

**LIMITED ENVIRONMENTAL SITE ASSESSMENT
UNDERGROUND STORAGE TANK REMOVAL**

Mews Company

City of Milwaukee Property
1836 South 3rd Street
Milwaukee, Wisconsin

Summit Project No. 951561

Prepared By:

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December 18, 1995

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**LIMITED ENVIRONMENTAL SITE ASSESSMENT
UNDERGROUND STORAGE TANK REMOVAL**

MEWS COMPANIES

**CITY OF MILWAUKEE PROPERTY
1836 SOUTH 3RD STREET
MILWAUKEE, WISCONSIN**

SUMMIT PROJECT NO. 951561

1.0 EXECUTIVE SUMMARY

Summit Envirosolutions, Inc. has completed a limited environmental site assessment associated with the removal of an underground storage tank at the subject property. During the removal of the underground storage tank, petroleum hydrocarbon impacts were observed within the backfill and native soil surrounding the underground storage tank system.

Soil observed during the underground storage tank removal consisted of brown, stiff, silty clay. Impacts to groundwater resources were not observed. During the removal, a wooden drain tile was uncovered at the northeast corner of the underground storage tank basin. The tile contained fluid that appeared to be waste oil or heating oil. The source of the oil and extent of soil impacts resulting from the drain tile are unknown at this time. Based on the results of the excavation and the limited assessment performed at the site, it appears that additional assessment is warranted.

2.0 INTRODUCTION

2.1 Purpose and Scope

The purpose of this limited environmental site assessment was to observe the removal of one 10,000-gallon capacity underground storage tank (UST) and to assess the extent of potential hydrocarbon impacts to site soil and groundwater. Summit Envirosolutions, Inc. (Summit) was authorized to conduct this assessment by Mr. Troy Mews of Mews Companies, the construction company hired by the City of Milwaukee to raze a building. Summit field activities were performed based on the State of Wisconsin Department of Natural Resources (WDNR) and Department of Industry, Labor and Human Relations (DILHR) underground storage tank guidelines.

The scope of services completed for this project consisted of the following:

- Prepared a project work plan;
- Observed the excavation and removal of one 10,000-gallon capacity UST;
- Screened select soil samples for the presence of volatile organic vapors with a photoionization detector (PID);
- Collected soil samples for laboratory analysis;
- Documented the disposal of the UST and tank sludge; and
- Prepared this report presenting our results, conclusions, and recommendations.

2.2 Preliminary Background Information

The subject property is currently owned by the City of Milwaukee. Information provided to Summit by Mr. Mews indicated that the subject property was formerly occupied by a paint manufacturer and, at one time, a film processing facility. The subject UST, discovered during a partial demolition of the facility, reportedly last contained #6 heating oil.

As part of construction services to the City of Milwaukee, Mews Companies retained Summit to observe the removal of the UST, and to assess potential environmental impacts associated with the UST. Summit's scope of work performed on this project was based upon the background information provided by Mr. Mews.

2.3 Site Location/Description

The site is located at 1836 South 3rd Street in Milwaukee, Wisconsin. The legal description of the site is as follows: SW ¼, of NW ¼, of SW ¼ of Section 34, Township 19 North, Range 23 East, in Milwaukee County, Wisconsin. The setting of the property is a mixture of residential properties within an older industrial area of the City (Figure 1).

One brick building exists on site (Figure 2). The north wall of the building has been boarded up after the demolition of the northern portion of the building. The subject UST was located beneath the floor of the demolished portion of the building. Three above ground storage tanks, several 55-gallon steel drums, paint cans, automobile gas tanks, and used oil filters were observed inside and along the south side of the building.

2.4 Geologic/Hydrogeologic Setting

The surficial geology in the Milwaukee area is composed of Pleistocene glacial lake deposits composed of organic material, stratified clay, silt, and sand (Skinner, E.L., and R.G. Borman, 1973). Glacial deposits are approximately 100 feet thick in the Milwaukee area. The bedrock geology consists of Silurian Dolomites, Ordovician rock, Cambrian sandstones, and crystalline Precambrian bedrock. The uppermost bedrock formation consists of Silurian Dolomites that are approximately 800 feet thick.

