09-411-296142

September 1996

Site Assessment for UST Closure Report

MEE: MO296EPE

Twenty-Seventh Street Elementary School
1312 North 27th Street
Milwaukee, Wisconsin

MICHAELS ENVIRONMENTAL ENGINEERING

MICHAELS ENVIRONMENTAL ENGINEERING INC.

SITE ASSESSMENT FOR UST CLOSURE REPORT

PERFORMED AT:

TWENTY-SEVENTH STREET ELEMENTARY SCHOOL
1312 NORTH 27TH STREET
MILWAUKEE, WISCONSIN 53208

PREPARED FOR:

PATRICK O'DONNELL
HAZARDOUS MATERIALS SUPERVISOR
MILWAUKEE PUBLIC SCHOOLS
1124 NORTH 11TH STREET
MILWAUKEE, WISCONSIN 53233
(414) 283-4626

PREPARED BY:

MICHAELS ENVIRONMENTAL ENGINEERING, INC.
9305 WEST NATIONAL AVENUE
WEST ALLIS, WISCONSIN 53227
(414) 541-0500

MEE PROJECT NO.: M0296EPE

SEPTEMBER 1996

MICHAELS ENVIRONMENTAL ENGINEERING

Prepared by:

Ravi Narayanan

Michaels Environmental Engineering, Inc.
RAVI NARAYANAN
Site Assessor
(DILHR Site Assessment Certification #03115)

10/1/96
DATE

SUMMARY

A Site Assessment for Underground Storage Tank Closure was conducted on August 15, 1996, for a former fuel oil underground storage tank (UST) system located at Twenty-Seventh Street Elementary School, 1312 North 27th Street, Milwaukee, Wisconsin.

The 10,000-gallon tank and associated piping were used to store fuel oil for heating purposes. The tank installation date is not known. On August 16, 1996, North Star Environmental closed the UST system in place. Michaels Environmental Engineering completed the Site Assessment including soil sampling.

The Site Assessment results are summarized below:

- Three soil samples were collected from soil below the previous tank, one sample was collected below the fill pipe, and one was collected under the associated piping. Diesel Range Organics (DRO) results range from <1.4 to 4.1 parts per million (ppm), which is below the 10 ppm guideline of the Wisconsin Department of Natural Resources.

- The analytical results indicate that the former UST system did not leak fuel oil to the environment. Therefore, no investigation or remediation appears warranted for this former UST system.

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A. SITE BACKGROUND INFORMATION

A Site Assessment for Underground Storage Tank Closure was conducted on August 15, 1996, to determine if a fuel oil release may have occurred from an underground storage tank (UST) system closed at:

Twenty-Seventh Street Elementary School (Site)
1312 North 27th Street
Milwaukee, Wisconsin 53208

Milwaukee Public Schools (Owner) operates the Twenty-Seventh Street Elementary School. The contact for the Site is:

Patrick O'Donnell
Hazardous Materials Supervisor
Milwaukee Public Schools
1124 North 11th Street
Milwaukee, Wisconsin 53233
(414) 283-4626

The Site is located in the SW ¼ of the SW ¼ of Section 19, Township 7 N, Range 21 E, in Milwaukee County (USGS, 1971). Figure 1 shows the location of the Site. Figure 2 shows the overall Site plan, and Figure 3 shows a sampling location map. The Site is located in a residential setting. Present use of the Site is for an elementary school.

The former UST system consisted of one 10,000-gallon fuel oil UST of bare steel construction, and approximately 10 feet of fuel oil supply and return piping which extended into the building. The UST system was used to store fuel oil for heating purposes. The installation date for the UST system is not known.

The Site has an elevation of approximately 680 feet above mean sea level (USGS, 1971). The water table is estimated to be at 75 to 85 feet depth.

B. TANK ACTIVITIES

On August 16, 1996, Michaels Environmental Engineering (MEE) completed the Site Assessment for Underground Storage Tank Closure. The Site Assessment field work was performed by Ravi Narayanan of MEE, Department of Industry, Labor and Human Relations (DILHR) Site Assessor certification number 03115. The Site Assessment was conducted in accordance with current technical guidance of Wisconsin Department of Natural Resources (WDNR, 1993a).

The UST system was removed on August 16, 1996, by North Star Environmental, Chetek, Wisconsin, DILHR Remover/Cleaner certification number 05630, phone number (715) 237-3005. The following removal activities were completed:

- The manhole cover was removed from the tank and an explosimeter was used to verify that the lower explosive limit (LEL) in the tanks was less than 10 percent prior to entering the tank,
- The tank was removed from the excavation,
- A hole was cut into the tank for cleaning,
- The tank was cleaned,
- The steel tank was labeled and transported from the Site in one piece.

The removal was witnessed by Timothy Temperly, Construction Inspector, Department of Building Inspection, City of Milwaukee.

Appendix A contains the ILHR 10 Notification Record, Checklist for Underground Tank Closure, and Underground Petroleum Product Tank Inventory.

C. TANK CLEANING AND DISPOSAL

After removal of the tank, the tank was cleaned by scraping out the residual fuel oil and sludge. The steel tank was not cut up on Site. The tank was transported from the Site by North Star Environmental to Salvage Specialists, Inc., Waterford, Wisconsin for recycling. Appendix B contains the tank disposal record.

D. SURPLUS PRODUCT MANAGEMENT

No surplus product was present in the tank prior to removal, however, National Tank Service of West Allis, Wisconsin, pumped out and disposed of 6,000 gallons of water from the tank prior to removal.

