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ADVENT

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9/14/98

Advent

Environmental

Services, Inc.

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REMEDIATION & REDEVELOPMENT

Site Assessment for Underground Storage Tank Closure

Aldrich Chemical Site

5485 County Highway V, Sheboygan Falls, Wisconsin
Sheboygan County
Advent Project No. 980157.00

Prepared for
Mr. Gene Fisher
Aldrich Chemical Company, Inc.

October 1998

ADVENT

October 8, 1998

Mr. Gene Fisher
Aldrich Chemical Company, Inc.
5485 County Highway V
Sheboygan Falls, WI 53085

Re: Site Assessment for an Underground Storage Tank (UST) Closure at the Aldrich Chemical site, 5485 County Highway V, Sheboygan Falls, Sheboygan County, Wisconsin. Advent Project #980157.00.

Dear Mr. Fisher:

Advent Environmental Services, Inc., has prepared an Underground Storage Tank Closure Report for the Aldrich Chemical site. We have not identified any petroleum contamination around the diesel fuel underground storage tank (UST). Advent has submitted this report to the Wisconsin Department of Natural Resources (WDNR) at the following address:

Ms. Julie Weber
WDNR – Remediation & Redevelopment
P.O. Box 7921
Madison, WI 53707

If you have any questions or concerns, please call me at (414) 238-1874, ext. 3027.

Sincerely,

Mark Riha

Mark G. Riha
Environmental Scientist – Mequon Office

980157r0a

Advent Environmental Services, Inc.

10845 N. Buntrock Ave. 64W
Mequon, WI 53092
414-238-1998
1-800-880-1998
Fax 414-238-1988

5110 Fairview Dr., Suite A
Eau Claire, WI 54701
715-831-1530
1-800-530-1520
Fax 715-831-1531

7520C Hwy. 51 South
Minocqua, WI 54548
715-356-9980
1-888-357-9980
Fax 715-358-2582

Site Background Information

The underground storage tank (UST) system, owned by Aldrich Chemical Company, Inc., was located at 5485 County Highway V, Town of Wilson, Sheboygan County, Wisconsin (Sec 19, T14N, R23E). The property is a chemical manufacturing facility with 16 buildings on the property. The UST was located near the northeast corner of the Laboratory #1 building. The surrounding properties are agricultural and residential.

The 10,000-gallon heating oil UST was used for storage of heating oil for a backup generator. No information is available concerning leaks, tightness tests, or repairs to the UST system.

Depth to groundwater is believed to be 10 to 15 feet. The facility is served by a privately owned water and sewer system.

Tank Activities and Excavation

On September 14, 1998, Advent closed by removal one fiberglass 10,000-gallon heating oil UST (ID # 590600033). Copies of the Checklist for Underground Tank Closure Form (SBD-8951) and the Underground Petroleum Product Inventory Form (SBD-7437) for the UST are included in Appendix A. The original forms were submitted to the Wisconsin Department of Commerce (WDCOM). The certified assessor was Mr. Mark G. Riha (#41490) of Advent. The certified remover/cleaner was Mr. Ricky Klebenow (#41650) of Advent. Waste Research & Reclamation, Inc. (WRR), 5200 State Road 93, Eau Claire, Wisconsin, has been subcontracted to handle the sludge waste generated from the UST removal.

Tank Cleaning and Disposal

The UST was cleaned on-site while in the ground by inerting, removing the west end portion of the tank, scraping, and scrubbing the inside of the tank with detergent and water. All tank sludge material and wash water was transferred by suction hose to 55-gallon drums. After cleaning, the UST was labeled and transported by Edler & Sons Trucking and Excavating, Inc., Sheboygan, Wisconsin, for disposal. (See Appendix B.)

Surplus Product Management

No surplus product or liquids remained in the UST at the time of removal.

Tank Sludge Management

Approximately 100 gallons (two 55-gallon drums) of waste sludge material consisting of fuel oil, detergent fluid, and inorganic solids was generated at the site from the UST cleaning process. The waste is currently stored on-site pending analysis and pick-up by WRR.

Site Location Map

See Figure 1.

Site Layout Plan

See Figure 2.

Visual Inspection

The ambient air temperature was 70°F with cloudy skies and rain during tank removal. Precipitation had also occurred the previous day. The UST was located east of the Laboratory #1 building and was covered with grass. Concrete had been poured around the top of the UST to prevent the tank from rising. We observed no surface staining. No unanticipated USTs were encountered.

