



**Phase 4 Site Assessment for
Closure of Underground
Storage Tank**

Claude Allouez Bridge
Charles Street Near 135 South
Broadway
City of De Pere, Brown County,
Wisconsin
WisDOT Project ID 4190-04-71

STS Project No. 200702486



09-05-550829
Charles St Row

 STS CONSULTANTS

1035 Kepler Drive
Green Bay, Wisconsin 54311
920-468-1978 Phone
920-468-3312 Fax

October 30, 2007



Ms. Sharlene B. TeBeest
Wisconsin Department of Transportation
4802 Sheboygan Avenue, Room 451
P.O. Box 7965
Madison, Wisconsin 53707-7921

Re: Phase 4 Site Assessment for Closure of Underground Storage Tank, Claude Allouez Bridge, Charles Street Near 135 South Broadway, City of De Pere, Brown County, Wisconsin -- WisDOT Project ID 4190-04-71 -- STS Project No. 200702486

Dear Ms. TeBeest:


STS has completed the attached report documenting the site assessment and closure for the underground storage tank discovered at the above-referenced property. This work was completed in accordance with STS Work Order No. 59, Master Contract ID No. 1009-04-24. A copy of this report will also be forwarded to the Wisconsin Department of Commerce Bureau of Storage Tank Regulation and the Wisconsin Department of Natural Resources as required under Wisconsin Administrative Code Comm 10.

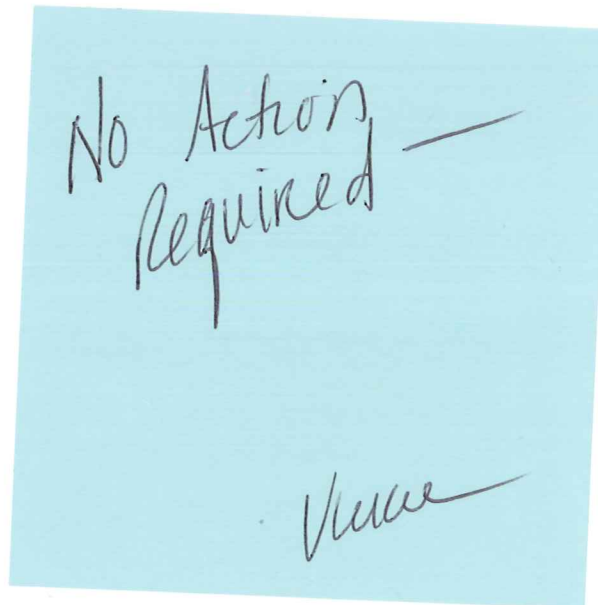
Please call (920) 468-1978 if you have any questions or comments regarding the information presented in this report.

Sincerely,

STS


Paul M. Garvey
Senior Project Scientist


Roger A. Miller, P.G., C.P.G.
Associate Hydrogeologist



Wisconsin Department of Transportation
STS Project No. 200702486
October 30, 2007

Copy: Ms. Kathie VanPrice
Wisconsin Department of Transportation
944 Vanderperren Way
P.O. Box 28080
Green Bay, Wisconsin 54324-0080

Wisconsin Department of Commerce
Bureau of Storage Tank Regulation
P.O. Box 7837
Madison, Wisconsin 53707-7837

Ms. Vickie Wall
Wisconsin Department of Natural Resources
2984 Shawano Avenue (54313)
P.O. Box 10448
Green Bay, Wisconsin 54307-0448

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Wisconsin Department of Transportation
STS Project No. 200702486
October 30, 2007

1.0 INTRODUCTION

One 6,000-gallon underground storage tank (UST) was decommissioned by excavation and removal on May 11, 2007, on the City of De Pere right-of-way (ROW) beneath Charles Street, immediately to the south of the Kenneth J & Sylvia Butz property in De Pere, Wisconsin. The Butz property is described as Parcel #ED-823, Lot 7 of Block 18 of the Original Plat of De Pere, Excepting East 31 feet, De Pere, Brown County, Wisconsin. Based on a Brown County Land Records Search, the UST was *not* located on the Butz property. The location of the UST is illustrated on Figures 1 and 2. The site is currently in the northeast quadrant of the intersection of State Highway 32/57 and South Broadway.

1.1 Background

A UST was encountered during construction activities associated with the east approach to the new Claude Allouez Bridge on State Highway 32/57. During decommissioning activities, one 6,000-gallon gasoline UST was removed. The UST was located under the street adjacent to the Onsite Maintenance Solutions building at 135 South Broadway. At the time of removal, the building was owned by the Kenneth J & Sylvia H Butz Revocable Trust (Brown County Treasurer Land Records Search, May 21, 2007).

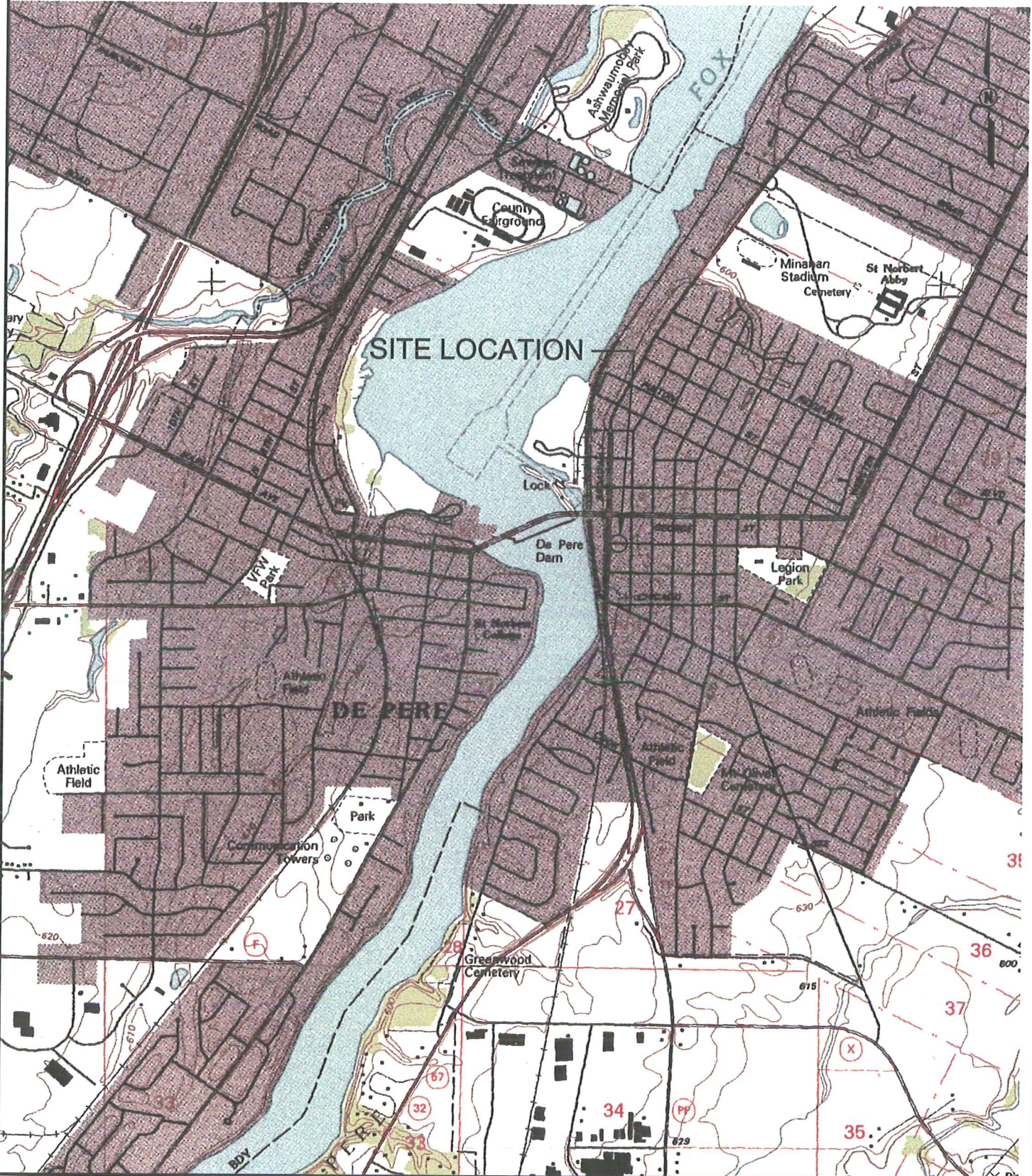
The UST was approximately 8 feet in diameter and 16 feet long, yielding a capacity of approximately 6,000 gallons. Piping attached to the top of the UST was observed during removal activities. One-inch supply piping was connected to top of the UST at the west end. The 1-inch pipe extended to the west approximately 2 feet prior to bending to the north toward the existing building. Two 2-inch pipes (fill pipe and vent pipe) were attached to the top of the UST at the east end. Both 2-inch pipes extended approximately 15 feet to the east before bending to the north and terminating at the edge of the existing parking lot. An 18-inch diameter man-way secured by bolts was present at the center of the UST. A third sample was collected from the excavation due to the piping run extending to the east beyond 2.5 feet from the UST. The remaining piping was removed.

