	=
8. Volume of water added (if any)		- solids		
9. Source of water added	J/A	15. COD		
	,			
10. Analysis performed on water added?	☐ Yes ☑ No	1		1
(If yes, attach results)				
•			,	
16. Additional comments on development:				
Well developed by: Person's Name and Furn		I hereby certify the of my knowledge.	r the above triormation is	נדשב אחם בסוודפכן גם נחב
			- 701	
Name: Janu Martin		Signanure:	only Martin	
1019 1100 711	<del></del>		1	
Firm: Environmental As	soriales	Print Initials:	UM	
CHOILDING	المارين المارين			
		Funu m	remental - H33	ouglas

.\*\* \* 5.81--- -

	f Wisco		al Resc	Route To			. 11/	_						OG I	NFOR		
Берше	inchi oi	11444	ui itoso			az. Waste Form 4400-122 Rev. 5-92 nderground Tanks											
				☐ Waste	water	□ Wa	iter Res	ources	:	י ה	1		_	ъ	1	_	1
Casilie.	y/Projec	at Man		☐ Supert	und	Oth	er /<	e medi	** b/)	<u>a Ke</u>	Num	Pmenz	Posino	Page		_ of	<u></u>
•				Center			Diceis	c/I cili	HUMOI	inoi ii	development Page 1 of  1g Number Boring Number Mw 8						
				me and name of crew cl	nief)		Date D	rilling	Started		Date Drilling Completed					Meth	od
_					·				3 / S			/음				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.04
			-	Testing / Chuck	<del>~</del> =										H		
DNR I	acility	Well	No.[W	Unique Well No.	Common Well	Name	Final S				Surfac	e Eleva			Boreho		
Boring	Location	on			MwB	l			Feet M		L ocal (	Grid L	Feet N		licable	<u>4</u> in	ches
State P	lane _			N,	*****	E S/C/I	۷ L	<sub>st</sub> 43	07	<u> </u>		J D.		N	, meable,		DΕ
NW	_ 1/4 of	<u> </u>	1/4 0	f Section 35, T	8 N, R 2	· DW	/ Lon	g <u>87</u>	59	08		F	eet 🗖	S		Feet	
County	4					DNR (	County	Code	Civil '	Town/	City/ o						
		wank	lee	-,			<u>`</u>					Milwa					
Sam	Ble S ←									<u> </u>			Soil	Prope	erties		
	Length Att. & Recovered (in)	Blow Counts	Depth in Fect		k Description			•				Compressive Strength	1				SI
2,8	이 본 등 이 대 And Geologic Origin For Each Major Unit							CS	ည္က	_ ह	E	gth	in in		icity		/ ncn
Number and Type	100 S	3low	)ept		-			U S	Graphic Log	Well Diagram	PID/FID		Moisture Content	Liquid Limit	Plasticity Index	200	RQD/ Comments
2 "	1	1		( ) ((1))				0 -		<u> </u>	0%	20			Д,	20	
MW8			Εl	Gravel (fill)				ļ .				:					
(0-3)	36"	-	_ z	Light Brown S	· (ace				1	-							
<u> </u>			E	-	gravel, 1/2" thick interbedded						<u></u>	]					
MW8	24"	_	E_3	sand layers, c	olor break	to grey	/				_		M				
(3-5)			<b> </b>	at b' bys				CL	Ì	1	L		1 ' '				
IMMS	24"	6, 8,	E,														
(5-7)		10	֓֞֞֞֞֞֞֞֞֞֞֞֞֞֓֓֓֓֓֓֓֓֓֓֓֡֟֡֓֓֓֓֡֡֟														
MW8		8,9,	E.									1					
(7-1)	24"	12	E°	Well sorted ,	nedium sar	d we	1		1		-	1		1			
MN8	24"	7,10,	F			,		SP				1	W				
(9-11)	1	11	E 10								-						
mw8		3, 4,	` <b>.</b> .						1			1		1			
(11-13)	24	4	E	Dark grey cl	ay, shff, n	noist,			ļ		-	ļ		-			
MW8			=	interbedded				İ				1					
(13-13		-	F 14	from 11 to	13 feet, lil	the to		ļ			-		١.,			·	
MW8	<b>\</b>		E	na send or	gravel from	. 13		CL		1	-	1	M		}		
(15-17)	NR	-	F 16	to 20 feet						1	-	İ					
	╁──	<del>                                     </del>	E								-	-		1			
MWB	36"		-18								_						
(13-30	1	-	E														ł
+-	-	<del> </del>	20	E08 @ 20'	bas				1		-	1		†			}
	1	Ì	F		- / -					1			1				
												Ì					
			F												1		
			E						<u> </u>								
	hereby certlify that the information on this form is true and correct to the best of my knowledge.																
Signa	iture	<u></u>	00-1	7 . 0 -1 -			Firm	E		,	, Δ.	~~-·	_1	i.			
This	for: -			Vieralchuse		to Carr	<u> </u>				A A				it not 1		
				y Chapters 144.147 and 5,000 for each violation													
				Each day of continued v													

D	☐ Haz. Waste ☐ Wastewater ☐ r   Underground Tanks ☐ Other ☐	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 4-90
Facility/Project Name Local G	rid Location of Well	Well Name
Silver Terrace Center		E. Mw8
	gin Location	Wis. Unique Well Number DNR Well Number
	Long	
		ft. E. Date Well Installed 1 1 0 3 1 9 8 w
Section	Location of Waste/Source	
11 1/4	of NW 1/4 of Sec. 35, T. 8 N, R. 21	W. Wisconsin Soil Testing / Chuck
Location	n of Well Relative to Waste/Source Upgradient s Sidegradient	The state of the s
	Downgradient n Not Known	
	1. Cap an	
B. Well casing, top elevation ft. MSL-		ive cover pipe: e diameter:8 .º_ in.
C. Land surface elevation O O ft. MSL	b. Len	
	C Mate	
D. Surface seal, bottom ft. MSL or0.5 ft.	- Constant	Other 🗆
12. USCS classification of soil near screen:		itional protection?
GP □ GM □ GC □ GW □ SW □ SP ⊠ SM □ SC □ ML □ MH □ 'CL ☒ CH □	E E	es, describe: Expandable locking well cap
Bedrock D	3. Surface	Bentonite 30
13. Sieve analysis attached?   Yes   No		Concrete ≥ 01
	A Marie	Other  al between well casing and protective pipe:
14. Drilling method used: Rotary 50 Hollow Stem Auger 41	4. Materia 5. Annula b c d e £. Ho	Bentonite 2 30
Other D		Annular space seal
		O1 - I
15. Drilling fluid used: Water □ 02 Air □ 01	5 Annula	ar space seal: a. Granular Bentonite 2 33
Drilling Mud □ 03 None ☑ 99		_Lbs/gal mud weight Bentonite-sand slurry \[ \Begin{array}{c} 35 \]
	0	_Lbs/gal mud weight Bentonite slurry  31
16. Drilling additives used? Yes No	d	% Bentonite Bentonite-cement grout 50
Describe	е	Ft 3 volume added for any of the above
17. Source of water (attach analysis):	£ Ho	w installed: Tremie 0 1
	l 🔛 🔛	Tremie pumped 🔲 02
N/A	J 🐘 · 🔛	Gravity 🗵 08
		nite seal: a. Bentonite granules   3 3
E. Bentonite seal, top ft. MSL or 0.5	ft_   b.	1/4 in. 23/8 in. 1/2 in. Bentonite pellets 1 32
F. Fine sand, top ft. MSL or 15	ft.	Other
	M M   a	# 30 Red Flint Sand .
G. Filter pack, top ft. MSL or _ 4 0		lume added 1 bag at 50# XX
5 0	8. Filter	pack material: Manufacturer, product name and mesh size
H. Screen joint, top ft. MSL or 5 .0		35/45 Red Flint Sand
I. Well bottom ft. MSL or _ Z O O	ft. 9. Well	lume added 10 bags © 50# Addressing: Flush threaded PVC schedule 40 🖾 23
I. Well bottom ft. MSL or _ Z O O	The state of the s	Flush threaded PVC schedule 40 🖾 23 Flush threaded PVC schedule 80 🖂 24
J. Filter pack, bottom ft. MSL or 200	ft \lambda	Other
J. Ther pack, bottom		n material: PVC
K. Borehole, bottom ft. MSL or _ 20.0	. 8////	reen type: Factory cut 🗵 11
		Continuous slot 🗖 01
L. Borehole, diameter 8 25 in.		Other 🛚
	b. Ma	nufacturer Environmental Manufacturing, Inc.
. M. O.D. well casing $225$ in.	\	ot size: 0. 010 in
	\	oned length: 15.2 ft
N. I.D. well casing $200$ in.	11. Backf	ill material (below filter pack): None 🖾 14
I have be a good to that the information as this farm	is true and porrect to the hard	Other 🗆
I hereby certify that the information on this form	Firm .	of my knowledge,
Mal Wyerinichmer	Environmental Assor	ales, Inc.
Please complete both sides of this form and return to the app		/
/		

Department of Frankis Resources .				rom 4400-113B	Rev. 4-90
Route to:	Solid W	aste 🔲 Haz. Wa	ste 🗌 Wastewater 🗆		
Env. Resp	onse & I	Repair 🔲 Unde	rground Tanks 🔲 Oth	rez 🗌	
Facility/Project Name		County Name	•	Well Name	
Facility License, Permit or Monitoring Number			Daville	MW - 8	
Facility License, Permit or Monitoring Number	ſ	County Code	Wis, Unique Well N	umber DNR We	ll Number
1.0. 11. 11	pa V	-		Defens Development	AG-a Davidson
1. Can this well be purged dry?	Ø Y	es 🗆 No	11. Depth to Water	Before Development	After Development
2. Well development method		•	(from top of	2	
surged with bailer and bailed	<b>2</b>	41	well casing)	<u> </u>	<u></u>
surged with bailer and pumped .		61			ĺ
surged with block and bailed	_	42	Date	3 . 9 0	11112199
surged with block and pumped	_	62		b. 1 + 1 1 3 1 9 8 m m d d y y	m m d d v v
surged with block, bailed and pumped		70		• •	,
compressed air		20	Time	c. 12: 30 p.m.	
bailed only	_	10			
pumped only	_	51	12. Sediment in well	_2.0 inches	O. O inches
pumped slowly		50	bottom		
Other			13. Water clarity	Clear 🗖 10	Clear 20
•			1	Turbid ☑ 15	Turbid 🔼 25
3. Time spent developing well		<u>25 min.</u>	{	(Describe)	(Describe)
	2	0.2.			
4. Depth of well (from top of well casisng)		0.3 ft.		5: ly Grey	Lightborg
5. Inside diameter of well	,	97 in.			
J. Inside diameter of web		. <u></u>			<u> </u>
6. Volume of water in filter pack and well				<del></del>	
casing	,	<u>0</u> . <u>4</u> gal.		<del></del>	1
		<u> </u>	Fill in if drilling flui	ds were used and well is a	at solid waste facility:
7. Volume of water removed from well		2 . <i>Q</i> gal.			1 1
			14. Total suspended	mg/l	mg/l
8. Volume of water added (if any)		<u>O</u> . <u>O</u> gal.	solids		
9. Source of water added		<del></del>	15. COD		mg/l
					7
			İ	•	
10. Analysis performed on water added?		es ⊠ No			
(If yes, attach results)					
16. Additional comments on development:			<del></del>	<del></del>	
10. Additional confinence on development					
Well developed by: Person's Name and Firm			I hereby certify that	the above information is	true and correct to the best
Ten developed by. Telson's Ivanie and Puni			of my knowledge.	. a.c accre mitoritation is	The mid collect in the past
Name: - Janu Marchin			Signature:	ony Martin	
1 cry May this		<del></del>		_/ /	· <del></del>
Firm: Environmental A	55,00 1	cles	Print Initials:	<u>w m</u>	
— CHANAIAI A	المستخدم مست	<del></del>	1 62	// !	

Firm:

morarouncelos

State of			.1 D		ute To:					S	OIL	ORIN	G L	OG IN	FOR		
Departu	Department of Natural Resources Solid Waste Haz, Waste Form 4400-122 Rev. 5-92  Emergency Response Underground Tanks																
					Emergency Response  Wastewater		aderground Tanks Vater Resources										
					Superfund	1 Othe	er Res	nedial	on d	Redev	lopmer	<u>.</u> t		Page	1	of 1	ı
Facility	/Projec	t Nam	e			li li	License	/Perm	it/Mon	itoring	Numb	er		Numb			
	Si	Iver	Terr	ace Center		1	Mw9										
3 oring	Drilled	By (F	irm na	me and name of c	rew chief)	T I	Date Drilling Started				Date Drilling Completed				Drilling	Meth	od
						- 1	11	10	3 / 9 D Y	8	111/03/98						
	W	scons	ان کر	oil Testing /	chuck					- 1	MM DD YY					ISA	
SNR.F	acility	Well	No.[W]	Unique Well No	. Common Well	Name	Final S				Surface				Boreho	<b>.</b>	
			<u> </u>		MW9			<u> </u>	Feet M	SL			Feet N	ISL	_8_	<u>'4</u> in	ches
Boring tate P		on		N	]	E S/C/N	ıl L	1 43º	07'	09"	Local C	irid Lo	cation	(If app	licable)	)	
Allal		- MA			, T_8 N, R_2	S 6707.	], _	87	0 59'	08.		т.	🗖	N			ΠE
County	1/4 01	- 14 14	_ 1/4 0	Section	_, 18_N, K_Z	DNR C	Lon	<u> </u>	<u> </u>	Cours		F	et 🗆	<u>s</u>	===	rect	
County	Milw	au Kee	<b>,</b>			DIVEC	ounty.	Code	CIVIL		lwank		ge				
Sam	<del></del>									'''	002.00		Soil	Prope	artion	-	
Jaili			بد	~			i						3011	FIOP	ernes		
:	Length Att. & Recovered (in)	310w Counts	Depth in Feet		il/Rock Description   Geologic Origin For							Compressive Strength		'			95
1 K	h A	ပိ	.s.		Each Major Unit			CS	.2	Ę	유	ress	urc	l_	city		lu Jc
Number and Type	The second of th								Graphic Log	Well Diagram	PID/GID	E 5	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Ž 🗑	7%	B	À					ם	2 2	20	죠	ರಸ	ΣŬ	בבן	교육	_	≱ర
			E	Gravel (Fil	1)												
MW9 , (1-3)	36"	2,3, 5	E	Orange / Brow	in medium shiff cla	y, mai	s t			<b>,</b>	[			1			ĺ
(1-3)		5	<u></u> 2	, ,		• •		l	1					ļ			
1		<u> </u>	上					CL	1		<u> </u>	}	M		1		Ì
MW9 (3-5)	24"	3,4,	<b>—</b> ч	ļ				1	1		-	1	1	1			1
-	ļ		F					<u> </u>	]	1			ļ	1	ļ	1	1
MWa	24"	4,5,	E.	Fine orang	e sand, wet			SP			_						
(5-7)		7	E,					Sr	1			]	W	-	1	1	
Mw9	T.,	4,5,	E						1			1		1		1	1
(7-9)	24"	6	8	l	clay, shiff, moist			1	1		-	1	1	1	1		1
	<del> </del>	+	‡	Interbedd	ed fine sand laye	ers at					-	┨	1	1			
Mw9 (9-11)	24"	3,3,	10	11 +0 15	عره '		ئے	1	)	1	_	1	M	1			1:
	<b> </b>	<u> </u>	E					1	1			4	1	}	1	1	
149	24	4,4,	E .,	Grey clay	, solt, wet at 13	269			1								
(11-13)	"	4	E '	1						1	-				1	1	
- MW9	<del>                                     </del>	4,6,	T	Ì					1	1		1		1		}	
13-15	24"	7	F'					1		1	-	1	1	1		1	1
MW9	+	1	卡					1		1	-	-		1			-
[15-17	24"	3,3,	F-16	. ]							-	İ					
		-	E-	ļ	······································		<del></del>	<b>-</b>	4			_  ·	W	1			
, AW9		3,4,	<u></u>	8 Grey silty	sand, trace clay	, wet		1		1	1	1	ł		1		
(17-	36"	· '4			•	•			1		-			1			
. 20)		İ	F														
	<del> </del>	1	- 2	`\				1	-			†		7			
	1	1	F					1						1	1	1	1
i			E	İ								-					ļ
			E									İ	ļ				
			上	1												1	
lho	reby	certlit	v tha	t the informat	ion on this form i	s true	and o	correc	t to 1	he be	est of	mv l	nowl	edae			
	alure	<u> </u>	, wa	o mionnat	ion on this total t		Firm	1	-, 1			,	·····				
		700	en	Inalda	nel			En	iron	nenta	J As	Social	es, 1,	nc .			
his					147 and 162, Wis. St	ats. Cor	npletio						_,		eit not	less	
an	\$10 no	or mor	e than	\$5,000 for each v	violation. Fined not le	ss than	\$10 or	more	than S	100 or	impris	oned r	iot less	than 3	30 days		
both	an \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.																

D. CM-hard Description	lid Waste 🛘 Haz. Waste 🗖 & Repair 🗷 Underground		MONTTORING WELL CONSTRU Form 4400-113A R	UCTION ev. 4-90
Facility/Project Name	Local Grid Location of Wel		Well Name	
Silver Terrace Center	ft. OS.	ft. 🗆 E.	MW9	
Facility License, Permit or Monitoring Number	Grid Origin Location	LI W.	Wis, Unique Well Number DNR Well	Number
	LatL	ong. or		
Type of Well Water Table Observation Well 11			Date Well Installed	=
Piezometer 12	St. Plane ft.		$\frac{1}{m} \frac{1}{m} \frac{1}{d} \frac{03}{d} \frac{9}{y}$	8
Distance Well Is From Waste/Source Boundary	Section Location of Waste/S		Well Installed By: (Person's Name and	Firm)
Unknown ft	NW1/4 of NW 1/4 of Sec.	35, T. 8 N, R. 21 W.	Wisconsin Soil Testing / Chuc	
Is Well A Point of Enforcement Std. Application?	Location of Well Relative to		Wisconsin - on resing I chue	
Yes No		☐ Sidegradient	,	
	d Downgradient n		<b>—</b> V	- N
A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	_	□ No.
B. Well casing, top elevation	ft. MSL	2. Protective cov	• •	00.
*	·IH	a. Inside diam	_	8.0 in.
C. Land surface elevation O .O	ft. MSL	b. Length:		1.0ft
D. Surface seal, bottom ft. MSL or _	05 ft.	c. Material:		☑ 04
			Other	-
12. USCS classification of soil near screen:	7	d. Additional	protection?	□ No
GP GM GC GW SW G	SP 🗵	If yes, desc	ribe: Expandable locking well co	P
SM C SC MLD MH CL B	CHL	3. Surface seal:	Bentonite	<b>3</b> 0
		3.04120.24	Concrete	<b>⊠</b> 01
	No S	<b>*</b> \	Other	
14. Drilling method used: Rotary	50	34. Material betw	een well casing and protective pipe:	
Hollow Stem Auger			Bentonite	☑ 30
Other 🗆			Annular space seal	□ 48
	01 99 No		Other	
15. Drilling fluid used: Water 02 Air 0	01	5. Annular space	e seal: a. Granular Bentonite	
Drilling Mud 🔲 03 None 🗷	99		gal mud weight Bentonite-sand slurry	<b>3</b> 3 5
			gal mud weight Bentonite slurry	
16. Drilling additives used?  Yes	No S		ntonite Bentonite-cement grout	
			Ft 3 volume added for any of the above	
Describe	I 💹 I	f. How insta	•	<b>0</b> 01
17. Source of water (attach analysis):			Tremie pumped	□ 02
	<b>₩</b> .		Gravity	
		6. Bentonite sez		
E. Bentonite seal, top ft. MSL or	05 ft.	CY C	. ⊠3/8 in. □ 1/2 in. Bentonite pellets	_
E. Bellwitte sea, wp		2005	Other	
F. Fine sand, top ft. MSL or _	_1.5 ft.		uerial: Manufacturer, product name & m Red Flint Sand	
G. Filter pack, top ft. MSL or _	1. 174		odded 1 bag @ 50# *2	
G. Filter pack, top ft. MSL or _			naterial: Manufacturer, product name and	
H. Screen joint top ft. MSL or _	50 6	o. Filter pack if	Red Flint Sand	mesn size
H. Screen joint, top n. MSL or _			diled 10 bags @ 50# 30	
A MCI of	70 of	1.4		E 13
I. Well bottom ft. MSL or_	TE	9. Well casing:		
. 101	2000		Flush threaded PVC schedule 80	_
J. Filter pack, bottom ft. MSL or _	20.0 11.		Other	<u> </u>
		10. Screen mate	rial: PVC	
K. Borehole, bottom ft. MSL or _	20.0 II.	a. Screen ty		
			Continuous slot	01
L. Borehole, diameter 8 25 in.	1		Other	
		1	wer Environmental Monnfacturin	, .
M. O.D. well casing 225 in.		c. Slot size:		0.010 in
		d Slotted le	ength:	15.0ft
N. I.D. well casing Z O O in.		11. Backfill mat	erial (below filter pack): None	<b>2</b> 14
			Other Other	
I hereby certify that the information on the	nis form is true and co	rrect to the best of my		
Signature	Firm .			
Mill Wienerschuck	Environ	mental Associates,	Inc.	
Please complete both sides of this form and return	to the appropriate DNR offic	e listed at the top of this for	m as required by chs. 144, 147 and 160, \	Vis. Stats

		ste □ Wastewater □ rground Tanks □ Oth		
Facility/Project Name	County Name		Well Name	<u> </u>
5: Iver Terrace Center		scelle	MW-	9
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well No	umber DNR We	II Number
1. Can this well be purged dry?	Yes 🛘 No	11 Denth to Water	Before Development	After Development
2. Well development method surged with bailer and bailed surged with bailer and pumped surged with block and bailed surged with block and pumped surged with block, bailed and pumped compressed air bailed only pumped only pumped slowly Other  3. Time spent developing well  4. Depth of well (from top of well casisng)  5. Inside diameter of well  6. Volume of water in filter pack and well casing  7. Volume of water removed from well  8. Volume of water added (if any)  9. Source of water added	41 61 42 62 70 20 10 51 50 30 min. 6.2 ft. 7.9 7 in. 5.3 gal. 6.0 gal.	11. Depth to Water (from top of well casing)  Date  Time  12. Sediment in well bottom  13. Water clarity  Fill in if drilling fluid solids  15. COD	a/4. <u>8</u> 8 ft.  b/1 3	
16. Additional comments on development:				
Well developed by: Person's Name and Firm  Name: Try Martin  Firm: Purity will he source	a de	I hereby certify that of my knowledge.  Signature:  Print Initials:	the above information is to the above information in the above information is to the above information in the above information in the above information in the above information in the above information in the above information in the above information in the above information in the above information in the above information in the above in the above information in the above information in the above information in the above in the above in the above information in the above in the above information in the above in the above in the above in the above in the above in the above in the above in the above in the above in the above in the above in the above in the above in the above in the above in the above in the above in t	true and correct to the best
		Firm:	inouncell of	52,000

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.



DECEMBER 1981

WI DNR Certified Lab #445027660

JUN 2 3 1998

JOE MICHAELCHUCK

ENVIRONMENTAL ASSOCIATES INC

PO BOX 136

THIENSVILLE WI 53092

Project#:

97-03553

Project:

Silver Terrace Center

Sample ID:

MW-5-10'-12'

Lab Code:

5021690A

Sample Type:

Soil

Report Date:

18-Jun-98

Sample Date:

03-Jun-98

Test	Result	LOD	LOQ	Unit	Dilution Factor	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	88.7			%		05-Jun-98	JHL	1
MODIFIED DRO WDNR SEP 95	< 10	0.29		MG/KG	1	05-Jun-98	BNR	1

LOD = Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ.

LOQ = Limit of Quantitation

#### QC SUMMARY

CODE:

4

All laboratory QC requirements were met for this sample.