The depth of the excavation was approximately 11 feet. Three feet of overburden was removed from above the UST. No obvious petroleum odors or soil discoloration was observed in the tank bed. Freestanding water was observed in the pea gravel found in the excavation. The native and backfill soil type encountered was brown silty clay with sand (CL).

The UST did not have any corrosion or holes. The UST dimensions were 26 feet long and 8 feet in diameter. The piping consisted of approximately 10 feet of copper tubing leading to the boilers. The piping was in good condition, and no holes were observed.

Soil Sampling and Field Screening Results

To assess the UST system, three soil samples were collected and analyzed for diesel range organics (DROs). Laboratory analysis of the samples did not indicate the presence of DROs above laboratory detection limits.

A description of standard sampling and field screening techniques is included in Appendix C. The results of laboratory analyses are summarized in Table 1.

TABLE 1
ALDRICH CHEMICAL-SHEBOYGAN FALLS
LABORATORY RESULTS

Sample ID	UST Sample Location	Sample Depth (feet)	Soil Type	Moisture Content	DROs (ppm)
D-1	East end of UST	11	silty clay with sand	Dry	ND
D-2	Middle of UST	11	silty clay with sand	Dry	ND
D-3	West end of UST	11	silty clay with sand	Dry	ND

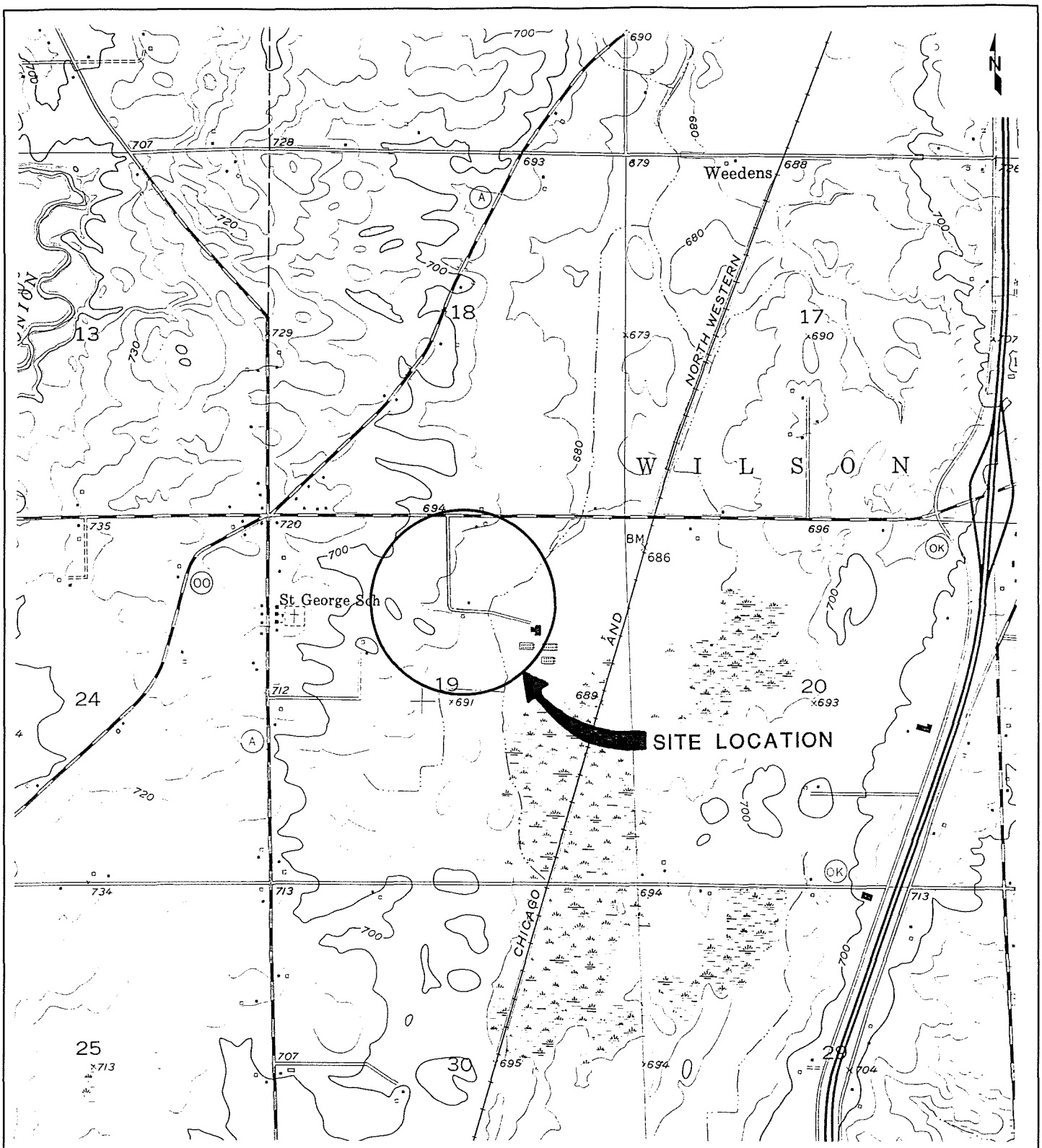
ppm = parts per million
ND = not detected
Shaded areas indicate concentrations above the WDNR generic RCL of 100 ppm.