The sidewalk and all paving associated with Charles Street had been removed prior to exposing the top of the UST.

The purpose of this UST closure report is to summarize conditions observed by STS personnel during closure activities and present results of laboratory testing conducted on collected soil and tank bottom (liquid) samples.



MAP SOURCE: MODIFIED FROM QUAD DEPERE, WIS. U.S.G.S. QUADRANGLE DATED 1992.



X:\PROJECTS\200702486\Dwg\G200702486-SITE-FIG1.dwg; 5/25/2007 10:09:56 AM; MLEZIVA, DAN J.

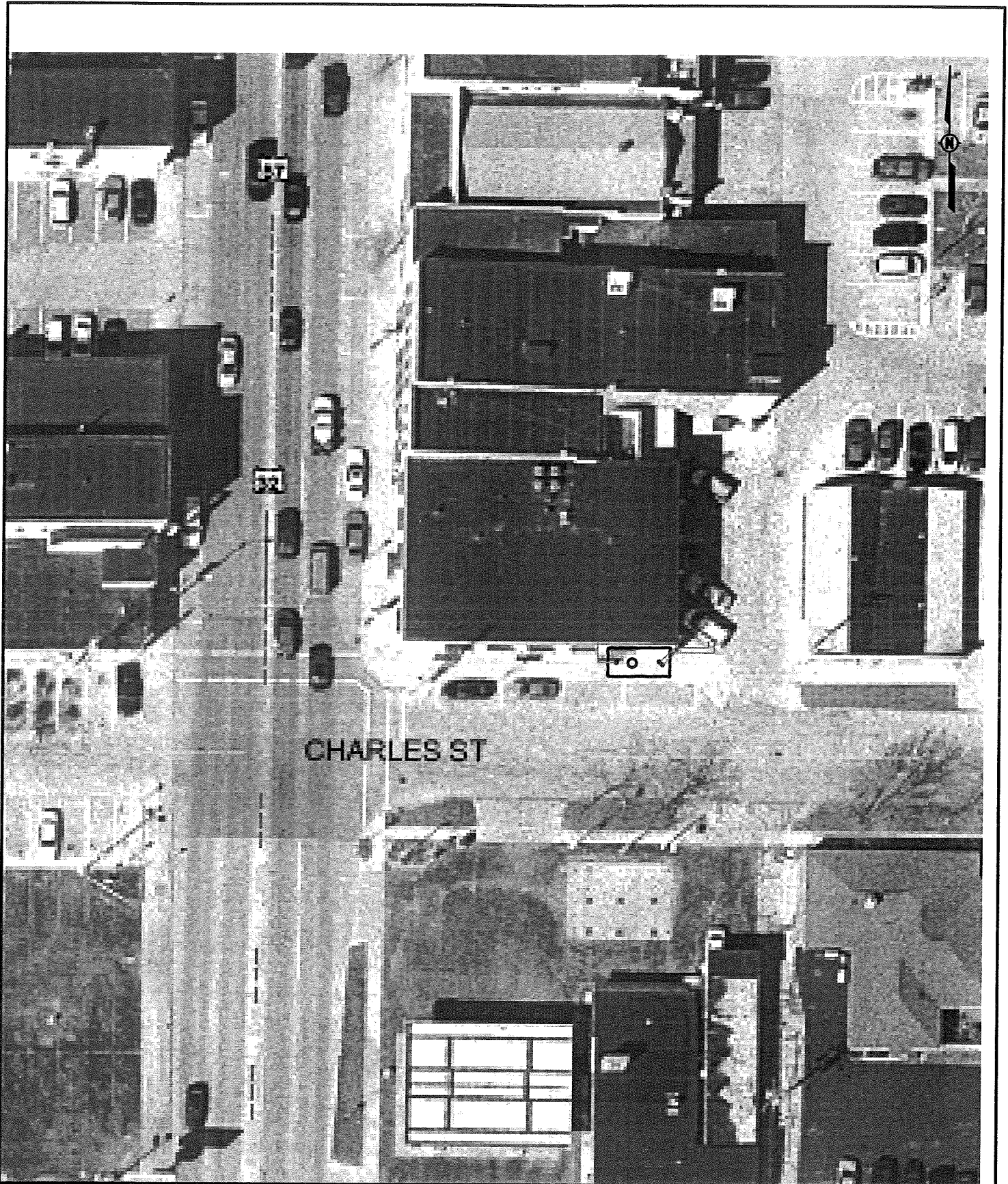


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SITE LOCATION MAP
WISCONSIN DEPT. OF TRANSPORTATION
135 S. BROADWAY
DEPERE, WISCONSIN

Drawn :	DJM 5/25/2007
Checked:	JEL 5/25/2007
Approved:	
PROJECT NUMBER	200702486
FIGURE NUMBER	1

X:\PROJECTS\200702486\Dwg\C200702486-UST-FIG2.dwg; 8/30/2007 11:08:39 AM; LEMMENS, JERRY R.




