

**TE TRIAD
ENGINEERING
INCORPORATED**

November 18, 1993

Mr. Gregory M. Rose
Deactivation Environmental Specialist
Environmental and Energy Affairs
Chrysler Corporation, Featherstone Road Engineering Center
2301 Featherstone Road, CIMS 429-02-04
Auburn Hills, MI 48326

**RE: Underground Storage Tank Closure
 Chrysler Corporation--Kenosha Main Plant, Site MP-16
 Triad Engineering Project No. 11013**

Dear Mr. Rose:

Triad Engineering Incorporated (Triad) was retained by Chrysler Corporation (Chrysler) to document the closure of a 5,000-gallon underground storage tank (UST) at the Kenosha Main Plant property, Site MP-16. According to facility personnel, the UST was apparently a holding tank for process water generated during on-site manufacturing operations. The UST and associated piping was closed by complete removal. Terra Engineering and Construction Corporation (Terra) of Madison, Wisconsin, was retained by Chrysler as the UST removal contractor. Triad documented field observations and conducted soil sampling activities to assess site conditions. No evidence of release was indicated.

BACKGROUND

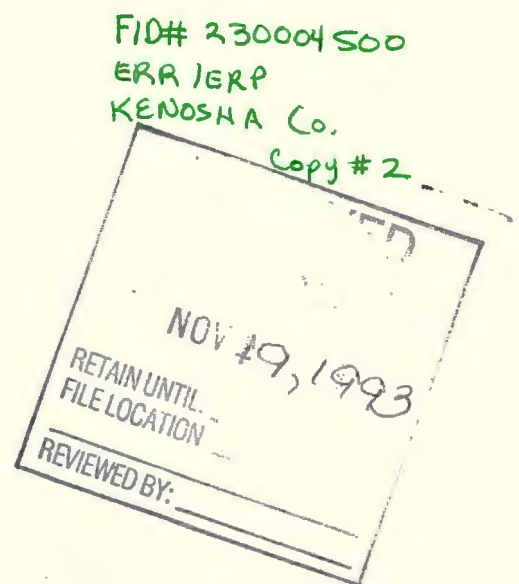
The UST, which was of steel construction, was encountered during the installation of a groundwater recovery system (Sump 6) at Site MP-16 during April 1993 (Figure 1). The date of UST installation is unknown. Wisconsin Department of Industry, Labor, and Human Relations (DILHR) protocol was generally followed during UST closure.

UST CLOSURE METHODOLOGY

Approximately 4,000 gallons of water was present in the UST when it was encountered. Per discussions with Ms. Pam Mylotta (Project Manager, Wisconsin Department of Natural Resources [WDNR]) and several waste disposal contractors, a water sample was collected from the UST and submitted for waste characterization analyses to assess disposal options. Laboratory analyses performed included Toxicity Characteristic Leaching Procedure (TCLP) Protocol A and polychlorinated biphenyls (PCBs) analysis.

Prior to field activities, underground utilities were located by Diggers Hotline and Chrysler personnel familiar with buried utility locations. Triad and Terra personnel completed required state and local permits for UST closure, which were filed with the appropriate agencies.

325 east chicago street
milwaukee, wisconsin 53202
414/291-8840
fax: 414/291-8841





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The UST system was closed on May 12, 1993, by complete removal of the UST and associated piping. Chrysler and Triad notified Ms. Mylotta of UST system closure prior to initiation of site activities. Mr. Gerald Markey, Fire Inspector for the City of Kenosha (Certified DILHR Inspector No. TI 00096) was also notified and was present on site during closure activities. Information regarding key contacts, contractors addresses, telephone numbers, and certification numbers are presented on the Project Information Fact Sheet in Attachment 1.

Triad provided documentation services during closure activities. Mr. Richard J. Binder, a DILHR Certified Site Assessor (Certification Number 00299), performed site assessment activities. Field activities documented by Triad included procedures used by the tank removal contractor during UST excavation and removal. Triad also documented the disposal of any residual water in the UST. Finally, Triad evaluated site soil conditions within the UST and piping excavation following removal. Photographs taken during UST closure activities are included in Attachment 2. A completed DILHR Checklist for Underground Storage Tank Closure [Form SBD-8951 (R12/91)] is contained in Attachment 3.