Groundwater generally occurs within glacial deposits (Skinner, E.L., and R.G. Borman, 1973). The groundwater table is reported to be present at depths of 60 feet below the surface. The direction of the unconfined groundwater may be predominately eastward. Regional groundwater is anticipated to flow towards Lake Michigan, however; localized variations in groundwater flow directions may exist.

3.0 SITE ASSESSMENT ACTIVITIES

3.1 Tank Removal Activities/Limited Site Reconnaissance

Between May 2 and May 4, 1995, Summit observed the excavation and removal of a 10,000-gallon UST at the site. The UST was registered with DILHR, and given tank identification number 402008001. A copy of the underground petroleum product tank inventory printout is provided in Appendix I. Prior to excavation activities, Summit performed a limited site reconnaissance and confirmed the marking of site utilities. The soil was excavated and the UST was removed with the aid of a back hoe.

3.2 Soil Screening for Organic Vapor Analysis

Excavated soil samples were periodically screened with an OVM Model 580B PID equipped with a 10.6 eV probe. The PID was calibrated prior to use to read directly in parts per million (ppm) of benzene (on a volume basis). Soil samples were collected from the walls and floor of the UST basin.

The samples were screened using a jar headspace technique in which the sample was placed in a clean, glass mason jar, covered with two layers of aluminum foil (shiny side up) and sealed with a lid. The jar was shaken for 15 seconds and stored for at least 10 minutes at ambient air temperature, protected from direct sunlight. The jar was then opened and the PID probe was inserted through the foil liner to collect the headspace sample. The highest meter reading was recorded within the first 15 seconds after insertion. Soil sample locations for organic vapors screening are indicated on Figure 2.

3.3 Soil Sampling for Chemical Analysis

After the removal of the UST, two soil samples were collected for chemical analysis. One soil sample was collected from beneath the UST, and a second soil sample was collected from beneath the wooden drain tile. The soil sample locations are illustrated on Figure 2. The soil sampling methodology is described in Appendix II.

4.0 RESULTS

4.1 Tank Removal Activities/Soil Conditions

The skies were sunny and temperatures were in the mid-fifties during the UST removal activities. Stains on the asphalt paving or stressed vegetation were not observed in the vicinity of the UST.

Backfill materials for the UST basin consisted primarily of sand and gravel with occasional debris. The soil exposed during excavation activities consisted primarily of stiff, brown, silty clay containing thin (less than two inches in thickness), discontinuous sand stringers that appeared to be moist inconsistently throughout the clay matrix. Apparent petroleum staining and a product-like odor were observed in the excavation. After the UST was removed and the soil samples were collected, the UST basin was backfilled with the original backfill materials and clean gravel.

During the UST removal activities, a wooden drain tile was encountered at the northeast corner of the UST excavation. The tile appeared to extend diagonally from the existing building trending southeast to northwest across the site. A thick, black, oily substance was observed near the vicinity of the tile. A soil sample was collected beneath the wooden tile to assess the substance.

Indications of leakage were not observed from the UST or the associated piping. Two types of sludge were observed within the UST during the cleaning process. A pink, semi-solid sludge believed to be paint, and a waste/heating oil sludge were separated and removed during the UST cleaning process. The sludges were placed into Wisconsin Department of Transportation approved drums for disposal. The drums of paint sludge were disposed of as a hazardous waste by Milwaukee Solvents of Menomonee Falls, Wisconsin. The waste/heating oil sludge was disposed of as a non-hazardous waste by ABC Environmental of Kenosha, Wisconsin.

The UST was cleaned on site and rendered useless by cutting a 2 foot by 2 foot hole at one end. The UST was transported off-site for recycling. The checklist for underground tank closure is provided in Appendix III. The UST was removed, cleaned, rendered useless, and transported to a recycling facility by:

North Shore Environmental Construction
N117 W18493 Fulton Drive
Germantown, Wisconsin 53022
(414) 255-4468

Documentation of sludge disposal is provided in Appendix IV. Photographic documentation of the removal and cleaning of the UST is provided in Appendix V. The UST destruction forms are provided in Appendix VI.

4.2 Field Screening

Organic vapor concentrations above 10 ppm were detected during the PID screening of excavated soil. Olfactory indications of petroleum hydrocarbons were also observed in soil samples collected from the area surrounding the fill pipe of the 10,000-gallon UST. The results of the PID soil screening are presented in Table 1. Soil sample locations for the organic vapor screening and chemical analysis are indicated on Figure 2.