WI DNR Certified Lab #445027660

## VOC Method 8260 Volatile Organic Compounds

(Methanol Preserved)

JOE MICHAELCHUCK ENVIRONMENTAL ASSOCIATES INC PO BOX 136 THIENSVILLE WI 53092

Report Date: Analyzed By: 18-Jun-98

CJR

ANALYTE	RESULT	LOD	LOQ ·	Dilution
	\$ \$400; \$ \$420g	UG/KG	UG/KG	Factor
Benzene	< 25	6.2	21	1
Bromobenzene	< 25	4.3	14	1
Bromodichloromethane	< 25	6.5	22	1
n-Butylbenzene	< 25	3.1	10	1
sec-Butylbenzene	< 25	4.1	14	1
tert-Butylbenzene	< 25	6.5	22	1
Carbon Tetrachloride	< 25	4	13	1
Chlorobenzene	< 25	5.3	18	1
Chloroethane	< 25	11	37	1
Chloroform	< 25	3.1	10	1
Chloromethane	< 25	6.9	23	1
2-Chlorotoluene	< 25	4.6	15	1
4-Chlorotoluene	< 25	4.4	15	1
1,2-Dibromo-3-Chloropropa	ne < 25	11	37	1
Dibromochloromethane	< 25	5.4	18	3 1
1,2-Dichlorobenzene	< 25	3.6	1	2 1
1,3-Dichlorobenzene	< 25	4.4	4 1	5 1
1,4-Dichlorobenzene	< 25	4.	4 1	5 1
Dichlorodifluoromethane	< 25	1	1 3	7 1
1,1-Dichloroethane	< 25	4.	7 . 1	6 1
1,2-Dichloroethane	< 25	8.	3 2	1   5
1,1-Dichloroethene	< 25	4.	5 1	5 1
cis-1,2-Dichloroethene	< 25		5 1	7 1
trans-1,2-Dichloroethene	< 25	4.	.5 1	5 1
1,2-Dichloropropane	< 25	4.	.2 1	4 1
1,3-Dichloropropane	< 25	4	.3 1	5 1

Dibromofluoromethane Sur	98	% Rec.
1,2-Dichloroethane-d4 Sur	100	% Rec.
Toluene-d8 Sur	98	% Rec.
4-Bromofluorobenzene Sur	100	% Rec.

Project #:

97-03553

Project: Silver Terrace Center Sample ID: MW-5-10'-12'

Lab Code: Sample Type:

5021690A Soil

Sample Date: 03-Jun-98 16-Jun-98 Date Analyzed:

ANALYTE	RESULT	LOD	LOQ	Daction
	1 X	UG/KG	UG/KG	Factor
2,2-Dichloropropane	< 25	4	13	1
Di-Isopropyl ether	< 25	3	10	1
Ethylbenzene	< 25	4.4	15	1
EDB (1,2-Dibromoethane)	< 25	3.5	12	1
Hexachlorobutadiene	< 25	7.5	25	1
Isopropylbenzene	j< 25	5.2	17	1
p-Isopropyltoluene	< 25	3.1	10	1
Methylene chloride	< 25	10	35	1
MTBE	< 25	5.6	19	1
Naphthalene ·	< 25	4.2	14	1
n-Propylbenzene	< 25	4.5	15	1
1,1,2,2-Tetrachloroethane	< 25	3.4	11	1
Tetrachloroethene	< 25	6.1	21	1
Toluene	< 25	5.3	18	1
1,2,3-Trichlorobenzene	< 25	4	14	1
1,2,4-Trichlorobenzene	< 25	4.4	15	1
1,1,1-Trichloroethane	< 25	6.7	22	1
1,1,2-Trichloroethane	< 25	3.7	1 12	1
Trichloroethene	< 25	4.5	5 15	5 1
Trichlorofluoromethane	< 25	1	4 45	5 1
1,2,4-Trimethylbenzene	< 25	4.	5 1	5 1
1,3,5-Trimethylbenzene	< 25	.4.	1 1	4 1
Vinyl Chloride	< 25	5.	6 1	9 1
m&p-Xylene	< 50	8.	2 2	7 1
o-Xylene	< 25	2.	5 8.	4 1

LOD = Limit of Detection

LOQ = Limit of Quantitation

QC Batch #

120204

Total % Solids

63

GCMS #12



WI DNR Certified Lab #445027660

## QC Summary

## Method 8260 Volatile Organic Compounds

Project #: Sample ID: 97-03553 MW-5-10'-12' Report Date: Lab Code: 18-Jun-98 5021690A

ANALYTE	INITIAL	KNOWN	INTSTD	COHTAM	LCS	MATRIX	MATRIX
	CALIBRATION	STANDARD	AREA Y	BLANK		SPIKE	SPIKE RPD
Banzane	P	P	P	P	P	P	P
Bromobenzene	P	P	P	P	P	Р	P
Bromodichloromethane	P	P	P	P	P	P	P
n-Butylbanzana	P	P	P	P	P	. P	P
sec-Butylbenzene	P	P	P	P	P	P	P
er-Butylbenzene	P	P	P	P	P	P	Р
Carbon Tetrachloride	P	P	P	P	P	P	P
Chlorobenzene	P	P	P	P	P	P	P
Chlorosthane	P	P	P	P	F	F	P
Chloroform	P	P	P	P	• P	P	P
Chloromethane	P	P	P	P	F.	F	P
2-Chlorotoluene	P	P	P	P	P	P	P
4-Chlorotoluene	P	P	P	P	P	P	P
1,2-Dibromo-3-Chloropropane	P	P	P	P	P	P	P
Dibromochloromethane	P	P	P	P	P	P	P
1,2-Dichlorobenzene	P	P	P	P	P	P	P
1,3-Dichlorobenzene	P	P	P	P	P	P	P
1,4-Dichlorobenzene	P	P	P	Р.	P	P	P
Dichlorodifluoromethane	P	P	P	P	F	F	F
1,1-Dichloroethane	P	P	P	P	P	P	P
1.2-Dichloroethane	P	P	P	P	P	P	P
1.1-Dichloroethene	P	P	P	P	F	P	P
cis-1,2-Dichloroethene	P	P	P	P	P	P	P
trans-1,2-Dichloroethene	P	P	P	P.	P	P	P
1,2-Dichloropropane	P	P	P	Р	. P	P	P
1,3-Dichloropropane	P	P	P	P	P	P	P
2,2-Dichloropropane	P	P	P	Р	F	P	P
Di-isopropyl Ether	P	P	P	P	P	P	Р
Ethylbenzene	P	P	P	P	P	P	Р
EDB (1,2-Dibromoethane)	P	P	P	P	P	P	Р
Hexachlorobutadiene	P	P	P	P	P	P	P
Iscorpovibenzene	P	P	P	P	P	P	P
p-Isopropyttoluene	P	P	P	P	P	P	P
Methylene Chloride	P	P	P	P	P	P	P
MTBE	P	P	P	P	P	P	P
Nachthalene	P	P	P	P	P	P	P
r-Propylbenzene	P	P	P	P	P	P	. P
1.1.2.2-Tetrachlorpethane	P	P	P	P	P	P	P
Tetrachioroethene	P	P	P	P	P	P	. P
Toluena	·P	P	P	P	P . P	P	. Р
1.2.3-Trichlorobenzene	P	, p	P	P	P	P	· p
1,2,4-Trichlorobenzene	P	P	P	P	P	P	P
1.1.1-Trichloroethane	P	P	P	P	P	P	P
11.1.2-Trichlorosthane	P	P	P	P	P	P	; P
Trichlorethene	P	P	P	P	P	P	P
Trichlorofucomethana	P	P	P	P	F	F	
	P	P		P	P	P	P
1.2.4-Trimethylbenzene		P	P		P	,	, P
1,3,5-Trimethylbenzene	Р		P	P	1 .	P	. P
Vinyl Chlorida	P	P	P	P	F	F	P
m2p-Xylene	P	P	Р	P	P	P	. Р
o-Xylene	P	P	P	P	l P	P	. P

SPCC 1,1-Dichloroethane P
SPCC 1,1,2,2-Tetrachloroethane P
SPCC Bromoform P
SPCC Chlorobenzene P
SPCC Chloromethane P

QC Batch # 120204
F = Failed QC limits.
P = Passed CC limits.
NA = Not Approable

Authorized Signature

A Comment of the Comm



WI DNR Certified Lab #445027660

JOE MICHAELCHUCK

**ENVIRONMENTAL ASSOCIATES INC** 

PO BOX 136

THIENSVILLE WI 53092

Project #:

97-03553

Project:

Silver Terrace Center

Sample ID:

MW5-18'-20'

Lab Code:

5021690B

Sample Type:

Soil

Report Date:

· 18-Jun-98

Sample Date:

e Date: 03-Jun-98

Test	Result	LOD	08 A A 1990 3.53 d	Unit	Dilution Factor	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	82.1	·		%		89-nuL-20	JHL	1
MODIFIED DRO WDNR SEP 95	< 10	0.29	0.97	MG/KG	-1	89-nuL-20	BNR	1

LOD = Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ.

LOQ = Limit of Quantitation

QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature

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WI DNR Certified Lab #445027660

# VOC Method 8260 Volatile Organic Compounds (Methanol Preserved)

JOE MICHAELCHUCK **ENVIRONMENTAL ASSOCIATES INC** PO BOX 136 THIENSVILLE WI 53092

Report Date:

18-Jun-98

Analyzed By:

CJR

Project #: Project:

97-03553

Silver Terrace Center MW5-18'-20'

Sample ID: Lab Code:

5021690B

Sample Type:

Soil

Sample Date:

03-Jun-98

Date Analyzed:

17-Jun-98

ANALYTE	RESULT	LOD	LOO	Dilution
		UG/KG	UG/KG	Factor
Benzene	< 25	6.2	21	1
Bromobenzene	< 25	4.3	14	1
Bromodichloromethane	< 25	6.5	22	1
n-Butylbenzene	< 25	3.1	10	1
sec-Butylbenzene	< 25	4.1	14	1
tert-Butylbenzene	< 25	6.5	22	1
Carbon Tetrachloride	< 25	4	13	1
Chlorobenzene	< 25	5.3	18	1
Chloroethane	< 25	11	37	1
Chloroform	< 25	3.1	10	1
Chloromethane .	< 25	6.9	23	1
2-Chlorotoluene	< 25	4.6	15	1
4-Chlorotoluene	< 25	4.4	15	1
1,2-Dibromo-3-Chloropropan	e < 25	11	37	1
Dibromochloromethane	< 25	5.4	18	1
1,2-Dichlorobenzene	< 25	3.6	12	1
1,3-Dichlorobenzene	< <b>2</b> 5	4.4	15	5 1
1,4-Dichlorobenzene	< 25	4.4	‡ 15	5 1
Dichlorodifluoromethane	< 25	1:	1 31	7 1
1,1-Dichloroethane	< 25	4.	7 18	3 1
1,2-Dichloroethane	< 25	8.3	3 2	5 1
1,1-Dichloroethene	< 25	4.	5 1.	5 1
cis-1,2-Dichloroethene	< 25		5 1	7 1
trans-1,2-Dichloroethene	< 25	4.	5 1	5 1
1,2-Dichloropropane	< 25	4.	2 1	4 1
1.3-Dichloropropane	< 25	4.	3 1	5 1

Dibromofluoromethane	Sur	93	% Rec.
1,2-Dichloroethane-d4	Sur	100	% Rec.
Toluene-d8 Sur		99	% Rec.
4-Bromofluorobenzene	Sur	101	% Rec.

ANALYTE	RESULT			Diction	Ħ
		UG/KG	UG/KG	Factor	
2,2-Dichloropropane	< 25	4	13	1	
Di-Isopropyl ether	< 25	3	10	1	
Ethylbenzene	< 25	4.4	15	1	
EDB (1,2-Dibromoethane)	< 25	3.5	12	1	Ä
Hexachlorobutadiene	< 25	7.5	25	1	
Isopropylbenzene	< 25	5.2	17	1	
p-Isopropyltoluene .	< 25	3.1	10	1	
Methylene chloride	< 25	10	35	1	F
MTBE	< 25	5.6	19	1	4
Naphthalene .	< 25	4.2	14	1	
n-Propylbenzene	< 25	4.5	15	1	
1,1,2,2-Tetrachloroethane	< 25	3.4	11	1	
Tetrachloroethene	< 25	6.1	21	1	- <del>1</del>
Toluene	< 25	5.3	18	3 1	-
1,2,3-Trichlorobenzene	< 25	4	14	1	F
1,2,4-Trichlorobenzene	< 25	4.4	15	5 1	- 1
1,1,1-Trichloroethane	< 25	6.7	22	2 1	
1,1,2-Trichloroethane	< 25	3.7	7 12	2 1	-
Trichloroethene	< 25	4.5	5 15	5 1	-
Trichlorofluoromethane	< 25	14	4	5 1	
1,2,4-Trimethylbenzene	< 25	4.5	5 1:	5 1	i
1,3,5-Trimethylbenzene	< 25	4.	1 1	4 1	
Vinyl Chloride	< 25	5.0	6 1	9 1	
måp-Xylene	< 50	8.	2 2	7 1	Ì
o-Xylene	< 25	2.	5 8.	4 1	!

LOD = Limit of Detection

LOQ = Limit of Quantitation

QC Batch #

120204

Total % Solids

82

GCMS #12



WI DNR Certified Lab #445027660

## QC Summary

# Method 8260 Volatile Organic Compounds

Project #: Sample ID: 97-03553 MW5-18'-20' Report Date: Lab Code: 18-Jun-98 50216903

ANALYTE	INITIAL	KNOWN	INT STD	METHOD	LCS	MATRIX	MATRIX
	CALIBRATION.	STANDARD	AREA %	BLANK :	SPIKE	SPIKE	SPIKE RPD
Benzene	P	P	P	P	P	P	P
Bromobenzene	P	P	P	P		P	P
Bromodichloromethane	P	P		P	Р	P	
i-Butylbenzene	P	P	P	P	P		P
ec-Butylbenzene	P	P	Р	P	P	Р	P
art-Butylbanzene	Р	P	P	P	P	P	! P
Carbon Tetrachloride	P	P	P	P	P	P	P
Chlombenzene	P	P	P	P	P	P	P
Chloroethane	P	P	P	P	F	F	P
Chloroform	P	P	P	P	P	P	P
Chloromethane	P	P	P	P	F	F	P
2-Chloratoluene	P	P	P	P	P	P	i P
4-Chlorotoluene	P	P	P	P	P	P	P
1,2-Dibromo-3-Chloropropane	P	P	P	P	P	P	P
Dibromochloromethane	P	P	P	P	P	P	P
1.2-Dichlorobenzene	P	P	P	P	P	P	P
1.3-Dichlorobenzene	P	P	P	. P	P	P	P
1.4-Dichlorobenzene	P	P	i P	P	P	P	P
Dichlorodifluoromethane	P	P	P	P	F	F	. F
1.1-Dichloroethane	P	P	l P	P	P	P	P
1.2-Dichloroethane	P	P	P	P	· P	P	P
1,1-Dichloroethene	P	P	P	P	F	P	1 P
ais-1,2-Dichloroethene	P	P	P	P	P	P	P
trans-1.2-Dichloroethene	P	P	P	P	P	P	P
1.2-Dichloropropane ··	P	P	P	P	P	P	P
1.3-Dichloropropane	P	P	P	P	P	P	P
2,2-Dichloropropane	P	P	P	P	F	P	P
Di-isopropyl Ether	P	P	P	P	P	P	P
	P	P	P	P	P	P	P
Ethylbenzene EDB (1,2-Dibromoethane)	P	P	P	P	P	P	P
Hexachlorobutadiene	P	P	P	P	P	P	P
	P	P	P	P	P	P	P
Isopropy:benzene	P	P	P	P	P	P	P
p-Isopropytoluene	P	P	P	P	P	P	. P
Methylene Chloride					P	P	P
MTBE	P	P	i P	P	P	P	
Nachthalene	P		P	P	P	P	P
n-Propylbenzene	P	P	P	P		P	P
1,1,2,2-Tetrachlomethane	P	P	P	P	P	1	
Tetrachloroethene	P	P	P	P	P	P	P
Tcluene	P	P	P	P	P	P	P
1,2,3-Trichlorobenzena	P	P	P	P	P	P	P
1,2,4-Trichlorobenzene	P	P	P	P	P	P	. P
1,1,1-Trichloroethane	P	P	P	P	P	P	. P
1,1,2-Trichlorpethane	P	P	P	P	P	P	, P
Trichlorsethene	P	P	P	į P	P	P	P
Trichlorofluoromethane	P	P	P	P	F	F	P
1,2,4-Trimethylbenzene	P	P	P	P	P	P	P
1,3,5-Tnmethylbenzene	P	P	į P	P	P	P	: P
Vinyl Chloride	P	P	i P	P	F	F	: P
m&p-Xylene	P	P	I P	P	. P	P	P
c-Xylene	9	P	i p	P	ا ا	P	2

SPCC 1,1-Dichloroethane P
SPCC 1,1,2,2-Tetrachloroethane P
SPCC Bromoform P
SPCC Chlorobenzene P
SPCC Chloromethane P

QC Batch = 120204
F = Failed QC limits.
P = Passed QC limits.
NA = Not Applicable

Authorized Signature

Jisa -



WI DNR Certified Lab #445027650

## VOC Method 8260 Volatile Organic Compounds (Methanol Preserved)

JOE MICHAELCHUCK **ENVIRONMENTAL ASSOCIATES INC** PO BOX 136 THIENSVILLE WI 53092

Report Date: Analyzed By: 18-Jun-98

CJR

ANALYTE	RESULT		LOQ	Dilution
		UG/KG	UG/KG	Factor
Benzene	< 25	6.2	21	1
Bromobenzene	< 25	4.3	14	1
Bromodichloromethane	< 25	6.5	22	1
n-Butylbenzene	< 25	3.1	10	1
sec-Butylbenzene	< 25	4.1	14	1
tert-Butylbenzene	< 25	6.5	22	1
Carbon Tetrachloride	< 25	4	13	1
Chlorobenzene	< 25	5.3	18	1
Chloroethane	< 25	11	37	1
Chloroform	< 25	3.1	10	1
Chloromethane	< 25	6.9	23	1
2-Chlorotoluene '	< 25	4.8	15	1
4-Chlorololuene	< 25	4.4	15	5 1
11,2-Dibromo-3-Chloropropar	ie < 25	11	37	7 1
Dibromochloromethane	< 25	5.4	18	3 1
1,2-Dichlorobenzene	< 25	3.6	5 12	2 1
1,3-Dichlorobenzene	< 25	4.	4 1:	5 1
1,4-Dichlorobenzene	< 25	4.	4 1	5 1
Dichlorodifluoromethane	< 25	1	1 3	7 1
1,1-Dich!oroethane	< 25	4.	7 1	6 1
1,2-Dichloroethane	< 25	8.	3 2	8 1
1,1-Dichloroethene	< 25	4.	5 1	5 1
cis-1,2-Dichloroethene	< 25		5 1	7 1
trans-1,2-Dichloroethene	< 25	4	.5 1	5 1
1,2-Dichloropropane	< 25	4	.2 1	4 1
1,3-Dichloropropane	< 25	4.	3 1 1	5 1

Dibromofluoromethane Sur 93 % Rec. 1,2-Dichloroethane-d4 Sur 100 % Rec. Toluene-d3 Sur 99 % Rec. 4-Bromofluorobenzene Sur 99 % Rec. Project #: Project:

97-03553

Silver Terrace Center

Sample ID: Lab Code:

MW6-12'-14' 5021690C

Sample Type: Sample Date: Soil

Date Analyzed:

03-Jun-98 17-Jun-98

ANALYTE	RESULT	LOD		Diktion	n
		UG/KG	UG/KG	Factor	H
2,2-Dichloropropane	< 25	4	13	1	
Di-Isopropyl ether	< 25	3	10	1	ii.
Ethylbenzene	< 25	4.4	15	1	i i
EDB (1,2-Dibromoethane)	< 25	3.5	12	1	Ę
Hexachlorobutadiene	< 25	7.5	25	1	
Isopropylbenzene	< 25	5.2	17	1	H
p-Isopropyltoluene	< 25	3.1	10	1	H
Methylene chloride	< 25	10	35	1	1
MTBE .	< 25	5.6	19	1	1
Naphthalen <b>e</b>	< 25	4.2	14	1	F
n-Propylbenzene .	< 25	4.5	15	1	ļ.
1,1,2,2-Tetrachloroethane	< 25	3.4	11	1 1	
Tetrachioroethene	< 25	6.1	21	1 1	ļ
Toluene	< 25	5.3	3 18	3 1	É
1,2,3-Trichlorobenzene	< 25	1	14	4 1	- I
1,2,4-Trichlorobenzene	< 25	4.4	4 1:	5 1	
1,1,1-Trichloroethane	< 25	6.	7 2	2 1	
1,1,2-Trichloroethane	< 25	3.	7 1	2 1	- }
Trichloroethene	< 25	4.	5 1	5 1	;
Trichlorofluoromethane	< 25	1	4 4	5 1	
1,2,4-Trimethylpenzene	< 25	4.	5 1	5 1	:
1,3,5-Trimethylbenzene	< 25	4.	1 1	4 1	1
Vinyl Chloride	< 25	5.	6 1	9 1	;
m&p-Xylene	< 50	8	.2 2	7 1	
o-Yylone	< 25	2.	5 8	.4 1	

LOD = Limit of Detection

LOQ = Limit of Quantitation

QC Batch #

120204

Total % Solids

GCMS #12



WI DNR Certified Lab #445027660

# QC Summary

# Method 8260 Volatile Organic Compounds

Project #: Sample ID: 97-03553 MW6-12'-14'

Report Date: Lab Code:

18-Jun-98 50216900

ANALYTE	ENITIAL	KNOWN	INT STD	METHOD	LCS	MATRX	MATRIX
Benzene	CALIBRATION		AREA Y	BLANK	SPIKE	SPIKE	SPIKE RPD
eneznedomonE	P	P	Р	P	P	P	1 DINCHED
Bromodichloromethane	P	Р	P	P	P	P	P
n-Butylbenzana	P	P	P	Р	P	P	l P
sec-Butylbenzene	'	Р	P	Р	Р	P	P
ert-Butylbanzana	P	P	P	P	Р	P	P
Sarbon Tetrachloride	P	Р .	Р	Р	Р	þ	P
Chlombenzene	P	Р	Р	Р	Р	P	P
Chloroethane	P	P	P	P	P	P	P P
Chloroform	P	P	P	P	F	· F	i P
Chlommethane	P	Р	P	Р	P	P	P
2-Chlorotoluene	Р	P	P	P	F	F	
4-Chlorotoluene	Р	Р	Р	P	. P	r P	Р
1,2-Dibromo-3-Chloropropane	Р	P	P	P	P	P	P
Dibromochloromethane	Р	P	P	P	P	P	Р
1,2-Dichlombenzene	P	P	P	P	P	P	P
1,3-Dichlorobenzene	Р	Р	P	P	P	P	Р
1,4-Dichlorobenzene	Р	Р	P	P	P	P	P
Dishlorodifluoromethane	Ρ.	P	P P	P	P		Р
1.1-Dichloroethana	P	P	P	P	F	P	Р
1,1-Dictioroethana 1,2-Dichloroethana	Р	P	P	P	P	F	F
1,1-Dichlorpethene	P	P	P P	P	P	P	P
	P	P	P	P	F	P	Р
is-1,2-Dichloroethene	Р	P	P	P		Р	P
rans-1,2-Dichloroethene	P	P	P	P	Р	Р	P
1,2-Dichloropropene	P	P	P	. P	Р	. Р	Р.
1,3-Dictioropropane	P	P	P	P	P	F	Р
2,2-Dichloropropene	P	P	P		Р	P	Р
Di-Isopropyl Ether	P	P	P	Р	· F	Р	Р
eneznedlyttä	P	P	P	P	P,	Р	P
EDB (1,2-Dibromoethane)	P	P	P !	P	P	P	P
Hexachlorobutadiene	P	P	P	P	P	P	Р
sopropylbenzene	P	P	P	P	Þ	F	Р
p-I sopropytoluene	P	P	P = 1	P	P	2	P
ebholdD enelytte!	P	P	, ,	P	Р	F	P
MTBE	, P	P	Р	P	Р	P	P
Naphthalene	P	P	Р	P	P	F	, p
~Propylbanzena	P	P	P	P	P	F	; 'p
1.1,2.2-Tetrachloroethane	P	P	Р	P	P	P	, P
enertecnoirtsettei	P	P	Р	۶	Р	٩	P
follone	P	P	Р	P	Р	P	. Þ
1,2,3-Trichlombenzene	P	P	Р	P	Р	F	. p
1,2,4-Trichlombenzene	P	P	P	P	P	٩	, p
1.1.1-Trichloroethane	P	P	Р	P	· P	P	
1.1,2-Trichloroethane	P	,	Р	Р	Р	F	: [
inchloroethene	P	P	P	Р	P	F	, b
inchlorofluoromethane	P	Р	P	Р	Р	F	. P
1,2,4-Trimethylbenzene	P	P	P	P	F	F	. P
1,3,5-Trimethylbenzene		Р	Р	P	P	, P	. P
Sinyl Chloride	P	Р	Р	P	P	, P	, P
nåp-Xylene	P	Р	Р	P	F	F	
:-Xylena	P	Р	Р	P	P	F	. P
PATRONE	Р	P	Р	P	P		P