E. TANK SLUDGE MANAGEMENT

Approximately 55 gallons of residual fuel oil and sludge was scraped from the tank into a 55-gallon drum. The drum of residual fuel oil and sludge was removed from the Site by J.B. Hunt Special Commodities, Inc., for disposal by fuel blending at WRR Environmental Services Company, Inc., Eau Claire, Wisconsin. Appendix B contains a waste hauling record.

F. VISUAL INSPECTION

The weather conditions on the day of the UST system closure and the Site Assessment were sunny and 70°F.

The 10,000-gallon tank is 21 feet long by 9 feet in diameter. The top of the tank was buried approximately 3 feet below grade. A concrete collar approximately 2 feet thick, located around the top of the tank, served to hold the tank in place. Fuel oil was supplied to the boiler system by two 1-1/4-inch galvanized steel supply-and-return piping.

Inspection of the tank and piping indicated the UST system was in good condition with no visible holes. No staining or petroleum odors were observed in the soil samples collected.

Soil encountered in the excavation consisted of silt. The water table is estimated to be at 75 to 85 feet depth.

I. REFERENCES

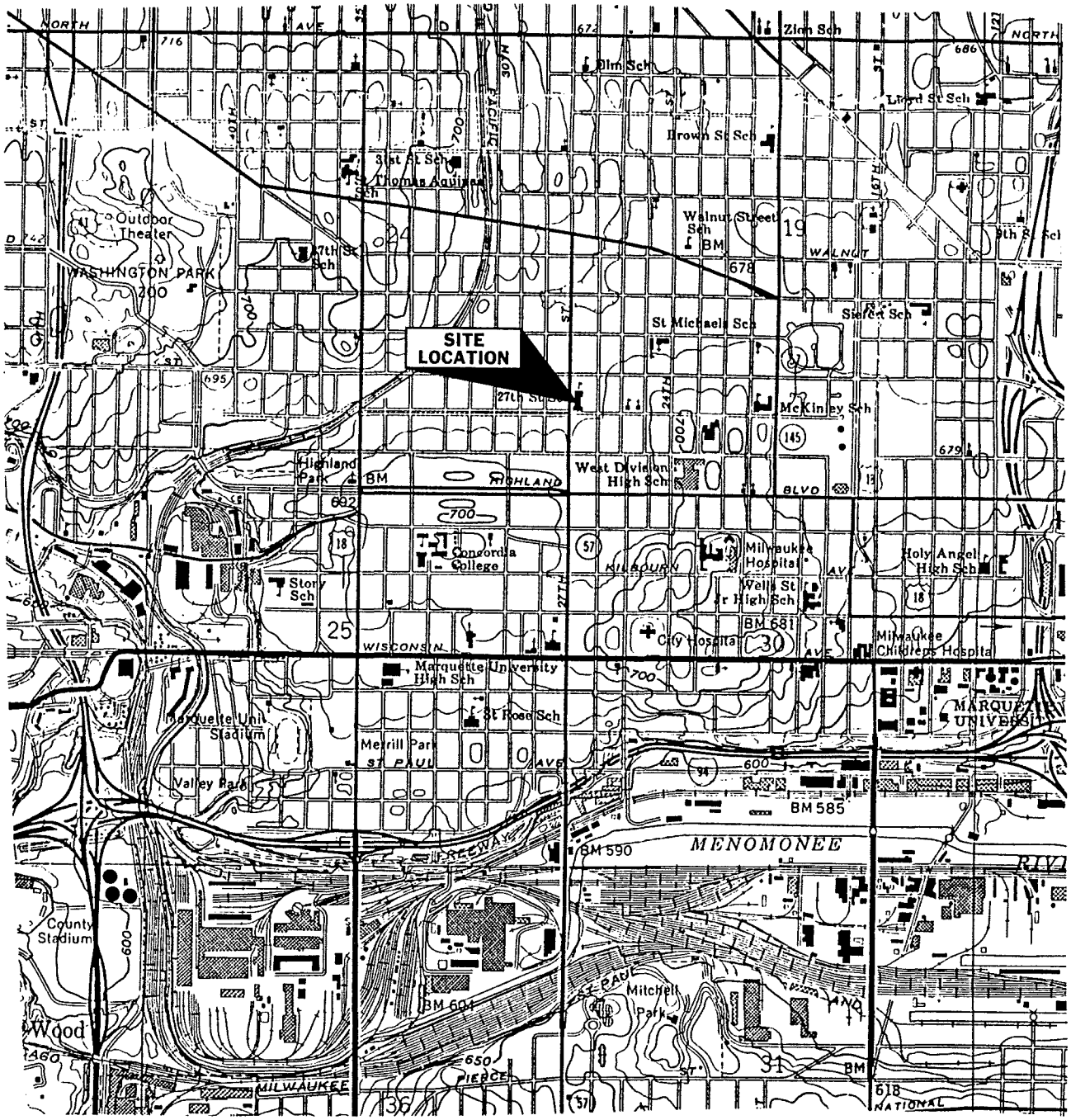
U.S. Geological Survey, 1971. "Milwaukee Quadrangle," 7.5 Minute Series (topographic map).

Wisconsin Department of Natural Resources, 1993a. "Site Assessments for Underground Storage Tanks Technical Guidance", PUBL-SW-175-93, June 1993, as revised.

Wisconsin Department of Natural Resources, 1993b. "Leaking Underground Storage Tank (LUST) and Petroleum Analytical and Quality Assurance Guidance.", PUBL-SW-130-93, July 1993.