Lab Reports

Laboratory reports and chain of custody are included in Appendix D.

Conclusion and Recommendations

Results of this assessment indicate that a release has not occurred from this UST system. Laboratory analysis did not reveal DRO concentrations above laboratory detection limits. **Based on the results of the assessment, we recommend no additional investigation for the heating oil UST.**

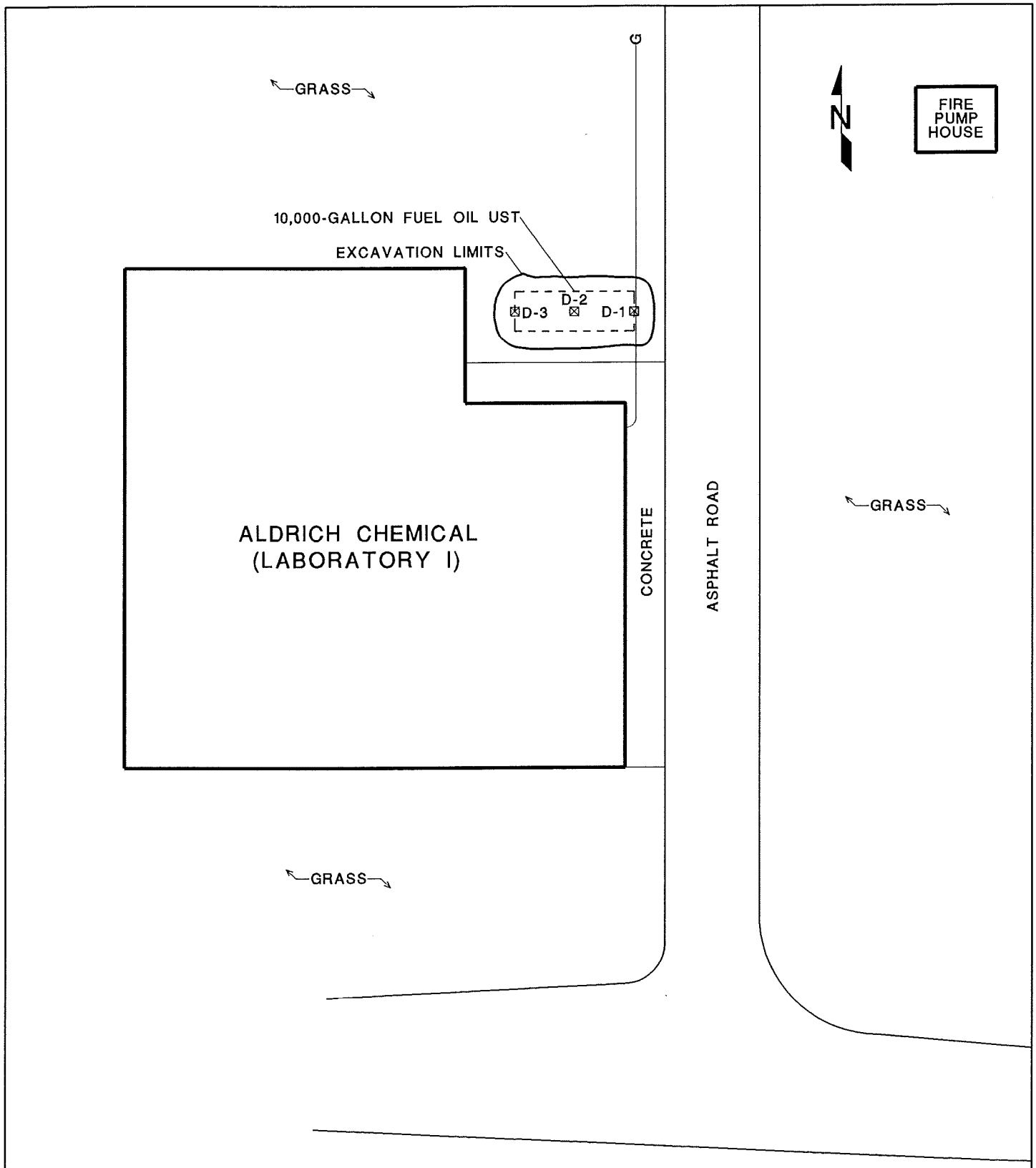


NOTE:
BASE MAP DEVELOPED FROM THE SHEBOYGAN FALLS, WISCONSIN 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP.

QUADRANGLE LOCATION
N.1/2 SEC.19 T.14N., R.25E.

SCALE (FEET): 0 2000

DRAWN BY: KRK	FIGURE #1 DETAIL SHEET
APPROVED BY:	SITE LOCATION ALDRICH CHEMICAL TOWN OF WILSON, WISCONSIN
DATE: 9/24/98	ADVENT
PROJECT #980157.00	ENVIRONMENTAL SERVICES, INC.
REVISION #	



LEGEND:

D-1 ⊠ SOIL SAMPLE LOCATION AND NUMBER

G——— NATURAL GAS UTILITY

SCALE (FEET): 0 30

DRAWN BY: KRK	DRAWING #2 DETAIL SHEET
APPROVED BY:	SITE LAYOUT PLAN
DATE: 9/24/98	ALDRICH CHEMICAL TOWN OF WILSON, WISCONSIN
PROJECT #980157.00A	A D V E N T
REVISION #	ENVIRONMENTAL SERVICES, INC.

APPENDIX A

Complete one form for each site closure.

The information you provide may be used by other government agency programs [Privacy Law, s.15.04 (1)(m)].

CHECKLIST FOR TANK CLOSURE

CHECK ONE:
☒ UNDERGROUND
☐ ABOVEGROUND
FOR PORTIONS OF THE FORM THAT DO NOT APPLY, CHECK THE N/A BOX

RETURN COMPLETED CHECKLIST TO:
Wisconsin Department of Commerce
ERS Division
Bureau of Storage Tank Regulation
P.O. Box 7969