SPCC 1,1-Dichloroethane P
SPCC 1,1,2,2-Tetrachloroethane P
SPCC Bromoform P
SPCC Chlorobenzene P
SPCC Chloromethane P

QC Batch # 120204
F = Falled QC fimits.
P = Passed QC limits.
NA = Not Applicable

Authorized Signature

A Section of the sect



WI DNR Certified Lab #445027660

# VOC

Method 8260 Volatile Organic Compounds (Methanol Preserved)

JOE MICHAELCHUCK ENVIRONMENTAL ASSOCIATES INC PO BOX 136 THIENSVILLE WI 53092

Report Date: Analyzed By:

CJR

18-Jun-98

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
Benzene	< 25	6.2	21	1
Bromobenzene	< 25	4.3	14	1
Bromodichloromethane	< 25	6.5	22	1
n-Butylbenzene	< 25	3.1	10	1
sec-Butylbenzene	< 25	4.1	14	1
tert-Butylbenzene	< 25	6.5	22	1
Carbon Tetrachloride	< 25	4	13	1
Chlorobenzene	< 25	5.3	18	1
Chloroethane	< 25	11	37	1
Chloroform	< 25	3.1	10	1
Chloromethane	< 25	6.9	23	1
2-Chlorotoluene	< 25	4.6	15	1
4-Chlorotoluene	< 25	4.4	15	1
1,2-Dibromo-3-Chloropropane	e < 25	11	37	1
Dibromochloromethane	< 25	5.4	18	3 1
1,2-Dichlorobenzene	< 25	3.6	12	2 1
1,3-Dichlorobenzene	< 25	4.4	15	5 1
1,4-Dichlorobenzene	< 25	4.6	15	5 1
Dichlorodifluoromethane	< 25	11	1 37	7 1
1,1-Dichloroethane	< 25	4.7	7 15	5 1
1,2-Dichloroethane	< 25	8.3	3 2	3 1
1,1-Dichloroethene	< 25	4.	5 1	5 1
cis-1,2-Dichloroethene	< 25		5 1	7 1
trans-1,2-Dichloroethene	< 25	4.	5 1	5 1
1,2-Dichloropropane	< 25	4.	2 1	4 1
	1 .	1	1	1

88	% Rec.
100	% Rec.
93	% Rec.
100	% Rec.
	100 99

< 25

Project #: 97-03553
Project: Silver Terrace Center

Project : Sample ID:

MW6-18'-20'

Lab Code: Sample Type: 5021690D Soil

Sample Date: Date Analyzed: 03-Jur-98 17-Jur-98

e / that y zoo.	.,	0011 00
ANALYTE	R	ESULT

ANALYTE	RESULT	LOD		Divisor	
	MA NA	UG/KG	UG/KG	Factor	
2,2-Dichloropropane	< 25	4	13	1	
Di-Isopropyl ether	< 25	3	10	1	1
Ethylbenzene	< 25	4.4	15	1	
EDB (1,2-Dibromoethane)	< 25	3.5	12	1	
Hexachlorobutadiene '	< 25	7.5	25	1	
Isopropylbenzene	< 25	5.2	17	1	į
p-Isopropyltoluene	< 25	3.1	10	1	
Methylene chloride	< 25	10	35	1	ĺ
MTBE	< 25	5.6	19	1	
Naphthalene	< 25	4.2	14	1	H
n-Propylbenzene	< 25	4.5	15	1	1
1,1,2,2-Tetrachloroethane	< 25	3.4	11	1	ļį.
Tetrachloroethene	< 25	6.1	21	1	ļ.
Toluene	< 25	5.3	18	1	Ĭ.
1,2,3-Trichlorobenzene	< 25	4	14	1	H
1,2,4-Trichlorobenzene	< 25	4.4	1:	5 1	1
1,1,1-Trichtoroethane	< 25	6.7	2:	2 1	f
1,1,2-Trichloroethane	< 25	3.7	7 1:	2 1	1
Trichloroethene	< 25	4.5	5 1:	5 1	1
Trichlorofluoromethane	< 25	14	4 4	5 1	1
1,2,4-Trimethylbenzene	< 25	4.	5 1	5 1	
1,3,5-Trimethylbenzene	< 25	4.	1 1	4 1	1
Vinyl Chloride	< 25	5.	6 1	9 1	- 13
m&p-Xylene	< 50	8.	2 2	7 1	1
o-Xylene	< 25	2.	5 8.	4 1	-1

LOD = Limit of Detection

LOQ = Limit of Quantitation

QC Batch #

120204

Total % Solids

٤2

GCMS #12

Authorized Signature

1,3-Dichloropropane

15



WI DNR Certified Lab #445027660

# QC Summary

# Method 8260 Volatile Organic Compounds

Project #: Sample ID: 97-03553 MW6-18'-20'

Report Date: Lab Code:

18-Jun-98 5021690D

INITIAL KNOWN METHOD LCS MATRIX MATRIX CALIBRATION STANDARD AREA Y BLANK Sanzana SPIKE SPIKE RPD Bromobenzene P Bramodichloromethane P P Р Ρ P n-Butylbanzana Ρ P sec-Butylbanzene P Ρ tart-Burylbenzene P P Carbon Tetrachloride Chlombenzene Chlorosthane Ρ Chioroform Chloromethane P 2-Chlorotoluana P 4-Chlorotoluene 1,2-Dibromo-3-Chloropropane P P Cibromochloromethane P 1,2-Dichlorobenzene 1,3-Dichlorobenzene Ρ 1,4-Dichlorobenzene Dictriorodifluoromethane P 1,1-Dichloroethane Ρ 1,2-Dichloroethane 1,1-Dichlorpethene cis-1,2-Dichloroethene trans-1,2-Dichloroothene Р 1,2-Dichloropropane Ρ Þ Ρ 1,3-Dichloropropana P P P 2,2-Dichloropropane Di-Isopropyl Ether P P Ethylbenzene EDB (1,2-Dibromoethane) P Hexachlorobutadiene Ρ P sopropy!benzene eneulottygengest-q Mathylene Chloride MIRE Maphthalene P P n-Propy!benzene P 1.1.2.2-Tetrachloroethane Tetrachlomethene Toluena 1.2.3-Trichlorobenzene P 1,2,4-Trichlorobenzene 1.1,1-Trichiprostrane P 1,1,2-Trichloroethane Trichloroethene enartemenouthmethans 1,2,4-Trimethylbenzene Р Р 11,3,5-Trimethylberizene ebhotra lyn'y P m&p-Xylene c-Xylena

SPCC 1,1-Dichloroethane P
SPCC 1,1,2,2-Tetrachloroethane P
SPCC Bromoform P
SPCC Chlorobenzene P
SPCC Chloromethane P

QC Batch # 120204
F = Falled QC limits.
P = Passed QC limits.
NA = Not Applicable

Authorized Signature

file



WI DNR Certified Lab #445027660

JOE MICHAELCHUCK

**ENVIRONMENTAL ASSOCIATES INC** 

PO BOX 136

THIENSVILLE WI 53092

Project #:

97-03553

Project:

Silver Terrace Center

Sample ID:

MW7-6'-8'

Lab Code:

5021690E

Sample Type:

Soil

Report Date:

18-Jun-98

Sample Date:

03-Jun-98

Test	Result	LOD	110 . 1 1 3	Unit	<ul> <li>Section of Control o</li></ul>		Analyzed By:	QC Code
TOTAL SOLIDS	82.7			%		05-Jun-98	JHL	1
MODIFIED DRO WDNR SEP 95	< 10	0.29	0.97	MG/KG	1	. 05-Jun-98	BNR	1

LOD = Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ.

LOQ = Limit of Quantitation

QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature

Jan Marie Ma



WI DNR Certified Lab #445027660

### VOC

## Method 8260 Volatile Organic Compounds (Methanol Preserved)

JOE MICHAELCHUCK **ENVIRONMENTAL ASSOCIATES INC** PO BOX 136 THIENSVILLE WI 53092

Report Date: Analyzed By: 18-Jun-98

CJR

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
Benzene	< 25	6.2	21	1
Bromobenzene	< 25	4.3	14	1
Bromodichloromethane	< 25	6.5	22	1
n-Butylbenzene	< 25	3.1	10	1
sec-Butylbenzene	110	4.1	14	1
tert-Butylbenzene	< 25	6.5	<b>2</b> 2	1
Carbon Tetrachloride	< 25	4	13	1
Chlorobenzene	< 25	5.3	18	1
Chloroethane	< 25	11	37	1
Chloroform	< 25	3.1	10	1
Chloromethane	< 25	6.9	- 23	1 1
2-Chlorotoluene	< 25 .	4.6	15	1
4-Chlorotoluene	< 25	4.4	15	1
1,2-Dibromo-3-Chloropropane	< 25	11	37	1
Dibromochloromethane	< 25	5.4	18	1
1,2-Dichlorobenzene	< 25	3.6	12	1
-1,3-Dichlorobenzene	< 25	4.4	15	5 1
1,4-Dichlorobenzene	< 25	4.4	15	5 1
Dichlorodifluoromethane	< 25	11	37	7 1
1,1-Dichloroethane	< 25	4.7	7 16	3 1
1,2-Dichloroethane	< 25	8.3	3 2	3 1
1,1-Dichloroethene	< 25	4.5	5 1	5 1
cis-1,2-Dichloroethene	< 25		5 1	7 1
trans-1,2-Dichloroethene	< 25	4.	5 1	5 1
1,2-Dichloropropane	< 25	4.3	2 1	4 1

Dibromofluoromethane Sur 99 % Rec. 1,2-Dichloroethane-d4 Sur 100 % Rec. Toluene-d3 Sur 93 % Rec. 4-Bromofluorobenzene Sur 100 % Rec. Project#:

97-03553

Project: Sample ID: Silver Terrace Center MW7-6'-8'

Lab Code:

5021690E

Sample Type:

Soil

Sample Date: Date Analyzed: 03-Jun-98

17-Jun-98

ANALYTE	RESULT	LOD	LOQ	Diuton p
		UG/KG	UG/KG	Factor
2,2-Dichloropropane	< 25	4	13	1
Di-Isopropyl ether	< 25	3	10	1
Ethylbenzene .	< 25	4.4	15	1
EDB (1,2-Dibromoethane)	< 25	3.5	12	1
Hexachlorobutadiene	< 25	7.5	25	1
Isopropylbenzene	< 25	5.2	17	1
p-Isopropyltoluene	< 25	3.1	10	1
Methylene chloride	< 25	10	35	1
MTBE	< 25	5.6	19	1
Naphthalene	< 25	4.2	14	1
n-Propylbenzene	< 25	4.5	15	1
1,1,2,2-Tetrachloroethane	< 25	3.4	11	1
Tetrachloroethene .	< 25	6.1	21	1
Toluene	< 25	5.3	18	1
1,2,3-Trichlorobenzene	< 25	4	14	1 1
1,2,4-Trichlorobenzene	< 25	4.4	15	5 1
1,1,1-Trichloroethane	< 25	6.7	7 22	2¦ 1
1,1,2-Trichloroethane	< 25	3.7	7 12	2 1
Trichloroethene	< 25	4.	5 15	5 1
Trichlorofluoromethane	< 25	1.	4 4	5 1
1,2,4-Trimethylbenzene	< 25	4.	5 1	5 1
1,3,5-Trimethylbenzene	< 25	4.	1 1.	4 1
Vinyl Chloride ·	< 25	5.	6 1	9¦ 1
m&p-Xylene	< 50	8.	2 2	7 1
o-Xylene	< 25	2.	5 8.	4 1

LOD = Limit of Detection

LOQ = Limit of Quantitation

QC Batch #

120204

Total % Solids

83

GCMS #12

Authorized Signature

1,3-Dichloropropane

4.3



# Analytical Laboratory

1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295

# WI DNR Certified Lab #445027650

# QC Summary

# Method 8260 Volatile Organic Compounds

Project #:

97-03553

Report Date:

**18-J**un-98

Sample ID:

MW7-6'-8'

Lab Code:

5021690E

ANALYTE	INITIAL	KNOWN	INT STD	METHOD BLANK	LCS SPIKE	MATRIX SPIKE	MATRIX SPIKE RPD
Benzene	P	P	P	P	P	P	i P
Bromobenzene	P	P	P	P	P	P P	, p
i Bromodichloromethane	P	P	,	P	P	P	P
n-Butylbenzene	P	P	P	P	P	P	P
,sac-Butylbenzene	P	P	P	P	P	P	P
oneznedktylenei	P	P	P .	, P	P	P	P
Carbon Tetrachlorida	Р	P	P	P	P	'p	P
Chlorobenzene	P	P	P	P .	P	P	P
Chloroethane	P	P	, p	P	F	F	P
Crioroform	P	P	ا ا	P	P	P	Р
Chicromethane	P	P	P	P	F	F	P
2-Chlorotoluene	P	P	P	P	P	P	P
4-Chlorotoluene	, p	l p	P	6	, p	P	P
1,2-Dibromo-3-Chloropropane		, p		P	P	, ,	P
Dibmmochlommethane		P	P	P	P	P	F .
1.2-Dichlorobenzene	P	P	P	P	·	P	P
1,2-Dichlorobenzene	P	P	P	P		P	P
1.4-Dichlorobenzene	P	P	P	P	P	P	P
Dichlondifluormettane	P	P	P	P	F	F	F
1.1-Dichloroathane	P	P	P	P	P	F	P
	P	P	P	P	P	P	P
1,2-Dichloroethane	P		P	P	F	P	l P
1,1-Dichloroethene	P	P	P	P	P	P	P
ds-1,2-Dichloroethene		P		1 .	P	P	i P
trans-1,2-Dichloroathene	Р	P	P	Р	1 '	P	
1,2-Dichloropropane	P	P	P ·	P ·	P.	) P	Р
1,3-Dichloropropane	P				F	P	P
2.2-Dichloropropane	P	P	P	P	P	P	
Di-Isopropyl Ether	P	P	P	P	P	P	Р
Ethylbenzene	1 '	P	1 .	P	P	P P	P
EDB (1,2-Dibromoethane)	P		P		1	P	
Hexaphlorobutatione	P	P	Р	P	P	P	P
Isopropylbenzene	Р	P	P	P	P	٩	
p-Isopropyttoluene	P	P	P	P	P	P	Р
Nethylene Chloride	P	P	P	P	P	P	P
MTBE	,		P	P	P	P	P
Naphthalene	P	P			P		
n-2copylbanzane	P	P	P	P		Р	P
1,1,2,2-Tetrachloroethane	P	P	Ď.	P	P	P	P
Tetrachloroethene		Р	1 '	, ,		1 '	
, Toluene	P	P	P	P	P	P	, P
1,2,3-Trichlorobenzene	P	P	P	P	P	P	. P
1,2,4-Trictlombenzana	P	P	P	Р	P	P	P
1,1,1-Trichlorosthane	P	P	1 '	P	P	P	; P
1,1,2-Trichloroethane	P	P	P	P			
Trichloredhere	P	P	P		1	P	P
enartemorouhmothana	P	P	P	P	F	F	! P
1,2,4-Trimethylbenzena	P	Р	P	Р			. P
1,3,5-Titmethylbenzene	P	P	P	P	P	P	. P
Vinyl Chloride	Р	P	P	P	F	F	P
pnelyX-q&m	Р	Р	P	Р	P	P	P
c-Xylene	ļ Р	P	P	P	P	P	P

P
Р
Р
P
P

QC Batch = 120204 F = Falled QC limits. P = Passed QC limits. NA = Not Applicable



18-Jun-98

Analytical Laboratory 1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295

WI DNR Certified Lab #445027660

JOE MICHAELCHUCK

**ENVIRONMENTAL ASSOCIATES INC** 

PO BOX 136

Report Date:

THIENSVILLE WI 53092

Project #: Project:

97-03553

Silver Terrace Center

Sample ID:

MW7-12'-14'

Lab Code:

5021690F

Sample Type:

Soil

Sample Date:

03-Jun-98

Test	Result	LOD	LOQ	Unit	Dilution Factor	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	83.9			%		89-nuL-30	JHL	1
MODIFIED DRO WDNR SEP 95	< 10	0.29		MG/KG	1	05-Jun-98		1

LOD = Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ.

LOQ = Limit of Quantitation

QC SUMMARY

CODE:

All laboratory QC requirements were met for this sample.



WI DNR Certified Lab #445027660

#### VOC

# Method 8260 Volatile Organic Compounds (Methanol Preserved)

JOE MICHAELCHUCK ENVIRONMENTAL ASSOCIATES INC PO BOX 136 THIENSVILLE WI 53092

Report Date: Analyzed By: 18-Jun-98

CJR

Project #:
Project:

97-03553

Silver Terrace Center

Sample ID: Lab Code: Sample Type: MW7-12'-14' 5021690F

Soil 03-Jun-98

Sample Date: Date Analyzed:

17-Jun-98

ANALYTE	RESULT	LOD UG/KG	LOQ	Dilution
Benzene	< 25	6.2	21	1
Bromobenzene	< 25	4.3	14	1
Bromodichloromethane	< 25	6.5	22	1
n-Butylbenzene	< 25	3.1	10	1
sec-Butylbenzene	< 25	4.1	14	1
tert-Butylbenzene	< 25	6.5	22	1
Carbon Tetrachloride	< 25	4	13	1
Chlorobenzene	< 25	5.3	18	1
Chloroethane	< 25	11	37	1
Chloroform	< 25	3.1	10	1
Chloromethane	< 25	6.9	23	1
2-Chlorotoluene '	< 25	4.6	. 15	1
4-Chlorotoluene	< 25	4.4	15	1
1,2-Dibromo-3-Chloropropar	ne < 25	11	37	1
Dibromochloromethane	< 25	5.4	18	1
1,2-Dichlorobenzene	< 25	3.6	12	2 1
1,3-Dichlorobenzene	< 25	4.4	15	5 1
1,4-Dichlorobenzene	< 25	4.4	1 1	5 1
Dichlorodifluoromethane	< 25	1	1 3	7 1
1,1-Dichloroethane	< 25	4.	7 1	5 1
1,2-Dichlorcethane	< 25	8.	3 2	8 1
1,1-Dichloroethene	< 25	4.	5 1	5 1
cis-1,2-Dichloroethene	< 25		5 1	7 1
trans-1,2-Dichloroethene	< 25	4.	5 1	5 1
1,2-Dichloropropane	< 25	4.	2 1	4 1
1,3-Dichloropropane	< 25	4.	3, 1	5 1

Dibromofluoromethane Sur	99	% Rec.	
1,2-Dichloroethane-d4 Sur	98	% Rec.	
Toluene-d8 Sur	99	% Rec.	
4-Bromofluorobenzene Sur	100	% Rec.	

ANALYTE	RESULT		LOQ	
		UG/KG	UG/KG	Factor
2,2-Dichloropropane	< 25	4	13	1
Di-Isopropyl ether	< 25	3	10	1
Ethylbenzene	< 25	4.4	15	1
EDB (1,2-Dibromoethane)	< 25	3.5	12	1
Hexachlorobutadiene	< 25	7.5	25	1
Isopropyibenzene	< 25	5.2	17	1
p-Isopropyltoluene	< 25	3.1	10	1
Methylene chloride	< 25	10	35	1
MTBE .	< 25	5.6	19	
Naphthalene	< 25	4.2	14	1
n-Propylbenzene	< 25	4.5	15	1
1,1,2,2-Tetrachioroethane	< 25	3.4	11	1
Tetrachloroethene	< 25	6.1	21	1
Toluene	< 25	5.3	18	1
1,2,3-Trichlorobenzene	< 25	4	14	1
1,2,4-Trichlorobenzene	< 25	4.4	15	1
1,1,1-Trichloroethane	< 25	6.7	22	
1,1,2-Trichloroethane	< 25	3.7	1 12	
Trichloroethene .	< 25	4.5	5 15	1
Trichlorofluoromethane	< 25	14	4 45	5 1
1,2,4-Trimethylbenzene	< 25	4.	5 1	5 . 1
1,3,5-Trimethylbenzene	< 25	4.	1 1	4 1
Vinyl Chloride	< 25	5.	6 1	9 1
m&p-Xylene	< 50	8.	2 2	7 1
o-Xylene .	₹ 2.5	2.	5 8.	4 1

LOD = Limit of Detection

LOQ = Limit of Quantitation

QC Batch #

Total % Solids

120204

24

GCMS #12

Authorized Signature

A. A.



WI DNR Certified Lab #445027660

# QC Summary

# Method 8260 Volatile Organic Compounds

Project #: Sample ID:

97-03553 MW7-12'-14'

Report Date: Lab Code: 18-Jun-98 5021690F

ANALYTE INMAL KNOWN INT STD METHOD. LCS MATRO. MATRIX CALIERATION STANDARD BLANK Bestana SPIKE SPIKE RPD Bromobanzana P P Bramodichloramethane P n-Butylbanzene Ρ Ρ sec-Butylbenzene P P led-Butylbanzana P P P P ebinolriacteT nocise Chiombenzene P Р Chlomethane Chloroform Ρ Chloromethane P Ρ 2-Chlorotoluene Р PPP 4-Chloratoluene Þ 1,2-Dibromo-3-Chloropropene enartiemorolfoomordia. 1,2-Dichlorobenzene Ρ 1,3-Dichlorobenzene P P P 1,4-Dichlorobenzene Ρ Dichlorodifluoromethane P 1.1-Dichlorpethane 1,2-Dichloroathane 1,1-Dichlorpethene P P sis-1,2-Dichlorcethene P trans-1,2-Dichloroethene Р Ρ P 1.2-Dichloropropene P P 1,3-Dichloropropane 2,2-Dichloropropane Di-isopropyl Ether P P P P P P EDB (1,2-Dibromoethane) P P Hexachlorobutadiene P Isopropylbenzene PPP p-Isopropyttoluene Methylene Chloride 내구문표 P ene!srunquid n-Propylbenzene Ρ 1.1.2.2-Tetrachicroethane Ρ 202 Р Tetrachloroethena P Totuene Р P 1,2,3-Trichlorobenzana Р 1.2.4-Trichlorobenzene 1.1.1-Trichloroethane Р 1.1,2-Trichloroethane P P P P Inchiorosthene Ρ enartemmouthmothanT P 1,2,4-Trimethylbenzene Р 1,3,5-Trimethylbenzene Р P Vny! Chloride Ρ P m2;2-Xylene c-Xylano

SPCC 1,1-Dichloroethane P
SPCC 1,1,2,2-Tetrachloroethane P
SPCC Bromoform P
SPCC Chlorobenzene P
SPCC Chloromethane P

QC Batch = 120204
F = Failed QC limits.
P = Passed QC limits.
NA = Not Accidable

Authorized Signature

J.A.