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UST LOCATION MAP
WISCONSIN DEPT. OF TRANSPORTATION
135 S. BROADWAY
DEPERE, WISCONSIN

Drawn :	DJM 5/25/2007
Checked:	JEL 5/25/2007
Approved:	
PROJECT NUMBER	200702486
FIGURE NUMBER	2

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October 30, 2007

2.0 TANK CLOSURE PROCEDURES

STS was retained by WisDOT to coordinate and document decommissioning activities and assist with site assessment activities. The subcontractor responsible for tank decommissioning was Environmental Services Plus, Ltd. (ESP), W1732 County Road KK, Kaukauna, Wisconsin (54130) (phone 920-766-6756). The ESP State of Wisconsin Site Assessor and Tank Remover-Cleaner was Mr. Jesse Rose (Certification No. 41240). Mr. Rose notified Mr. Randy Shervey of the Wisconsin Department of Commerce (Commerce) prior to tank removal activities. A copy of the Comm 10 Notification Record is provided in Appendix A. The UST was decommissioned by excavation and removal on May 11, 2007. Prior to excavation, the atmosphere of the UST was tested using a BW GasAlertMax combustible gas meter (CGM). Liquid remaining in the UST appeared to be sludge related to fuel oil, and the CGM confirmed that the atmosphere inside the UST was non-explosive. No additional venting was performed prior to opening the UST. The top of the UST was opened to provide access and the UST was cleaned on site. Soil in contact with the UST had no observable odors or staining. After the UST was removed from underground, soil beneath the UST was also observed to be free of odor or staining, and the small amount of water present in the excavation did not have a visible sheen. Three soil samples were collected from the excavation area for laboratory analysis of diesel range organic compounds (DRO). Three runs of piping extended from the UST. The eastern piping run terminated less than 15 feet from the eastern soil sample location.

A photo log documenting UST decommissioning activities is provided in Appendix B. A copy of the Commerce "Underground Flammable/Combustible/Hazardous Liquid Storage Tank Registration" form and a "Checklist for Tank Closure" form are provided in Appendix A.

2.1 Tank Cleaning and Disposal

Cleaning and disposal of the UST was initiated on May 11, 2007. Prior to removal from the ground, a cut was made lengthwise along the top of the UST. A tracked backhoe was then utilized to "peel" the top open allowing access. ESP subcontracted Schroeder Environmental Cleaning Service, Inc. (SECSI) to provide a vacuum truck to remove the liquid/sludge from the UST. SECSI then transferred the liquid/sludge from the truck into seven 55-gallon drums. Following removal of the sludge, ESP used petroleum absorbent towels and "oil dry" to remove the remaining liquid from the UST. The towels and oil dry were placed into garbage bags for disposal. The drums were labeled using standard WisDOT Non-Regulated Waste stickers



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(DT1208 6/2001) and staged at the site for disposal by Veolia Environmental Services (Veolia), Menominee Falls, Wisconsin, in accordance with the Veolia WisDOT Master Service Agreement for waste disposal.

Field observation of the UST indicated some mild corrosion and pitting, but no visible holes. A larger hole caused by mechanical means rather than corrosion was created by ESP personnel using a sledge hammer to knock soil from the exterior of the UST prior to transport from the site. Following cleaning activities, the tank was loaded onto a trailer and transported by ESP for scrap.

2.2 Remedial Investigation

During removal of the UST, no staining or petroleum odors were encountered in the soil surrounding the UST. Therefore, the excavation was limited to the size necessary to remove the UST from the ground. STS personnel collected three soil samples for DRO testing from the excavation base to document conditions of the remaining soil left in place. Soil samples were not screened in the field since there was no evidence (olfactory or staining) of contamination. No field evidence of contamination was observed in the vicinity of the UST system.

Following removal of the UST, the excavation was backfilled with approximately 51 cubic yards (truck measure) of sand. Copies of the load tickets are included in Appendix A.

2.3 Waste Management

Following cleaning and removal from the ground, the UST was transported by ESP to Smitty's Salvage & Supply, Inc. for disposal as scrap.

The seven 55-gallon drums of liquid/sludge were transported to Veolia on May 24, 2007, for disposal. A copy of shipping information is included in Appendix A.



Table 1
Analytical Results
UST in WisDOT Right of Way
East Approach - Claude Allouez Bridge
De Pere, Wisconsin

	Soil Sample			Cleanup Criteria	
		West	Middle	East	
Sample Depth	(feet)	9	9	9	Chapter NR720
DRO	(mg/kg)	<4.4	39	12	100

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October 30, 2007

3.0 SITE CONDITIONS

3.1 UST System Condition

The 6,000-gallon UST was likely installed more than 25 years ago. The UST was constructed of 0.25-inch thick bare steel. The UST appeared to be in good condition with limited pitting and no observed holes at the time of removal. Based on the lack of odors in and around associated piping, and the fact that much of the piping contained soil, it is likely that the UST had been out of use for many years. Soil in the tank excavation was primarily fine sand with clay around and beneath the sand. A small amount of water was observed in the bottom of the excavation; however, it is uncertain if the water was groundwater, or water perched above and within the clay. The excavation was terminated at a depth of approximately 9 feet below ground surface (bgs).

3.2 Soil Sample Collection

STS provided an on-site technician and Certified Site Assessor and Remover-Cleaner, Mr. Jesse Rose, (Wisconsin Certification No. 41240) to monitor tank cleaning, removal procedures, conditions of the UST at excavation, and collect soil samples for laboratory chemical analysis.

Soil samples associated with the UST excavation were collected at depths of approximately 9 feet bgs. A site diagram, which depicts the sample locations, is illustrated on Figure 3.