Madison, WI 53707

A. IDENTIFICATION: (Please Print) Indicate whether closure is for: ☒ Tank System ☐ Tank Only ☐ Piping Only

1. Site Name: Aldrich Chemical Co.	2. Owner Name: Aldrich Chemical Co.
Site Street Address (not P.O. Box): 5485 CTH V	Owner Street Address: P.O. Box 2988
☐ City ☐ Village ☒ Town of: WILSON	☒ City ☐ Village ☐ Town of: Milwaukee; State: WI; Zip Code: 53201
State: WI; Zip Code: 53085; County: Sheboygan	County: Milwaukee; Telephone No. (include area code): (414) 273-3850
3. Closure Company Name (print): Advent Environmental	Closure Company Street Address: 10845 N. Buntrock Ave.
Closure Company Telephone No. (include area code): (414) 238-1998	Closure Company City, State, Zip Code: Mequon, WI 53092
4. Name of Company Performing Closure Assessment: Advent Environmental	Assessment Company Street Address, City, State, Zip Code: 10845 N. Buntrock Ave. Mequon WI 53092
Telephone # (include area code): (414) 238-1998; Certified Assessor Name (print): Mark Rika	Assessor Signature: [signature]; Assessor Certification No.: 41490

	Tank ID #	Closure	Temp. Closure	Closure in Place	Tank Capacity	Contents*	Closure Assessment
1.	59060003 3	☒	☐	☐	10,000	04	☒ Y ☐ N
2.		☐	☐	☐			☐ Y ☐ N
3.		☐	☐	☐			☐ Y ☐ N
4.		☐	☐	☐			☐ Y ☐ N
5.		☐	☐	☐			☐ Y ☐ N
		☐	☐	☐			☐ Y ☐ N

* Indicate which product by numeric code: 01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other:_____; 10-Premix; 11-Waste Oil; 13-Chemical (indicate the chemical name(s) or number(s) _____ _____ _____; 14-Kerosene; 15-Aviation.