WI DNR Certified Lab #4450276€3

JOE MICHAELCHUCK

**ENVIRONMENTAL ASSOCIATES INC** 

PO BOX 136

THIENSVILLE WI 53092

Project #:

97-03553

Project:

Silver Terrace Center

Sample ID: Lab Code:

MW7-18'-20' 5021690G

Sample Type: Soil

Report Date:

18-Jun-98

Sample Date:

03-Jun-98

Test	Result	LOD	LOQ	Unit	Dilution Factor	Date Analyzed:	1、 1000 C 1000 C 1900 C 100 C 10 C 10 C	QC Code
TOTAL SOLIDS	83.2	,		%		05-Jun-98	JHL	1
MODIFIED DRO WDNR SEP 95	< 10	0.29	0.97	MG/KG	.1	05-Jun-98		1

LOD = Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ.

LOQ = Limit of Quantitation

#### QC SUMMARY

CODE:

: 1

All laboratory QC requirements were met for this sample.



# WI DNR Certified Lab #445027660

# VOC Method 8260 Volatile Organic Compounds (Methanol Preserved)

JOE MICHAELCHUCK **ENVIRONMENTAL ASSOCIATES INC** PO BOX 136 THIENSVILLE WI 53092

Report Date: Analyzed By: 18-Jun-98

CJR

Allalyzed by.				
ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Face
Benzene	< 25	6.2	21	1
Bromobenzene	< 25	4.3	14	1
Bromodichloromethane	< 25	6.5	22	1
n-Butylbenzene	< 25	3.1	10	1
sec-Butylbenzene	< 25	4.1	14	1
tert-Butylbenzene	< 25	6.5	22	1
.Carbon Tetrachloride	< 25	4	13	1
Chlorobenzene	< 25	5.3	18	1
Chloroethane	< 25	11	37	1
Chloroform	< 25	3.1	10	1
Chloromethane	< 25	6.9	23	1
2-Chlorotoluene	< 25	. 4.6	15	1
4-Chlorotoluene	< 25	4.4	15	1
1,2-Dibromo-3-Chloropropane	< 25	11	37	1
Dibromochloromethane	< 25	5.4	18	3 1
1,2-Dichlorobenzene	< 25	3.6	5 12	2 1
1.3-Dichlorobenzene	< 25	4.4	15	5 1
1,4-Dichlorobenzene	< 25	4.4	4 15	5 1
Cichlorodifluoromethane	< 25	1	1 37	7 1
1,1-Dichloroethane	< 25	4.	7 16	5 1
1,2-Dichloroethane	< 25	ε.	3 2	8¦ 1
1.1-Dichloroethene	< 25	4.	5 1	5 1
cis-1,2-Dichloroethene	< 25		5 1	7 1
trans-1,2-Dichloroethene	< 25	4.	5 1	5 1
1,2-Dichloropropane	< 25	4.	2 1	4 1
1.3-Dichloropropane	< 25	4	3 1	5 1

Dibromofluoromethane Sur	98 % Rec.
1,2-Dichloroethane-d4 Sur	100 % Rec.
Toluene-d8 Sur	100 % Rec.
4-Bromofluorobenzene Sur	101 % Rec

Project #:

97-03553

Project:

Silver Terrace Center

Sample ID: Lab Code:

MW7-18'-20' 5021690G

Sample Type:

Soil

Sample Date: Date Analyzed: 03-Jun-98 17-Jun-98

ANALYTE	RESULT		LOQ UG/KG		
2,2-Dichloropropane	< 25	4	13	1	
Di-Isopropyl ether	< 25	3	10	1	1
Ethylbenzene	< 25	4.4	15	1	
EDB (1,2-Dibromoethane)	< 25	3.5	12	1	
Hexachlorobutadiene	< 25	7.5	25	1	
Isopropylbenzene	< 25	5.2	17	1	
p-Isopropyltoluene	< 25	3.1	10	1	
Methylene chloride	< 25	10	35	1	À
МТВЕ	< 25	5.6	19	1	F
Naphthalene	< 25	4.2	14	1	
n-Propylbenzene	< 25	4.5	15	1	
1,1,2,2-Tetrachloroethane	< 25	3.4	11	1	
Tetrachloroethene	< 25	6.1	21	1	
Toluene	< <b>2</b> 5	5.3	18	1	H
1,2,3-Trichlorobenzene	< 25	4	14	1	Į
1,2,4-Trichlorobenzene	< 25	4.4	15	5 1	
1,1,1-Trichloroethane	< 25	6.7	1		1
1,1,2-Trichloroethane	< 25	3.7	7 13	2 1	1
Trichloroethene	< 25	4.5	5 1	5 1	ij
Trichlorofluoromethane	< 25	1.	4 4	5 1	- []
1,2,4-Trimethylbenzene	< 25	4.	5 1	5 1	1
1,3,5-Trimethylbenzene	< 25	4.	1 1	4 1	
Vinyl Chloride	< 25	5.	1	9 1	
m&p-Xylene	< 50	8.	2 2	7 1	
c-Xylene	< 25	2.	5 8.	4 1	

LOD = Limit of Detection

LOQ = Limit of Quantitation

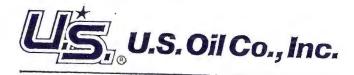
QC Balch#

120204

Total % Solids

٤3

GCMS #12



WI DNR Certified Lab #445027660

# QC Summary

# Method 8260 Volatile Organic Compounds

Project #: Sample ID:

97-03553 MW7-18'-20'

Report Date: Lab Code:

18-Jun-98 5021690G

ANALYTE			INT STD	METHOD	LCS MATRIX MATRIX		
	CALIBRATION .	STANDARD	AREA %	BLANK	SPIKE	Control of the Control of the Control	MATRIX
Banzana	P	P	P	P		SPIKE	SPIKE RPD
Bromobenzene	P	P	P		P	P	P
Bromodichloromethane	P	P	P	P	P	. P	P
n-Butylbenzene	P	P	P	P	P	P	P
sec-Butylbenzene	P	P	P	P	P	P	P
ed-Butylbenzene	P	P	P	P	P	P	P
Carbon Tetrachloride	P	P		P	P	P	P
Chicrobenzene	P	P	P	P	Р	P	P
Chloroethane	P		P	P	P	P	P
Chloroform	P	Р	P	P	F	F	P
Chioromethane	p	P	P	P	P	P	P
2-Chlcrotoluene	P	P	P	P	F	F	P
4-Chlorotoluene		P	P	P	P	P	P
1,2-Dibromo-3-Chloropropane	P	P	P	P	P	P	P
Dibromochloromethane	P	P	P	P	P	P	P
1,2-Dichlorobenzene	P	P	P	P	P	P	
1,3-Dichlorobenzene	P	P	P	P	P	P	Р
1,4-Dichlorobenzene	Р	P	P	P	P	P	P
Dichlorodifluoromethana	P	P	P	P	P	P	P
1.1-Dichloroethane	P	P	P	P	· F		P
1,2-Dichloroethane	P	P	P	P	P	F	F
	P	P	P	P	P	Р	P
1,1-Dichloroethene	Р	P	P	F .	F	P	P
cis-1,2-Dichloroethene	P	P	P	P	P	P	P
rans-1,2-Dichlorpethene	Р	P	P	. P		P	P
1,2-Dichloropropane	Р	P	P		P	P	р.
1,3-Dichloropropane	P	P	P	P	P	P	P
2,2-Dichloropropane	P	P	P	P	P	P	Р.
Di-Isopropyl Ether	P	P	P	P	F	P	P
Ethylbenzene	P	P	P	P	Р	P	P
EDB (1,2-Dibromostiane)	P	9	P	P	P	P	P
Hexachlorobutaciene	P	P		P	P	P	P
sopropylbenzene	P	P	P	P	P	P	P
p-1sopropyttoluene	P	P	P	P	P	P	P
Methylene Chloride	P	P	P	P	P	P	P
MTBE	P	P	P	P	P	P	P
Naphthalene	P	P	P	P	P	P	P
n-Propy!benzene	P		P	P	P	P	P
1,1,2,2-Tetrachicroethane	P	P	P	P	P	P	P
Tetrachlorpethene		P	P	P	P	P	. P
Toluene	P	P	P	Р	P	P	P
1,2,3-Trichlorobenzene		P	P	P	P		P
1.2.4-Trichlorobenzene	P	P	P	P	P	P	P
1,1,1-Trichlorosthane	P	P	P	P	P	P	P
1,1,2-Trichioroethane	Р	P	Р	P	P	P	P
Trichloroethene	P	P	P	P	P	P	•
Trichlorofuormethane	Р	P	P	P	P	P	Р
1.2,4-Trimethylbenzene	Р	P	P	P	F	F	P
13.5 Trimote de la constante	P	P	P	P	P		P
ensznedlycteminT-2.6,1	P	P	P	P	. P	P	P
The Vulence	P	P	P	P		P	P
m2p-Xy'ene	P	P	P	P	F	F	P
c-Xy'ere	P	P	P	P	P	P	P

SPCC 1,1-Dichloroethane P
SPCC 1,1,2,2-Tetrachloroethane P
SPCC Bromoform P
SPCC Chlorobenzene P
SPCC Chloromethane P

QC Batch # 120204
F = Failed QC limits.
P = Passed QC limits.
NA = Not Applicable

Authorized Signature

A. Comment of the com



WI DNR Certified Lab #445027660

# VOC Method 8260 Volatile Organic Compounds (Methanol Preserved)

JOE MICHAELCHUCK ENVIRONMENTAL ASSOCIATES INC PO BOX 136 THIENSVILLE WI 53092

Report Date: Analyzed By:

CJR

18-Jun-98

ANALYTE	RESULT	LOD	The first of decide I	Dilution
		UG/KG	UG/KG	Factor
Benzene	< 25	6.2	21	1
Bromobenzene	< 25	4.3	14	1
Bromodichloromethane	< 25	6.5	22	1
n-Butylbenzene	< 25	3.1	10	1
sec-Butylbenzene	< 25	4.1	14	1
tert-Butylbenzene	< 25	6.5	22	1
Carbon Tetrachloride	< 25	4	13	1
Chlorobenzene	< 25	5.3	18	1
Chloroethane	< 25	11	37	1
Chloroform	< 25	3.1	10	1
Ch!oromethane	< 25	6.9	23	1
2-Chlorotoluene	< 25	4.6	15	1
4-Chlorotoluene	< 25	4.4	15	1
1,2-Dibromo-3-Chloropropan	e < 25	11	37	1
Dibromochloromethane	< 25	5.4	18	1
1,2-Dichlorobenzene	< 25	3.6	5 12	1
:1,3-Dichlorobenzene	< 25	4.4	15	5 1
1,4-Dichlorobenzene	< 25	4.4	15	5 1
Dichloredifluoromethane	< 25	11	37	7 1
1,1-Dichloroethane	< 25	4.	7 16	5 1
1,2-Dichloroethane	< 25	8.3	3 2	5 1
1,1-Dichloroethene	< 25	4.	5 1:	5 1
cis-1,2-Dichloroethene	< 25		5 1	7 1
trans-1,2-Dichloroethene	< 25	4.	5 1	5 1
1,2-Dichloropropane	< 25	4.	2 1	4 1
1,3-Dichloropropane	< 25	4.	3 1	5 1

Dibromofluoromethane Sur	109	% Rec.
1,2-Dichloroethane-d4 Sur	101	% Rec.
To'uene-d8 Sur	100	% Rec.
4-Brompfluorobenzene Sur	100	% Rec.

97-03553 Project #: Project: Silver Terrace Center

Sample ID: Lab Code: Sample Type: TRIP 5021690H

Sample Date: Date Analyzed:

03-Jun-98 16-Jun-98

MeOH

ANALYTE	RESULT	LOD .UG/KG	500000000000000000000000000000000000000	D&ten	
2,2-Dichloropropane	< 25	4	13	1	
Di-Isopropyl ether	< 25	3	10	1	
Ethylbenzene	< 25	4.4	15	1	
EDB (1,2-Dibromoethane)	< 25	3.5	12	1	
Hexachlorobutadiene	< 25	7.5	25	1	
Isopropylbenzene	< 25	5.2	17	1	H
p-Isopropyttoluene	< 25	3.1	10	1	
Methylene chloride	< 25	10	35	1	
MTBE .	< 25	5.6	19	1	
Naphthalene .	< 25	4.2	14	1	
n-Propylbenzene	< 25	4.5	15	1	H
1,1,2,2-Tetrachloroethane	< 25	3.4	11	1	
Tetrachloroethene	< 25	6.1	21	1	
Toluene	< 25	5.3	18	1	
1,2,3-Trichlorobenzene	< 25	4	14	1	H
1,2,4-Trichlorobenzene	< 25	4.4	15	5 1	7.
1,1,1-Trichloroethane	< 25	6.7	7 22	2 1	H
1,1,2-Trichloroethane	< 25	3.7	7 . 12	2 1	1
Trichloroethene .	< 25	4.5	5 18	5 1	1
Trichlorofluoromethane	< 25	14	4 4	5 1	
1,2,4-Trimethylbenzene	< 25	4.	5 1:	5 1	1
1,3,5-Trimethylbenzene	< 25	4.1	1 1	4 1	1
Vinyl Chloride	< 25	5.	6 1	9 1	1
m&p-Xylene	< 50	8.	2 2	7 1	
o-Xylene	<25	2.	5 8.	4 1	-

LOD = Limit of Detection

LOQ = Limit of Quantitation

QC Batch # Total % Solids 120204

100

GCMS #12



WI DNR Certified Lab #445027650

# QC Summary

# Method 8260 Volatile Organic Compounds

Project #: Sample ID:

97-03553 TRIP

Report Date: Lab Code:

18-Jun-98 5021690H

AVALYTE	INITIAL	KNOWN	INT STD	METHOD	ics	MATRIX.	MATRIX
	CALIBRATION	STANDARD	AREA Y	1 August 6 Not 7 Will	. 5 2527		1 1 1 1 1 1 1 1 1 1 1
enezne	Р	P	~~~	BLANK	SPIKE	SPIKE	SPIKE RPD
eneznedomon	P	P	P	Р	P	P	i P
Promodichloromethane	P	, F		Р	Р	P	Р
i-Butylbenzene	Þ	P	Р	Р	Р	Р	P
ac-Butylbanzana	ا ا	P	P	Р	Р	P	P
ert-Butylbenzene	l 'p	P		Р	Р	P	P
Darbon Tetrachloride	P	P	Р	Р	Р	Р	P
Chlorobenzene	þ	P	P	Р	Р	Р	P
Chloroethane	P	•	P	P	P	Р	P
Moreform	P	F	P	P	F	F	P
Chloromethane	P		Р	P	P	P	P
2-Chlorotoluene	P	Р	P	P	F	F	P
F-Chlorotoluene	P	Р	P	P	Р	Þ	P
1,2-Dibromo-3-Chloropropane		P	Р	P	Р	P	P
Dibromochloromethane	Р	Р	Р	Р	Р	P	P
1,2-Dichichedana	P	Р	Р	Р	Р	P	P
anexnedmcIrfaid-E,1	Р	Р	P	P	P	þ	P
1,4-Dichlorobenzene	P	Р	Р	P	P	P	l P
Dichlorodifluoromethane	Р	Р	Р	P	P	F	P
1,1-Dichloroethana	P	Р	Р	P	F	F	
1,2-Dichlorosthane	Р	P	P	P	P	P	F
1,1-Dichloroethena	Р	P	Р	P	P	P	Р
is-12-Dichloroethene	P	P	P	P	F	F	Р
rans-1,2-Dichloroethene	P	P	P	P	P	r P	P
1.2-Dichloropropane	P	Ρ.	Р	P	P	P	Р
1,3-Dichloropropane	P -	P	P	P	. P	P	Р
2,2-Dichloropropane	· P	. Ъ	P	Р	. F	P	P
2,2-0-Giloropropana Di-lisopropyl Ether	P	P	P	P	P	P	Р
Strytbenzene	P	P	P	P	P		P
	P	P	P	P	P	P	P
EDB (1,2-Dibromostrans)	P	P	P	P	P	P	Р
Hexachlorobutadiena	P	P	P	P	P	P	! P
sopropylbenzene	P	P.	P	P	P	P	P
p-Isopropyltoluene	P	P	P	P	P	Р	P
Nethylene Chloride MTBE	P	P	P	P	P	Р	P
	P	P	þ	P	P	Р	. P
Naphthalen <del>a</del>	P	Р	P	P	P	P	. Р
n-Propylbanzana	P	P	P	P		P	P
1,1,2,2-Tetrachioro-ethane	P	, ,	P	P	Р	P	P
Tetrachloroethene	P	P	P	P	P	P	P
Toluena	P	,	P	P	P	P	P
eneznedmoidhlichia.	P	P	P		· P	P	P
eneznedorokania, 1,2,4-Trichlorokania	Р	P	P	Р	P	P	P
1.1.1-Trichlomethane	P	P	P	Р	P	P	P
1,1,2-Trichlomethane	P	P		P	Р	P	P
Trichloroethene	P	P	Р	P	Р	Р	P
inchlorofluoromethane	P	P	P	P	P	Р	P
1,2,4-Trimetrylbenzene	P		P	P	Р	P	 P
1,3,5-Trimethylbenzene	P	P	Р	Р	Р	P	P
Vinyl Chlorida	P	P	Р	Р	P	Р	. <i>F</i>
m&p-Xylena		P	P	P	F	F	. P
5-Xylena	Р	P	Р	Р	P	, P	: P
DEDICHOR	P	P	P	- Р	P	, P	۲

SPCC 1,1-Dichloroethane P
SPCC 1,1,2,2-Tetrachloroethane P
SPCC Bromoform P
SPCC Chlorobenzene P
SPCC Chloromethane P

QC Batch = 120204
F = Falled QC fmits.
P = Passed CC limits.
NA = Not Apolloable

Authorized Signature

Joint .

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uv.	$\nu a$	w.	0-	13-3

CHAIN OF CUSTODY RECORD



# A\_alytical Lab

1090 Kennedy Ave. • Kimberly, WI 54136 (414) 735-8295 • FAX 414-739-1738 • 800-490-4902 USALAB@AOL.COM

Chain # Nº

Page \_\_\_\_ of \_\_\_\_

Time:

8324

Lab I.D. #	5001690	·
Account No	.:	Quote No.:

Project #: 97-03553

Sample Integrity - To completed by receiving	g lab.	1/	
Mothod of Shipmont:	Temp. of Temp. Blank	_°C On Ice:K	
Cooler seal cracked upon receipt: V Yes	No		

Sampler: (signature	1 Jai mos	10010	/ 1 <b>c</b>	<del>-</del>	Coolor soal cra	icked upon rec	oipt: _xYos	No	•						
Project (Name / 1	Location): Silve	er Terra	ce (enl	er: 5821-5	835 W. Silve	er Spring D	r. Milwaux	ke, Wl.			Analy	sis Re	ques	ted	الحوا)
Reports To: Joe	Michaelchuc	K	Invoice	To: Mr. Fred V	Vein . Silver To	Priace Cinter	Sample Ha	ndling				TT		Olher A	nalysis
Company Envi	conmental A	ssociala	Compar	ycio Environ	mental Assoc	iales, be.	neque.	31							
Address P.O.			Address		SAME	_	Rush Analy Date Requi			999					
City State Zip ル		53072 <sup>(</sup>	City Stat	e Zip			Normal Tur		TPH)	PVOC (EPA 8020) BTEX (EPA 8020) VOC (EPA 8021)	413.	2   2	14	<del>}</del>	
Phone (414) Z	42-1088	· · · · · · · · · · · · · · · · · · ·	Phone	<del></del>	V	7			Mod/	(EPA (EPA EPA	EPA EPA	S S	We's	7	
Lab I.D.	Sample I.D.		ection	1	Containers	Description*	Presei	rvation	RO (		) S S H	ash	3/	1	PID/ FID
	ļ	Date	Time	<del> </del>	nd Type				00	0 0 5	<u>&gt; 0 a</u>		17/	1	110
1690 A	MW-5-10-12'	6-3-18	9:00	(2) Z 02 Jars	(1) 502 cup	S	MECH	NONE	X		<u> </u>		<u> </u>		0
	MW5-18-20'			(2) 202 Jars,			MEOH /	Van=	X				X		0
<u> </u>	MW6-12'-14'		11:25	1) Zor Jar,	(1)5072 cup	S	ME	OH			X		1		0
D	MWb-18'-20'		11:40	(1) Zoz Jar,	(1)50zcup	2	ME	OH					4		0
E	mw7-6'-8'		1:25								<u>X                                     </u>		<u> </u>		2.5
F	MW7-12-14"		i:45						x		<b>X</b>		X		0
	MW7-18'-20'		z:∞	1	'		. √		X	;			1		0
	TEMP		8:00	(1) 2 02 ]	ar	DW				_ _ _			_X		1-
<u> </u>	TRIP		8:00	(1) 2 02 J	ar	MEOH		<u>-</u>			<u>ill</u>				1-

Department Use Only	Comments/ Special Instructions
olit Samples: Offered ? Yes No	*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", etc.
Accepted? Yes No	Run DRO on samples MW7 6-8, MW7 12-14 and MW7 14-20 per JM.

Received in Laboratory Rys

6/5/98 W

ccepted By:
Department Use Optional for Soil Sample
isposition of unused portion of sample
ab Should:

Dispose	Retain for	_days
* - *	Other	

Relinquished By: (sign)	Time	Date	Received By: (sign )	Time	Date
Marin Staplener	10,00	6-4-98	alent Otto	10.00	6-4-6
Marie Celo	11:04				
7,611					



# Analytical Laboratory

1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295

## WI DNR Certified Lab #445027660

#### VOC

# Method 8021 Volatile Organic Compounds (Methanol Preserved)

JOE MICHAELCHUCK **ENVIRONMENTAL ASSOCIATES INC** PO BOX 136 THIENSVILLE WI 53092

Report Date:

20-Nov-98

Analyzed By:

BDB

Project #: Project:

None

Silver Terrace Center

Sample ID: Lab Code:

MW8-3'-5' 5023422A

Sample Type:

Soil

Sample Date:

03-Nov-98

Date	Analyzed:	

05-Nov-98

ANALYTE	RESULT	LOD	LOQ	Dilution
	r water.	UG/KG	UG/KG	Factor
Benzene	< 25	5.9	20	1
Bromobenzene	< 25	3.1	10	1
Bromodichloromethane	< 25	2.7	8.9	1
n-Butylbenzene	< 25	2.5	8.4	1
sec-Butylbenzene	< 25	4.8	16	1
tert-Butylbenzene	< 25	2.3	7.7	1
Carbon Tetrachloride	< 25	2.2	7.2	1
Chlorobenzene	< 25	2.5	8.2	1
Chloroethane	< 25	5	17	1
Chloroform	< 25	2.8	9.2	1
Chloromethane	< 25	7.3	24	1
2-Chlorotoluene	< 25	2.4	7.9	1
4-Chlorotoluene	< 25	2.3	7.8	1
1,2-Dibromo-3-Chloropropane	< 25	2.1	7.1	1
Dibromochloromethane	< 25	2	6.7	1
1,2-Dichlorobenzene	< 25	2.2	7.2	1
1,3-Dichlorobenzene	< 25	2.2	7.4	1
1,4-Dichlorobenzene	< 25	2.2	7.2	1
Dichlorodifluoromethane	< 25	4.3	14	1
1,1-Dichloroethane	< 25	2.3	7.6	1
1,2-Dichloroethane	< 25	2.7	9.1	<sup>i</sup> 1
1,1-Dichloroethene	< 25	2.2	7.5	1
cis-1,2-Dichloroethene	< 25	2.8	9.3	1
trans-1,2-Dichloroethene	< 25	3.5	12	1
1,2-Dichloropropane	< 25	2.4	8	1
1,3-Dichloropropane	< 25	2.2	7.3	1

Fluorobenzene Surrogate 1,4-Dichlorobutane Surrogate 101 % Rec.