4.3 Analytical Chemistry Results

Two soil samples were collected as confirmation samples to assess the concentrations of observed hydrocarbon impacts. Soil sample S-1, collected at the bottom of the former UST basin, was submitted for analysis of polynuclear aromatic compounds (PAHs), diesel range organics (DRO), gasoline range organics (GRO), volatile organic compounds (VOCs), and RCRA metals. Soil sample S-2, collected beneath the wooden drain tile, was submitted for analysis of PAHs, DRO, and VOCs. A summary of the analytical results is presented in Table 1. A copy of the laboratory results, analytical methods, and chain of custody is provided in Appendix VII.

Analytical results reported detectable DRO, PAH, and VOC concentrations in soil samples S-1 and S-2. Detectable metals concentrations were also reported for soil sample S-1. DRO, PAH, VOC, and arsenic concentrations reported for soil sample S-1 exceed the current RCLs established by the WDNR. Soil sample S-2 contained DRO and VOC concentrations in excess of the current RCLs.

4.4 Groundwater Observations

Although the soil in the UST basin was moist, groundwater was not observed in the excavation.

5.0 DISCUSSION

Prior to the excavation of the UST, staining and other indications of surface spillage or releases were not observed near the UST. During the removal of the 10,000-gallon UST, indications of leakage from, or holes in the UST were not observed on the surface of the UST or associated piping. After the UST was removed, odoriferous impacts and soil discoloration were observed in the excavation.

Field screening indicated detectable organic vapors in soil samples collected from the UST basin. Chemical analysis of the soil samples collected from the UST basin indicated DRO, PAHs, VOCs, and arsenic and barium concentrations in excess of current WDNR soil standards.

Indications of potential horizontal migration of petroleum hydrocarbons was observed in the vicinity of a wooden drain tile discovered at the northeast corner of the former UST basin.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our limited environmental site assessment conducted near the UST basin, and the results of the UST excavation, it appears that the potential risk of significant impacts to potential receptors or groundwater resources may exist. Summit recommends that additional subsurface assessment be performed at the site to: 1) adequately evaluate the subsurface conditions and the extent of petroleum hydrocarbon impacts to the soil and/or groundwater in the vicinity of the UST; 2) evaluate the potential for horizontal migration of petroleum hydrocarbons through fill materials and along building foundations; and 3) evaluate the potential for contaminant impacts along the drain tile.

7.0 REFERENCES

Skinner, E.L. and R.G. Borman, 1973. Water Resources of Wisconsin-Lake Michigan Basin. United States Geological Survey, Washington D.C., Hydrologic Investigations Atlas HA-432.

8.0 LIMITATIONS OF SITE ASSESSMENT

8.1 Site Data and Related Records Review

Summit's opinions, conclusions, and recommendations were based, in part, on information Summit obtained and evaluated from current sources including the client, property owner, former reports, and private, municipal, state, and federal agencies. Verification of the authenticity or

accuracy of this information is not warranted by Summit or included in Summit's scope of services.

8.2 Sample Collection and Analysis

Summit collected samples of materials Summit believed likely to contain hazardous materials. The sample locations and quantity of samples and analyses performed was selected to provide analytical data to evaluate and document current site conditions or past site activities. A scope of sample collection and analysis was based primarily on information provided by the site data and related records review and reconnaissance, considering project time and budget restraints as determined in the scope of work. Parameters not included in the aforementioned scope of work were not identified or evaluated. The data obtained from discrete sample locations was used to infer conditions between sample locations, but no guarantee may be given that the inferred conditions exist because soil and groundwater quality conditions between sample locations may vary significantly and because conditions at the time of sample collection may also vary significantly with respect to soil and groundwater quality at a given time, and for other reasons beyond Summit's control.

8.3 Final Report and Interpretation of Results

Summit's report was based upon Summit's observations made during the site reconnaissance, the information provided to Summit and the results of analytical sampling. Given the inherent limitations of environmental assessment work, Summit will not guarantee that the site is free of hazardous or potentially hazardous materials or conditions or that latent or undiscovered conditions will not become evident in the future. Summit's report was prepared in accordance with the proposal, scope of work, and Summit's General Conditions and Terms, and no other warranties, representations, or certifications are made.

Summit Envirosolutions, Inc.