O:\ENV\PROJECTS.ENV\MPS.M02\M0296EPE\USTREPOR\REPORT.DOC

FIGURES



SCALE 1:24 000

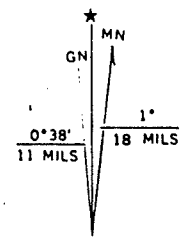
1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET--DATUM IS 578 FEET

QUADRANGLE LOCATION



MILWAUKEE, WIS.

SW/4 MILWAUKEE 15' QUADRANGLE

43087-A8-TF-024

1958

PHOTOREVISED 1971

MICHAELS ENVIRONMENTAL ENGINEERING INC.

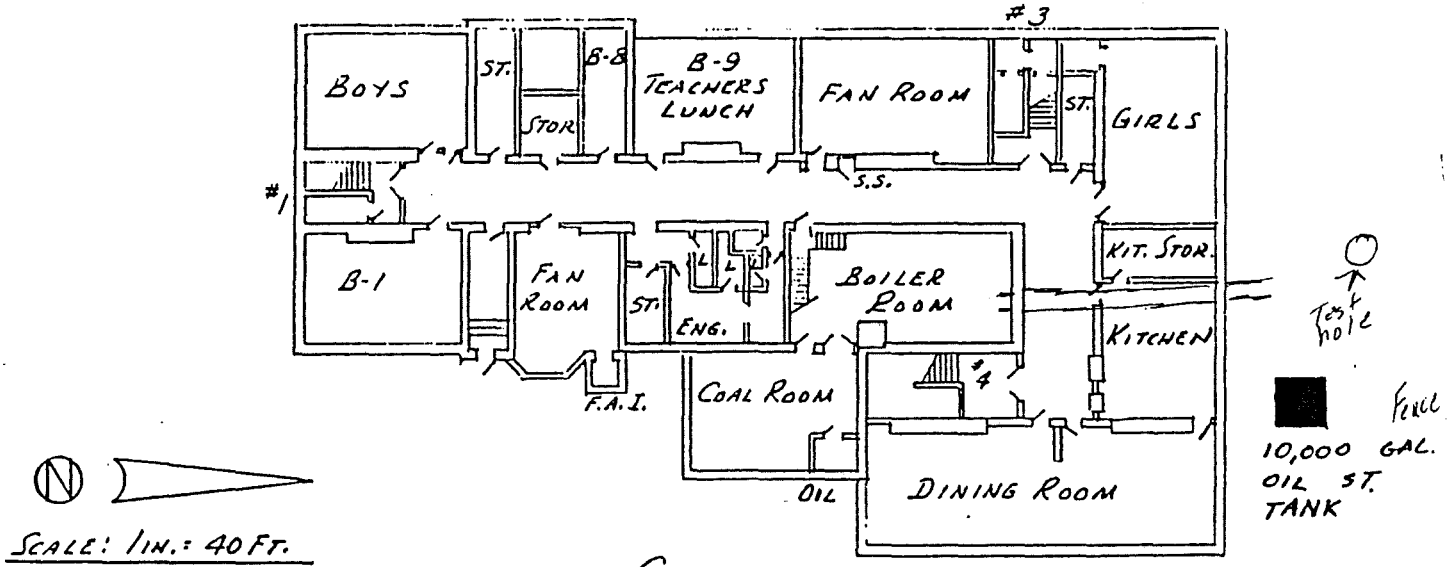
Site Location Map
27th Street Elementary School
1312 North 27th Street
Milwaukee, Wisconsin 53208

27TH ST. SCHOOL

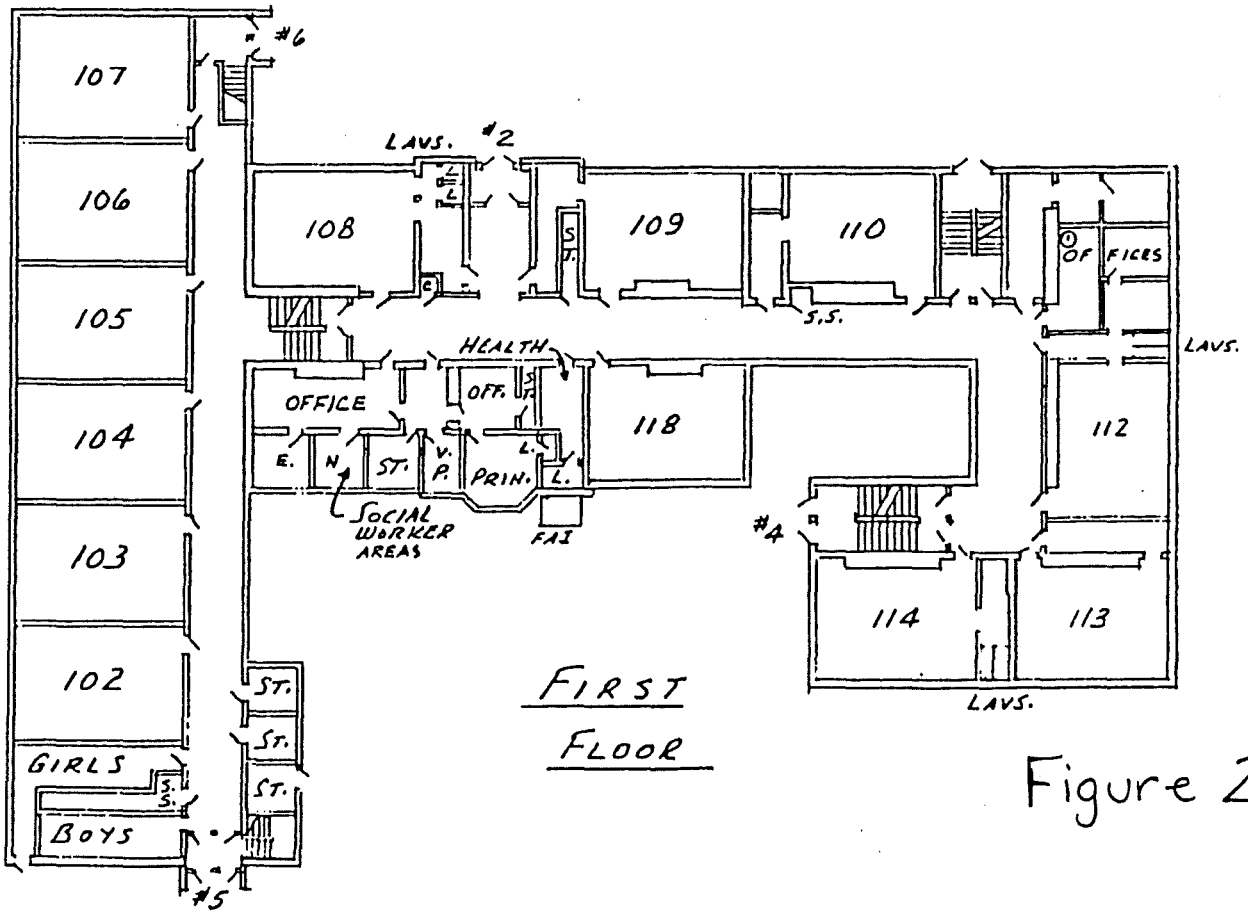
1312 NORTH 27TH ST.