102 % Rec.

Total % Solids

84.2

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
2,2-DCP,cis-1,2-DCE	< 25	4.1	14	1
Di-isopropyl Ether	< 25	3.9	13	1
Ethylbenzene	< 25	6.2	11	1
EDB (1,2-Dibromoethane)	< 25	4.2	14	1
Hexachlorobutadiene	< 25	4.8	16	1
Isopropylbenzene	< 25	5	17	1
p-Isopropyltoluene	< 25	3.4	11	1
Methylene Chloride	< 25	3.3	11	1
MTBE	< 25	7	23	1
Naphthalene	< 25	7	23	1
n-Propylbenzene	< 25	2.8	9.2	1
1,1,2,2-Tetrachloroethane	< 25	7.1	24	1
Tetrachloroethene	< 25	3.6	12	1
Toluene	< 25	5.1	17	1
1,2,3-Trichlorobenzene	< 25	5.4	18	1
1,2,4-Trichlorobenzene	< 25	5.1	17	. 1
1,1,1-Trichloroethane	< 25	2.3	7.6	1
1,1,2-Trichloroethane	< 25	2	6.7	1
Trichloroethene	< 25	4.6	15	1
Trichlorofluoromethane	< 25	19	65	1
124-Trimethylbenzene	< 25	2.4	8	1
1,3,5-Trimethylbenzene	< 25	3.8	13	1
Vinyl Chloride	< 25	4.7	16	1
m&p-Xylene	< 50	5.6	19	1
o-Xylene	< 25	2.7	9	1

LOD = Limit of Detection

LOQ = Limit of Quantitation

NA = Not Applicable

QC Batch #

060493

Authorized Signature

GC #6



WI DNR Certified Lab #445027660

### **QC Summary**

## Method 8021 Volatile Organic Compounds

Project #: Sample ID: None MW8-3'-5' Report Date: Lab Code:

20-Nov-98 5023422A

ANALYTE	INITIAL	KNOWN	MATRIX	REPLICATE	BLANK.	PID	HALL
	CALIBRATION	STANDARD	SPIKE	SPIKE		SURROGATE	SURROGATE
Benzene	Р	Р	Р	Р	Р	P	P
Bromobenzene	Р	Р	Р	P	P	P	P
Bromodichloromethane	Р	Р	P	Р	P	P	P
n-Butylbenzene	Р	Р	Р	P	P	Р	P
sec-Butylbenzene	Р	Р	P	Р	Р	P	P
tert-Butylbenzene	Р	Р	Р	Р	Р	P	P
Carbon Tetrachloride	Р	Р	Р	Р	Р	Р	P
Chlorobenzene	Р	Р	P	Р	Р	Р	P
Chloroethane	Р	F	Р	Р	Р	P	Р
Chloroform	Р	Р	Р	Р	Р	Р	Р
Chloromethane	Р	F	P	F	Р	P	Р
2-Chiorotoluene	Р	Р	Р	Р	Р	Р	Р
4-Chlorotoluene	Р	Р	P	P	Р	P	P
1,2-Dibromo-3-Chloropropane	Р	P	Р	P	Р	P	Р
Dibromochloromethane	Р	Р	P	Р	Р	P	P
1,2-Dichlorobenzene	Р	Р	Р	Р	Р	Р	P
1,3-Dichlorobenzene	Р	Р	Р	P	Р	P	P
1,4-Dichlorobenzene	Р	Р	Р	Р	Р	Р	P
Dichlorodifluoromethane	Р	F	F	Р	Р	P	P
1,1-Dichloroethane	Р	Р	Р	Р	Р	Р	P
1,2-Dichloroethane	Р	Р	ĺР	P	Р	P	P P
1,1-Dichloroethene	Р	Р	P	Р	Р	P	P
cis-1,2-Dichloroethene	Р	Р	P	Р	P	P	P
trans-1,2-Dichloroethene	Р	Р	P	P	Р	P	i P
1,2-Dichloropropane	Р	Р	P	Р	P	P	Р
1,3-Dichloropropane	Р	Р	P	P	P	P	P
2,2-DCP,cis-1,2-DCE	Р	Р	Р	Р	Р	P	P
Di-isopropyl Ether	Р	Р	Р	P	P	P	, P
Ethylbenzene	Р	Р	P	P	Р	P	P
EDB (1,2-Dibromoethane)	Р	Р	P	l p	Р	P	P
Hexachlorobutadiene	Р	Р	P	P	Р	P	P
Isopropylbenzene	Р	Р	l P	Р	P	P	P
p-Isopropyltoluene	Р	Р	Р	Р	Р	P	P
Methylene Chloride	Р	F	P	P	Р	P	P
MTBE	Р	Р	P	P	P	P	P
Naphthaiene	Р	Р	Р	Р	P	P	P
n-Propylbenzene	Р	Р	Р	P	Р	P	P
1,1,2,2-Tetrachioroethane	Р	Р	Р	Р	P	P	P
Tetrachloroethene	Р	Р	Р	P	l P	P	P
Toluene	Р	! Р	Р	Р	P	P	P
1,2,3-Trichlorobenzene	Р	, Р	Р	Р	' P	Р	P
1,2,4-Trichlorobenzene	P	' Р	Р	P	Р	P	P
1,1,1-Trichloroethane	Р	P	P	P	Р	P	P
1,1,2-Trichloroethane	Р	Р	P	Р	P	P	P
Trichloroethene	Р	P	Р	Р	Р	Р	P
Trichlorofluoromethane	P	Р	Р	P	P	P	P
124-Trimethylbenzene	P	P	Р	P	Р	P	P
1,3,5-Trimethylbenzene	Р	P	Р	P	P	P	P
Vinyl Chloride	Р	P	P	F	P	Р	P
m&p-Xylene	Р	P	P	P	P	P	P
o-Xylene	Р	Р	P	P	P	P	P

P = Passed QC limits.

NA = Not Applicable
QC Batch # 060493

Authorized Signature

July

F = Failed QC limits.

<sup>&</sup>quot;J" Flag: Analyte detected between LOD and LOQ.



1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295

### WI DNR Certified Lab #445027660

### VOC Method 8021 Volatile Organic Compounds (Methanol Preserved)

JOE MICHAELCHUCK **ENVIRONMENTAL ASSOCIATES INC PO BOX 136** THIENSVILLE WI 53092

Report Date:

20-Nov-98

Analyzed By:

**BDB** 

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor.
Benzene	< 25	5.9	20	1
Bromobenzene	< 25	3.1	10	1
Bromodichloromethane	< 25	2.7	8.9	1
n-Butylbenzene	< 25	2.5	8.4	1
sec-Butylbenzene	< 25	4.8	16	1
tert-Butylbenzene	< 25	2.3	7.7	1
Carbon Tetrachloride	< 25	2.2	7.2	1
Chlorobenzene	< 25	2.5	8.2	1
Chloroethane	< 25	5	17	1
Chloroform	< 25	2.8	9.2	1
Chloromethane	< 25	7.3	24	1
2-Chlorotoluene	< 25	2.4	7.9	1
4-Chlorotoluene	< 25	2.3	7.8	1
1,2-Dibromo-3-Chloropropane	< 25	2.1	7.1	1
Dibromochloromethane	< 25	2	6.7	1
1,2-Dichlorobenzene	< 25	2.2	7.2	1
1,3-Dichlorobenzene	< 25	2.2	7.4	1
1,4-Dichlorobenzene	< 25	2.2	7.2	1
Dichlorodifluoromethane	< 25	4.3	14	1
1,1-Dichloroethane	< 25	2.3	7.6	1
1,2-Dichloroethane	< 25	2.7	9.1	1
1,1-Dichloroethene	< 25	2.2	7.5	1
cis-1,2-Dichloroethene	230	2.8	9.3	1
trans-1,2-Dichloroethene	< 25	3.5	12	1
1,2-Dichloropropane	< 25	2.4	8	1
1,3-Dichloropropane	< 25	2.2	7.3	1

Fluorobenzene Surrogate

1,4-Dichlorobutane Surrogate

Total % Solids

101 % Rec. 101 % Rec.

78.6

Project #:

None

Project:

Silver Terrace Center MW8-9'-11'

Sample ID: Lab Code:

5023422B

Sample Type:

Soil

Sample Date: Date Analyzed: 03-Nov-98 05-Nov-98

ANALYTE	RESULT	LOD	LOQ	Dilutio	
		UG/KG	UG/KG	Factor	
2,2-DCP,cis-1,2-DCE	< 25	4.1	14	1	
Di-isopropyl Ether	< 25	3.9	13	1	
Ethylbenzene	< 25	6.2	11	1	
EDR (4.2 Dibromoothano)	- 25	4.2	4.4	4	

		UG/KG	UG/KG	Factor
2,2-DCP,cis-1,2-DCE	< 25	4.1	14	1
Di-isopropyl Ether	< 25	3.9	13	1
Ethylbenzene	< 25	6.2	11	1
EDB (1,2-Dibromoethane)	< 25	4.2	14	1
Hexachlorobutadiene	< 25	4.8	16	1
Isopropylbenzene	< 25	5	17	1
p-isopropyltoluene	< 25	3.4	11	1
Methylene Chloride	< 25	3.3	11	1
MTBE	< 25	7	23	1
Naphthalene	< 25	7	23	1
n-Propylbenzene	< 25	2.8	9.2	1
1,1,2,2-Tetrachloroethane	< 25	7.1	24	1
Tetrachloroethene	2400	3.6	12	1
Toluene	< 25	5.1	17	1
1,2,3-Trichlorobenzene	< 25	5.4	18	1
1,2,4-Trichlorobenzene	< 25	5.1	17	1
1,1,1-Trichloroethane	< 25	2.3	7.6	1
1,1,2-Trichloroethane	< 25	) 2	6.7	1
Trichloroethene	1000	9.2	30	2
Trichlorofluoromethane	< 25	19	65	1
124-Trimethylbenzene	< 25	2.4	8	1
1,3,5-Trimethylbenzene	< 25	3.8	13	1
Vinyl Chloride	< 25	4.7	16	1
m&p-Xylene	< 50	5.6	19	1
o-Xylene	< 25	2.7	9	1

LOD = Limit of Detection LOQ = Limit of Quantitation

NA = Not Applicable

QC Batch #

060493

GC #6



1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295

### WI DNR Certified Lab #445027660

#### QC Summary

#### Method 8021 Volatile Organic Compounds

Project #: Sample ID:

None MW8-9'-11' Report Date: Lab Code: 20-Nov-98

ode: 5023422B

ANALYTE	INITIAL	KNOWN	MATRIX	REPLICATE	BLANK	PID	HALL
	CALIBRATION	STANDARD	SPIKE	SPIKE		SURROGATE	SURROGATE
Benzene	Р	Р	Р	P	P	Р	P
Bromobenzene	P	Р	P	P	P	P	P
Bromodichloromethane	P	P	P	P	P	P	P
n-Butylbenzene	P	Р	P	P	P	P	P
sec-Butylbenzene	P	P	P	P	P	P	P
tert-Butylbenzene	P	P	P	P	P	P	P
Carbon Tetrachloride	P	P.	P	P	P	P	P
Chlorobenzene	P	P	P	P	P	P	P
Chloroethane	P	F.	P	P	P	P	P
Chloroform	P	P	P	P	P	P	P
Chloromethane	P	F	P	F	P	P	P
2-Chlorotoluene	P	P	P	P	P	P	P
4-Chlorotoluene	P	P	P	P	P	P	P
1.2-Dibromo-3-Chloropropane	P	P	P	P	P	P	P
Dibromochloromethane	P	P	P	P	P	P	P
1,2-Dichlorobenzene	P	P	P	P	P	P	P
1.3-Dichlorobenzene	P	P	P	P	P	P	P
1,3-Dichlorobenzene	P	P	P	P	P	P	P
Dichlorodifluoromethane	P	F	F	P	P	P	P
1.1-Dichloroethane	P	P	P	! P	P	P	P
	P	P	P	P	P	P	1 '
1,2-Dichloroethane	P	P	P	P	P	P	Р
1,1-Dichloroethene	P	P	P	P	P	P	P
cis-1,2-Dichloroethene	P	P	P	P	P	P	P
trans-1,2-Dichloroethene					1		1
1,2-Dichloropropane	Р	P	P	P	P	P	P
1,3-Dichloropropane	Р	P	Р	P	P	P	Р
2,2-DCP,cis-1,2-DCE	Р	P	P	Р	Р	P	P
Di-isopropyl Ether	Р	P	P	Р	P	P	Р
Ethylbenzene	Р	Р	Р	Р	Р	P	P
EDB (1,2-Dibromoethane)	Р	P	Р	Р	P	P	P
Hexachiorobutadiene	Р	Р	Р	P	Р	P	P
Isopropy!benzene	P	P	Р	P	Р	P	P
p-Isopropyltoluene	P	Р	Р	Р	Р	P	P
Methylene Chloride	P	F	Р	Р	Р	P	P
MTBE	P	Р	P	P	Р	P	P
Naphthalene	P	P	Р	P	P	P	P
n-Propylbenzene	P	P	P	P	Р	P	P
1,1,2,2-Tetrachloroethane	P	Р	P	Р	P	P	P
Tetrachloroethene	P	P	P	P	Р	P	P
Toluene	P	P	į P	P	P	P	P
1,2,3-Trichiorobenzene	Р	P	Р	Р	P	P	P
1,2,4-Trichlorobenzene	P	Р	P	P	P	P	P
1,1,1-Trichloroethane	Р	P	P	P	; P	P	P
1,1,2-Trichloroethane	Р	P	P	P	P	P	P
Trichloroethene	Р	Р	Р	P	Р	P	P
Trichlorofluoromethane	Р	Р	Р	Р	Р	P	P
124-Trimethylbenzene	P	Р	Р	P	P	P	P
1,3,5-Trimethylbenzene	P	Р	P	Р	P	P	P
Vinyl Chloride	P	P	P	F	P	P	P
m&p-Xylene	P	Р	P	P	P	P	P
o-Xylene	P	P	P	P	P	P	P

P = Passed QC limits.

NA = Not Applicable
QC Batch # 060493

F = Failed QC limits.

<sup>&</sup>quot;J" Flag: Analyte detected between LOD and LOQ.



1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295 WI DNR Certified Lab #445027660

# VOC Method 8021 Volatile Organic Compounds (Methanol Preserved)

JOE MICHAELCHUCK ENVIRONMENTAL ASSOCIATES INC PO BOX 136 THIENSVILLE WI 53092

Report Date:

Analyzed By:

BDB

20-Nov-98

Project #:
Project :

None

Silver Terrace Center

Sample ID: Lab Code: MW8-17'-19' 5023422C

Sample Type: Sample Date: Soil

Sample Date: 03-Nov-98 Date Analyzed: 05-Nov-98

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
Benzene	< 25	5.9	20	1
Bromobenzene	< 25	3.1	10	1
Bromodichloromethane	< 25	2.7	8.9	1
n-Butylbenzene	< 25	2.5	8.4	1
sec-Butylbenzene	< 25	4.8	16	1
tert-Butylbenzene	< 25	2.3	7.7	1
Carbon Tetrachloride	< 25	2.2	7.2	1
Chlorobenzene	< 25	2.5	8.2	1
Chloroethane	< 25	5	17	1
Chloroform	< 25	2.8	9.2	1
Chloromethane	< 25	7.3	24	1
2-Chlorotoluene	< 25	2.4	7.9	1
4-Chiorotoluene	< 25	2.3	7.8	1
1,2-Dibromo-3-Chloropropane	< 25	2.1	7.1	1
Dibromochloromethane	< 25	2	6.7	1
1,2-Dichlorobenzene	< 25	2.2	7.2	1
1,3-Dichlorobenzene	< 25	2.2	7.4	1
1,4-Dichlorobenzene	< 25	2.2	7.2	1
Dichlorodifluoromethane	< 25	4.3	14	1
1,1-Dichloroethane	< 25	2.3	7.6	1
1,2-Dichloroethane	< 25	2.7	9.1	1
1,1-Dichloroethene	< 25	2.2	7.5	1
cis-1,2-Dichloroethene	< 25	2.8	9.3	1
trans-1,2-Dichloroethene	< 25	3.5	12	1
1,2-Dichloropropane	< 25	2.4	8	1
1,3-Dichloropropane	< 25	2.2	7.3	1

Fluorobenzene Surrogate

1,4-Dichlorobutane Surrogate

Total % Solids

100 % Rec. 102 % Rec.

80.9

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
2,2-DCP,cis-1,2-DCE	< 25	4.1	14	1
Di-isopropyl Ether	< 25	3.9	13	1
Ethylbenzene	< 25	6.2	11	1
EDB (1,2-Dibromoethane)	< 25	4.2	14	1
Hexachlorobutadiene	< 25	4.8	16	1
Isopropylbenzene	< 25	5	17	1
p-Isopropyltoluene	< 25	3.4	11	1
Methylene Chloride	< 25	3.3	11	1
MTBE	< 25	7	23	1
Naphthalene	< 25	7	23	1
n-Propylbenzene	< 25	2.8	9.2	1
1,1,2,2-Tetrachloroethane	< 25	7.1	24	1
Tetrachloroethene	< 25	3.6	12	1
Toluene	< 25	5.1	17	1
1,2,3-Trichlorobenzene	< 25	5.4	18	1
1,2,4-Trichlorobenzene	< 25	5.1	17	1
1,1,1-Trichloroethane	< 25	2.3	7.6	1
1,1,2-Trichloroethane	< 25	2	6.7	1
Trichloroethene	< 25	4.6	15	1
Trichlorofluoromethane	< 25	19	65	1
124-Trimethylbenzene	< 25	2.4	8	1
1,3,5-Trimethylbenzene	< 25	3.8	13	1
Vinyl Chloride	< 25	4.7	16	1
m&p-Xylene	< 50	5.6	19	1
o-Xylene	< 25	2.7	9	1

LOD = Limit of Detection

LOQ = Limit of Quantitation

NA = Not Applicable

QC Batch #

060493

GC #6

Authorized Signature

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Analytical Laboratory 1090 Kennedy Ave. Kimberly, WI 54136

920-735-8295

WI DNR Certified Lab #445027660

### **QC Summary**

### Method 8021 Volatile Organic Compounds

Project #: Sample ID: None MW8-17'-19' Report Date: Lab Code: 20-Nov-98

Code: 5023422C

ANALYTE	INITIAL	KNOWN	MATRIX	REPLICATE	BLANK	PID	HALL
보다 하다 하는 그를 살았다고 내려	CALIBRATION	STANDARD	SPIKE	SPIKE		SURROGATE	SURROGATE
Benzene	Р	Р	P	Ρ	P	Р	Р
Bromobenzene	Р	P	Р	P	P	P	Р
Bromodichloromethane	Р	Р	P	P	P	P	Р
n-Butylbenzene	Р	Р	Р	P	Р	Р	Р
sec-Butylbenzene	Р	Р	P	P	Р	P	Р
tert-Butylbenzene	P	Р	P	P	P	P	Р
Carbon Tetrachloride	P	Р	Р	P	Р	P	P
Chlorobenzene	Р	Р	Р	Р	P	Р	Р
Chloroethane	Р	F	Р	Р	Р	Р	P
Chloroform	P	Р	Р	P	P	P	P
Chloromethane	Р	F	P	F	Р	P	P
2-Chlorotoluene	P	P	Р	P	Р	P	P
4-Chlorotoluene	P	Р	Р	P	Р	P	P
1,2-Dibromo-3-Chloropropane	Р	Р	P	P	Р	P	Р
Dibromochloromethane	Р	Р	Р	P	Р	P	Р
1.2-Dichlorobenzene	P	P	Р	P	Р	P	P
1,3-Dichlorobenzene	Р	Р	Р	P	Р	Р	P
1.4-Dichlorobenzene	P	P	P	Р	Р	Р	Р
Dichlorodifluoromethane	P	F	F	P	Р	P	P
1.1-Dichloroethane	P	Р	P	P	Р	P	P
1,2-Dichloroethane	P	P	P	P	Р	P	P
1.1-Dichloroethene	P	P	P	P	P	P	P
cis-1,2-Dichloroethene	P	P	Р	P	P	P	P
trans-1,2-Dichloroethene	P	P	P	P	P	Р	Р
1,2-Dichloropropane	Р	Р	P	P	Р	P	. Р
1,3-Dichloropropane	Р	P	Р	P	Р	P	P
2,2-DCP,cis-1,2-DCE	P	Р	P	P	Р	P	P
Di-isopropyl Ether	Р	Р	P	P	Р	P	P
Ethylbenzene	P	Р	Р	P	P	P	P
EDB (1,2-Dibromoethane)	P	P	P	P	P	P	l P
Hexachlorobutadiene	P	P	P	P	Р	P	P
Isopropylbenzene	P	Р	P	Р	P	P	P
p-Isopropyltoluene	P	P	P	P	P	P	P
Methylene Chloride	Р	F	P	P	P	P	P
MTBE	P	Р	P	P	Р	P	P
Naphthalene	Р	P	Р	P	Р	P	P
n-Propylbenzene	P	P	P	P	Р	Р	P
1,1,2,2-Tetrachloroethane	P	P	P	P	Р	P	P
Tetrachloroethene	P	P	l P	P	P	Р	Р
Toluene	P	Р	P	P	P	P	P
1,2,3-Trichlorobenzene	P	Р	i P	P	P	Р	P
1,2,4-Trichlorobenzene	P	P	P	P	Р	P	P
1,1,1-Trichloroethane	Р	Р	P	P	P	Р	P
1,1,2-Trichloroethane	P	Р	Р	P	Р	Р	1 P
Trichloroethene	P	Р	Р	P	P	P	P
Trichlorofluoromethane	P	P	P	Р	P	P	P
124-Trimethylbenzene	P	P	P	P	P	P	P
1,3,5-Trimethylbenzene	P	P	P	P	P	P	P
Vinyl Chloride	P	P	Р	F	P	Р	P
,m&p-Xylene	P	Р	P	P	Р	P	P
o-Xylene	P	P	P	P	P	P	1 P -

P = Passed QC limits.

F = Failed QC limits.

NA = Not Applicable
QC Batch # 060493

"J" Flag: Analyte detected between LOD and LOQ.