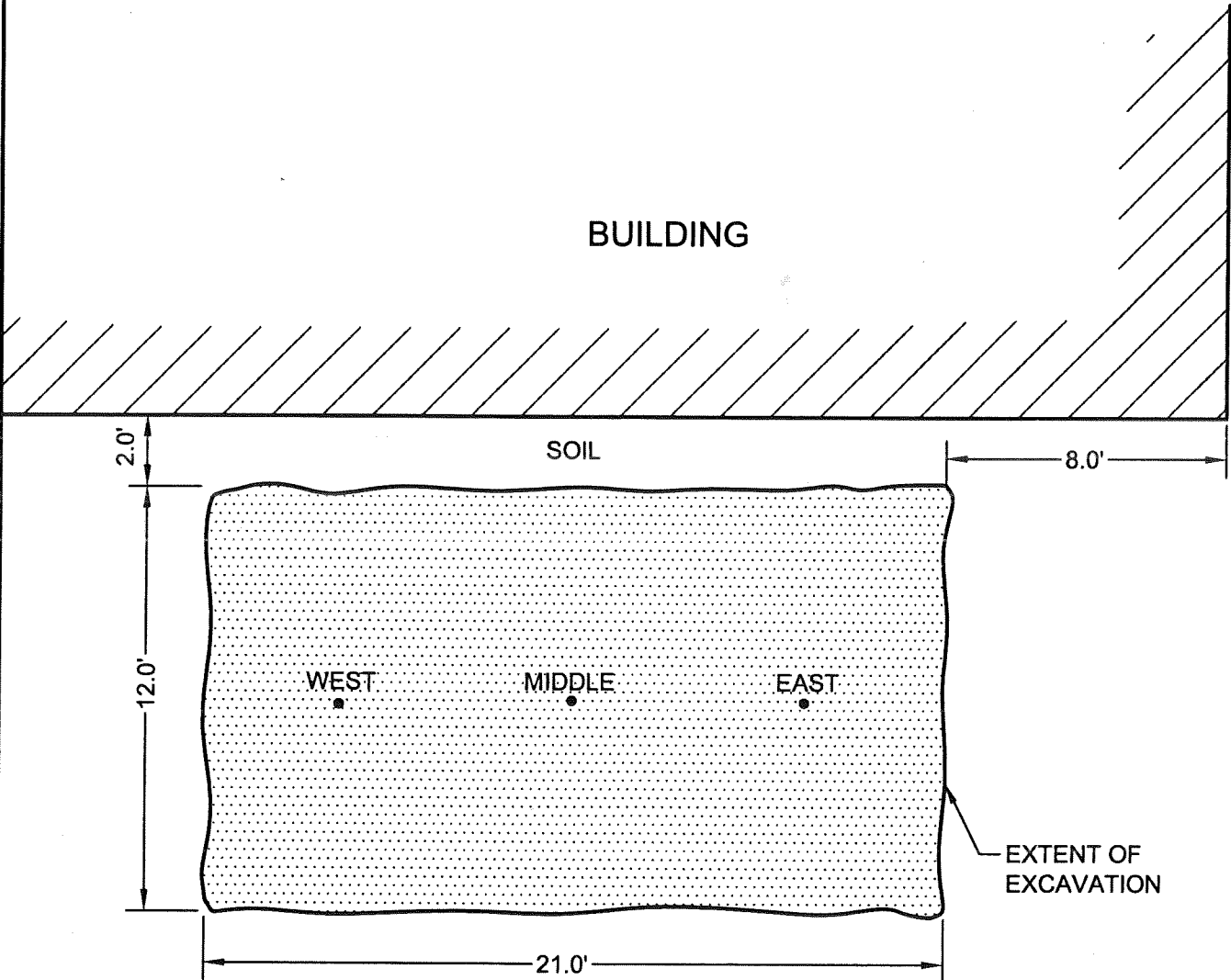
Soil samples were placed in laboratory containers provided by the laboratory, stored on ice in the field, and delivered to Pace Analytical, Inc. (Pace) of Green Bay, Wisconsin, under Chain of Custody control. Waste characterization samples were also collected and submitted to Veolia for hazardous waste determination. Analytical testing was conducted in accordance with Wisconsin Leaking Underground Storage Tank methods. A copy of the laboratory report is provided in Appendix C.

3.3 Site Assessment Results

Soil samples were collected from three locations at the base of the UST excavation: West, Middle, and East, respectively. All samples were collected at approximately 9 feet bgs.



X:\PROJECTS\200702486\Dwg\G200702486--SOIL--FIG3.dwg; 5/25/2007 10:06:32 AM; MLEZIVA, DAN J.



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UST LOCATION MAP
 WISCONSIN DEPT. OF TRANSPORTATION
 135 S. BROADWAY
 DEPERE, WISCONSIN

Drawn :	DJM 5/25/2007
Checked:	JEL 5/25/2007
Approved:	
PROJECT NUMBER	200702486
FIGURE NUMBER	3

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STS Project No. 200702486
October 30, 2007

DRO was not detected above laboratory method detection levels in the West sample. The Middle and East samples reported DRO at concentrations of 39 and 12 milligrams per kilogram (mg/kg), respectively. These concentrations are below the Wisconsin Administrative Code NR 720 Groundwater Pathway Residual Contaminant Level of 100 mg/kg for permeable and 250 mg/kg for less permeable soils.

Table 1 provides a summary of the soil analytical results. Copies of the laboratory analytical report are provided in Appendix C.



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4.0 CONCLUSIONS

One 6,000-gallon UST was cleaned, excavated, and removed from the site on May 11, 2007. The age of the UST is unknown; however, based on the construction, it is likely it was installed several decades ago. There was surficial corrosion and deterioration of the UST, but no holes were observed at the time of removal activities. A small amount of water was encountered in the excavation (9 feet bgs) during decommissioning activities, however it is uncertain whether this water is groundwater or water perched in the sand backfill above the natural silty clay subsoil.

Low concentrations of DRO were identified at the base of the excavation, even though no visual or olfactory evidence was observed. Typically, if a fuel oil UST is breached or there is an overfill event, soils remain stained and a petroleum odor is noticeable for a long period of time. At this location, the backfill sand and surrounding clay appeared to be unimpacted. Thus, it is likely that the DRO reported in the laboratory samples results from naturally occurring organic compounds or perhaps residual DRO from degradation of organic material rather than a release from the UST.

The area where the UST was removed will ultimately be covered with a sidewalk and an asphalt parking lot. This soil cover will provide an additional barrier to subsurface activity on the site in the future.

Based on the analytical test results of the soil samples collected within the UST excavation, it is the opinion of STS that WisDOT has fulfilled its obligation to substantially define the impacts within its ROW. We request that no further action be required of WisDOT at this time.



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October 30, 2007

5.0 GENERAL QUALIFICATIONS

STS was retained by WisDOT to provide UST decommissioning services and document tank and soil conditions in the ROW adjacent to the Butz property located at 135 South Broadway in De Pere, Wisconsin. This report was prepared to summarize observations made during tank cleaning and removal activities and to present soil analytical results determined by Pace. No other warranty, either expressed or implied, is made.

Conditions and conclusions presented in this report are based on field observations and results of laboratory tests performed on recovered soil samples. The scope of this report is limited to this specific project, the location of which is described herein. Our description of the project represents our understanding of the significant factors relative to soil conditions. The information should not be used for purposes other than intended.



Wisconsin Department of Transportation
STS Project No. 200702486

Appendix A

Comm 10 Notification Record

Wisconsin Department of Commerce Underground Flammable/Combustible/Hazardous Liquid
Storage Tank Registration Form

Wisconsin Department of Commerce Checklist for Tank Closure

Peters Concrete Co. Backfill Load Tickets

Smitty's Salvage & Supply, Inc. UST Scrap Ticket

Waste Manifests

PHONE 920-339-8760
 MOBILE 920-655-1333

FAX 920-339-8956



Wisconsin Department of Commerce
 ERS Division
 Bureau of Petroleum Products and Tanks
 P.O. Box 7837
 Madison, WI 53707-7837

Comm. 10 Notification Record

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

TO: MR BRYAN BECKER OFFICE LOCATION: WISCONSIN INSPECTIONS

(Refer to the Commerce web site: > <http://apps.commerce.state.wi.us/ERSLPOLists/ERSLPOLists?agency> < for the agency responsible for the specific jurisdiction.)