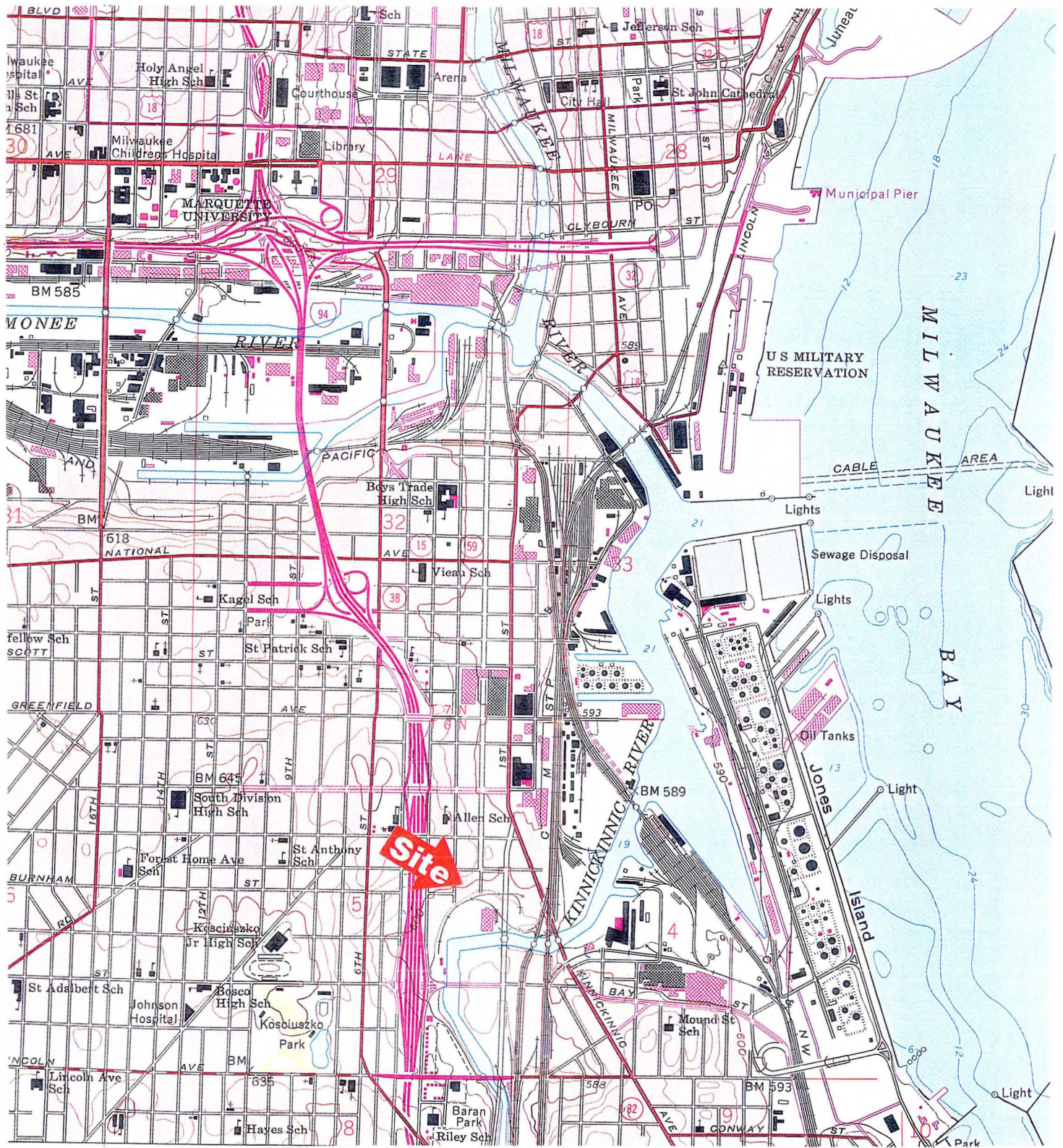
Matthew S. Stevens
Project Manager/Geologist



Scott C. Tracy, CHMM
Senior Project Manager

/mss

SUMMIT ENVIROSOLUTIONS, INC.



APPROXIMATE SCALE:



ONE INCH = 2000 FEET

REMARKS:

Taken from U.S.G.S., Milwaukee, Wisconsin
7 1/2 minute quadrangle.