The UST was excavated and removed by Terra. Excavation activities were performed utilizing a tractor-mounted backhoe. Approximately six inches of concrete were removed from above the UST. Plastic sheeting was placed on the ground surface adjacent to the UST excavation for placement of the excavated backfill material. Excavation activities were limited to removal of only the backfill material in the immediate vicinity of the UST and piping. The UST and approximately 45 feet of associated piping were exposed after removal of the concrete and backfill material (pea gravel). The piping was disconnected from the UST and the UST removed from the excavation.

Upon removal, the UST was transported to an adjacent concrete lot and blocked to prevent rolling. Inspection revealed that the UST was in fair condition with significant corrosion and pitting but no visible holes. The UST measured 50 feet in length (5-foot diameter). No sludge, residuals, or odor were observed in the UST. The piping consisted of coated steel and was in good condition. The interior of the piping was coated with a paint-like material which exhibited a hydrocarbon odor.

The UST was dismantled and transported by Terra to Michael Zizzo Scrap Steel facility (Kenosha, Wisconsin) for disposal. A copy of the UST disposal manifest is contained in Attachment 4. The piping was placed with other unrelated stockpiled materials on site and is pending landfill disposal.

Soil sampling was performed at seven locations beneath the UST. Soil samples were collected in labeled, laboratory-supplied containers, and placed immediately on ice and chilled for possible submittal to the laboratory. The samples were inspected for obvious indications of impact (i.e. petroleum odor and/or staining). Additionally, a subsample from each sampling location underwent field screening using headspace methods outlined in DILHR guidance to assess the potential for volatile organic compounds (VOCs) to occur in on-site soils. Field screening was performed by using an organic vapor analyzer (OVA) manufactured by Thermal Environmental Instruments (Model 580B; 10.6 eV probe).



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RESULTS

Laboratory analytical results indicated that water in the UST was within the acceptable range to allow for discharge to the sanitary sewer. The residual water in the UST was pumped to the City of Kenosha sanitary sewer on May 12, 1993. A copy of the laboratory report and the completed chain-of-custody form are included in Attachment 5.

Seven soil samples were collected during UST removal activities. The samples did not exhibit obvious odor or staining. The lack of apparent impact was confirmed by field screening results (1.0 to 8.5 instrument units). Since the WDNR informal action level of 10 instrument units was not exceeded, no soil samples were submitted for laboratory analysis. The excavated material was placed in the excavation and the site restored. The readings obtained were at (or near) background levels. The field screening results are presented in Attachment 6.

CONCLUSIONS

A 5,000-gallon UST apparently used to store process water generated during on-site operations was excavated and removed from the area of site MP-16. Visual and olfactory observations recorded during UST removal and field screening results, indicates that no release was associated with the UST, and consequently no additional action is recommended.

We trust this information meets your needs. If you have any questions or comments, please do not hesitate to call.

Sincerely,

TRIAD ENGINEERING INC.

Richard J. Binder, P.G.
Senior Hydrogeologist/Project Manager

TRIAD ENGINEERING INC.

Lori G. Bowman
Project Geologist

RJB:sr

Attachments

W943046\943046-M

cc: Mr. Jack Bugno, Chrysler-Kenosha
Mr. Dave Voight, Triad



PROJECT INFORMATION FACT SHEET

FACILITY (Name) CHRYSLER CORPORATION
5555 30th Avenue, Kenosha, Wisconsin 53144
SE 1/4, SE 1/4, Section 36, T2N, R22E
Contact: Jack Bugno
414/658-6000

CONSULTANT (Name) Triad Engineering Incorporated
325 East Chicago Street;
Milwaukee, WI 53202
Contact: Richard J. Binder,
(Cert. Number 00299)
(414/291-8840)

CONTRACTORS (Names) Tank Remover: Terra Engineering & Construction Corp.
2201 Vondron Road
Madison, WI 53704-6795
(608/221-3501)

Tank Disposal: Michael Zizzo Scrap Metal
6602 22nd Avenue
Kenosha, WI 53143
(414/652-2418)