16 FEBRUARY 1972
REVISED: 12/1/76 · J.R.C.

REPAIR DIVISION M.P.S.



GROUND FLOOR

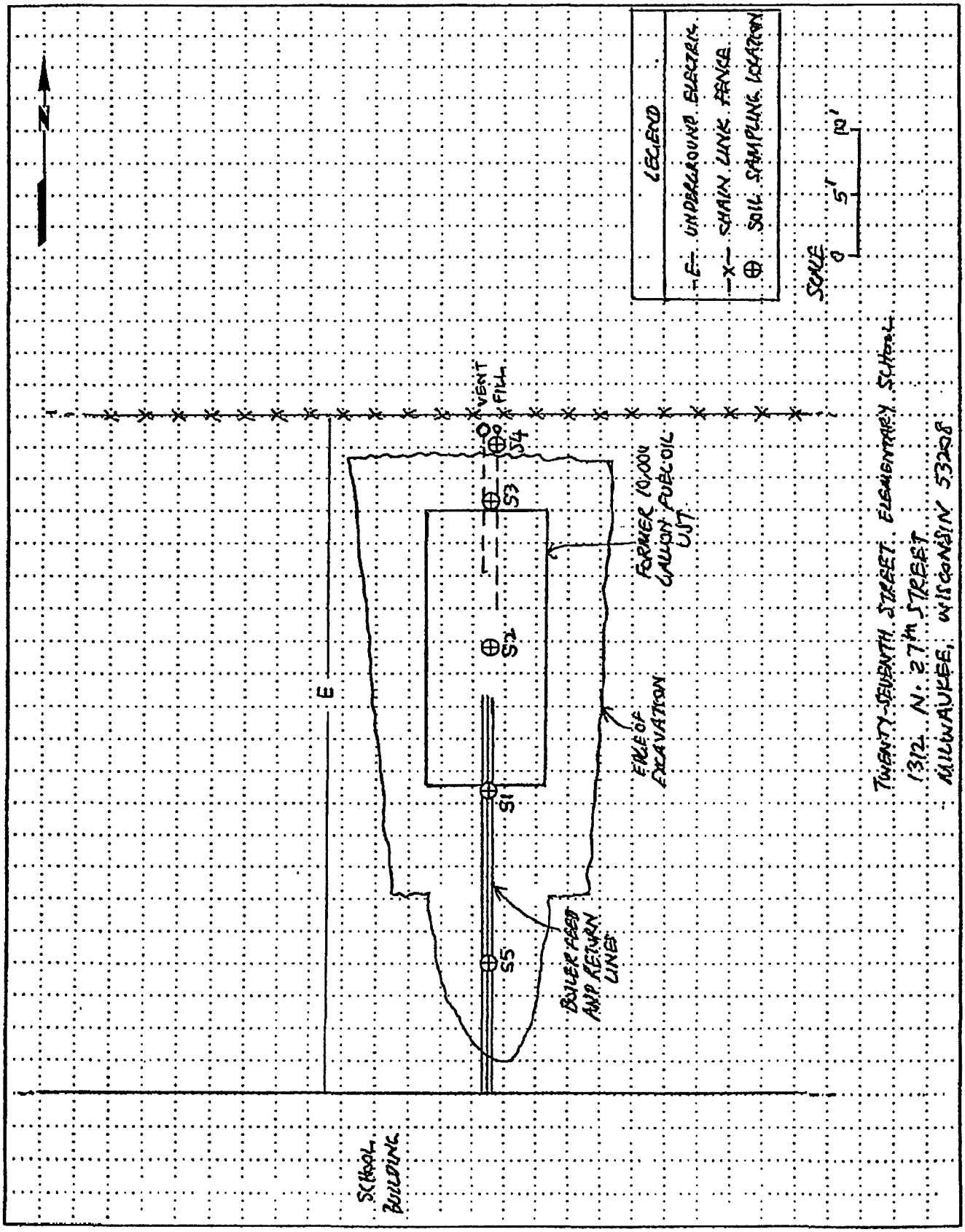


FIRST FLOOR

Figure 2

MICHAELS ENVIRONMENTAL ENGINEERING
La Crosse - Milwaukee

PROJECT NAME	PROJECT NO. M0296EPB	PAGE NO.
DESCRIPTION	BY RIN	DATE Aug 1996
	FIGURE 3	



TABLE

TABLE 1. SOIL SAMPLING RESULTS - 10,000 GALLON UST SYSTEM

Twenty-Seventh Street Elementary School
September 1996

Sample #	Location	Depth (ft)	Soil Description	Field Screening PID Units)	DRO (ppm)	Observations	Date
S1	south end below tank	14 (2 feet below tank)	silt	0	4.1	no petroleum odor	8/16/96
S2	center below tank	14 (2 feet below thank)	silt	0	<1.4	no petroleum odor	8/16/96
S3	north end below tank	16 (2 feet below tank)	silt	0	2.0	no petroleum odor	8/16/96
S4	below fill pipe	5 feet below piping	silt	0	2.3	no petroleum odor	8/16/96
S5	below feed line	4 feet below piping	silt	0	<1.4	no petroleum odor	8/16/96

APPENDIX A

CHECKLIST FOR UNDERGROUND TANK CLOSURE

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Wisconsin Department of Industry, Labor and Human Relations

Complete one form for each site closure.

CHECKLIST FOR UNDERGROUND TANK CLOSURE

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

RETURN COMPLETED CHECKLIST TO:
Safety & Buildings Division
Fire Prevention & Underground Storage Tank Section
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: 27th Street School
2. Owner Name: Milwaukee Public Schools

Site Street Address (not P.O. Box): 1312 N. 27th St.
Owner Street Address: 1124 North 11th St

☒ City ☐ Village ☐ Town of: Milwaukee
☐ City ☐ Village ☐ Town of: Milwaukee — State: WI — Zip Code: 53233

State: WI — Zip Code: 53208 — County: Milwaukee
County: Milwaukee — Telephone No. (include area code): (414) 283-4626

3. Closure Company Name (Print): Advanced Tank Service, Inc.
Closure Company Street Address: P.O. Box 1072
Closure Company Telephone No. (include area code): (715) 831 8484
Closure Company City, State, Zip Code: Eau Claire, WI 54702

4. Name of Company Performing Closure Assessment: Michaels Environmental Engg. Inc.
Assessment Company Street Address, City, State, Zip Code: 9305 W. National Avenue, West Allis, WI 53227

Telephone # (include area code): (414) 541-0500
Certified Assessor Name (Print): Ravi Narayanan
Assessor Signature: [signature]
Assessor Certification No.: 03115

Tank ID #	Closure	Temp. Closure	Closure In Place	Tank Capacity	Contents *	Closure Assessment
1. 402002852	☒	☐	☐	10,000	04	☒ Y ☐ N
2.	☐	☐	☐			☐ Y ☐ N
3.	☐	☐	☐			☐ Y ☐ N
4.	☐	☐	☐			☐ Y ☐ N
5.	☐	☐	☐			☐ Y ☐ N