LOCATION / IDENTIFICATION (Please print or type)

Site Name <u>RIGHT OF WAY</u> <u>WOOD / CITY OF DEPERE</u>		Owner Name <u>WOOD / CITY OF DEPERE</u>		
Site Street Address <u>CHAMBERLAIN # 135 S BROADWAY</u>		Owner Street or P.O. Address <u>Room 451</u> <u>4802 SHEBOYGAN AVE, PO BOX 7965</u>		
<input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of: <u>DEPERE</u>		<input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of: <u>MADISON</u>		
County <u>BROWN</u>	Zip Code <u>54115</u>	State <u>WI</u>	Zip Code <u>53707</u>	Telephone <u>(608) 266-1496</u>
Fire Department providing fire protection coverage: <u>DEPERE FIRE DEPT</u>				

Name of Contractor: ENVIRONMENTAL SERVICES PLUS

Address of Contractor: 4450 FIELD CREST DRIVE

City/Town: KAUKOUNA WI

Telephone Number: (920) 766-6756 Fax Number: (920) 759-4504

Date work is to begin: MAY 11 2007 (FRIDAY @ 8:30 AM)

Comm. 10 certified project supervisor: MR JESSE F ROSE 740-3600

Project will involve:

	Check		Number of tanks	Plan Number	Approval Date
	UST	AST			
Tank Installation	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
Dispenser POS Conversion	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
Piping Installation/Upgrade	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
Leak Detection Upgrade	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
Spill/Overfill Protection	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
Stage II Vapor Recovery	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
Cathodic Protection/Lining	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____
Tank Closure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1</u>	_____	_____

Comments: CLEANUP / CLOSURE, REMOVAL OF ONE 6500 GALLON
NO# 5, 6 FUEL OIL UST, FOUND DURING UTILITY CONST
PLEASE CALL W/ ANY QUESTIONS

Sincerely
JESSE F ROSE

TDID#: _____
 Reg Obj #: _____

UNDERGROUND FLAMMABLE/COMBUSTIBLE/HAZARDOUS LIQUID STORAGE TANK REGISTRATION

Information Required By Section 101.142, Wis. Stats.

Send Completed Form To:
 Department of Commerce
 Bureau of Petroleum Products and
 Tanks
 P.O. Box 7837
 Madison, WI 53707-7837

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. 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 status that is (check one):

<input type="checkbox"/> In Use	<input checked="" type="checkbox"/> Closed - Tank Removed	<input type="checkbox"/> Ownership Change (Indicate new owner name in block 2)	Fire Department providing fire coverage where tank is located: <input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of: DePere#0501
<input type="checkbox"/> Newly Installed	<input type="checkbox"/> Closed - Filled with Inert Materials		
<input type="checkbox"/> Abandoned with Product	<input type="checkbox"/> Abandon with Water		
<input type="checkbox"/> Abandoned without Product (empty)	<input type="checkbox"/> Temporarily Out of Service - Provide Date: _____		

A. IDENTIFICATION (Please Print)		Site Telephone Number () n/a	
1. Tank Site Name Claude Allouez Bridge R/W		Site Street Address 135 S. Broadway & Charles Street	
<input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of: DePere		State WISCONSIN	Zip Code 54115
2. Tank Owner Name City of De Pere		Mailing Address 335 S. Broadway	
<input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of: De Pere		State WI	Zip Code 54115
3. Previous Site Name		Previous site address if different than #1	

B. Site ID #:	Facility ID #:	Customer ID #:
C. Tank Capacity (gallons): 6,000	Tank Age (age or date installed): 1950	Vehicle fueling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

D. LAND OWNER TYPE (check one) Refer to back

County State Federal Leased Federal Owned Tribal Nation Municipal Other Government Private

E. OCCUPANCY TYPE (check one) Refer to back

Retail Fuel Sales Bulk Storage Terminal Storage Mercantile/Commercial Industrial Residential School
 Agricultural (crop or livestock production) Backup or Emergency Generator Gov't Fleet Utility Other (specify): _____

F. Tank Construction:

Bare Steel Coated Steel Stainless steel Steel - Fiberglass Reinforced Plastic Composite

Fiberglass Unknown Other (specify): _____ Lined (date): _____

Overfill Protection? Yes No
Spill Containment? Yes No

G. Tank Cathodic Protection: Sacrificial Anodes Impressed Current N/A **Tank Double Walled?** Yes No

H. Primary Tank Leak Detection Method:

Automatic tank gauging Interstitial monitoring Inventory control and tightness testing Groundwater monitoring Vapor monitoring
 Manual tank gauging (only for tanks of 1,000 gallons or less) Statistical Inventory Reconciliation (SIR) Unknown

I. Piping Construction:

Bare Steel Coated Steel Stainless Steel Fiberglass Flexible Copper Unknown NA Other _____

J. Piping Cathodic Protection: Sacrificial Anodes Impressed Current N/A **Pipe Double Walled?** Yes No

K. Primary Piping System Type: Pressurized piping with A. auto shutoff; B. alarm, or C. flow restrictor Unknown
 Suction piping with check valve at tank Suction piping with check valve at pump and inspectable Not needed if waste oil

L. Piping Leak Detection Method: (used if pressurized or check valve at tank): SIR Tightness testing Electronic line leak monitor
 Groundwater monitoring Vapor monitoring Interstitial monitoring Not required Unknown

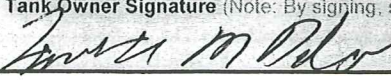
M. Vapor Recovery/Stage II Fiberglass Flexible Other (specify): _____
 Operational - Provide Date (mo./day/yr.): _____ CARB #: _____

N. TANK CONTENTS (Current, or previous product (if tank now empty))

Leaded Unleaded Gasohol E85 Diesel Bio-diesel Aviation Premix Fuel Oil Kerosene
 Waste/Used Motor Oil New Motor Oil Hazardous Waste* Unknown Empty* Sand/Gravel/Slurry* Other (specify): _____
 Chemical* Name _____ CAS #: _____

O. If Tank Closed, Abandoned or Out of Service Give date (mo./day/yr): clean&remv 5-11-07	Geo Latitude: 44° 14.669N Geo Longitude: 088° 16.695.W
	Has a site assessment been completed? (see reverse side for details) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Tank Owner Name (please print):
City of De Pere

Tank Owner Signature (Note: By signing, signer is accepting legal and financial responsibility for the storage tank system.)
 Lawrence Delo, City Administrator

Date
7/5/07

Definitions and explanations for completing this form

Land Owner Type - classifies the organization that owns the property the tank is located on. A "Private" landowner is residential, commercial, mercantile, industrial, farm, non-government owned public utility, or other business organization.