FIRE INSPECTOR Gerald Markey, Certified DILHR Inspector, #TI,
00096, City of Kenosha

DNR CONTACT Pam Mylotta, 414/961-2726

UST INFORMATION One 5,000-gallon
Contents: Water
Date Installed: Unknown
Material: Coated Steel
Piping: Approximately 45 feet



**CHRYSLER CORPORATION UNDERGROUND TANK REMOVAL
MAY 12, 1993**

Location: Approximately 5400 South 26th Avenue
Kenosha, Wisconsin
On Chrysler Property

Tank Removal Company: Terra Construction
Madison, Wisconsin

Certified Remover: Mike Hall, Terra Construction

**PID Readings of Soils in Area
Instrument:** Model 580B OVM Smart Portable
(Century Products Rental)
Serial No. 580U 41907-266

Calibration: 0900 5/12/93
250 ppm Isobutylene Standard
Lot No. 36517 Alphagaz Calgaz

LOCATION	APPROXIMATE DEPTH (feet)	MAXIMUM READING	BACKGROUND	COMMENTS
East Side of UST	2	1.0	1.0	Soils moist, no odor, silty sand
West Side of UST	2	8.5	1.0	Soils moist, no odor, silty sand
West Bottom of UST	4	1.5	1.0	Soils moist, no odor, silty sand
East Bottom of UST	4	1.0	1.0	Soils moist, no odor, rust evident
North Side of UST	7	1.0	1.0	Soils moist, no odor, sandy clay
South Side of UST	7	1.0	1.0	Soils moist, no odor, sandy clay
Middle of UST	7	7.0	1.0	Soils moist, no odor, sandy clay