6.	☐	☐	☐			☐ Y ☐ 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.

	Remover Verified	Inspector Verified	NA
B. 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. **NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR.**	☒ Y ☐ N	☐	☐
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	☐	☐
10. Tank cleaned before being removed being removed from site.	☒ Y ☐ N	☐	☐

- CONTINUE ON NEXT PAGE -

C. 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 th " in uppermost part of tank) installed prior to moving the tank from site.	☐ Y ☐ N	☐	☒
13. Inventory form filed by owner with Safety and Buildings Division 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 INDUSTRY, LABOR AND HUMAN RELATIONS OR LOCAL AGENT.

1. Product from piping drained into tank (or other container).			
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 Safety and Buildings Division 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

☐ 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 (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
Mike Olson	Mike Olson	D5692	8/16/96

I. INSPECTOR INFORMATION

Inspector Name (print)	Inspector Signature	Inspector Certification No.
T. Temperly	[illegible]	[illegible]

FDID # For Location Where Inspection Performed	Inspector Telephone Number	Date Signed
City of Milton	286-2590	8/29/96

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 Milwaukee

A. IDENTIFICATION (Please Print)

1. Tank Site Name: 27th Street School
Site Address: 1312 N. 27th St.
Site Telephone Number: ( )
☒ City ☐ Village ☐ Town of: Milwaukee
State: WI
Zip Code: 53208
County: Milwaukee

2. Tank Owner Name: Milwaukee Public Schools
Mailing Address: 1124 N. 11th St.
Telephone Number: 414 383 4626
☒ City ☐ Village ☐ Town of: Milwaukee
State: WI
Zip Code: 53233
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): 10000
6. If more than one tank is located at facility, please provide tank #

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
4. ☐ Fiberglass 6. ☐ Flexible 5. ☐ Other (specify):
☐ CARB #: _____
☐ 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 _____ 14. ☐ Kerosene 15. ☐ Aviation
(Indicate chemical name and number)

* 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): 8/16/96
Has a site assessment been completed (see reverse side for details) ☒ Yes ☐ No

Owner or Operator Name (please print): Gordon Harris
Indicate whether: ☐ Owner or ☒ Operator

Owner or Operator Signature: Gordon Harris
Date Signed: 8-16-96

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

TANK DISPOSAL RECORD

WASTE HAULING RECORD

SALVAGE SPECIALISTS, INC.