DRAWN BY: DMS

REVIEWED BY: MSS

NORTH



DATE:

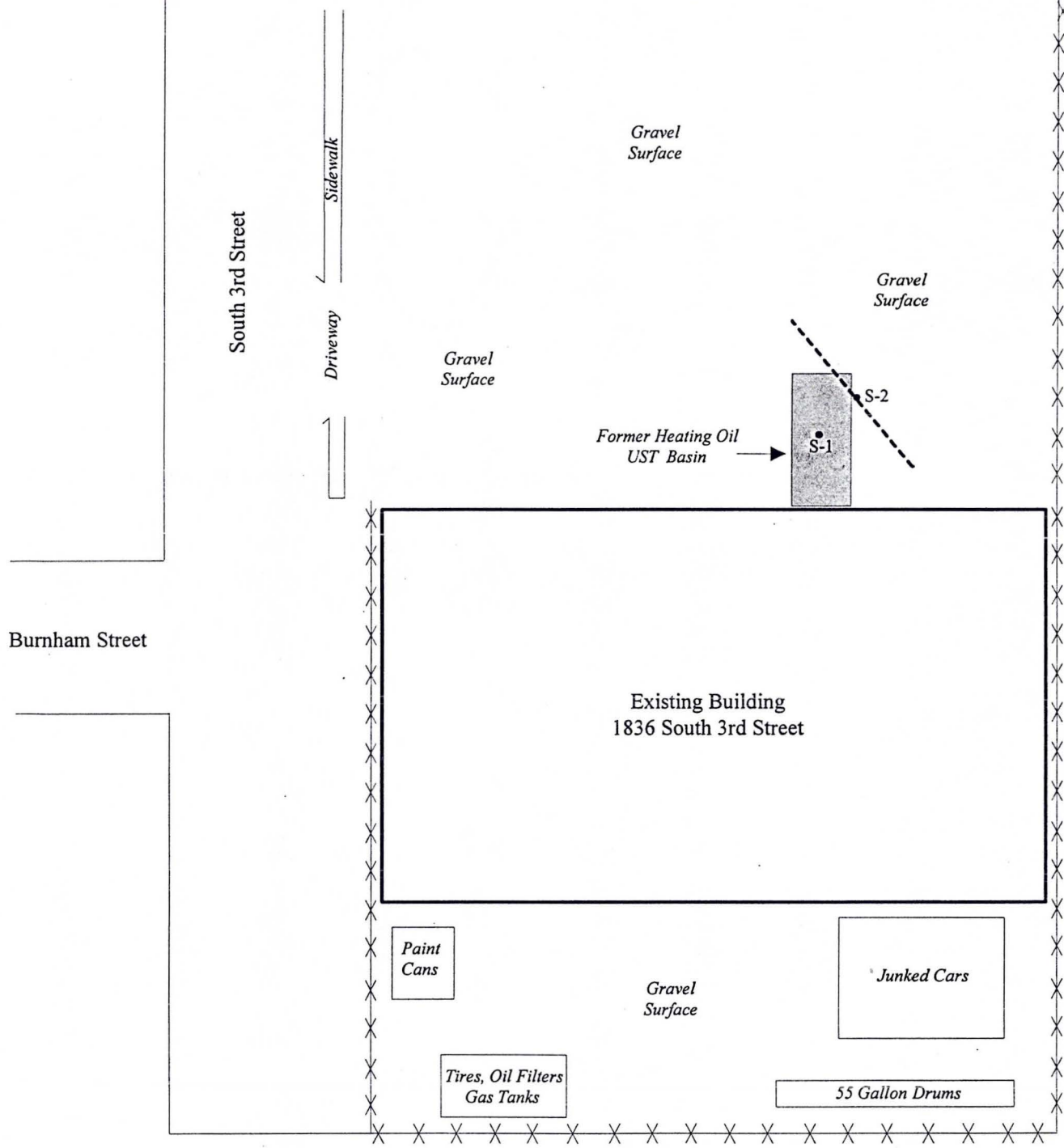
DECEMBER
1995

FIGURE 1

GENERAL SITE LOCATION MAP

CITY OF MILWAUKEE PROPERTY
1836 SOUTH 3RD STREET
MILWAUKEE, WISCONSIN
SUMMIT PROJECT NO. 951561

SUMMIT ENVIROSOLUTIONS



<p>APPROXIMATE SCALE:</p> <p>ONE INCH = 40 FEET</p>	<p>NORTH</p>	<p>LEGEND</p> <ul style="list-style-type: none"> S-1 Soil Sample Location Former UST Basin Chain Link Fence Wooden Drain Tile 	<p>FIGURE 2</p> <p>SITE MAP/SOIL SAMPLE LOCATIONS</p> <p>CITY OF MILWAUKEE PROPERTY 1836 SOUTH 3RD STREET MILWAUKEE, WISCONSIN</p> <p>SUMMIT PROJECT NO. 951561</p>
<p>REMARKS:</p> <p>Base map taken from a Summit field sketch.</p>		<p>DATE:</p> <p>DECEMBER</p>	
<p>DRAWN BY: DMS REVIEWED BY: MSS</p>		<p>1995</p>	

TABLE 1
SUMMARY OF PID SCREENING AND SOIL EXCAVATION ANALYTICAL RESULTS

May 5, 1995
City of Milwaukee
Milwaukee, Wisconsin
Summit Project No. 951561

○ - non-incl.
□ - incl.
⊙ - GW

S-1

TCE: 270 ppm

PCE: 1.6 ppm

S-2

TCE: < .005 ppm

PCE: 0.187 ppm

Parameter	S-1 10 ft bg	S-2 8 ft bg	RCL
VOCs (ppm)			
Benzene	1.22	0.064	0.005
Ethylbenzene	38.2	4.21	2.90
Toluene	24.6	1.87	1.5
Xylene	122	4.90	4.1
Diesel Range Organics (DRO) (ppm)	608	343	10
Gasoline Range Organics (GRO)(ppm)	39.8	~	10
Total Metals (ppm)			
Arsenic	9.60	~	1.6*
Barium	52	~	NE
Cadmium	<0.80	~	510*
Chromium	88	~	200*
Lead	64.00	~	500*
Mercury	0.22	~	NE
Selenium	0.54	~	NE