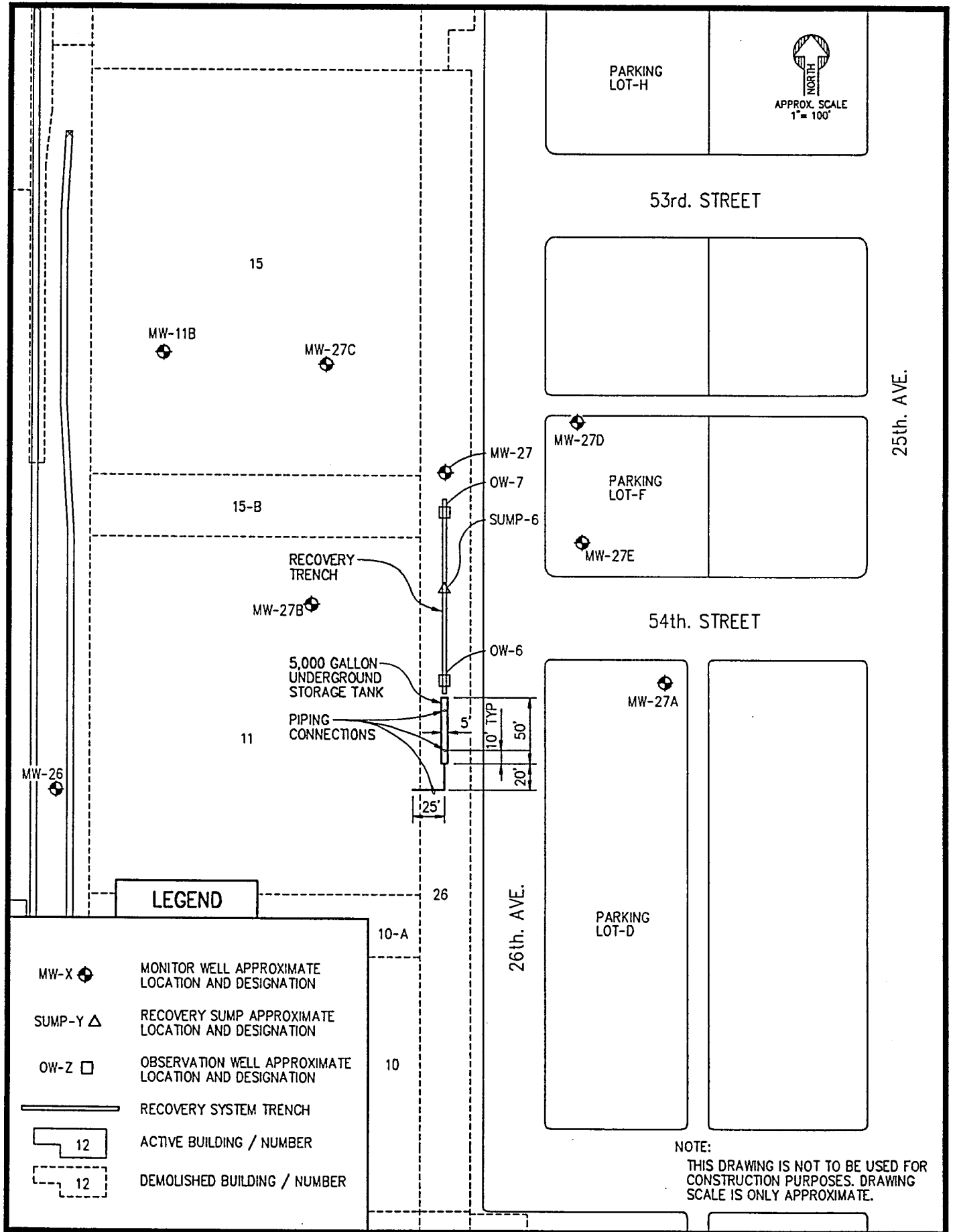


FIGURE 1
CHRYSLER MOTORS CORPORATION
KENOSHA MAIN PLANT
SITE MP-16 UST LOCATION MAP



ATTACHMENT 1
PROJECT INFORMATION FACT SHEET

PROJECT INFORMATION FACT SHEET

FACILITY (Name) **CHRYSLER CORPORATION**
5555 30th Avenue, Kenosha, Wisconsin 53144
SE 1/4, SE 1/4, Section 36, T2N, R22E
Contact: Jack Bugno
414/658-6000

CONSULTANT (Name) **Triad Engineering Incorporated**
325 East Chicago Street;
Milwaukee, WI 53202
Contact: Richard J. Binder,
 (Cert. Number 00299)
(414/291-8840)

CONTRACTORS (Names) **Tank Remover: Terra Engineering & Construction**
Corp.
2201 Vondron Road
Madison, WI 53704-6795
(608/221-3501)

Tank Disposal: Michael Zizzo Scrap Metal
6602 22nd Avenue
Kenosha, WI 53143
(414/652-2418)

FIRE INSPECTOR **Gerald Markey, Certified DILHR Inspector, #TI,**
00096, City of Kenosha

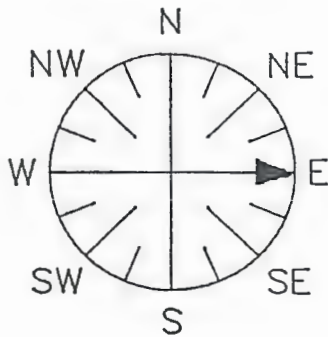
DNR CONTACT **Pam Mylotta, 414/961-2726**

UST INFORMATION **One 5,000-gallon**
Contents: Water
Date Installed: Unknown
Material: Coated Steel
Piping: Approximately 45 feet



ATTACHMENT 2
PHOTODOCUMENTATION

PHOTO DIRECTION



DATE:

MAY 12, 1993

TIME:

PHOTO BY:

RJB

PHOTO LOCATION:

1

SITE MP-16

PHOTO DESCRIPTION:

WATER IS PUMPED FROM UST TO SANITARY SEWER.