518 E. Main Street
Waterford, WI 53185
Shop (414) 425-1312
Office (414) 534-2166
Fax (414) [redacted]

STORAGE TANK(S) RECEIVED

The storage tank(s) listed below have been received by Salvage Specialists, Inc.

The tank(s) have been cleaned and are fume free prior to Salvage Specialists, Inc. taking possession of them.

All tanks received by Salvage Specialists, Inc. are to be destroyed, NOT TO BE SOLD FOR REUSE!

Contractor North Star

Operator Rue

Tank Location: 27th Street Elementary School

Number of Tanks 1

Tanks Were: ___ Cut on site X Picked up ___ Delivered to yard

Trucker: S.S.I.

Number of Fiberglass Lined Tanks 6

Tank Sizes:

1. 10,000 Gal
2.
3.
4.
5.
6.
7.
8.
9.

Tanks Received by (Trucker):

Date:

BILL OF LADING

WRR Environmental Services Co., Inc.

5200 State Road 93, Eau Claire, WI 54701
(715) 834-9624 FAX (715) 836-8785

GENERATOR CLAIMING VERY SMALL QUANTITY

GENERATOR STATUS Michael Jines
(SIGNED)

Date Shipped	Your P.O. No.
8/29/96	63536

All Information must be typed or printed.

1. Generator's Name and Mailing Address Twenty Seventh St. School MILWAUKEE PUBLIC SCHOOLS 1312 N 27TH STREET MILWAUKEE, WI 53208 2. Generator's Phone (414) 541-0500		A. Profile # B. State Generator's ID
3. Transporter 1 Company Name J.B. HUNT SPECIAL COMMODITIES, INC.	4. US EPA ID Number ARD981908551	C. State Transporter's ID 12572 D. Transporter's Phone 800-368-8539
5. Transporter 2 Company Name	6. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
7. Designated Facility Name and Site Address WRR-Environmental Services Co., Inc. 5200 State Road 93 Eau Claire, WI 54701	8. US EPA ID Number WID 990 829 475	G. State Facility's ID H. Facility's Phone 715-834-9624

	9. US DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group)	H.M.	10. Containers No.	Type	11. Total Quantity	12. Unit Wt/Vol	I. Waste No.
a.	WASTE FUEL OIL 3, NA1993, PGIII		001	DM	0250	P	NR
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
A. 96080277-10G243

K. Handling Code for Wastes Listed Above

13. Special Handling Instructions and Additional Information

14. Emergency Phone # 414 541 0500

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations and according to the requirements of the Wisconsin Department of Natural Resources.

Printed/Typed Name & Position Title	Signature	Date (Month Day Year)
Michael Jines Engineer	Michael Jines	08 29 96

16. TRANSPORTER 1 Acknowledgement of Receipt of Materials

Printed/Typed Name & Position Title	Signature	Date (Month Day Year)
Donald Ronnei Driver	Donald Ronnei	08 29 96

17. TRANSPORTER 2 Acknowledgement of Receipt of Materials

Printed/Typed Name & Position Title	Signature	Date (Month Day Year)

18. Discrepancy Indication Space

19. FACILITY OWNER OR OPERATOR: Certification of receipt of hazardous materials covered by this document except as noted in Item 18.

Printed/Typed Name & Position Title	Signature	Date (Month Day Year)
Robert A Kawell Foreman	Robert A Kawell	08 29 96

Form 100

Copy Distribution: 1 — Facility retain 2 — Facility send to Generator 3 — Transporter retain 4 — Generator retain

APPENDIX C

FIELD METHODS AND PROCEDURES

SOIL SAMPLE COLLECTION

Soil samples were collected from beneath the tanks through drill holes using a sample tube.

SOIL FIELD SCREENING

Soil field screening for total organic vapors was performed in accordance with the WDNR (1992) approved head space analytical procedure. Screening was performed using a Thermo Environmental Instruments OVM model # 580B photo-ionization detector (PID) equipped with a 10.6 eV lamp and calibrated for direct reading in parts per million (ppm) as isobutylene. For each screened sample, a clean four-ounce laboratory jar was filled approximately 1/2 full and immediately covered with aluminum foil. The jar was shaken vigorously before and after head space development. Head space development proceeded by allowing the sample to equilibrate five minutes or longer, depending on the ambient outside air temperature. Jars were kept out of direct sunlight. The aluminum foil seal was then pierced with the PID intake probe and the reading was recorded. The PID was calibrated at the beginning of each sampling day, and every four hours thereafter, using a 250 ppm isobutylene standard.

SOIL SAMPLING

At each sampling location, samples considered for laboratory analyses were immediately placed into sample jars upon collection. Soil samples used for field screening purposes were not submitted for laboratory analysis. For DRO analyses, separate 60-milliliter (ml), wide mouth glass vials with Teflon septum were filled with approximately 25 grams of soil. Sample vials were packed with soil until there was minimal head space.

All soil sample jars were immediately placed in an iced, insulated cooler prior to transport to the analytical laboratory. Clean vinyl gloves were worn during soil sampling and were changed for each sampling location. General measures were taken to collect soil samples with as little disturbance and exposure to air as possible.

GUIDANCE

Wisconsin Department of Natural Resources, 1992. "Guidance for Conducting Environmental Response Actions", PUBL-SW-157-92, March 1992.

Wisconsin Department of Natural Resources, 1992. "Leaking Underground Storage Tank Program Field Screening Procedures", PUBL-SW-176-92, September 1992.

Wisconsin Department of Natural Resources, 1993. "Leaking Underground Storage Tank (LUST) and Petroleum Analytical Guidance and Quality Assurance Guidance", PUBL-SW-130-93, July 1993.