Silver	<2.50	~	NE
PNAs and Naphthalene (ppb) - ppm			
Naphthalene	1.0	0.670	NE
Acenaphthene	1.420	<1.2	NE
Anthracene	0.862	<0.66	NE
Fluoranthene	<0.66	<0.66	NE
Fluorene	1.830	1.090	NE
Pyrene	1.530	1.040	NE
Carcinogenic PNAs			
Benzo (a) anthracene	1.710	0.597	NE
Benzo (a) pyrene	0.391	0.356	NE
Benzo (b) fluoranthene	0.236	0.296	NE
Benzo (k) fluoranthene	0.111	0.093	NE
Chrysene	1.820	0.641	NE
Dibenzo (a,h) anthracene	<0.02	<0.02	NE
Indeno (1,2,3,-c,d) pyrene	<0.029	<0.029	NE
Non-Carcinogenic PNAs			
Acenaphthylene	<0.66	<0.66	NE
Benzo (g,h,i) perylene	<0.051	<0.051	NE
Phenanthrene	9	3	NE
PID Reading (ppm)	62	8.2	

Notes:

concentrations in parts per million (ppm)
concentrations in parts per billion (ppb)
RCL = Residual Contaminant Level per NR 720
NE = not established
<= less than stated method detection limit (BETX) or Acceptable
Detection Limit (PNAs)
ft bg = feet below grade
ND = concentration not detected above field instrument method of detection limit of 1 ppm
limit of 1 ppm
~ = sample not tested for this parameter
* Industrial Land Use

APPENDIX I

Underground Petroleum Product Tank Inventory

```

Ctrl-Z = HELP      IMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM;      1
OF 1              : WISCONSIN UNDERGROUND STORAGE TANKS :      S
UBSET              :           MILWAUKEE COUNTY           :      CTRL-G TO
RETURN            HMMMMMMMMM CITY OF MILWAUKEE MPMMMMMMMM<  TO COMPLET.
E LIST