Written notification was provided to the local agent 15 days in advance of closure date. ☒ Y ☐ N ☐ NA
All local permits were obtained before beginning closure. ☒ Y ☐ N ☐ NA

Check applicable box at right in response to all statements in Sections B-E.	Remover Verified	Inspector Verified	NA
TEMPORARILY OUT OF SERVICE			
Written inspector approval of temporary closure obtained, which is effective until (provide date) _____	☐ Y ☐ N	☐	☒
1. Product Removed			
a. Product lines drained into tank (or other container) and resulting liquid removed, AND	☐ Y ☐ N	☐	☒
b. All product removed to bottom of suction line, OR	☐ Y ☐ N	☐	☒
c. All product removed to within 1" of bottom.	☐ Y ☐ N	☐	☒
2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.	☐ Y ☐ N	☐	☒
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR	☐ Y ☐ N	☐	☒
4. Dispensers/pumps left in place but locked and power disconnected.	☐ Y ☐ N	☐	☒
5. Vent lines left open.	☐ Y ☐ N	☐	☒
6. Inventory form filed indicating temporary closure.	☐ Y ☐ N	☐	☒
C. CLOSURE BY REMOVAL			
1. Product from piping drained into tank (or other container).	☒ Y ☐ N	☒	☐
2. Piping disconnected from tank and removed.	☒ Y ☐ N	☒	☐
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	☒ Y ☐ N	☒	☐
4. All pump motors and suction hoses bonded to tank or otherwise grounded.	☒ Y ☐ N	☒	☐
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.	☒ Y ☐ N	☒	☐
NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR.			
6. Vent lines left connected until tanks purged.	☒ Y ☐ N	☒	☐
7. Tank openings temporarily plugged so vapors exit through vent.	☒ Y ☐ N	☒	☐
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.	☒ Y ☐ N	☒	☐
9. Tank removed from excavation after **PURGING/INERTING**; placed on level ground and blocked to prevent movement.	☒ Y ☐ N	☒	☐
0. Tank cleaned before being removed from site.	☒ Y ☐ N	☒	☐

- CONTINUE ON NEXT PAGE -

CLOSURE BY REMOVAL (continued)

	Remover Verified		Inspector Verified	NA
11. Tank labeled in 2" high letters after removal but before being moved from site.	☒Y	☐N	☑	☐
NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.				
12. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site.	☒Y	☐N	☑	☐
13. **Inventory form ERS-7437 filed by owner with the Department of Commerce indicating closure by removal.**	☒Y	☐N	☑	☐
14. Site security is provided while the excavation is open.	☒Y	☐N	☑	☐

D. CLOSURE IN PLACE

NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF COMMERCE OR LOCAL AGENT.

1. Product from piping drained into tank (or other container).	☐Y	☐N	☐	☒
2. Piping disconnected from tank and removed.	☐Y	☐N	☐	☒
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	☐Y	☐N	☐	☒
4. All pump motors and suction hoses bonded to tank or otherwise grounded.	☐y	☐N	☐	☒
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.	☐Y	☐N	☐	☒
NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR - EDUCTOR OUTPUT 12 FT. ABOVE GRADE.				
6. Vent lines left connected until tanks purged.	☐Y	☐N	☐	☒
7. Tank openings temporarily plugged so vapors exit through vent.	☐Y	☐N	☐	☒
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) see Section F.	☐Y	☐N	☐	☒
9. Tank properly cleaned to remove all sludge and residue.	☐Y	☐N	☐	☒
10. Solid inert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled.	☐Y	☐N	☐	☒
11. Vent line disconnected or removed.	☐Y	☐N	☐	☒
12. Inventory form filed by owner with the Department of Commerce indicating closure in place.	☐Y	☐N	☐	☒

E. CLOSURE ASSESSMENTS

NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO ILHR 10.