Authorized Signature

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1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295

### WI DNR Certified Lab #445027660

#### VOC Method 8021 Volatile Organic Compounds (Methanol Preserved)

JOE MICHAELCHUCK **ENVIRONMENTAL ASSOCIATES INC** PO BOX 136 THIENSVILLE WI 53092

Report Date:

20-Nov-98

Analyzed By:

**BDB** 

ANALYTE	RESULT	LOD	LOQ	Dilution
4 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		UG/KG	UG/KG	Factor
Benzene	< 25	5.9	20	1
Bromobenzene	< 25	3.1	10	1
Bromodichloromethane	< 25	2.7	8.9	1
n-Butylbenzene	< 25	2.5	8.4	1
sec-Butylbenzene	< 25	4.8	16	1
tert-Butylbenzene	< 25	2.3	7.7	1
Carbon Tetrachloride	< 25	2.2	7.2	1
<sup>l</sup> Chlorobenzene	< 25	2.5	8.2	1
Chloroethane	< 25	5	17	1
Chloroform	< 25	2.8	9.2	1
Chloromethane	< 25	7.3	24	1
2-Chlorotoluene	< 25	2.4	7.9	1
4-Chlorotoluene	< 25	2.3	7.8	1
1,2-Dibromo-3-Chloropropane	< 25	2.1	7.1	1
Dibromochloromethane	< 25	2	6.7	1
1,2-Dichlorobenzene	< 25	2.2	7.2	1
1,3-Dichlorobenzene	< 25	2.2	7.4	1
1,4-Dichlorobenzene	< 25	2.2	7.2	1
Dichlorodifluoromethane	< 25	4.3	14	1
1,1-Dichloroethane	< 25	2.3	7.6	1
1,2-Dichloroethane	< 25	2.7	9.1	1
1,1-Dichloroethene	< 25	2.2	7.5	1
cis-1,2-Dichloroethene	< 25	2.8	9.3	1
trans-1,2-Dichloroethene	< 25	3.5	12	1
1,2-Dichloropropane	< 25	2.4	8	1
1,3-Dichloropropane	< 25	2.2	7.3	1

Fluorobenzene Surrogate 1,4-Dichlorobutane Surrogate Total % Solids

101 % Rec. 101 % Rec. Project #:

None

Project: Silver Terrace Center

MW9-5'-7' Sample ID: Lab Code: 5023422D Sample Type: Soil

03-Nov-98 Sample Date: 05-Nov-98 Date Analyzed:

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
2,2-DCP,cis-1,2-DCE	< 25	4.1	14	1
Di-isopropyl Ether	< 25	3.9	13	1
Ethylbenzene	< 25	6.2	11	1
EDB (1,2-Dibromoethane)	< 25	4.2	14	1
Hexachlorobutadiene	< 25	4.8	16	1
Isopropylbenzene	< 25	5	17	1
p-Isopropyltoluene	< 25	3.4	11	1
Methylene Chloride	< 25	3.3	11	1
MTBE	< 25	7	23	1
Naphthalene	< 25	7	23	1
n-Propylbenzene	< 25	2.8	9.2	1
1,1,2,2-Tetrachloroethane	< 25	7.1	24	1
Tetrachloroethene	< 25	3.6	12	1
Toluene	< 25	5.1	17	1
1,2,3-Trichlorobenzene	< 25	5.4	18	1
1,2,4-Trichlorobenzene	< 25	5.1	17	1
1,1,1-Trichloroethane	< 25	2.3	7.6	1
1,1,2-Trichloroethane	< 25	2	6.7	1
Trichloroethene	< 25	4.6	15	1
Trichlorofluoromethane	< 25	19	65	1
124-Trimethylbenzene	< 25	2.4	8	1
1,3,5-Trimethylbenzene	< 25	3.8	13	1
Vinyl Chloride	< 25	4.7	16	1
m&p-Xylene	< 50	5.6	19	1
o-Xylene	< 25	2.7	9	1

LOD = Limit of Detection LOQ = Limit of Quantitation

NA = Not Applicable

QC Batch # 060493

Authorized Signature

GC #5



1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295 WI DNR Certified Lab #445027660

#### **QC Summary**

### Method 8021 Volatile Organic Compounds

Project #: Sample ID: None MW9-5'-7' Report Date: Lab Code: 20-Nov-98 5023422D

ANALYTE	INITIAL	KNOWN	MATRIX	REPLICATE	BLANK	PID	HALL
	CALIBRATION	STANDARD	SPIKE	SPIKE		SURROGATE	SURROGATE
Benzene	Р	Р	Р	Р	P	Р	P
Bromobenzene	P	Р	Р	Р	P	P	P
Bromodichloromethane	P	P	P	Р	Р	P	P
n-Butylbenzene	Р	Р	P	P	Р	P	. P
sec-Butylbenzene	P	P	P	Р	Р	P	' Р
ert-Butylbenzene	P	Р	P	Р	P	P	P
Carbon Tetrachloride	P	P	Р	P	Р	P	P
Chlorobenzene	Р	Р	Р	P	Р	P	P
Chloroethane	Р	F	Р	Р	Р	P	P
Chloroform	P	Р	P	P	Р	P	Р
Chloromethane	P	F	Р	F	P	Р	P
2-Chlorotoluene	P	P	P	P	P	P	P
4-Chlorotoluene	P	P	P	P	Р	P	Р
1,2-Dibromo-3-Chloropropane	P	P	Р	P	P	P	P
Dibromochioromethane	P	P	Р	P	P	P	P
1.2-Dichlorobenzene	P	P	Р	Р	P	P	P
1,3-Dichlorobenzene	P	P	P	Р	P	P	P
1,4-Dichlorobenzene	P	P	P	Р	P	P	P
Dichlorodifluoromethane	P	F	F	P	P	P	P
1.1-Dichloroethane	Р	P	i p	P	P	P	P
1,2-Dichloroethane	P	P	l P	P	P	, P	P
1,1-Dichloroethene	Р	P	P	P	P	P	Р
cis-1,2-Dichloroethene	P	P	P	P	P	P	P
trans-1.2-Dichloroethene	P		p	P	P	P	Р
1,2-Dichloropropane	P	P	P	P	Р	P	P
1,3-Dichloropropane	P	Р	Р	P	P	P	Р
2,2-DCP,cis-1,2-DCE	P	P	P	P	P	P	P
Di-isopropyl Ether	P	P	P	P	P	P	P
Ethylbenzene	[ F	P	P	Р	P	P	P
EDB (1,2-Dibromoethane)	P	P	P	P	Р	P	P
Hexachlorobutadiene	P	Р	P	P	P	P	P
Isopropylbenzene	P	P	Р	P	P	P	P
p-Isopropyltoluene	ļ p	P	P	P	P	P	P
Methylene Chloride	P	F	P	P	P	P	P
MTBE	P	P	P	P	P	P	P
Maphthalene	P	l P	P	P	P	P	P
n-Propylbenzene	P	P P	P	P	P	P	P
1.1.2.2-Tetrachioroethane	P	P	P	P	P	P	P
Tetrachioroethene	P	P	P	P	P	P	P
		P	P	P	P	P	P
Toluene	i P	P	P	P	P	P	P
1.2,3-Trichlorobenzene	P	P	P	P	P	P	
1.2,4-Trichlorobenzene	P	P	P	P	P	P	P
1.1.1-Trichloroethane	,	P P	P				P
1.1.2-Trichloroethane	P	P	P P	P	P	P	P
Trichloroethene		i P				P	P
Trichlorofluoromethane	P		Р	P	P	P	P
124-Trimethylbenzene	Р	Р	P	P	P	P	P
1,3,5-Trimethylbenzene	Р	Р	P	P	P	P	P
Vinyl Chloride	Р	Р	Р	F	P	P	P
m&p-Xylene	P	P	Р	Р	P	P	Р
o-Xylene	P	P	P	P	P	P	P

P = Passed QC limits.

F = Failed QC limits.

NA = Not Applicable
QC Batch # 060493

<sup>&</sup>quot;J" Flag: Analyte detected between LOD and LOQ.



20-Nov-98

Analytical Laboratory

1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295

JOE MICHAELCHUCK

**ENVIRONMENTAL ASSOCIATES INC** 

PO BOX 136

Report Date:

THIENSVILLE WI 53092

Project #:

None

Project:

Silver Terrace Center

WI DNR Certified Lab #445027660

Sample ID:

MW9-13'-15'

Lab Code:

5023422E

Sample Type:

Soil

Sample Date:

03-Nov-98

Test	Result	LOD	LOQ	Unit	Dilution Factor	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	87.6			%		05-Nov-98	MLE	1
MODIFIED DRO WDNR SEP 95	< 10	0.58	1.9	MG/KG	1	09-Nov-98	BNR	1

LOD = Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ.

LOQ = Limit of Quantitation

QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.



1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295

### WI DNR Certified Lab #445027660

#### VOC

#### Method 8021 Volatile Organic Compounds (Methanol Preserved)

JOE MICHAELCHUCK **ENVIRONMENTAL ASSOCIATES INC** PO BOX 136 THIENSVILLE WI 53092

Report Date:

20-Nov-98

Analyzed By:

 	М.

ANALYTE	RESULT	LOD	LOQ	Dilution.	
		UG/KG	UG/KG	Factor	
Benzene	< 25	5.9	20	1	
Bromobenzene	< 25	3.1	10	1	
Bromodichloromethane	< 25	2.7	8.9	1	
n-Butylbenzene	< 25	2.5	8.4	1	
sec-Butylbenzene	< 25	4.8	16	1	
tert-Butylbenzene	< 25	2.3	7.7	1	
Carbon Tetrachloride	< 25	2.2	7.2	1	
Chlorobenzene	< 25	2.5	8.2	1	
Chloroethane	< 25	5	17	1	
Chloroform	< 25	2.8	9.2	1	
Chloromethane	< 25	7.3	24	1	
2-Chlorotoluene	< 25	2.4	7.9	1	
4-Chlorotoluene	< 25	2.3	7.8	1	
1,2-Dibromo-3-Chloropropane	< 25	2.1	7.1	1	
Dibromochloromethane	< 25	2	6.7	1	
1,2-Dichlorobenzene	< 25	2.2	7.2	1	
1,3-Dichlorobenzene	< 25	2.2	7.4	1	
1,4-Dichlorobenzene	< 25	2.2	7.2	1	
Dichlorodifluoromethane	< 25	4.3	14	1	
1,1-Dichloroethane	< 25	2.3	7.6	1	
1,2-Dichloroethane	< 25	2.7	9.1	1	
1,1-Dichloroethene	< 25	2.2	7.5	1	
cis-1,2-Dichloroethene	< 25	2.8	9.3	1	
trans-1,2-Dichloroethene	< 25	3.5	12	1	
1,2-Dichloropropane	< 25	2.4	8	1	
1,3-Dichloropropane	< 25	2.2	7.3	1	

Fluorobenzene Surrogate 1,4-Dichlorobutane Surrogate Total % Solids

101 % Rec. 100 % Rec.

87.6

Project #:

Project:

None

Silver Terrace Center

Sample ID: Lab Code:

MW9-13'-15' 5023422E

Sample Type:

Soil 03-Nov-98

Sample Date: Date Analyzed:

05-Nov-98

ANALYTE	RESULT.	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
2,2-DCP,cis-1,2-DCE	< 25	4.1	14	1
Di-isopropyl Ether	< 25	3.9	13	1
Ethylbenzene	< 25	6.2	11	1
EDB (1,2-Dibromoethane)	< 25	4.2	14	1
Hexachlorobutadiene	< 25	4.8	16	1
Isopropyibenzene	< 25	5	17	1
p-Isopropyltoluene	< 25	3.4	11	1
Methylene Chloride	< 25	3.3	11	1
MTBE	< 25	7	23	1
Naphthalene	< 25	7	23	1
n-Propylbenzene	< 25	2.8	9.2	1
1,1,2,2-Tetrachloroethane	< 25	7.1	24	1
Tetrachloroethene	< 25	3.6	12	1
Toluene	< 25	5.1	17	1
1,2,3-Trichlorobenzene	< 25	5.4	18	1
1,2,4-Trichlorobenzene	< 25	5.1	17	1
1,1,1-Trichloroethane	< 25	2.3	7.6	1
1,1,2-Trichloroethane	< 25	2	6.7	1
Trichloroethene	< 25	4.6	15	1
Trichlorofluoromethane	< 25	19	65	1
124-Trimethylbenzene	< 25	2.4	8	1
1,3,5-Trimethylbenzene	< 25	3.8	13	1
Vinyl Chloride	< 25	4.7	16	1
m&p-Xylene	< 50	5.6	19	1
o-Xylene	< 25	2.7	9	1

LOD = Limit of Detection

LOQ = Limit of Quantitation

NA = Not Applicable

QC Batch #

060493

GC #6



1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295

### WI DNR Certified Lab #445027660

### **QC Summary**

### Method 8021 Volatile Organic Compounds

Project #: Sample ID: None MW9-13'-15' Report Date: Lab Code: 20-Nov-98 5023422E

ANALYTE	INITIAL	KNOWN	MATRIX	REPLICATE	BLANK	PID	HALL
	CALIBRATION	STANDARD	SPIKE	SPIKE	17.7.5.	SURROGATE	SURROGATE
Benzene	Р	P	P	Р	Р	Р	Р
Bromobenzene	P	Р	Р	Р	Р	Р	P
Bromodichloromethane	Р	Р	Р	P	Р	P	P
n-Butylbenzene	Р	Р	Р	Р	Р	Р	Р
sec-Butylbenzene	Р	Р	Р	Р	Р	Р	P
tert-Butylbenzene	Р	Р	Р	P	Р	Р	P
Carbon Tetrachloride	P	Р	Р	Р	Р	P	P
Chlorobenzene	P	Р	P	P	Р	P	P
Chloroethane	Р	F	Р	Р	Р	P	P
Chloroform	Р	P	Р	Р	Р	P	P
Chloromethane	P	F	P	F	Р	Р	Р
2-Chiorotoluene	P	P	Р	Р	Р	Р	P
4-Chlorotoluene	P	Р	Р	P	Р	P	Р
1,2-Dibromo-3-Chloropropane	P	Р	Р	l P	Р	P	P
Dibromochloromethane	Р	Р	Р	P	Р	P	Р
1.2-Dichlorobenzene	P	Р	Р	Р	Р	Р	P
1,3-Dichlorobenzene	Р	Р	Р	P	Р	P	P
1.4-Dichlorobenzene	P	P	P	P	Р	P	P
Dichlorodifluoromethane	P	F	F	Р	Р	P	P
1.1-Dichloroethane	i P	P	P	P	Р	P	P
1,2-Dichloroethane	P	P	P	P	P	, P	P
1.1-Dichloroethene	P	P	P	P	P	P	P
cis-1,2-Dichloroethene	P	P	P	P	P P	P	P
trans-1,2-Dichloroethene	P	P	P	P	P.	P	P
1,2-Dichloropropane	P	P	P	P	P	P	P
1,3-Dichloropropane	P	P	Р	P	P	P	P
2,2-DCP,cis-1,2-DCE	P	P	P .	P	P	P	P
Di-isopropyl Ether	P	P	P	P	P	P	P
Ethylbenzene	P	P	P	P	P	P	P
EDB (1,2-Dibromoethane)	P	P	P	P	P	P	P
Hexachlorobutadiene	P	P	P	P	P	P	P
Isopropylbenzene	P	P	P	P	P	P	P
p-Isopropyttoluene	P	Р	P	P	P	P	P
Methylene Chloride	P	F	P	P	P	P	P
MTBE	P	P	P	P	P	P	P
Naphthalene	P	P	P	P	P	P	P
n-Propylbenzene	P	Р	P	P	P	P	P
	P	P	P	P	P	P	P
1,1,2,2-Tetrachioroethane Tetrachioroethene	P	P	P	P	P	P	P
Toluene	P	P	P	P	P	P	P
,	P	i P	; P	P	P	P	P
1,2,3-Trichlorobenzene	l P	! P	P	P	P	P	P
1,2,4-Trichlorobenzene	P	! P	P	P	P	P	P
1,1,1-Trichloroethane	i P	P	P	P	P	P	P
1,1,2-Trichloroethane	l P	P	P	P	P	P	P
Trichloroethene	! P	; P	P	P	P	P	P
Trichlorofluoromethane	P	! P	P	P	P	P	P
124-Tnmethylbenzene	P	P	P	P	P	P	
1,3,5-Trimethylbenzene	P	P	P	F	P	P	P
Vinyl Chloride		1 .	! '				P
m&p-Xylene	P	P	P	P	P	P	P
o-Xylene	1 P	P	1 P	) P	1 1	1 P	P

P = Passed QC limits.

F = Failed QC limits.

NA = Not Applicable
QC Batch # 060493

<sup>&</sup>quot;J" Flag: Analyte detected between LOD and LOQ.



1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295 WI DNR Certified Lab #445027660

JOE MICHAELCHUCK

**ENVIRONMENTAL ASSOCIATES INC** 

Test

PO BOX 136

THIENSVILLE WI 53092

Project #:

None

Project :

Silver Terrace Center

Sample ID:

MW9-17'19'

Lab Code:

5023422F Soil

Sample Type: Sample Date:

03-Nov-98

Report Date:

20-Nov-98

Result

LOD

Unit Dilution Date Analyzed QC Factor Analyzed: By: Code

05-Nov-98 MLE 1

TOTAL SOLIDS 87.6 % 05-Nov-98 MLE 1

MODIFIED DRO
WDNR SEP 95 < 10 0.58 1.9 MG/KG 1 09-Nov-98 BNR 1

LOQ

LOD = Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ.

LOQ = Limit of Quantitation

#### QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature

- Acht



1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295

#### WI DNR Certified Lab #445027660

LOD

UG/KG

4.1

3.9

LOQ

UG/KG

14

13

Factor

### VOC

#### Method 8021 Volatile Organic Compounds (Methanol Preserved)

JOE MICHAELCHUCK **ENVIRONMENTAL ASSOCIATES INC PO BOX 136** THIENSVILLE WI 53092

Report Date:

20-Nov-98

Analyzed By:

BDB

Project #:
Project:
Sample ID:
Lab Code:
Sample Type:
Sample Date:
Date Analyzed:

None

Silver Terrace Center

MW9-17'19' 5023422F Soil

03-Nov-98 05-Nov-98

RESULT

< 25

< 25

ANALYTE	RESULT	LOD	LOQ	Dilutio
		UG/KG	UG/KG	Facto
Benzene	< 25	5.9	20	1
Bromobenzene	< 25	3.1	10	1
Bromodichloromethane	< 25	2.7	8.9	1
n-Butylbenzene	< 25	2.5	8.4	1
sec-Butylbenzene	< 25	4.8	16	1
ert-Butylbenzene	< 25	2.3	7.7	1
Carbon Tetrachloride	< 25	2.2	7.2	1
Chlorobenzene	< 25	2.5	8.2	1
Chloroethane	< 25	5	17	1
Chloroform	< 25	2.8	9.2	1
Chloromethane	< 25	7.3	24	1
2-Chlorotoluene	< 25	2.4	7.9	1
4-Chlorotoluene	< 25	2.3	7.8	1
1,2-Dibromo-3-Chloropropane	< 25	2.1	7.1	1
Dibromochloromethane	< 25	2	6.7	1
1,2-Dichlorobenzene	< 25	2.2	7.2	1
1,3-Dichlorobenzene	< 25	2.2	7.4	1
1,4-Dichlorobenzene	< 25	2.2	7.2	1
Dichlorodifluoromethane	< 25	4.3	14	1
1,1-Dichloroethane	< 25	2.3	7.6	1
1,2-Dichloroethane	< 25	2.7	9.1	1
1,1-Dichloroethene	< 25	2.2	7.5	1
cis-1,2-Dichloroethene	140	2.8	9.3	1
trans-1,2-Dichloroethene	< 25	3.5	12	1
1,2-Dichloropropane	< 25	2.4	8	1
1,3-Dichloropropane	< 25	2.2	7.3	1

Fluorobenzene Surrogate
1,4-Dichlorobutane Surrogate
Total % Solids

100 % Rec. 101 % Rec. 87.6

Ethylbenzene	< 25	6.2	11	1
EDB (1,2-Dibromoethane)	< 25	4.2	14	1
Hexachlorobutadiene	< 25	4.8	16	1
Isopropylbenzene	< 25	5	17	1
p-Isopropyltoluene	< 25	3.4	11	1
Methylene Chloride	< 25	3.3	11	1
MTBE	< 25	7	23	1
Naphthalene	< 25	7	23	1
n-Propylbenzene	< 25	2.8	9.2	1
1,1,2,2-Tetrachloroethane	< 25	7.1	24	1
Tetrachloroethene	< 25	3.6	12	1
Toluene	< 25	5.1	17	1
1,2,3-Trichlorobenzene	< 25	5.4	18	1
1,2,4-Trichlorobenzene	< 25	5.1	17	1
1,1,1-Trichloroethane	< 25	2.3	7.6	1
1,1,2-Trichloroethane	< 25	2	6.7	1
Trichloroethene	47	4.6	15	1
Trichlorofluoromethane	< 25	19	65	1
124-Trimethylbenzene	< 25	2.4	8	1
1,3,5-Trimethylbenzene	< 25	3.8	13	1
Vinyl Chloride	< 25	4.7	16	1
m&p-Xylene	< 50	5.6	19	1
o-Xvlene	< 25	2.7	9	1

LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable

ANALYTE

2,2-DCP,cis-1,2-DCE

Di-isopropyl Ether

QC Batch # 060493

Authorized Signature

GC #6



Analytical Laboratory 1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295 WI DNR Certified Lab #445027660

### **QC Summary**

### Method 8021 Volatile Organic Compounds

Project #: Sample ID:

None MW9-17'19' Report Date: Lab Code: 20-Nov-98 5023422F

ANALYTE	INITIAL	KNOWN	MATRIX	REPLICATE	BLANK	PID	HALL
	CALIBRATION	STANDARD	SPIKE	SPIKE		SURROGATE	SURROGATE
Benzene	Р	Р	P	Р	Р	Р	Р
Bromobenzene	P	Р	Р	Р	P	Р	P
Bromodichloromethane	P	P	P	Р	P	Р	Р
n-Butylbenzene	P	P	Р	P	P	P	P
sec-Butylbenzene	Р	Р	Р	P	Р	P	P
tert-Butylbenzene	Р	Р	P	P	Р	i P	P
Carbon Tetrachloride	P	Р	Р	P	Р	P	Р
Chlorobenzene	Р	P	Р	P	Р	P	P
Chloroethane	P	F	Р	Р	Р	P	Р
Chloroform	P	P	P	P	P	P	P
Chloromethane	P	F	P	F	P	P	Р
2-Chlorotoluene	P	P	P	P	P	P	Р
4-Chlorotoluene	P	P	P	P	P	P	i P
1,2-Dibromo-3-Chloropropane	P	P	P	P	P	P	P
Dibromochloromethane	P P	P	P	P	P	P	Р
1.2-Dichlorobenzene	P	P	P	P	P	P	P
1,3-Dichlorobenzene	P	P	Þ	į p	P	þ	P
1.4-Dichlorobenzene	P	P	P	P	P	P	P
Dichlorodifluoromethane	P	F	F	P	P	P	Р
1,1-Dichloroethane	P	P	P	P	P	þ	P
1,2-Dichloroethane	P	P	P	P	P	þ	P
1,1-Dichloroethene	P	P	P	P	P	P	P
cis-1,2-Dichloroethene	P	P	P	P	P	P	P
trans-1,2-Dichloroethene	P	P	P	P	P	P	P
	P	P	P	P	P	P	P
1,2-Dichloropropane	P	P	P	P		P	
1,3-Dichloropropane	P	P	P	P	P P	P	P
2,2-DCP,cis-1,2-DCE	P	P	P	P	P	P	Р
Di-isopropy! Ether						,	P
Ethylbenzene	Р	P	P	Р	Р	P	P
EDB (1,2-Dibromoethane)	Р	Р	P	P	P	P	• P
Hexachlorobutadiene	Р	P	P	P	P	P	P
Isopropylbenzene	P	P	Р	P	P	P	P
p-Isopropyltoluene	Р	Р	Р	Р	Р	P	P
Methylene Chloride	P	F	Р	P	Р	P	P
MTBE	P	P	Р	j P	P	P	Р
Naphthalene	P	P	Р	Р	Р	P	Р
n-Propylbenzene	Р	Р	Р	P	Р	P	P
1,1,2,2-Tetrachloroethane	P	P	P	Р	P	P	' P
Tetrachloroethene	Р	; P	Р	P	Р	P	. Р
Toluene	P	P	P	P	P	P	: P
1,2,3-Trichlorobenzene	P	P	P	P	P	P	P
1.2,4-Trichlorobenzene	Р	Р	Р	Р	Р	P	. P
1,1,1-Trichloroethane	P	Р	P	P	Р	P	P
1,1,2-Trichloroethane	P	P	P	P	Р	P	P
Trichloroethene	P	¦ P	Р	Р	Р	P	Р
Trichlorofluoromethane	P	P	Р	Р	Р	P	Р
124-Trimethylbenzene	P	; P	P	, P	Р	Р	Р
1,3,5-Trimethylbenzene	, P	į P	Р	P	Р	P	P
Vinyl Chloride	P	P	P	j F	Р	P	. P
m&p-Xylene	Р	P	Р	Р	Р	Р	P
o-Xylene	P	Р	P	P	Р	P	P

P = Passed QC limits.

Authorized Signature

Je h

F = Failed QC limits.

NA = Not Applicable
QC Batch # 060493

<sup>&</sup>quot;J" Flag: Analyte detected between LOD and LOQ.