Occupancy Type (categories below) – identifies the occupancy in relation to Comm 10 storage classifications.

- Retail Fuel Sales Tank is used to store any fuel product that is offered for sale in the retail market.
- Bulk Plant Storage Tank is used to store any fuel product that is offered for sale in the wholesale market.
- Industrial Tank is used to store any regulated product associated with an industrial fleet, heating, industrial fabricating, manufacturing or processing.
- Mercantile/Commercial Tank is used to store any regulated product associated with a commercial business fleet, heating, or processing, e.g., service company, medical facility, freight, airport, apartment, etc.
- Utility Tank is used to store any regulated product associated with a public or private water or power utility fleet, heating, or processing.
- Residential Tank is used to store any regulated product for residential heating or residential automobile fueling.
- School Tank is used to store any regulated product at public or private primary, secondary or higher educational institution.
- Agricultural Tank is used to store any regulated product directly associated with crop or livestock production.
- Back-up or Emergency Generator Tank is used to store any fuel used to power a backup or emergency generator.
- Terminal Storage Tank is associated with a distribution facility such as an interstate pipeline. These tanks are typically field erected structures of 500,000 + gallon capacity. A million gallon tank at an ethanol production site would be "industrial," not "terminal storage."
- Government Fleet Tank is located at a facility owned and operated by a federal, state, county or local government entity. The tank may be used for vehicle fueling, waste oil or heating purposes.

COMMERCE UST/AST Permit and Registration Group Areas of responsibility by county

Rebecca Mouth West 715-726-2545				Terri Quamme North East 608-267-1383		Israel Zurfluh Central 608-267-2051		Gwendolyn Person South East 608-267-1382	
02	Ashland	46	Pepin	05	Brown	01	Adams	30	Kenosha
03	Barron	47	Pierce	10	Clark	08	Calumet	40	Milwaukee
04	Bayfield	48	Polk	15	Door	11	Columbia	45	Ozaukee
06	Buffalo	50	Price	19	Florence	13	Dane	51	Racine
07	Burnett	52	Richland	21	Forest	14	Dodge	53	Rock
09	Chippewa	54	Rusk	31	Kewaunee	20	Fond Du Lac	64	Walworth
12	Crawford	55	St Croix	34	Langlade	24	Green Lake	66	Washington
16	Douglas	57	Sawyer	35	Lincoln	28	Jefferson	67	Waukesha
17	Dunn	60	Taylor	37	Marathon	36	Manitowoc		
18	Eau Claire	61	Trempealeau	38	Marinette	39	Marquette		
22	Grant	62	Vernon	42	Oconto	56	Sauk		
23	Green	65	Washburn	43	Oneida	59	Sheboygan		
25	Iowa			44	Outagamie	69	Waushara		
26	Iron			49	Portage	70	Winnebago		
27	Jackson			58	Shawano				
29	Juneau			63	Vilas				
32	La Crosse			68	Waupaca				
33	Lafayette			71	Wood				
41	Monroe			72	Menominee				

CLOSURE ASSESSMENT INFORMATION

Requirements for a site assessment at the closure or change in service for Comm 10 regulated underground storage tank are outlined in Comm 10.732 and the Federal Register, 40 CFR 280 and 281.

Guidelines on properly conducting of a tank closure assessment can be obtained at:
http://commerce.wi.gov/ERpdf/bst/ProgramLetters_PL/ER-BST-PL-TankClosureAssessGuide.pdf
 or James Moser - e-mail: jmoser@commerce.state.wi.us or telephone: 608.267.1394

Closure site assessments are to be submitted to the DNR at the following address:
 Bureau of Solid and Hazardous Waste Management
 P.O. Box 7921
 Madison, WI 53707

Complete one form for each site closure.

CHECKLIST FOR TANK CLOSURE

RETURN COMPLETED CHECKLIST TO:

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

CHECK ONE:

- UNDERGROUND**
 ABOVEGROUND

Wisconsin Department of Commerce
 ERS Division
 Bureau of Petroleum Products and Tanks
 P.O. Box 7837
 Madison, WI 53707-7837

FOR PORTIONS OF THE FORM THAT DO NOT APPLY, CHECK THE 'N/A' BOX

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

1. Site Name: CLAUDE AMOUZÉZ BRIDGE ROAD
 Site Street Address (not P.O. Box): CHARLIE'S STREET + 135 South Broadway
 City Village Town of: DEPERE
 State: WI Zip Code: 54115 County: BROWN

2. Owner Name: WOOD B.E.E.S
 Owner Street Address: PO Box 7965
 City Village Town of: MADISON State: WI Zip Code: 53707-2
 Telephone No. (include area code): (608) 266-1476

3. Closure Company Name (print): ENVIRONMENTAL SERVICES PLUS
 Closure Company Telephone No. (include area code): (920) 766-6756
 Closure Company Street Address: 4430 FIELD CREST DRIVE
 Closure Company City, State, Zip Code: KAUKAUNA WI 54130

4. Name of Company Performing Closure Assessment: STS Consultants
 Telephone No. (include area code): (920) 468-1978
 Certified Assessor Name (print): JESSE F ROSE
 Assessor Signature: [Signature]
 Assessor Certification No.: 41240

Tank ID #	Closure	Temp. Closure	Closure in Place	Tank Capacity	Contents*	Closure Assessment
1.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6000	NOH 2 P.O	<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

* Indicate which product: Diesel; Leaded; Unleaded; Fuel Oil; Gasohol; Aviation Fuel; Kerosene; Premix; Waste/Used Motor Oil; Flammable/Combustible Hazardous Waste; Chemical (indicate the chemical name(s) _____ and CAS number(s) _____; Other _____

Written notification was provided to the local agent 15 days in advance of closure date. Y N

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.

B. TEMPORARILY OUT OF SERVICE

	Remove Verified	Inspector Verified	NA
1. Product Removed			
a. Product lines drained into tank (or other container) and liquid removed, AND	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. All product removed to bottom of suction line, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. All product removed to within 1" of bottom.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input 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 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 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 type="checkbox"/>
5. Vent lines left open.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
6. Inventory form filed indicating Temporary-Out-Of-Service (TOS) closure.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

C. CLOSURE BY REMOVAL

1. Product from piping drained into tank (or other container).	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" 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.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Tank openings temporarily plugged so vapors exit through vent.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section E.	<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 from site.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- 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. 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: Refer to section E for method of vapor freeing the tank**
- 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. METHOD OF VAPOR FREEING TANK

- Displacement of vapors by 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.
- Inert Gas using Dry Ice or Liquid Carbon Dioxide
Dry Ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the greatest possible tank area.
- Inert Gas using CO₂ or N₂ **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. LEL METERS MAY NOT FUNCTION ACCURATELY. 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.
- Readings of 10% or less of the lower flammable range (LEL) or 0% oxygen obtained before removing tank from ground.
- Tank atmosphere monitored for flammable or combustible vapor levels prior to and during cleaning and cutting.
- Calibrate combustible gas indicator and/or oxygen meter prior to use. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank.