1. Individual conducting the assessment has a closure assessment plan (written) which is used as the basis for their work on the site.	☒Y	☐N	☑	☐
2. Do points of obvious contamination exist?	☐Y	☒N	☑	☐
3. Are there strong odors in the soils?	☐Y	☒N	☑	☐
4. Was a field screening instrument used to pre-screen soil sample locations?	☐Y	☒N	☑	☐
5. Was a closure assessment omitted because of obvious contamination?	☐Y	☒N	☑	☐
6. Was the DNR notified of suspected or obvious contamination?	☐Y	☒N	☑	☐

Agency, office and person contacted: _____

7. Contamination suspected because of: ☐Odor ☐Soil Staining ☐Free Product ☐Sheen on Groundwater ☐Field Instrument Test

F. METHOD OF ACHIEVING 10% LEVEL DESCRIPTION

☐Eductor Or Diffused Air Blower

Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground. Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.

☐Dry Ice

Dry Ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the greatest possible tank area. Dry ice evaporated before proceeding.

☐Inert Gas (CO/2 or N/2) **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.**

Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent. Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.

☒Tank atmosphere monitored for flammable or combustible vapor levels.

Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before removing tank from ground.

G. NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW

H. REMOVER/CLEANER INFORMATION

Remover Name (print)	Remover Signature	Remover Certification No.	Date Signed
Rick Kleberow	[signature]	41650	9/14/98

I. INSPECTOR INFORMATION

Inspector Name (print)	Inspector Signature	Inspector Certification No.
Norman Nespodzany	[signature]	[illegible]

DID # For Location Where Inspection Performed	Inspector Telephone Number	Date Signed
[illegible]	920-432-[illegible]	9/14/98

TANK INVENTORY FORM ERS-7437 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH CLOSURE CHECKLIST

OWNER

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 currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (including piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? ☒ Yes ☐ No If yes, are you correcting/updating information only? ☒ Yes ☐ No

Personal information you provide may be used for secondary purposes. [Privacy Law, s. 15.04 (1)(m)]

This registration applies to a tank that is (check one):
1A. ☐ In Use or
1B. ☐ Newly Installed
2. ☐ Abandoned with Product
3. ☐ Abandoned No Product (empty) or with Water
4. ☒ Closed - Tank Removed
6. ☐ Closed - Filled with Inert Materials
7. ☐ Out of Service - Provide Date: _____
8. ☐ Ownership Change (Indicate new owner name in block 2)

Fire Department providing fire coverage where tank is located:
☐ City ☐ Village
☒ Town of Wilson

A. IDENTIFICATION (Please Print)

1. Tank Site Name	Site Address		Site Telephone Number
Aldrich Chemical	5485 CTH V		(920) 459-6962
☒ City ☐ Village ☐ Town of: Sheboygan Falls	State: WI	Zip Code: 53085	County: Sheboygan
2. Tank Owner Name: Aldrich Chemical Co.	Mailing Address: P.O. Box 2988		Telephone Number: (414) 273-3850
☒ City ☐ Village ☐ Town of: Milwaukee	State: WI	Zip Code: 53201	County: Milwaukee
3. Previous Name	Previous site address if different than #1		
4. Tank Age (date installed, if known or years old)	5. Tank Capacity (gallons): 10,000	6. If more than one tank is located at facility, please provide tank #: 590600033	

B. TYPE OF USER (check one)
1. ☐ Gas/Retail Sales 2. ☐ Bulk Storage 3. ☐ Utility 4. ☐ Mercantile/Commercial 5. ☒ Industrial
6. ☐ Government 7. ☐ School 8. ☐ Residential 9. ☐ Agricultural 10. ☐ Other (specify):
11. ☐ Tribal Nation 12. ☐ Federal Property 13. ☐ Backup Generator

C. TANK CONSTRUCTION (check one)
1. ☐ Bare Steel 2. ☐ Cathodically Protected & Coated Steel (Check one: A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☐ Coated Steel 4. ☒ Fiberglass 5. ☐ Other (specify): _____
6. ☐ Lined - Date: _____ 7. ☐ Steel - Fiberglass Reinforced Plastic Composite 9. ☐ Unknown

Approval: 1. ☐ Nat'l Std. 2. ☒ UL 3. ☐ Other:
Is tank double walled? ☐ Yes ☒ No
Overfill Protection Provided? ☐ Yes ☐ No If yes, identify type:
Spill Containment? ☐ Yes ☒ No
Tank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring
4. ☐ Inventory control and tightness testing 5. ☐ Interstitial monitoring
7. ☐ Manual tank gauging (only for tanks of 1,000 gallons or less) 8. ☐ Statistical Inventory Reconciliation (SIR)