1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295

### WI DNR Certified Lab #445027660

### VOC

#### Method 8021 Volatile Organic Compounds (Methanol Preserved)

JOE MICHAELCHUCK **ENVIRONMENTAL ASSOCIATES INC PO BOX 136** THIENSVILLE WI 53092

Report Date:

Analyzed By:

20-Nov-98

BD	0	-	
וטט	0		

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
Benzene	< 25	5.9	20	1
Bromobenzene	< 25	3.1	10	1
Bromodichloromethane	< 25	2.7	8.9	1
n-Butylbenzene	< 25	2.5	8.4	1
sec-Butylbenzene	< 25	4.8	16	1
tert-Butylbenzene	< 25	2.3	7.7	1
Carbon Tetrachloride	< 25	2.2	7.2	1
Chlorobenzene	< 25	2.5	8.2	1
Chloroethane	< 25	5	17	1
Chloroform	< 25	2.8	9.2	1
Chloromethane	< 25	7.3	24	1
2-Chlorotoluene	< 25	2.4	7.9	1
4-Chlorotoluene	< 25	2.3	7.8	1
1,2-Dibromo-3-Chloropropane	< 25	2.1	7.1	1
Dibromochloromethane	< 25	2	6.7	1
1,2-Dichlorobenzene	< 25	2.2	7.2	1
1,3-Dichlorobenzene	< 25	2.2	7.4	1
1,4-Dichlorobenzene	< 25	2.2	7.2	1
Dichlorodifluoromethane	< 25	4.3	14	1
1,1-Dichloroethane	< 25	2.3	7.6	1
1,2-Dichloroethane	< 25	2.7	9.1	1
1,1-Dichloroethene	< 25	2.2	7.5	1
cis-1,2-Dichloroethene	< 25	2.8	9.3	1
trans-1,2-Dichloroethene	< 25	3.5	12	1
1,2-Dichloropropane	< 25	2.4	8	1
1,3-Dichloropropane	< 25	2.2	7.3	1

Fluorobenzene Surrogate 1,4-Dichlorobutane Surrogate Total % Solids

100 % Rec. 100

105 % Rec.

Project #:

Project:

None

Silver Terrace Center

Sample ID: Lab Code:

TRIP 5023422G

Sample Type: Sample Date: Date Analyzed:

MeOH 03-Nov-98

05-Nov-98

ANALYTE	RESULT	LOD	LOQ	Dilution
		UG/KG	UG/KG	Factor
2,2-DCP,cis-1,2-DCE	< 25	4.1	14	1
Di-isopropyl Ether	< 25	3.9	13	1
Ethylbenzene	< 25	6.2	11	1
EDB (1,2-Dibromoethane)	< 25	4.2	14	1
Hexachlorobutadiene	< 25	4.8	16	1
Isopropylbenzene	< 25	5	17	1
p-Isopropyltoluene	< 25	3.4	11	1
Methylene Chloride	< 25	3.3	11	1
MTBE	< 25	7	23	1
Naphthalene	< 25	7	23	1
n-Propylbenzene	< 25	2.8	9.2	1
1,1,2,2-Tetrachloroethane	< 25	7.1	24	1
Tetrachloroethene	< 25	3.6	12	1
Toluene	< 25	5.1	17	1
1,2,3-Trichlorobenzene	< 25	5.4	18	1
1,2,4-Trichlorobenzene	< 25	5.1	17	1
1,1,1-Trichloroethane	< 25	2.3	7.6	1
1,1,2-Trichloroethane	< 25	2	6.7	1
Trichloroethene	< 25	4.6	15	1
Trichlorofluoromethane	< 25	19	65	1
124-Trimethylbenzene	< 25	2.4	8	1
1,3,5-Trimethylbenzene	< 25	3.8	13	1
Vinyl Chloride	< 25	4.7	16	1
m&p-Xylene	< 50	5.6	19	1
o-Xylene	< 25	2.7	9	1

LOD = Limit of Detection

LOQ = Limit of Quantitation

NA = Not Applicable

QC Batch #

060493

GC #6



1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295 WI DNR Certified Lab #445027660

#### **QC Summary**

### Method 8021 Volatile Organic Compounds

Project #: Sample ID: None TRIP Report Date: Lab Code: 20-Nov-98 5023422G

ANALYTE	INITIAL	KNOWN	MATRIX	REPLICATE	BLANK	PID	HALL
	CALIBRATION	STANDARD	SPIKE	SPIKE		SURROGATE	SURROGATE
Benzene	Р	Р	P	Р	Р	Р	Р
Bromobenzene	Р	Р	P	P	Р	P	P
Bromodichloromethane	Р	Р	Р	P	Р	P	Р
n-Butylbenzene	Р	Р	Р	Р	Р	P	Р
sec-Butylbenzene	P	Р	Р	P	Р	P	P
tert-Butylbenzene	P	Р	Р	P	Р	P	P
Carbon Tetrachloride	P	Р	P	P	P	P	P
Chlorobenzene	P	P	P	P	P	P	P
Chloroethane	P	F	P	P	Р	P	P
Chloroform	P	P.	P	P	Р	P	P
Chloromethane	P	F	P	F	P	P	P
2-Chiorotoluene	P	P	P	P	P	P	P
4-Chlorotoluene	P	P	P	P	P	þ	P
1,2-Dibromo-3-Chloropropane	P	P	P	P	P	P	P
Dibromochloromethane	P	P	P	P	P	P	P
1.2-Dichlorobenzene	F .	Р	P	P	P	P	P
	P	P	P	P	P	P	P
1,3-Dichlorobenzene	P	P	P	P	P	P	P
1,4-Dichlorobenzene	P	F	F	P	P	P	P
	P	P	P	P	P	P	P
1,1-Dichloroethane	P		P	P	P		
1,2-Dichloroethane		P				P	P
1,1-Dichloroethene	P	P	Р	P	P	P	P
cis-1,2-Dichloroethene	P	P	Р	Р	P	P	Р
trans-1,2-Dichloroethene	P	Р	Р	Р	P	P	P
1,2-Dichloropropane	Р	Р	Р	P	P	P	P
1,3-Dichloropropane	Р	Р	Р	P	P	Р	Р
2,2-DCP,cis-1,2-DCE	P	Р	P	P	P	P	P
Di-isopropyl Ether	Р	P	Р	Р	Р	P	Р
Ethylbenzene	P	P	P	P	Р	P	i P
EDB (1,2-Dibromoethane)	P	Р	P	P	Р	P	Р
Hexachlorobutadiene	P	P	P	P	Р	P	P
Isopropylbenzene	P	P	P	P	Р	P	P
p-Isopropyitoluene	P	P	P	P	Р	P	P
Methylene Chloride	P	F	Р	P	Р	P	P
MTBE	P	Р	Р	P	P	P	P
Naphthalene	P	P	Р	P	P	P	P
n-Propylbenzene	Р	P	Р	Р	Р	P	Р
1,1,2,2-Tetrachloroethane	P	P	Р	Р	Р	P	P
Tetrachloroethene	P	Р	Р	Р	Р	P	Р
Toluene	P	ĺР	Р	ĺР	P	P	P
1.2.3-Trichlorobenzene	P	P	Р	Р	Р	P	P
1.2.4-Trichlorobenzene	P	P	P	P	Р	P	P
1.1.1-Trichloroethane	P	P	Р	P	P	P	P
1.1.2-Trichloroethane	P	P	Р	P	P	P	P
Trichloroethene	P	P	P	P	P	P	P
Trichlorofluoromethane	P	P	P	P	P	P	P
124-Trimethylbenzene	P	P	P	P	P	P	P
1,3,5-Trimethylbenzene	P	P	P	P	P	P	; P
Vinyi Chloride	P	P	P	F	P	P	P
	P	P	P	P	P	P	. P
m&p-Xylene	P	P	P	P	P	P	; P
o-Xylene			F			, P	, P

P = Passed QC limits.

F = Failed QC limits.

NA = Not Applicable
QC Batch # 060493

"J" Flag: Analyte detected between LOD and LOQ.

Authorized Signature

A.A.



1090 Kennedy Ave. Kimberly, WI 54136 920-735-8295 WI DNR Certified Lab #445027660

JOE MICHAELCHUCK

**ENVIRONMENTAL ASSOCIATES INC** 

PO BOX 136

THIENSVILLE WI 53092

Project #:

None

Project:

Silver Terrace Center

Sample ID:

MW9-15'-17'

Lab Code:

5023422H

Sample Type:

Soil

Report Date:

20-Nov-98

Sample Date:

03-Nov-98

Test	Result	LOD	LOQ	Unit	Dilution Factor	Date Analyzed:	Analyzed By:	QC Code
TOTAL ORGANIC CARBON SW846 9060	4870	7.6	25	MG/KG		13-Nov-98	Robert E. Lee	1

LOD = Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ.

LOQ = Limit of Quantitation

QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

# CHAIN OF CUSTODY RECORD

Lab I.D. # 5023422



Analytical Lab

1090 Kennedy Ave. Kimberly, WI 54136
(414) 735-8295 • FAX 414-739-1738 • 800-490-4902
USALAB@AOL.COM

Chain # Nº 7665

Account No.:		Quote N	0.:			UJALA	Dev	OL.COM						Page	·	of			
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Sampler: (signature)	Ju m	incul c	4		Cooler seal int														_
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Company Envir						iales		Re	quest								larben		
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# WI DNR Activities at Discharge Sites

? Help

RECEIVED

MAR 1 1 2003

ERS DIVISION MILWAUKEE

BRRTS data comes from many sources inside and outside of DNR. There may be gaps and errors in the data, or delays in updating new information. Please see our <u>disclaimers page</u> for more information.

**DNR Activity Number:** 

03-41-169385

**Activity Type:** 

LUST

**Activity Name:** 

WEIN PROPERTY / STRIP MALL

**Start Date:** 

08/06/1997

**End Date:** 

Site Name:

SILVER TERRACE CENTER

Address:

5821-5835 W SILVER SPRING DR

**Municipality:** 

MILWAUKEE

County:

Milwaukee

**DNR Region:** 

Southeast Region

Quarter Quarter Section: NW

**Quarter Section:** 

NW

**Survey Section:** 

35

**Survey Township:** 

8

**Survey Range:** 

21E

FID Number:

241931910

**Jurisdiction:** 

Commerce Unknown

Priority: Risk:

Medium

## Persons or Companies associated with this DNR Activity

Person or Company	Role	Address	Address 2	PO Box	Municipality	State	Zip
ENVIRONMENTAL ASSOCIATES INC	Consultant	GREEN		BOX	THIENSVILLE	WI	53092
		BAY RD		136			

Record 1 of 1

3/12/03 11:02:41 AM

Download

# **Actions performed during this DNR Activity**

Action Name	Action Description	Comment	Date Action Occurred
Notification	Date the DNR is notified of the discovery of the contamination.		08/06/1997
RP Letter Sent	Date of letter to RP notifying of legal responsibilities associated with the discovery of contamination.		08/27/1997
Activity Transferred to DCOM	Date that project management for the activity is transferred to Department of Commerce. Includes transfer of site files.	TICKLER GENERATED REQUEST	12/16/2002
Miscellaneous	Miscellaneous action. Please see action comments.	FILE NEVER SENT 12/16/02 - FILE & TRANSFER LETTER SENT 2/28/03	02/28/2003

Records 1 to 4 of 4

Download

# **Impacts**

Impact Description	Comment
Soil Contamination	

Record 1 of 1

## **Substance**

<b>Substance Description</b>	Substance Name	<b>Amount Released</b>	Units
Fuel Oil			

Record 1 of 1

# **Spiller Action**

No Records returned

3/12/03 11:02:41 AM



### State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director
RECEIVED

MAR 1 1 2003

Southeast Region Headquarters 2300 N. Dr. Martin Luther King, Jr. Drive PO Box 12436 Milwaukee, Wisconsin 53212-0436 Telephone 414-263-8500 FAX 414-263-8483 TTY 414-263-8713

February 28, 2003

ERS DIVISION MILWAUKEE

Fred Wein PO BOX 17396 Milwaukee, WI 53217

> BRRTS # 03-41-169385 FID # 241931910

Subject: Transfer of Site File, Silver Terrace Center, 5821-5835 W. Silver Spring Dr., Milwaukee, WI.

#### Dear Mr. Wein:

The recently enacted Biennial Budget contained language, which modifies the way the State classifies sites impacted by petroleum contamination. In addition, under this same language, oversight for sites falling under the definition of "low or medium risk" would become the responsibility of the Department of Commerce (Commerce) rather than our agency. Your site appears to fall under this new definition of "low/medium risk" and as such, further reviews of submittals and technical assistance will be provided by staff at Commerce.

At the request of your environmental consultant, we are transferring your site, along with all file documents for your site, to the Department of Commerce. If you have questions or concerns regarding your site, or would like to review any of the pertinent file documents, you should direct them to Commerce staff at the following address:

Monica Weis	(414) 220-5361	Wisconsin Department of Commerce
Gregory Michael	(414) 220-5375	Environmental & Regulatory Services
Linda Michalets	(414) 220-5376	101 West Pleasant Street - Suite 205
Jennifer Skinner	(414) 220-5373	Milwaukee, WI 53212
Steve Mueller	(414) 220-5402	
Lee Delcore	(414) 220-5403	

Thank you for your understanding as we implement the language contained within the recent Biennial Budget.

Sincerely,

Victoria Stovall, Program Assistant Department of Nati

Department of Natural Resources Remediation & Redevelopment

414-263-8688

Site File

Environmental Associates, Inc.

bua Storall ma



Checklist for "Non-Responders" Audit
Phase I: No entry into BRRTS since RP letter for all cases prior to 1/1/01

Case Name: Ween Property Stripmall FID#	241931910
BRRTS#: 03-41-169385 Auditor: BG PI	M/Reviewer:
If there is file information not listed in BRRTS	
Have you updated BRRTS with all file information available?	Y or N
Is there a closure request pending?	Y or N
Is this a high-risk site that DNR should continue to retain?	Y N or Unknown
Are there documents in the file that are more recent than 1/1/01?	Y or N
Phone Contact Information	
Contact Name: <u>Tee Michael Chuck</u> RP of	Consultant .
Phone #: 262-242-1088 Date of call: Status of Case: Remedical murestration sub	12-10-02 nted for
PCE at SITE (ERPACT.) and asked to	2 no hurther
action on Tank issue, DNR did	not respond
15 Sendy a Summary hopy	to transfer
Lust Activity to Dlom	
Based on this status update, does RP need a letter?	Y or N
If yes, which type of letter is appropriate?	
<ul> <li>□ 1) Original RP is still owner and nothing has been do</li> <li>□ 2) Current property owner is different from original I</li> <li>□ 3) Work has been done at the site, but DNR does not</li> <li>□ 4) Case-specific (does not fit any of the above scenar</li> </ul>	RP. have copies of documents.
Has a BRRTS code been entered and the letter forwarded to Reviewer?	Y or N
Has case been entered into Reviewer's tracking spreadsheet?	Y or N
If a letter was not sent, is there other action needed, and if so, what?	
5,te request Transfer to DComm from Consultant in file	1. Letter
from Consultant in file	
Date this action was completed: 12-16-02  By whom: 7	BG

<sup>\*</sup> Letter must be reviewed and approved by supervisor.

# Environmental Associates, Inc.



December 11, 2002

RECEIVED

DEC 1 6 2002

Barb Grundl
Wisconsin Department of Natural Resources
Southeast Region Remediation and Redevelopment Program
2300 North Dr. Martin Luther King Drive
Milwaukee, WI 53212

ERS DIVISION

Re:

Silver Terrace Shopping Center, 5821-5835 West Silver Spring Drive, Milwaukee, Wisconsin (BRRTS #03-41-169385) (FID #241931910)

Dear Barb Grundl:

The purpose of this correspondence is to request that the case files associated with the above referenced activity be transferred from the Wisconsin Department of Natural Resources (WDNR) to the Department of Commerce (COMM). Environmental Associates, Inc. has determined that COMM has administrative authority for this site because: (1) This site is classified as a low risk; and, (2) The fuel oil contamination related to this activity has not commingled with the dry cleaning solvent contamination at the site.

As such, in accordance with Wisconsin Administrative Code (WAC), Chapter NR 746.04, Environmental Associates request that this site be transferred to COMM.

On behalf of Silver Terrace Shopping Center, LLP, Environmental Associates thank you for your time on this matter.

Sincerely,

Environmental Associates, Inc.

Jus Wielandchuck, PE

Joe Michaelchuck, P.E.

Project Manager

cc: File

Client

Dennis Fisher - Meissner Tierney Fisher & Nichols

Stephen Mueller – COMM



# WI DNR Activities at Discharge Sites

? Help

BRRTS data comes from many sources inside and outside of DNR. There may be gaps and errors in the data, or delays in updating new information. Please see our <u>disclaimers page</u> for more information.

**DNR Activity Number:** 

03-41-169385

**Activity Type:** 

LUST

**Activity Name:** 

WEIN PROPERTY / STRIP MALL

**Start Date:** 

08/06/1997

**End Date:** 

Site Name:

SILVER TERRACE CENTER

Address:

5821-5835 W SILVER SPRING DR

**Municipality:** 

**MILWAUKEE** 

**County:** 

Milwaukee

**DNR Region:** 

Southeast Region

**Quarter Quarter Section:** NW

**Quarter Section:** 

NW

**Survey Section:** 

35

Survey Township:

8

**Survey Range:** 

21E

FID Number:

241931910

Jurisdiction:

Commerce Unknown

**Priority:** 

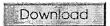
Risk:

Medium

# Persons or Companies associated with this DNR Activity

Person or Company	Role	Address	Address 2	PO Box	Municipality	State	Zip
ENVIRONMENTAL ASSOCIATES INC	li l	210 GREEN BAY RD		PO BOX 136	THIENSVILLE	WI	53092

Record 1 of 1



# **Actions performed during this DNR Activity**

Action Name	Action Description	III omment	Date Action Occurred
Notification	Date the DNR is notified of the discovery of the contamination.		08/06/1997
RP Letter Sent	Date of letter to RP notifying of legal responsibilities associated with the discovery of contamination.		08/27/1997
Activity Transferred to DCOM	activity is transferred to Department of	TICKLER GENERATED REQUEST	12/16/2002

Records 1 to 3 of 3

Download

# **Impacts**

Impact Description	Comment
Soil Contamination	

Record 1 of 1

### **Substance**

Substance Description	Substance Name	<b>Amount Released</b>	Units
Fuel Oil			

Record 1 of 1

# **Spiller Action**

No Records returned

• Person or Company

Send DNR Feedback About This DNR Activity
BRRTS on the Web Feedback Form



Environmental Associates, Inc. P.O. Box 136 Thiensville, Wisconsin 53092 (262) 242-1088 fax- (262) 242-6554 toll free (800) 494-4645 www.eaiwi.com

	-	_
100		
		4

To:	Barb Grundl		From:	Joe Michaelchu	ck
Company:	WDNR		Pages		
Fax:	414-263-8483		Date:	December 12, 2	002
Re:	Request for Upo	iate-BRRTS	CC:		
	#03-41-169385			<del>,</del>	
□ Urgent	☐ For Review	☐ Please Cor	mment	☐ Please Reply	☐ Please Recycle

### Barb:

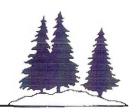
Here is an update for the Silver Terrace Shopping Center. As we discussed, this correspondence will prevent you from having to take action on the site, whether that would be issuing another RP letter or notice of non-compliance.

If you need any additional information, or this letter does not meet with your approval, please contact me so that we can provide you with whatever it is you need.

Thanks,

Joe

# Environmental Associates, Inc.



December 11, 2002

Barb Grundl
Wisconsin Department of Natural Resources
Southeast Region Remediation and Redevelopment Program
2300 North Dr. Martin Luther King Drive
Milwaukee, WI 53212

Re: Silver Terrace Shopping Center, 5821-5835 West Silver Spring Drive, Milwaukee,

Wisconsin (BRRTS #03-41-169385) (FID #241931910)

#### Dear Barb Grundl:

The purpose of this correspondence is to request that the case files associated with the above referenced activity be transferred from the Wisconsin Department of Natural Resources (WDNR) to the Department of Commerce (COMM). Environmental Associates, Inc. has determined that COMM has administrative authority for this site because: (1) This site is classified as a low risk; and, (2) The fuel oil contamination related to this activity has not commingled with the dry cleaning solvent contamination at the site.

As such, in accordance with Wisconsin Administrative Code (WAC), Chapter NR 746.04, Environmental Associates request that this site be transferred to COMM.

On behalf of Silver Terrace Shopping Center, LLP, Environmental Associates thank you for your time on this matter.

Sincerely,

Environmental Associates, Inc.

Jas Whelawlobuete, P.E.

Joe Michaelchuck, P.E.

Project Manager

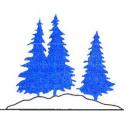
cc: File

Client

Dennis Fisher - Meissner Tierney Fisher & Nichols

Stephen Mueller – COMM

# Environmental Associates, Inc.



May 28, 1998

Mr. Mike Farley

BBR Program Assistant

Wisconsin Department of Natural Resources

2300 N. Dr. Martin Luther King Jr. Drive

P.O. Box 12436

Milwaukee, WI 53212

RE. Silver Terrace Center, 5821-5835 West Silver Spring Drive, Milwaukee

(BRRTS #:03-41-169385) (Facility ID #: 241931910)

Dear Mr. Farley:

Environmental Associates, Inc. (Environmental Associates) has been retained by Mr. Fred Wein on May 7, 1998 for consulting services at the above referenced site. Please find enclosed a copy of the workplan for the proposed investigation. The investigation is scheduled for the week of June 1, 1998.

Should you have any questions or comments, or require additional information, please feel free to contact us at (414) 242-1088.

Sincerely.

Environmental Associates, Inc.

Joe Michaelchuck

Project Manager

JM:mas 598WDNR.DOC

cc: File

Client

### REVISED REMEDIAL INVESTIGATION PROPOSAL

### SILVER TERRACE CENTER 5821-5835 WEST SILVER SPRING ROAD MILWAUKEE, WISCONSIN

MAY 7, 1998

PROPOSAL NUMBER Pr 234a

### REVISED REMEDIAL INVESTIGATION PROPOSAL

SILVER TERRACE CENTER 5821-5835 WEST SILVER SPRING ROAD MILWAUKEE, WISCONSIN

PREPARED FOR:

MR. FRED WEIN
P.O. BOX 17396
MILWAUKEE, WISCONSIN 53217

PREPARED BY:

ENVIRONMENTAL ASSOCIATES, INC. P.O. BOX 136 THIENSVILLE, WISCONSIN 53092

MAY 7, 1998

D'ARCY/GRAVELLE OPERATIONS MANAGER

PROPOSAL NUMBER Pr 234a

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2.1.2	Proposed Bore hole Locations
2.1.3	Soil Sampling
2.1.3.1	Field Screening of Soil Samples
2.1.3.2	Laboratory Analysis of Soil Samples
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222	Laboratory Analyses of Groundwater Samples

### SECTION 3.0 CONTAMINATION ASSESSMENT REPORT AND REMEDIAL ACTION PLAN

### SECTION 4.0 ASSOCIATED COSTS

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4.1.1	Laboratory Soil Analytical Costs
1.1.2	Laboratory Groundwater Analytical Costs
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4.2.2	Reporting/Documentation
4.3	Equipment Rental
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# SECTION 1.0 BACKGROUND INFORMATION

The following presents Environmental Associates, Inc. (Environmental Associates) revised proposal to conduct a remedial investigation of a petroleum release and a tetrachloroethylene (PCE) release at the Silver Spring Terrace facility, located at 5821-5835 West Silver Spring Drive, Milwaukee, Wisconsin (Figure 1). This proposal has been prepared in conformance with your request.

On September 18, 1997 three (3) fuel oil Underground Storage Tanks (UST's) were removed from the property. Field indications and laboratory analyses of soil from within all three tank pits suggest that a release associated with all three UST's has occurred.