F. CLOSURE ASSESSMENTS

NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO COMM 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? Surface to tank top: Y N Within tank excavation: Y N Piping: Y N
- 3. Was a field screening instrument used to pre-screen soil sample locations? Y N
- 4. Was the DNR notified of suspected or obvious contamination? Y N
- Agency, office and person contacted: _____
- 5. Contamination suspected because of: Odor Soil Staining Free Product Sheen on Groundwater Field Instrument Test

G. Form ERS-7437 or ERS-8731 filed by owner with the Dept. of Commerce indicating closure. Yes No

H. NOTE SPECIFIC CLOSURE PROBLEMS OR CONCERNS BELOW

TANK FOUND DURING UTILITY CONSTRUCTION, WAS UNKNOWN
No Contamination, Site Clean

I. REMOVER/CLEANER INFORMATION

JESSE F ROSE _____ JAMES A ROSE _____ 41240 _____ 5-11-07
Remover Name (print) Remover Signature Remover Certification No. Date Signed

I certify that the procedures and information that I have provided as the tank closure contractor are correct and comply with Comm 10.

J. INSPECTOR INFORMATION

Shelly Becker _____ Shelly Becker _____ 921191 _____ 190 _____
Inspector Name (print) Inspector Signature Inspector Cert # LPO Agency #
FDID # For Location Where Inspection Performed: #10501 Inspector Telephone Number: 920-329-8760 Date Signed: 5/11/07

SMITTY'S SALVAGE & SUPPLY, INC.

2325 Main St. Phone 468-7715
GREEN BAY, WISCONSIN 54311
Hours: Mon to Fri 8:00 a.m. - 4:30 p.m.

Date 5/11, 2007 NO. _____

LOAD OF _____

FROM 42 Blk 24th

REMARKS: _____

POUNDS	MATERIAL	PRICE	AMOUNT
5540	Torching Tank		

13800
82600

5540

LBS. GROSS _____
LBS. TARE - Driver: On 2 Off _____
LBS. NET - PRICE \$ _____
AMOUNT \$ _____
WEIGHER _____

SHIPPING DOCUMENT		1. Generator ID Number NONE REQUIRED	2. Page 1 of 1	3. Emergency Response Phone 1-800-526-6066	4. Shipping Document Tracking Number ZZ 00009246	
5. Generator's Name and Mailing Address WISC DOT/BOE-CLAUDE ALLOUEZ BR PO BOX 7986 ROOM 451 ATTN SHAR TEBEST MADISON, WI 53707		Generator's Site Address (if different than mailing address) WISC DOT/BOE-CLAUDE ALLOUEZ BR GEORGE ST OVER THE FOX RIVER PROJECT ID# 4190-10-71 DEPERE, WI 54115		Generator's Phone: 608-406-0139		
6. Transporter 1 Company Name VEOLIA ES TECHNICAL SOLUTIONS		U.S. EPA ID Number NJ0080531389		7. Transporter 2 Company Name		
8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS W124 N9451 BOUNDARY RD.		U.S. EPA ID Number		Facility's Phone: 262-255-0855 MENOMONEE FALLS, WI 53051		
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Codes
	1. NON-REGULATED MATERIAL, NON-RCRA, NON-DOT (FUEL OIL, WATER), NONE, NONE	No.	Type			NONE
	2.	007	DM	00385	G	
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1) W:7647 A:OWDFUELS + INFOTRAC ACCOUNT #88072, LTL.						
15. GENERATOR S/OFFEROR S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offeror's Printed/Typed Name CHARLES N REED		Signature <i>[Signature]</i>		Month Day Year 10/24/07		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Shipment						
Transporter 1 Printed/Typed Name Charles N Reed		Signature <i>[Signature]</i>		Month Day Year 10/24/07		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator)		Shipping Document Tracking Number: _____ U.S. EPA ID Number				
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
1.	H141					
20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a						
Printed/Typed Name ROBERT L. KANN JR.		Signature <i>[Signature]</i>		Month Day Year 10/30/07		

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY

Wisconsin Department of Transportation
STS Project No. 200702486

Appendix B

Photo Log



Photo 1: Initial Excavation - view looking northwest.



Photo 2: Exposing top of UST - view looking east.



Photo 3: Final Cleaning of UST top - view looking east.



Photo 4: Piping Removal (vent pipe and fill pipe) - view looking west.



Photo 5: Top of UST exposed - view looking west.



Photo 6: UST atmosphere monitoring prior to cutting – view looking west-southwest.



Photo 7: Cutting UST open using Sawzall - view looking west.



Photo 8: UST following opening by backhoe - view looking west.



Photo 9: Interior of UST. Sludge and liquid in bottom of UST prior to vacuum cleaning - view looking west.



Photo 10: ESP personnel cleaning UST with vacuum truck - view looking east.

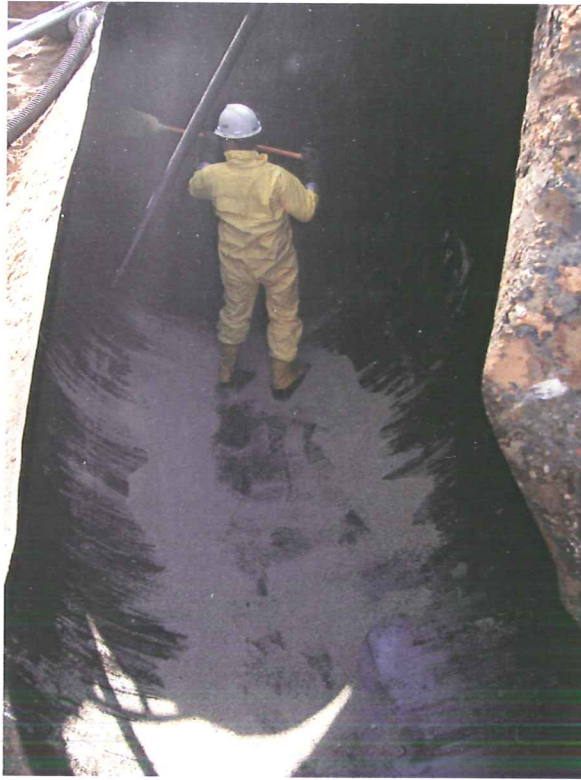


Photo 11: Final UST cleaning using oil absorbent material - view looking east.



Photo 12: UST ready to remove - view looking northwest.



Photo 13: UST removal - view looking northwest.



Photo 14: UST removal (continued) – view looking northwest.



Photo 15: UST removed from ground - view looking northeast.



Photo 16: UST ready to load for disposal - view looking southwest.



Photo 17: West end and center of excavation - view looking west.



Photo 18: East end of excavation - view looking northeast.