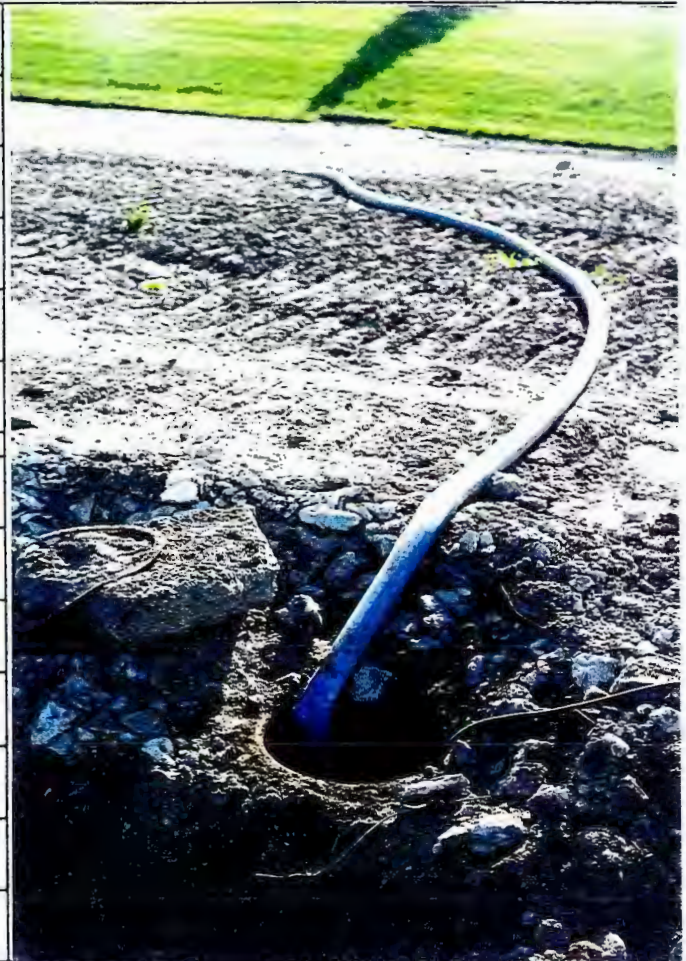
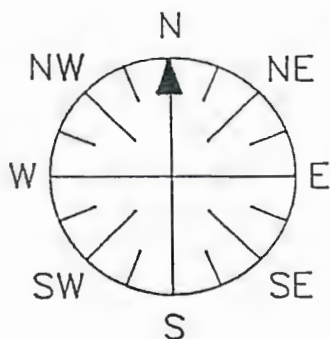


PHOTO DIRECTION



DATE:

MAY 12, 1993

TIME:

PHOTO BY:

RJB

PHOTO LOCATION:

2

SITE MP-16

PHOTO DESCRIPTION:

THE UST IS EXPOSED. NOTE THE PIPING IS ALSO EXPOSED SOUTH OF THE UST.



DATE: MAY 12, 1993

TIME:

PHOTO DIRECTION

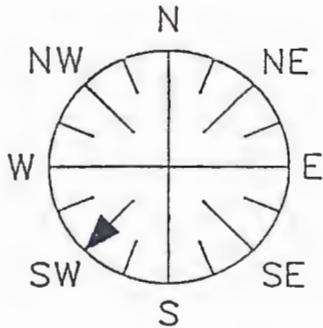


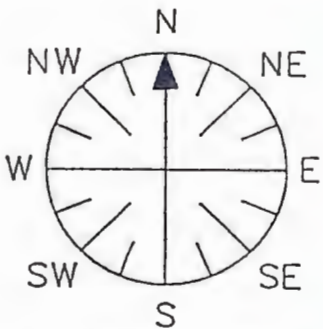
PHOTO BY: RJB

PHOTO LOCATION: SITE MP-16

3

PHOTO DESCRIPTION: THE UST DURING REMOVAL.

PHOTO DIRECTION



DATE:

MAY 12, 1993

TIME:

PHOTO BY:

RJB

PHOTO LOCATION:

4

SITE MP-16

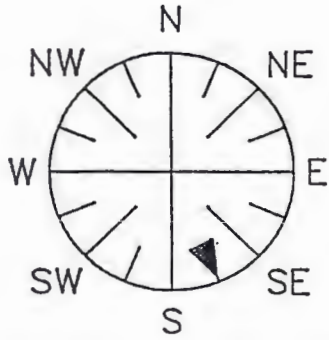
PHOTO DESCRIPTION:

THE EXCAVATION FOLLOWING UST REMOVAL. NO

APPARENT SOIL STAINING OR GROUNDWATER PRESENT.