American Stores Properties, Inc. retained Clayton Environmental Services (Clayton Environmental) to perform a limited Phase II Environmental Site Assessment (ESA) of the Property. Clayton Environmental evaluated the extent of fuel oil contamination in the near vicinity of the three former UST's, as well as soil and groundwater quality in the near vicinity of a tenant of the property (One Hour Dry Cleaning). Clayton Environmental performed a series of 23 soil boring, of which, 39 soil samples were submitted to a laboratory for analyses of Volatile Organic Compounds (VOC's) and Diesel Range Organic (DRO) parameters. A geographic description of the associated bore hole locations are presented for review in Figure 2. The result of Clayton Environmental's analyses of the property suggests that soil contamination related to all three UST's was evident in their immediate tank pits. Based on the laboratory data provided by Clayton Environmental, it would appear that soil contamination in the vicinity of the eastern most UST appears confined to the tank pit. Soil in the vicinity of the western tank pit appears to be defined on site, however, the extent of contamination to the south may require further definition. Laboratory data further suggested that a PCE release has occurred at two locations at the Property, a summary of the locations of the PCE release is presented as follows:

- 1) Along the south side of the building near the alley entrance.
- 2) Along the west side of the building near the One Hour Dry Cleaning store entrance.

Laboratory data submitted by Clayton Environmental would suggest that the lateral extent of PCE contaminated soil along the south side of the Property appears to have been defined, however, further evaluation of groundwater quality will be required. Soil contamination along the west side of the Property does not appear defined and will require further investigation in all four directions, additionally, further evaluation of groundwater quality will be required. A sample of groundwater collected by Clayton Environmental would suggest that groundwater is impacted along the west side of the building and may be impacted with PCE along the south side of the Property.

This Property will require notification to the Wisconsin Department of Natural Resources (WDNR) in conformance with Wisconsin Law (Administrative Statute NR 144.76). Currently Mr. Wein is soliciting proposals from qualified consultants to assist in investigating and ultimately receiving WDNR closure of these releases.

The purpose of this proposal is to present a scope of services, including costs, which when implemented should define the degree and extent of local soil contamination and assess local groundwater quality.

### SECTION 2.0 PROPOSED INVESTIGATION

Successful and cost effective remediation of the potential environmental contamination at the property requires a thorough understanding of the contaminants involved, the degree of migration, and the local geologic and hydrogeologic conditions. The remainder of this document will present a proposed scope of services recommended by Environmental Associates to document and define the local soil and groundwater quality conditions.

### 2.1 Proposed Soil Borings

To attempt to define the extent of soil contamination at the property, it is proposed that four soil exploration borings should be advanced along the west side of the Property and three soil borings should be advanced along the south side of the Property (Figure 2).

#### 2.1.1 Method of Advancement

The proposed soil exploration borings will be advanced by use of a conventional drill rig. The borings will be advanced to the depth of the suspected local groundwater (approximately 20 feet below grade).

### 2.1.2 Proposed Bore hole Locations

A geographic description of proposed boring locations (Figure 2) are presented as follows:

### Along the west side of the building

- Near HPU 14 (MW1, Figure 2).
- Approximately 20 feet north of HPU 16 (MW2, Figure 2).
- Approximately 20 feet south of HPU 15 (MW3, Figure 2).
- Approximately 20 feet west of HPU 18 (MW4, Figure 2).

### Along the south side of the building

- Near HPU 5 (MW5, Figure 2).
- Near HPU 19 (MW6, Figure 2).
- Near HPU 3 (MW7, Figure 2).

### 2.1.3 Soil Sampling

Both field and laboratory screening shall be performed on all soil samples collected. A description of sampling techniques is presented as follows:

### 2.1.3.1 Field Screening of Soil Samples

Soil samples shall be collected as per conventional bore hole methods. A continuous sampling of soils will be retrieved from a decontaminated collection tool, as the boring is advanced. A portion of the retrieved soils shall be placed immediately into a Ziploc<sup>TM</sup> plastic bag, stored in a warm location (i.e. 60°F) for at least twenty minutes, then field screened with a photoionization detector for the presence of volatile organic compounds such as those related to petroleum fuel and PCE. All soil samples collected shall also be noted and described by a qualified Hydrogeologist, with special emphasis on color, odor, moisture, soil classification, uniformity and plasticity.

### 2.1.3.2 Laboratory Analysis of Soil Samples

It is proposed that up to three soil samples per boring be collected and analyzed for VOC's and DRO. The soil samples would be collected from above the local groundwater interface depth to assess soil quality, at the local interface depth to assess potential groundwater quality conditions and below the local groundwater interface to assess the vertical extent of contamination.

### 2.2 Proposed Well Locations

As previously discussed, groundwater contamination has been documented along the west side of the building. Environmental Associates propose that all four borings along the west side of the building be converted to wells. It is our opinion that the proposed location of the borings should be sufficient to define the full lateral extent of this release.

It is further proposed that the borings near the south side of the building (MW5-MW7) be converted to monitor wells to assess whether groundwater in the near vicinity of these boring has been impacted. Given the vertical extent of soil contamination observed in these bore hole locations, a groundwater investigation will be necessary to obtain closure at this location with the WDNR.

#### 2.2.1 Method of Advancement

The proposed monitoring well will be advanced by use of a drill rig. The well would be advanced using conventional hollow stem auger drilling methods. Additionally, the well would be installed in conformance with Wisconsin Administrative Code, Chapter NR 140 standards.

### 2.2.2 Laboratory Analysis of Groundwater Samples

Groundwater samples would be collected from within the well in compliance with Wisconsin Administrative Code, Chapter NR 141 standards. Groundwater from within the wells would be submitted to a laboratory for analyses of VOC's. The results of the analyses would be compared to State of Wisconsin clean-up standards.

### SECTION 3.0 CONTAMINATION ASSESSMENT REPORT AND REMEDIAL ACTION PLAN

All information collected from the contamination assessment activities shall be carefully reviewed, and a report entailing all findings shall be prepared by Environmental Associates. The report shall define whether WDNR case closure could be requested, or if further investigation into the degree and extent of contamination is required, or whether evaluations of remedial alternatives from an engineering and cost efficiency standpoint should be performed. Prior to completion of the report, a draft copy of the report will be submitted for client review and comment. Upon client approval, a copy of this report shall be submitted to the WDNR for review and approval.

### SECTION 4.0 ASSOCIATED COSTS

The cost for all contamination assessment activities outlined in Section 4.0 of this proposal are based upon subcontractor estimates and Environmental Associates standard billing rates current to the date of this document. These costs also assume that all areas are accessible for the investigation by a truck-mounted drill rig.

### 4.1 Monitor Well / Bore hole Costs

Mobilization		\$200.00
Monitor Well/Soil Borings	•	\$3,500.00
Miscellaneous		\$250.00

TOTAL DRILLING COSTS \$3,950.00

### 4.1.1 Laboratory Soil Analytical Costs

Twenty one (21) soil samples for Volatile Organic Compounds (VOC's)

21 x \$80.00/each \$1,680.00

(1) Trip Blank N/C

TOTAL SOIL ANALYTICAL COSTS \$1,680.00

### 4.1.2 Laboratory Groundwater Analytical Costs

seven (7) groundwater sample for Volatile Organic Compounds (VOC)

7 x \$80.00/each \$560.00

(1) Trip Blank N/C

TOTAL GROUNDWATER ANALYTICAL \$560.00

\$10,490.00

### 4.2 <u>Professional Services</u>

A brief description of professional services required, coupled with an estimate of expense is presented as follows:

### 4.2.1 On-Site Services

Qualified Hydrogeologist on-site during drilling activities, and sampling, project coordination and administration.

		Senior Hydrogeologist	16 hrs. x \$75/hrs	\$1,200.00			
4.2.2		ing/Documentation mination Assessment Repor	t and Remedial Action P	lan)			
	  	Senior Project Manager Senior Hydrogeologist Drafting Clerical TOTAL PROFESSIONA	30 hrs. x \$75/hr. 5 hrs. x \$35/hr. 8 hrs. x \$30/hr.	\$85.00 \$2,250.00 \$175.00 \$240.00 \$3,950.00			
4.3	Equipment Rental						
		Photoionization Detector Miscellaneous Expenses (m	2 days x \$75/day nileage, etc.)	\$150.00 <u>\$200.00</u>			
		TOTAL EQUIPMENT R	ENTAL	\$350.00			
4.4	Projec	τ Estimate					
	   	Monitor Well Drilling Cost Laboratory Soil Analytical Laboratory Groundwater A Total Professional Services Total Equipment Rental	Analytical	\$3,950.00 \$1,680.00 \$560.00 \$3,950.00 \$350.00			

Environmental Associates would be pleased to proceed with this project upon receipt of an endorsed service agreement, which can be forwarded to you upon request.

PROJECT ESTIMATE

### Environmental Associates, Inc.

We hope this information meets your needs. If you have any questions or require additional information or clarification, please call us at your convenience. Environmental Associates looks forward to working with you on this very important project.

Pr 234a.DOC



#### State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary Gloria L. McCutcheon, Regional Director Southeast Region Annex 4041 N. Richards Street, Box 12436 Milwaukee, WI 53212-0436 TELEPHONE 414-229-0800 FAX 414-229-0810

August 27, 1997

BRRTS#: 03-41-169385 Facility ID#: 241931910

BRR/LUST

FRED & SARA WEIN BOX 17396 MILWAUKEE WI 53217

SUBJECT: Reported Contamination at 5821-5835 W. Silver Spring Dr., Milwaukee

To speed processing, correspondence should reference BRRTS & FID numbers at top of letter.

Dear Mr. & Ms. Wein:

On 8-6-97 Joe Michaelchuck of Environmental Associates informed the Department that fuel oil which leaked from underground storage tanks caused soil contamination and potential groundwater contamination at the subject address.

Based on the information submitted to the Wisconsin Department of Natural Resources (WDNR), we believe you are responsible for restoring the environment at the referenced site under Section 292, Wisconsin Stats., known as the hazardous substances spills law. Utilizing information submitted to the Department, this case has been assigned an unknown ranking due to the lack of information concerning soil and groundwater contamination.

#### WDNR Southeast Region Prioritization and Scoring Policy

Due to the WDNR workload, it is necessary to rank all contamination cases for review priority. Lower priority cases do not have assigned project managers, however, responsible parties are required to proceed with investigation and clean-up efforts. Until a priority has been assigned to this site, you should proceed with the required response work, submitting all plans and reports, along with status reports, to this office. The WDNR will notify you if your site will receive active oversight.

Your responsibilities include investigating the extent of the contamination and then selecting and implementing the most appropriate remedial action. Enclosed is information to help you understand what you need to do to ensure your compliance with the spills law.

The purpose of this letter is threefold: 1) to describe your legal responsibilities, 2) to explain what you need to do to investigate and clean up the contamination, and 3) to provide you with information about cleanups, environmental consultants, possible financial assistance, and working cooperatively with the Department of Natural Resources.

#### Legal Responsibilities:

Your legal responsibilities are defined both in statute and in administrative codes. The hazardous



substances spill law, Section 292.11 (3) Wisconsin Statutes, states:

\* RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Wisconsin Administrative Codes chapters NR 700 through NR 728 establish requirements for emergency and interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Chapter NR 708 includes provisions for immediate actions in response to limited contamination. Wisconsin Administrative Code chapter NR 140 establishes groundwater standards for contaminants that reach groundwater.

#### Steps to Take:

The longer contamination is left in the environment the farther it can spread and the more it may cost to clean up. Quick action may lessen damage to your property and neighboring properties and reduce your costs in investigating and cleaning up the contamination. To ensure that your cleanup complies with Wisconsin's laws and administrative codes, you should hire a professional environmental consultant who understands what needs to be done. These are the first four steps to take:

- 1. By 10-10-97, please submit <u>written</u> verification (such as a letter from the consultant) that you have hired an environmental consultant. You will need to work quickly to meet this timeline.
- 2. By 11-21-97, your consultant must submit a workplan and schedule for the investigation. The consultant must follow the DNR administrative codes and technical guidance documents. Please include with your workplan a copy of any previous information that has been completed (such as an underground tank removal report or a preliminary excavation report).
- 3. Please inform DNR of what is being done at your site. Submittal requirement timelines depend on the contaminants at the site. As described in Chap. NR 700.11, if the site meets criteria for a "simple site", progress reports must be submitted semi-annually, beginning 6 months from the initial notification date. If the site meets criteria for a "complex site", the site investigation report and a draft remedial options report must be submitted to DNR within 30 days of completion of both reports. Your consultant must clearly document the extent and degree of soil and groundwater contamination and submit a proposal for cleaning it up.
- 4. For complex sites, per chapter NR 724.13(3), you or your consultant must provide a <u>brief</u> report at least every 90 days, starting after the remediation system begins operation. The reports should summarize the work completed since the last report. Quarterly reports need only include one or two pages of text, plus any relevant maps and tables. However, should conditions at your site warrant, we may require more frequent contacts with the Department.

Due to the number of contaminated sites and our staffing levels in DNR's Southeast Region, we will be unable to provide workplan approvals for investigations or remedial actions. To maintain your compliance with the spills law and chs. NR 700 through NR 728, do not delay the investigation and cleanup of your site by waiting for DNR response. We have provided detailed technical guidance to environmental consultants. Your consultant is expected to know our technical procedures and administrative codes and should be able to answer your questions on meeting cleanup requirements.

Your correspondence and reports regarding this site should be sent to:

Michael Farley, BRR Program Assistant Wisconsin Department of Natural Resources Box 12436 4041 N Richards St Milwaukee WI 53212

Unless otherwise requested, please send only one copy of plans and reports. To speed processing, correspondence should reference the BRRTS and FID numbers shown at the top of this letter.

#### Information for Site Owners:

Enclosed is a list of environmental consultants and some tips on selecting one. If you are eligible for reimbursement of costs under Wisconsin's PECFA program (see last paragraph) you will need to compare at least three consultants' proposals before hiring a consultant. Consultants and laboratories working in the PECFA program are required to carry errors and omissions insurance to help protect you against unsuitable work. Also enclosed are materials on controlling costs, understanding the cleanup process, and choosing a site cleanup method. Please read this information carefully.

If you are interested in obtaining the protection of limited liability under s. 292, Stats., please call 1-800-367-6076 in DNR's Madison office for more information. The liability exemption under s. 292 Stats., is available to persons who meet the definition of "purchaser" in s. 292 and receive DNR approval for the response actions taken at the property undergoing cleanup. DNR will determine eligibility for this program on a case-by-case basis, prior to the "purchaser" developing a scope of work for conducting a ch. NR 716 site investigation.

#### Financial Information:

Reimbursement from the Petroleum Environmental Cleanup Fund (PECFA) is available for the costs of cleaning up contamination from eligible petroleum storage tanks. The fund is administered by the Department of Industry, Labor, and Human Relations (DILHR). Please contact DILHR at (608) 266-2424 for more information on eligibility and regulations for this program.

Thank you for your cooperation.

Sincerely,

Michael G. Farley Program Assistant 414-229-0808

cc: Joe Michaelchuck, EA

Department of Natural Resources

BRRTS CASE TRACKING FORM SER Form #1 July 1, 1997

Type of Case: LUST\_\_ ERP\_\_ 453M\_\_ 453P\_\_ SER Form #1

Site Name: Address:  Sen Clo  Municipality:  Legal Desc.:  NW 1/4 NW 1/4 Sec 35 Tn N Rng21 E  Lat.:  Long.:  Per Address:  Photographic	itial Contact Date:  Ind RP Letter? Y XN Date Mailed: X 127177  Ind RP Letter? Y XN Date Mailed: X 127177  Ind RP Letter? Y XN Date Mailed: X 127177  Ind RP Letter? Y XN Date Mailed: X 127177  Ind Reporting: Joe Mailed: X 127177  Ind
Legal Desc.: NW 1/4 NW 1/4 Sec 35 Tn N Rng21 E A Lat.: Long.: Pho  PRIORITY: FUNDING SOURCE:  High RP Medium LTF	ENFORCEMENT AUTHORITY: Spill Law s. 292.11 Wis. Stats.
High RP LTF	Spill Law s. 292.11 Wis. Stats.
Unknown SF None Other (describe below)  FEDERALLY FUNDED?  Y_N  EPA Emergency Response	Solid Waste NR 500  CERCLA Aband. Container s. 292.41 Wis. Stats.  Other: Wastewater (lagoons) Haz Waste NR600
Abandoned Containers NR 500 Solid Waste  LUST Spills  NR 600 Hazardous Waste Superfund	(L = Lead, S = Support)************************************
Company Name: Contact Person: Address:  Phone:  Company Name:  Fred Wein / Sorn Wein Co Co Co Ad Phone:  Phone:  Phone:  Phone:  Phone:  Phone:  Co Co Co POBOX 7376  Ad Phone:  Phone	ONSULTANT: ompany Name: ontact Name: ddress: hone: C: (EG: lab)
IMPACTS: (enter P for potential, K for known)  Fire/Explosion Threat  Contaminated Private Well(s)  Contaminated Public Well  Groundwater Contamination  Soil Contamination  Surface Water Impacts  Free Product  Storm Sewer Contam.  Sanitary Sewer Contam.  Air Contamination  Direct Contact  Concrete/Asphalt  Contained/Recovered  Other:  NEW FOLDER? Y N  YOUR INITIALS	UBSTANCES: #Tanks/containers Size Leaded Gas Unleaded Gas Diesel Fuel Oil Unknown Hydrocbn Waste Oil Metals RCRA Haz. Waste VOCs Chlorinated Solvent PCBs Foundry Sand Misc. Fill Pesticides Leachate PAHs/SVOCs Oil & Grease Other

entered in BRRTS \_\_/\_ / by \_\_\_\_ (initials)

Diesel

### Wisconsin Department of Natural Resources

Notification of Petroleum Contamination from Underground Storage Tank System

Please complete this form and FAX it to the appropriate DNR contact person listed on the back p: g: of this form immediately upon discovery of a release from an UST system. DNR, Attn: Mr. Mike Farley TO: FAX#: (414) 229-0811 1. Name, company, mailing address and phone number of person reporting the discharge: Joe Michaelahuck, Environmental Associates P.O. BOX 136 Office#: (414) 242-1088 Thiersville, WI 53092 2. Site Information: Name of site at which discharge occurred (local name of site/business, not responsible party na ne-unless a residence): Location (actual street address, not P.O. box; if no street address, describe as precisely as possible, e.g., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60): 5821 - 5835 West Silver Spring Drive Municipality (city, village, township in which the site is located - not mailing address): City of Milwankee County: Milwonkee Legal Description: NW 1/4, NW 1/4, Section 35, Tn 8N, Range 21 (1)/W 3. Responsible Party (RP) and/or RP Representative Information Company Name: Contact Person: Mr. Fred Wein /Ms. Sara Wein Mailing Address (with zip code): P.O. BOX 17396 Milwaukee, WI. 53217 Telephone Number: (414) 351-4248 4. Identity, physical state and quantity of the hazardous substance discharged (check all hat apply): Unleaded gasoline X Fuel oil Leaded gasoline Waste oil.

Other

08/06/97 13:24

5. Impacts to the environment (enter "K" for known or "	P" for potential for all that apply:
Fire/explosion threat Contaminated private wells (# of wells)	K Soil contamination Surface water impacts
Contaminated public wells  P Groundwater contamination	Floating product Other
6. Contamination was discovered as a result of:	•
X Tank closure assessment Site assessment	Othe
On what date: June 26 and June 27, 1997	
Additional Comments:	
A total of 3 tanks were utilized by the stri	p mall. A 1,000 gallon fuel oil tank
(tank #1) was removed from the site on	June 26, 1997. A 550 gallon fuel oil
tank (tank # 2) and a 1,000 gallon fuel oil	
but abandoned in place when it was dis	
Without damaging the City of Milwankee	sidewalk on West Sherican Avenue.
Suil samples were collected from the tan	
analytical data are included for your revi	iew.
·	
FAX numbers to report LUS	Csites in DNR's six districts:
Lake Michigan District: 414-492-5859 Attention: Janis De (Florence, Marinette, Oconto, Menominee, Shawano, Wi Winnebago, Calumet and Manitowoc Counties) North Central District: 715-365-8932 Attention: Janet K	aupaca, Outagamie, Brown, Door, Kevannee, Waushara,
(Vilas, Oneida, Forest, Lincoln, Langlade, Marathon, Wo Northwest District: 715-635-4105 Attention: Susie Sutton	ood, Portage, Juneau, 2nd Adams Coun ies)
(Douglas, Bayfield, Ashland, Iron, Burnett, Washburn, S. Southern District: 608-275-3338 Attention: Marilyn Jalu	awyer, Price, Polk, Barron, Rusk and Taylor Counties)
(Marquette, Green Lake, Richland, Sauk, Fond du Lac, C Lafayette, Green and Rock Counties)	
Southeast District: 414-229-0810 Attention: Giselle Red	
(Sheboygan, Washington, Ozaukee, Waukesha, Milwaul Western District: 715-839-6076 Attention: John Grump	kee, Walworth, Racine, and Kenosha Cc unites)
	Clark, Buffalo, Trempealeau, Jackson, Li Crosse, Monroe,



Analytical Laboratory 1080 Kennedy Ave. Kimberly, WI 54136 414-735-8295 WI DNA Cenified Lab #445027660

JOE MICHAELCHUCK ENVIRONMENTAL ASSOCIATES INC PO BOX 138 THIENSVILLE WI 53082

Report Date:

11-Jul-97

Project # 97-035: 0:002
Project: Wein Projectly
Sample ID: Tank #'
Lab Code: 501761 #,
Sample Type: Soil

Sample Date: 28-Jul 1-97

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LOD = Limit of Detection

LOQ - Liv it of Quentitation

#### QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this eample.

Authorized Signature

· 3 99 Z



Analytical Laboratory 1000 Kennedy Ava. Kimberly, WI 54138 414-735-8285 WI DNR Centiled Lab #445027660

JOE MICHAELCHUCK ENVIRONMENTAL ASSOCIATES INC PO BOX 136

THIENSVILLE WI 53092

Report Date:

11-Jul-97

Project #: 97-035- 0.002 Project : Wein Property Sample ID: Tank #4

Lab Code: 501761 (E)

Sample Type: Soil Sample Date: 27-JL 1-97

Test		(	6 4 5 C 6 3	50 20 00 00 00 00 00 00 00 00 00 00 00 00					0.0
TOTAL SOLIDS	51.8		25			03-	u'-97	S.Dequeino	1
Modified DRO Work sep 95	460	1.7	5.5 M	c/ko	1	10-	ku!-97	D. Menomines	1

LOD - Limit of Detaction

LOQ=Li il ef Quantitation

QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this eample.



1090 Kermedy Ave. Kimberly, Wi 54138 414-735-8285 WI DNR Carified Lab #445027660

JOE MICHAELCHUCK ENVIRONMENTAL ABSOCIATES INC PO BOX 136 THIENSVILLE WI 53092

Report Date:

11-Jul-97

Project # 97-035: 0-002
Project : Wein Project y
Sample ID: Tank #6
Lab Code: 501761: iC:
Sample Type: Soil

Sample Date: 27-JL 1-97

Fact.	Raidt	OD	200	Unit				Analyzada By	
TOTAL SOLIDS	B1.4			55		03-	u-87	S.Dequalna	1
MODIFIED DRO WONR SEP 85	1800	34	110	MG/KG	20	10-	lul- <b>97</b>	D. Menaminos	1

LOD - Limit of Detection

LOQ - Li ni of Quantitation

#### QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

	,		
Rev.	Date:	2-1	9.9

**CHAIN OF CUSTODY RECORD** 

Analytical Lab

1090 Kennedy Ave. Kimberly, WI 54136

7764

Lab I.D. #					<i>15-8295 •</i> FA 3@AOL.COM		-1738 • 800	-490-49						
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Accepted By:	ccepted? Yes	No		•		Ä							- - - - -	
Department Use Optional for Soil Samples F			Relinquished By: (sign	Relinquished By: (sign)		Time Date Rec		eived By: (sign )			Time Date			
Disposition of ur Lab Should:	nused portion of samp	2000					ता. यहातीहरू	47.4 G	1 45		-4/±	1/22 C		
Dispose	Retain fo Other	r days			4								-	
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