```

TANK ID	LOCATION	OWNER
402008001	VACANT LOT 1836 S 3RD ST MILWAUKEE, WI 53204	DAVID PLUNKETT 709 S 5TH ST MILWAUKEE, WI 53204

```

LAST UPDATE: 10/02/95      FED REG? : YES
INSTALLED :                USER TYPE : MERCANTILE
ASSESSED  :                CONTENTS  : UNKNOWN
ABANDONED : 5/04/94        CAPACITY : 008000
OUT OF SERV:              CHEM CODES:
STATUS    : CLOSED - TANK REMOVED
TANK CONSTR: BARE STEEL
TANK LEAK DETECTION METHOD(S): NOT REQUIRED AT PRESENT
SPILL CONTAINMENT?:
PIPE CONSTR: UNKNOWN
PIPING SYSTEM TYPE:
DOUBLE WALL PIPING?:      PIPING LEAK DETEC METHOD(S):
OVERFILL PROTECTION?:

```

APPENDIX II

Field Methods

Soil Vapor Screening Method (Excavation)

Soil samples were collected from designated points within the excavation. The soil samples were collected from the excavation by a backhoe bucket. The soil within the backhoe bucket was screened by placing samples in clean, glass mason jars, covered with two layers of aluminum foil (shiny side up) and sealed with a lid. The jars were shaken for 15 seconds and stored for at least 10 minutes at ambient air temperature, protected from direct sunlight. The jars were then opened and the PID probe inserted through the foil liner to collect the headspace sample. The highest meter reading was recorded within the first 15 seconds after insertion.

The PID used was an organic vapor monitor (OVM) model 580B equipped with a 10.6 eV lamp. This instrument was calibrated prior to use, using ambient air as a zero gas and 100 parts per million (ppm) isobutylene in air as the calibration gas. This calibration procedure was followed to allow direct readings of benzene (in ppm on a volume basis).

Soil Sampling (Excavation)

Soil samples for laboratory analysis were collected using a "grab" method and represent composite samples from the designated soil interval. The soil samples were collected by Summit. The samples were collected by "grabbing" a soil sample from the backhoe bucket while wearing single-use latex gloves. The soil samples were immediately packed into an appropriate soil sample jar. The sample jars were prepared and received from the laboratory prior to starting the field activities. The single-use gloves were discarded and replaced with new gloves after each sample was obtained. The sample jars were sealed, labeled, and immediately placed on ice in a cooler chest.

Chain of custody and sampling documentation were kept for the samples submitted for laboratory analysis. The chain of custody form accompanied these samples at all times. The sampling documentation was kept in the field file. Once completed, the chain of custody documentation was sealed in the cooler for delivery to the laboratory. The sampling documentation was given to the Summit project manager for inclusion in the site file.

Upon receipt of the samples, the laboratory completed the chain of custody and returned the documentation with the final laboratory report. The final report was sent to the Summit project manager.

Soil Sampling for Volatile Hydrocarbons From Tank Excavations (GRO and DRO Analysis)

Soil samples for laboratory GRO and DRO analysis were collected using a "grab" method and represent composite samples from the designated soil interval. The soil samples were collected by Summit. The samples were collected by "grabbing" a soil sample from the backhoe bucket while wearing single-use latex gloves. From the composite soil sample, approximately 25 grams of soil was collected for analysis. The 25 grams of soil was estimated by either 1) weighing the

sample, 2) filling a premeasured "clean" vial or plastic syringe with soil, or 3) through visual estimation. Soil samples collected for DRO analysis were placed immediately into laboratory prepared pre-weighed two ounce jars. The soil sample was placed into the pre-weighed jars as quickly as possible to minimize volatilization. The threads of the laboratory jar were then wiped clean prior to sealing the jar with a teflon-lined cap. After securing the cap, the sample jar was labeled and immediately placed on ice into a cooler chest. The single-use gloves were discarded and replaced with new gloves after each sample was obtained.

GRO samples were collected by "grabbing" approximately 25 grams of the composite sample and placing the 25 gram sample into pre-weighed laboratory jars containing 25 milliliters of purge and trap grade methanol. The soil sample was placed into the pre-weighed jars as quickly as possible to minimize volatilization. The threads of the laboratory jar were then wiped clean prior to sealing the jar with a teflon-lined cap. After securing the cap, the jar was shaken to coat the soil with the methanol preservative. The sample jars were labeled and immediately placed on ice in a cooler chest. A dry weight sample was also collected by filling a jar with soil from the same area. These samples were placed in sample jars that were tightly sealed with screw down caps. The single-use gloves were discarded and replaced with new gloves after each sample was obtained. These samples were placed in the same cooler chest containing the soil samples that require GRO analysis.