APPENDIX D

LABORATORY DATA SHEETS

MVTL LABORATORIES, Inc.

Chain-of-Custody: 21499

THE PEOPLE WE SERVE . . CARE ABOUT THE ENVIRONMENT

Page 1 of 1

140 EAST RYAN ROAD•OAK CREEK•WISCONSIN•53154 •414-764-7005•1-800-422-2195•CLIENT SERVICES 414-768-7460•FAX 414-764-0486

(1) CLIENT: Milw. Public Schools

PROJECT NAME/#: 27th St School

PROJECT MANAGER: Ravi Narayana

SAMPLER: Ravi Narayanan

P.O. # M0296EPE

(3) UST STATE: WI

WPDES
NPDES
RCRA
PECFA
OTHER

LAB USE ONLY

WORK ORDER #:

ACCT # 1196
DATE 8/19/96
TEMP \ NR \ (ROI)
MVTL WORK ORDER #:

(5) MATRIX / (6) ANALYSIS REQUESTED (METHODS & DETECTION LIMITS)

(2) SAMPLE IDENTIFICATION	DATE	TIME	(4) GRAB	COMPOSITE	#OF CONTAINERS	SOIL	GROUND WATER	WASTE	WASTEWATER	OTHER	PRESERVATION TYPE	DRO							(7) REMARKS
(1) S1 (South Bottom, 16')	8/16/96	1000 AM/PM	X		3	X					None	X							12257
(2) S2 (Center, Bottom, 16')	8/16/96	1015 AM/PM	X		3	X					None	X							12259
(3) S3 (North, Bottom, 15')	8/16/96	1110 AM/PM	X		3	X					None	X							12260
(4) S4 (5' below pillpipe)	8/16/96	1115 AM/PM	X		3	X					None	X							12261
(5) S5 (4' below pad liner)	8/16/96	1250 AM/PM	X		3	X					None	X							12262
(6)		AM/PM																	
(7)		AM/PM																	
(8)		AM/PM																	

TURNAROUND TIME IN WORKING DAYS
NORMAL *1 *2 *3 *4 *5 *6 *7 *8 *9 *10
* FOR EXPEDITED TURNAROUND TIME CALL CLIENT SERVICES TO CONFIRM AVAILABILITY AT 414-768-7460
EXPEDITED RESULTS TO BE TRANSMITTED VIA: FAX PHONE
FAX # _____ PHONE # _____

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Ravi Narayan	8/19	810 AM/PM	C. Karshna	8/19	810 AM/PM
C. Karshna	8/19/96	12:00 AM/PM	[illegible]	8/19/96	12:00 AM/PM
[illegible]	8/19/96	12:00 AM/PM	[illegible]		AM/PM
		AM/PM			AM/PM
		AM/PM			AM/PM

DATA PACKAGE OPTIONS AVAILABLE FOR A FEE
(PLEASE CIRCLE IF REQUIRED) PACKAGE A B
SEE BACK FOR COMPLETE PACKAGE DESCRIPTIONS

OTHER SPECIAL INSTRUCTIONS: Invoice: Pat O'Donnell
MPS, 1124 N. 11th ST. Milw, WI 53233
Copy N Ravi

IN CASE WE HAVE QUESTIONS WHEN SAMPLES ARRIVE, MVTL LABORATORIES, INC. SHOULD CALL:
NAME: Ravi Narayanan PHONE # 541-0180
SEND REPORTS TO Ravi Narayana

MVTL LABORATORIES, Inc.
140 E. Ryan Road, Oak Creek, WI 53154-4599
414-764-7005 • FAX 414-764-0486 • 1-800-422-2195
WE ARE AN EQUAL OPPORTUNITY EMPLOYER

MEMBER ACIL

Printed On: 08/26/96

Final Report

Date of Report: 08/26/96
Project Number: 00250798
Lab ID: 96-0012257
Lab Matrix: sl
Account Number: 1196-30164
Date Collected: 08/16/96 10:00
Collected By: Client
Date Received: 08/19/96 12:00
C of C Number: 21499
Temperature: Received on Ice.

Attention: Ravi Narayanan
Michael's Engineering-West Allis
9305 West National Avenue
West Allis WI 53227

Sample Desc: S1/(South Bottom, 14')/Soil 27th Street School/M0296EPE Milwaukee Public Schools
Container Integrity: Meets Standard, Sample Integrity: Meets Standard

	Wet Result	Dry Result	Unit	MDL	PQL	Procedure	Test Date
INORGANIC							
DUST							
% moisture	30		%	0.16	0.10	SW 5030	08/20/96
ORGANIC							
DUST							
Diesel Range Organics	2.9 J	4.1	mg/kg	1.4	5.7	WIMODDRO	08/21/96

Approved By:
Signatory

All soil and water samples will be disposed of by MVTL 60 days following date of receipt.
All waste samples (non-water, non-soil) will be returned 60 days following date of receipt.
N/T = Not Tested, N/A = Not Applicable, N/D = Not Detected
D = Detected below the PQL. J = Estimated below the PQL
Elevated Detection Limits:
@ = Due to matrix interference. # = Due to sample concentration.
$ = Due to sample quantity. + = Due to extract volume.