D. PIPING CONSTRUCTION
1. ☒ Bare Steel 2. ☐ Cathodically Protected & Coated Steel (Check one: A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☐ Coated Steel 4. ☐ Fiberglass 5. ☐ Other (Specify): 9. ☐ Unknown

Vapor Recovery/Stage II ☐ CARB #: _____
4. ☐ Fiberglass 6. ☐ Flexible 5. ☐ Other (specify): ☐ Operational - Provide Date (mo/day/yr):

Piping System Type: 1. ☐ Pressurized piping with A. ☐ auto shutoff; B. ☐ alarm or C. ☐ flow restrictor
2. ☐ Suction piping with check valve at tank 3. ☐ Suction piping with check valve at pump and inspectable 4. ☐ Not needed if waste oil
Piping leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring
3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line leak detector 6. ☐ Not required 8. ☐ SIR

Approval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other:
Is pipe double walled? ☐ Yes ☒ No

E. TANK CONTENTS
1. ☐ Diesel 2. ☐ Leaded 3. ☐ Unleaded 4. ☒ Fuel Oil 5. ☐ Gasohol
6. ☐ Other (Specify): _____ 7. ☐ Empty* 8. ☐ Sand/Gravel/Slurry* 9. ☐ Unknown* 10. ☐ Premix
11. ☐ Waste/Used Motor Oil 13. ☐ Chemical _____ (Indicate chemical name and number) 14. ☐ Kerosene 15. ☐ Aviation

* If 7, 8, or 9 is chosen, this tank is NOT PECFA eligible.

If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr): 9/14/98
Has a site assessment been completed (see reverse side for details) ☒ Yes ☐ No

Owner or Operator Name (please print): Gene Fisher (for Aldrich Chemical)
Indicate whether: ☐ Owner or ☒ Operator

Owner or Operator Signature: Gene Fisher
Date Signed: 9/14/98

IMPORTANT: Failure to provide sufficient information may cause you to fall under additional regulations, and may delay PECFA eligibility determination. It is necessary to complete ALL shaded areas and as many other items as possible.

SBD-7437 (R. 05/96)

APPENDIX B

EDLER AND SON TRUCKING AND EXCAVATION, INC.

5023 South Business Drive
Sheboygan, WI 53081
Phone 452-6453 or 564-2641

013649

Customer's Order No. Attention Mark Date SEPT. 16, 19 98

Name ADVENT ENVIRONMENTAL

Address

City State ZIP

SOLD BY	CASH	C.O.D.	CHARGE	ON ACC'T	MDSE RET'D	PAID OUT	

QUAN.	DESCRIPTION	PRICE	AMOUNT
9/15/98	Cleaned, cut up and disposed of 10,000 gallon tank (fiber-glass) removed on 9/14/98 at Aldridge Chemical of Sheboygan		

APPENDIX C

APPENDIX D

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Date: September 22, 1998

Advent Environmental Services
10845 N. Buntrock Ave.
Mequon, WI 53092
Attention: Mark Riha

Project: Aldrich, Sheboygan, 980157.00

Enclosed are the results from 3 soil samples received at Great Lakes Analytical on September 15, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8092307	Soil, D-1	9/14/98	Percent Solids, EPA 7.3.3.1.5 WDNR DRO
8092308	Soil, D-2	9/14/98	Percent Solids, EPA 7.3.3.1.5 WDNR DRO
8092309	Soil, D-3	9/14/98	Percent Solids, EPA 7.3.3.1.5 WDNR DRO

This report may not be reproduced, except in full, without the written approval of the laboratory.