Wisconsin Department of Transportation
STS Project No. 200702486

Appendix C

Laboratory Analytical Report



1241 Bellevue Street, Suite 9
 Green Bay, WI 54302
 920-469-2436, Fax: 920-469-8827

Analytical Report Number: 883686

Client: STS CONSULTANTS

Lab Contact: Eric Bullock

Project Name: WDOT-CAB

Project Number: 200702486

Lab Sample Number	Field ID	Matrix	Collection Date
883686-001	WEST	SOIL	05/11/07
883686-002	MIDDLE	SOIL	05/11/07
883686-003	EAST	SOIL	05/11/07

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



[Handwritten Signature]
 Approval Signature

5/17/07
 Date

**Pace Analytical
Services, Inc.**

Analytical Report Number: 883686

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : STS CONSULTANTS

Project Name : WDOT-CAB

Project Number : 200702486

Field ID : WEST

Matrix Type : SOIL

Collection Date : 05/11/07

Report Date : 05/17/07

Lab Sample Number : 883686-001

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	85.6				1	%		05/14/07	SM M2540G	SM M2540G

DIESEL RANGE ORGANICS

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method	Prep Date: 05/15/07
Diesel Range Organics	< 4.4			4.4	1	mg/kg		05/16/07	WI MOD DRO	WI MOD DRO	

**Pace Analytical
Services, Inc.**

Analytical Report Number: 883686

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : STS CONSULTANTS

Project Name : WDOT-CAB

Project Number : 200702486

Field ID : MIDDLE

Matrix Type : SOIL

Collection Date : 05/11/07

Report Date : 05/17/07

Lab Sample Number : 883686-002

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	92.7				1	%		05/14/07	SM M2540G	SM M2540G

DIESEL RANGE ORGANICS

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	39			4.3	1	mg/kg		05/16/07	WI MOD DRO	WI MOD DRO

Prep Date: 05/15/07

**Pace Analytical
Services, Inc.**

Analytical Report Number: 883686

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client: STS CONSULTANTS

Project Name: WDOT-CAB

Project Number: 200702486

Field ID: EAST

Matrix Type: SOIL

Collection Date: 05/11/07

Report Date: 05/17/07

Lab Sample Number: 883686-003

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	93.3				1	%		05/14/07	SM M2540G	SM M2540G

DIESEL RANGE ORGANICS

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	12			3.6	1	mg/kg		05/16/07	WI MOD DRO	WI MOD DRO

Prep Date: 05/15/07

Lab Number	TestGroupID	Field ID	Comment
883686-002	DRO-S	MIDDLE	Late eluting hump along with diesel range peaks were present in the chromatogram.
883686-003	DRO-S	EAST	Late eluting hump along with diesel range peaks were present in the chromatogram.

Qualifier Codes

Flag Applies To Explanation

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the check standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level; therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

Test Group Name	883686-001	883686-002	883686-003
DIESEL RANGE ORGANICS	B	B	B
PERCENT SOLIDS	B	B	B

Code	WI Certification
B	405132750 / DATCP: 105-444

Pace Analytical Services, Inc.

QC Summary

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
Fax: 920-469-8827

Batch: 883686
Lab Section: DIESEL
QC Batch Number: 20665
Prep Method: WI MOD DRO
Analytical Method: WI MOD DRO

QC Type	Client Sample ID	Lab Sample ID
MB	SD2206-003MB	SD2206-003MB
LCS	SD2206-003MBLCS	SD2206-003MBLCS
LCSD	SD2206-003MBLCSD	SD2206-003MBLCSD

Client Sample ID WEST EAST
Lab Sample ID 883686-001 883686-003
MB MB MB
Client Sample ID MIDDLE
Lab Sample ID 883686-002
MB ID MB

Test Name	Method Blank Result Conc	LCS Spiked Conc	LCS Recovery		LCS Spiked Conc	LCS/LCSD Control Limits			LCS/LCSD RPD %	Parent Sample Number	Parent Result Conc	MS Spiked Conc		MS Recovery Conc		MSD Spiked Conc	MSD Recovery Conc		MS/MSD RPD %		MS/MSD Control Limits	
			Conc	%		LCL	UCL	RPD				%	%	%	Conc		%	Conc	%	LCL	UCL	RPD
Diesel Range Organics	< 1.7	50.0	40.6	81	50.0	1.6	70	120	20	---	---	---	---	---	---	---	---	---	---	---	---	---

Conc = mg/kg unless otherwise noted
C = QC Code, see Qualifier Sheet
Parent Result is reported down to MDL in order to allow Validation of this worksheet
The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 5/17/2007
QC Batch Number: 20665
Page 8



Sample Condition Upon Receipt

Client Name: STS Project # 883686

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____



Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature ROT

Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: 5-1-07 CS 05/11/07

Temp should be above freezing to 6°C

Comments:

Table with 16 rows of inspection items and checkboxes. Items include Chain of Custody Present, Chain of Custody Filled Out, Chain of Custody Relinquished, Sampler Name & Signature on COC, Samples Arrived within Hold Time, Short Hold Time Analysis (<72hr), Rush Turn Around Time Requested, Sufficient Volume, Correct Containers Used, Containers Intact, Filtered volume received for Dissolved tests, Sample Labels match COC, All containers needing preservation have been checked, All containers needing preservation are found to be in compliance with EPA recommendation, exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Samples checked for dechlorination, Headspace in VOA Vials (>6mm), Trip Blank Present, Trip Blank Custody Seals Present, Pace Trip Blank Lot # (if purchased).

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Blank lines for additional notes or comments.

Project Manager Review: SB 5/1/07 Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

(Please Print Clearly)



CHAIN OF CUSTODY

A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

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 COC No. 021252

Company Name: **STS**
 Branch/Location: **Green Bay**
 Project Contact: **Paul Gaver**
 Phone: **406-3139**
 Project Number: **200702486**
 Project Name: **UDOT-CAB**
 Project State: **WI**
 Sampled By (Print): **John Lusk**
 Sampled By (Sign): *[Signature]*
 PO #: **Regulatory**
 Program:

Data Package Options
 (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air
 B = Biota
 C = Charcoal
 O = Oil
 S = Soil
 SI = Sludge
 W = Water
 DW = Drinking Water
 GW = Ground Water
 SW = Surface Water
 WP = Waste Water

Y/N	Pick Letter	ANALYSES REQUESTED
	A	DRO

PAGE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	ANALYSES REQUESTED	DATE	TIME	DATE	TIME	DATE	TIME
		DATE	TIME								
001	West	5/11/07	A.M.	Soil	✓						
002	Middle				✓						
003	East				✓						

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:

Transmit Prelim Rush Results by (complete what you want):
 Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
<i>[Signature]</i>	5/11/07 11:20	<i>[Signature]</i>	5-11-07 11:20
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PAGE Project No. **883686**
 Receipt Temp = **ROT** °C
 Sample Receipt pH **OK / Adjusted**
 Cooler Custody Seal **Present / Not Present**
 Intact / Not Intact