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

MVTL LABORATORIES, Inc.
140 E. Ryan Road, Oak Creek, WI 53154-4599
414-764-7005 • FAX 414-764-0486 • 1-800-422-2195
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MEMBER ACIL

Printed On: 08/26/96

Final Report

Date of Report: 08/26/96
Project Number: 00250798
Lab ID: 96-0012259
Lab Matrix: sl
Account Number: 1196-30164
Date Collected: 08/16/96 10:15
Collected By: Client
Date Received: 08/19/96 12:00
C of C Number: 21499
Temperature: Received on Ice.

tention: Ravi Narayanan
Michael's Engineering-West Allis
9305 West National Avenue
West Allis WI 53227

Sample Desc: S2/(Center Bottom, 14')/Soil 27th Street School/M0296EPE Milwaukee Public Schools
Container Integrity: Meets Standard, Sample Integrity: Meets Standard

	Wet Result	Dry Result	Unit	MDL	PQL	Procedure	Test Date
INORGANIC							
UST							
% moisture	30		%	0.14	0.10	SW 5030	08/20/96
ORGANIC							
UST							
Diesel Range Organics	<1.0	<1.4	mg/kg	1.4	5.7	WIMODDRO	08/21/96

Approved By:
Signatory

All soil and water samples will be disposed of by MVTL 60 days following date of receipt.
All waste samples (non-water, non-soil) will be returned 60 days following date of receipt.
N/T = Not Tested, N/A = Not Applicable, N/D = Not Detected
D = Detected below the PQL. J = Estimated below the PQL
Elevated Detection Limits:
@ = Due to matrix interference. # = Due to sample concentration.
$ = Due to sample quantity. + = Due to extract volume.

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Printed On: 08/26/96

Final Report

Date of Report: 08/26/96
Project Number: 00250798
Lab ID: 96-0012260
Lab Matrix: sl
Account Number: 1196-30164
Date Collected: 08/16/96 11:00
Collected By: Client
Date Received: 08/19/96 12:00
C of C Number: 21499
Temperature: Received on Ice.

:tention: Ravi Narayanan
Michael's Engineering-West Allis
9305 West National Avenue
West Allis WI 53227

Sample Desc: S3/(North Bottom, 15')/Soil 27th Street School/M0296EPE Milwaukee Public Schools
Container Integrity: Meets Standard, Sample Integrity: Meets Standard

	Wet Result	Dry Result	Unit	MDL	PQL	Procedure	Test Date
INORGANIC							
;UST							
% moisture	26		%	0.14	0.10	SW 5030	08/20/96
ORGANIC							
'UST							
Diesel Range Organics	1.5 J	2.0	mg/kg	1.4	5.4	WIMODDRO	08/21/96

Approved By:
Signatory

All soil and water samples will be disposed of by MVTL 60 days following date of receipt.
All waste samples (non-water, non-soil) will be returned 60 days following date of receipt.
N/T = Not Tested, N/A = Not Applicable, N/D = Not Detected
D = Detected below the PQL. J = Estimated below the PQL
Elevated Detection Limits:
@ = Due to matrix interference. # = Due to sample concentration.
$ = Due to sample quantity. + = Due to extract volume.

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WE ARE AN EQUAL OPPORTUNITY EMPLOYER

Printed On: 08/26/96

Final Report

Date of Report: 08/26/96
Project Number: 00250798
Lab ID: 96-0012262
Lab Matrix: sl
Account Number: 1196-30164
Date Collected: 08/16/96 12:00
Collected By: Client
Date Received: 08/19/96 12:00
C of C Number: 21499
Temperature: Received on Ice.

Attention: Ravi Narayanan
Michael's Engineering-West Allis
9305 West National Avenue
West Allis WI 53227

Sample Desc: S5/(4' below feed line)/Soil 27th Street School/M0296EPE Milwaukee Public Schools
Container Integrity: Meets Standard, Sample Integrity: Meets Standard

	Wet Result	Dry Result	Unit	MDL	PQL	Procedure	Test Date
INORGANIC							
DUST							
% moisture	29		%	0.14	0.10	SW 5030	08/20/96
ORGANIC							
DUST							
Diesel Range Organics	<1.0	<1.4	mg/kg	1.4	5.6	WIMODDRO	08/21/96

Approved By:
Signatory

All soil and water samples will be disposed of by MVTL 60 days following date of receipt.
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N/T = Not Tested, N/A = Not Applicable, N/D = Not Detected
D = Detected below the PQL. J = Estimated below the PQL
Elevated Detection Limits:
@ = Due to matrix interference. # = Due to sample concentration.
$ = Due to sample quantity. + = Due to extract volume.

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Printed On: 08/26/96

Final Report

Date of Report: 08/26/96
Project Number: 00250798
Lab ID: 96-0012261
Lab Matrix: sl
Account Number: 1196-30164
Date Collected: 08/16/96 11:15
Collected By: Client
Date Received: 08/19/96 12:00
C of C Number: 21499
Temperature: Received on Ice.

Attention: Ravi Narayanan
Michael's Engineering-West Allis
9305 West National Avenue
West Allis WI 53227

mple Desc: S4/(5' Below fill Pipe)/Soil 27th Street School/M0296EPE Milwaukee Public Schools
Container Integrity: Meets Standard, Sample Integrity: Meets Standard

	Wet Result	Dry Result	Unit	MDL	PQL	Procedure	Test Date
INORGANIC							
UST							
% moisture	27		%	0.14	0.10	SW 5030	08/20/96
ORGANIC							
UST							
Diesel Range Organics	1.7 J	2.3	mg/kg	1.4	5.5	WIMODDRO	08/21/96

Approved By:
Signatory

All soil and water samples will be disposed of by MVTL 60 days following date of receipt.
All waste samples (non-water, non-soil) will be returned 60 days following date of receipt.
N/T = Not Tested, N/A = Not Applicable, N/D = Not Detected
D = Detected below the PQL. J = Estimated below the PQL
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