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487; Tennessee DOH-02804; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Advent Environmental Services	Client Project ID:	Aldrich, Sheboygan, 980157.00	Sampled:	Sep 14, 1998
10845 N. Buntrock Ave.	Sample Descript:	Soil	Received:	Sep 15, 1998
Mequon, WI 53092	Analysis for:	Percent Solids, EPA 7.3.3.1.5		
Attention: Mark Riha	First Sample #:	809-2307	Analyzed:	Sep 18, 1998
			Reported:	Sep 22, 1998

LABORATORY ANALYSIS FOR: Percent Solids, EPA 7.3.3.1.5

Sample Number	Sample Description	Detection Limit %	Sample Result %
809-2307	D-1	0.10	82
809-2308	D-2	0.10	84
809-2309	D-3	0.10	87

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8092307.adv <1>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Advent Environmental Services	Client Project ID:	Aldrich, Sheboygan, 980157.00	Sampled:	Sep 14, 1998
10845 N. Buntrock Ave.	Matrix Descript:	Soil	Received:	Sep 15, 1998
Mequon, WI 53092	Analysis Method:	WDNR DRO	Extracted:	Sep 16, 1998
Attention: Mark Riha	First Sample #:	809-2307	Analyzed:	Sep 17, 1998
			Reported:	Sep 22, 1998

DIESEL RANGE ORGANICS

Sample Number	Sample Description	Detection Limit mg/kg, Dry Weight (ppm)	High B.P. Hydrocarbons mg/kg, Dry Weight (ppm)	Chromatogram Description
809-2307	D-1	6.1	N.D.	-----
809-2308	D-2	6.0	N.D.	-----
809-2309	D-3	5.7	N.D.	-----

High Boiling Point Hydrocarbons is performed as described in Leaking Underground Storage Tank Analytical Guidance, July 1993 WDNR SW 130 93 REV. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8092307.adv <2>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Advent Environmental Services
10845 N. Buntrock Ave.
Mequon, WI 53092
Attention: Mark Riha

Client Project ID: Aldrich, Sheboygan, 980157.00
Matrix: Soil

C Sample Group: 8092307-2309

Reported: Sep 22, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	
	Percent Solids

Method: 7.3.3.1.5
Analyst: C. Greslick
Units: %

LAB. CONTROL SAMPLE & DUP. DATA

Date Analyzed: Sep 18, 1998

LCS% Recovery: 100

LCS Duplicate % Recovery: 100

Relative % Difference: 0

Control Limits:

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

8092307.adv <3>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Advent Environmental Services	Client Project ID: Aldrich, Sheboygan, 980157.00	
10845 N. Buntrock Ave.	Matrix: Soil	
Mequon, WI 53092	Method: WDNR DRO	
Attention: Mark Riha	C Sample Group: 8092307-2309	Reported:

QUALITY CONTROL DATA REPORT

ANALYTE	
	WDRO

Method: WDRO
Analyst: B.Young
Concentration: 1.0
Units: mg/kg

MATRIX SPIKE DATA

METHOD SPIKE & DUP. DATA

Date Prepared: Sep 16, 1998
Date Analyzed: Sep 17, 1998
Instrument I.D.# 10

Method Spike % Recovery: 87

Method Spike Duplicate % Recovery: 103

Relative % Difference: 17

Control Limits: 70-120

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

% Recovery:	Conc. of M.S. - Conc. of Sample / Spike Conc. Added	x 100
Relative % Difference:	Conc. of M.S. - Conc. of M.S.D. / (Conc. of M.S. + Conc. of M.S.D.) / 2	x 100

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487; Tennessee DOH-02804; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

20725 Watertown Road
Brookfield, WI 53501
(414) 798-1030
FAX (414) 798-1066

Client: Advent
Address: Mequon

Bill To: Advent
Address: Mequon

TAT: 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
DATE RESULTS NEEDED: 9/22/98
TEMPERATURE UPON RECEIPT: CW ICE
AIR BILL NO. GLA Ply

Report to: Mark Rike
Phone #: ( )
Fax #: ( )

State & Program:
Phone #: ( )
Fax #: ( )

Project: Aldrich - Sheboygan
Sampler: Mark Rike
PO/Quote #: 980157.00

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	PRESERVATIVES	NO. CONTAINERS	TYPE CONTAINERS	DRO	SAMPLE CONTROL: CRACKED/BROKEN	SAMPLE CONTROL: IMPROPERLY SEALED	SAMPLE CONTROL: GOOD CONDITION	LABORATORY ID NUMBER
1	D-1	9/14/98	12:30	Soil		2		X			✓	8092307
2	D-2	↓	12:40	↓		2		X			✓	8092308
3	D-3	↓	12:45	↓		2		X			✓	8092309
4												
5						6						
6												
7												
8												
9												
10												

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
[signature]	K Autman 9/15/98	K Autman 9/15/98	K. Ide 9/15/98
RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED

COMMENTS:

JG958198