PHOTO DIRECTION



DATE:

MAY 12, 1993

TIME:

PHOTO BY:

RJB



PHOTO LOCATION:

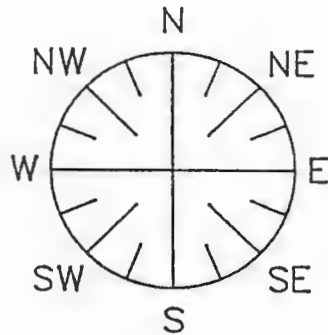
5

SITE MP-16

PHOTO DESCRIPTION:

THE PIPING IS BEING EXPOSED AND REMOVED.

PHOTO DIRECTION



DATE:

TIME:

PHOTO BY:

PHOTO LOCATION:

PHOTO DESCRIPTION:

BLANK



ATTACHMENT 3

CLOSURE ASSESSMENT CHECKLIST (SBD #8951)

CHECKLIST FOR UNDERGROUND TANK CLOSURE

**Complete one form for
each site closure.**

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

1. Site Name <i>Chrysler Corporation Kenosha Main Plant</i>			2. Owner Name <i>Chrysler Corporation</i>		
Site Street Address (not P.O. Box) <i>5555 30th Avenue</i>			Owner Street Address <i>5555 30th Avenue</i>		
<input checked="" type="checkbox"/> City <i>Kenosha</i>	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	<input checked="" type="checkbox"/> City <i>Kenosha</i>	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:
State <i>Wisconsin</i>	Zip Code <i>53142</i>	County <i>Kenosha</i>	State <i>WI</i>	Zip Code <i>53142</i>	Telephone No. (include area code) <i>(414) 658-6000</i>

3. Closure Company Name (Print) <i>Terra Engineering and Construction Corp.</i>		Closure Company Street Address, <i>2201 Vandion Rd.</i>			
Closure Company Telephone No. (include area code) <i>(608) 221-3501</i>		Closure Company City, State, Zip Code <i>Madison, WI 53704</i>			

4. Name of Company Performing Closure Assessment <i>Terra Engineering, Inc.</i>		Assessment Company Street Address, City, State, Zip Code <i>325 East Chicago Street, Milwaukee WI 53202</i>			
Telephone # (include area code) <i>(414) 291-8540</i>	Certified Assessor Name (Print) <i>Richard J. Binder</i>	Assessor Signature <i>Richard J. Binder</i>		Assessor Certification No. <i>00299</i>	

Tank ID #	Closure	Temp. Closure	Closure In Place	Tank Capacity	Contents *	Closure Assessment
1. <i>Arc 2 UST #1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>-5000</i>	<i>09</i>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N

* Indicate which product by numeric code: 01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other; 09-Unknown; 10-Premix; 11-Waste oil; 13-Chemical (indicate the chemical name(s) or numbers(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. Remove Inspector NA
Verified Verified

B. TEMPORARILY OUT OF SERVICE

Written inspector approval of temporary closure obtained, which is effective until (provide date) _____ Y N NA

1. Product Removed			
a. Product lines drained into tank (or other container) and resulting liquid removed, AND	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. All product removed to bottom of suction line, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. All product removed to within 1" of bottom.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Dispensers/pumps left in place but locked and power disconnected.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Vent lines left open.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Inventory form filed indicating temporary closure.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>

C. CLOSURE BY REMOVAL

1. Product from piping drained into tank (or other container). <i>NO product in lines</i>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Piping disconnected from tank and removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. All pump motors and suction hoses bonded to tank or otherwise grounded.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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. <i>NO vent lines</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Tank openings temporarily plugged so vapors exit through vent. <i>NO PLUGS</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent movement.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Tank cleaned before being removed being removed from site. <i>NO product residue in Tank</i>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>

C. CLOSURE BY REMOVAL (continued)

- | | | | | |
|--|---|---|---|--|
| 11. Tank labeled in 2" high letters after removal but before being moved from site. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE. | | | | |
| 12. Tank vent hole (1/8 th " in uppermost part of tank) installed prior to moving the tank from site. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 13. Inventory form filed by owner with Safety and Buildings Division indicating closure by removal. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 14. Site security is provided while the excavation is open. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |

D. CLOSURE IN PLACE

NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS OR LOCAL AGENT.

- | | | | | |
|--|---|---|---|--|
| 1. Product from piping drained into tank (or other container). | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 2. Piping disconnected from tank and removed. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 3. All liquid and residue removed from tank using explosion proof pumps or hand pumps. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 4. All pump motors and suction hoses bonded to tank or otherwise grounded. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 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. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 7. Tank openings temporarily plugged so vapors exit through vent. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - <u>see Section F.</u> | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 9. Tank properly cleaned to remove all sludge and residue. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 10. Solid inert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 11. Vent line disconnected or removed. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 12. Inventory form filed by owner with Safety and Buildings Division indicating closure in place. | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |

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. | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 2. Do points of obvious contamination exist? | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> NA |
| 3. Are there strong odors in the soils? | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> NA |
| 4. Was a field screening instrument used to pre-screen soil sample locations? | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 5. Was a closure assessment omitted because of obvious contamination? | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> NA |
| 6. Was the DNR notified of suspected or obvious contamination? | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| Agency, office and person contacted: _____ | | | | |
| 7. Contamination suspected because of: <input type="checkbox"/> Odor <input type="checkbox"/> Soil Staining <input type="checkbox"/> Free Product <input type="checkbox"/> Sheen On Groundwater <input type="checkbox"/> Field Instrument Test | | | | |

F. METHOD OF ACHIEVING 10% LEVEL DESCRIPTION

- Educator 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 (CO₂ or N₂) **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

Michael HALL Michael Hall 01527 5-12-93
 Remover Name (print) Remover Signature Remover Certification No. Date Signed

I. INSPECTOR INFORMATION

GERALD MARKÉY Gerald Monkey TI 00096
 Inspector Name (print) Inspector Signature Inspector Certification No.

30021 414-656-8089 5-12-93
 FDID # For Location Where Inspection Performed Inspector Telephone Number Date Signed



ATTACHMENT 4
DOCUMENTATION FOR TANK DISPOSAL



Michael Zizzo

SCRAP STEEL
6602 • 22nd Avenue
Kenosha, Wisconsin 53143
Phone (414) 652-2418

Handwritten notes:
#456

SCALE TICKET

CUSTOMER NAME Terra Engineering

COMMODITY _____

CARRIER Madison Wis.

DATE 5/13/93

GROSS Delivered two clean

TARE tanks from Chrysler Corp.

NET no value

TOTAL AMOUNT

\$



ATTACHMENT 5

**TANK CONTENTS WATER SAMPLE
LABORATORY REPORT AND CHAIN-OF-CUSTODY FORM**

3150 North Brookfield Road
 Brookfield, Wisconsin 53045
 Telephone (414) 783-8111
 FAX (414) 783-5752



ANALYTICAL REPORT

REPORT NUMBER: B2492

Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #10813

DATE: May 11, 1993

PURCHASE ORDER:

SEI NO: WL5276

DATE COLLECTED: 04/28/93

DATE RECEIVED: 04/29/93

Matrix: Wastewater
 Source: Chrysler

Units: mg/l (ppm)

<u>Analyte</u>	<u>SEI ID</u> <u>Sample ID</u>	<u>5276-1</u> <u>UST-1</u>
Arsenic		<0.002
Barium		0.168
Cadmium		<0.05
Chromium		<0.02
Copper		0.04
Lead		<0.05
Mercury		0.0003
Nickel		<0.1
Selenium		<0.002
Silver		<0.05
Zinc		<0.06
Alkalinity, as CaCO ₃		107
% Chlorine		0.02
Cyanides, Amenable		<0.01
Flashpoint, °F		>140
Free Liquids		Yes
pH		7.73
Phenols		0.039
Specific Gravity		0.967
Sulfide, Reactive		9.6
Total Solids		676
Total PCBs ^a , ug/l		<7.0 ^b

a Concentration of Total PCBs based on response of seven Arochlors.

b Elevated detection level due to matrix interference; a 10x dilution necessary.

SWANSON ENVIRONMENTAL INC.

3150 North Brookfield Road
 Brookfield, Wisconsin 53045
 telephone (414) 783-6111
 FAX (414) 783-5752



WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B2492

Triad Engineering, Inc.
 325 East Chicago Street
 Milwaukee, WI 53202

Attn: Mr. Rick Binder
 Project #10813

DATE: May 11, 1993
 PURCHASE ORDER:
 SEI NO: WL5276
 DATE COLLECTED: 04/28/93
 DATE RECEIVED: 04/29/93

Matrix: Wastewater
 Source: Chrysler

Units: ug/l (ppb)

<u>Analyte</u>	<u>SEI ID</u> <u>Sample ID</u>	<u>5276-1</u> <u>UST-1</u>
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Semi-Volatiles

Cresols, Total	<20
2,4-Dinitrotoluene	<20
Hexachlorobenzene	<10
Hexachloro-1,3-butadiene	<20
Hexachloroethane	<10
Nitrobenzene	<20
Pentachlorophenol	<20
Pyridine	<50
2,4,5-Trichlorophenol	<20
2,4,6-Trichlorophenol	<20

Volatiles

Benzene	<5
Carbon tetrachloride	<5
Chlorobenzene	<5
Chloroform	<5
1,4-Dichlorobenzene	<6
1,2-Dichloroethane	<5
1,1-Dichloroethylene	<5
Methyl ethyl ketone	<10
Tetrachloroethylene	<5
Trichloroethylene	<5
Vinyl chloride	<5

Elevated detection level due to matrix interference.

Gary E. Barry
 Gary E. Barry

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS	<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;"> TELP Analytical Parameters PCBs </div>					SAMPLE DESCRIPTION	
SAMPLERS:													
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION								
10813		Chevrolet N.A. Remediation VST 1				13	Wastewater Management Plant A Parameters + PCB scan VOCs procedure in field = HCL R. on Ice						
R.S. Kraemer													
VST-1	4/24/92	12:45		✓	VST #1 WATER								

Relinquished By: <i>R. Kraemer</i>	Date / Time 4/22/92 1330	Received By: <i>R. Borden</i>	Relinquished By: <i>[Signature]</i>	Date / Time	Received By: <i>R. Borden</i> 4/29/92 3:50 P.M.
Relinquished By: <i>R. Borden</i>	Date / Time 4/29/92 15:00	Received By: <i>Debra M. Rupp</i>	Relinquished By: <i>Debra M. Rupp</i>	Date / Time 4/29/92 3:50	Received By:



Corporate Office:
 24156-58 Haggerty Rd.
 Farmington Hill, MI 48024
 (313) 478-2700
 Fax (313) 478-3819

Laboratory Services:
 3150 North Brookfield Rd.
 Brookfield, WI 53005
 (414) 783-6111
 Fax (414) 783-5752

Remarks: *Normal turnaround*
 Report To: *Richard T. Borden / [Signature]*
 325 E. Chicago Street, M.H. 53202



ATTACHMENT 6
FIELD SCREENING RESULTS

**CHRYSLER CORPORATION UNDERGROUND TANK REMOVAL
MAY 12, 1993**

Location: Approximately 5400 South 26th Avenue
Kenosha, Wisconsin
On Chrysler Property

Tank Removal Company: Terra Construction
Madison, Wisconsin

Certified Remover: Mike Hall, Terra Construction

PID Readings of Soils in Area
Instrument: Model 580B OVM Smart Portable
(Century Products Rental)
Serial No. 580U 41907-266

Calibration: 0900 5/12/93
250 ppm Isobutylene Standard
Lot No. 36517 Alphagaz Calgaz

LOCATION	APPROXIMATE DEPTH (feet)	MAXIMUM READING	BACKGROUND	COMMENTS
East Side of UST	2	1.0	1.0	Soils moist, no odor, silty sand
West Side of UST	2	8.5	1.0	Soils moist, no odor, silty sand
West Bottom of UST	4	1.5	1.0	Soils moist, no odor, silty sand
East Bottom of UST	4	1.0	1.0	Soils moist, no odor, rust evident
North Side of UST	7	1.0	1.0	Soils moist, no odor, sandy clay
South Side of UST	7	1.0	1.0	Soils moist, no odor, sandy clay
Middle of UST	7	7.0	1.0	Soils moist, no odor, sandy clay