Chain of custody and sampling documentation were kept during the entire sampling event. The chain of custody form accompanied the samples at all times. The sampling documentation was kept in the field file. Once completed, the chain of custody documentation was sealed in the cooler for delivery to the laboratory. The sampling documentation was given to the Summit project manager for inclusion in the site file.

Upon receipt of the samples, the laboratory completed the chain of custody and returned the documentation with the final laboratory report. The final report was sent to the Summit project manager.

APPENDIX III

Checklist for Underground Storage Tank Closure

CHECKLIST FOR UNDERGROUND TANK CLOSURE

RETURN COMPLETED CHECKLIST TO:
Safety & Buildings Division
Fire Prevention & Underground
Storage Tank Section
P. O. Box 7969, Madison, WI 53707

Complete one form for
each site closure.

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

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

Site Name Vacant Lot		2. Owner Name David Plunkett	
Site Street Address (not P.O. Box) 1636 S 3rd Street		Owner Street Address 709 S. 5th Avenue	
City Milwaukee	Village	City Milwaukee	State WI
State WI	Zip Code 53204	County Milwaukee	Telephone No. (include area code) 414-643-9282
Closure Company Name (Print) North Shore Env. Const.		Closure Company Street Address 1117 W 18493 Fulton Drive	
Closure Company Telephone No. (include area code) 414-255-4468		Closure Company City, State, Zip Code Greenfield, WI 53022	
Name of Company Performing Closure Assessment Summit Environmental Solutions		Assessment Company Street Address, City, State, Zip Code 450 S Summit Street, Ste 215 Brookfield, WI 53005	
Telephone # (include area code) 414-796-4400	Certified Assessor Name (Print) David Szycel	Assessor Signature <i>David Szycel</i>	Assessor Certification No. 05907

Tank ID #	Closure	Temp. Closure	Closure in Place	Tank Capacity	Contents	Closure Assessment
UNKNOWN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8000	09	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N

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

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

Check applicable box at right in response to all statements in Sections B - E.

	Remover Verified	Inspector Verified	NA
TEMPORARILY OUT OF SERVICE			
Written inspector approval of temporary closure obtained, which is effective until (provide date) _____	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
1. Product Removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a. Product lines drained into tank (or other container) and resulting liquid removed, AND	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input 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 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 type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Piping disconnected from tank and removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. All pump motors and suction hoses bonded to tank or otherwise grounded.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input 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 type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
7. Tank openings temporarily plugged so vapors exit through vent.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent movement.	<input 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"/>

CLOSURE BY REMOVAL (continued)

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

CLOSURE IN PLACE

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

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

CLOSURE ASSESSMENTS

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

- | | | | |
|---|--|-------------------------------------|--------------------------|
| 1. Individual conducting the assessment has a closure assessment plan (written) which is used as the basis for their work on the site. | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Do points of obvious contamination exist? | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Are there strong odors in the soils? | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Was a field screening instrument used to pre-screen soil sample locations? | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Was a closure assessment omitted because of obvious contamination? | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Was the DNR notified of suspected or obvious contamination? | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/> | <input type="checkbox"/> |
| Agency, office and person contacted: _____ | | | |
| 7. Contamination suspected because of: <input checked="" type="checkbox"/> Odor <input checked="" type="checkbox"/> Soil Staining <input checked="" type="checkbox"/> Free Product <input checked="" type="checkbox"/> Sheen On Groundwater <input checked="" type="checkbox"/> Field Instrument Test | | | |

METHOD OF ACHIEVING 10% LEVEL DESCRIPTION

- Eductor or Diffused Air Blower
Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground.
Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.
- Dry Ice
Dry ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the greatest possible tank area. Dry ice evaporated before proceeding.
- Inert Gas (CO₂ or N₂) **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.**
Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent.
Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.
- Tank atmosphere monitored for flammable or combustible vapor levels.
Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before removing tank from ground.

NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW

H. REMOVER/CLEANER INFORMATION

Remover Name (print) _____ Remover Signature _____ Remover Certification No. _____ Date Signed _____

I. INSPECTOR INFORMATION

Inspector Name (print) Bernard Steven Inspector Signature Bernard Steven Inspector Certification No. T1-75
FDID # For Location, Where Inspection Performed 4620 Inspector Telephone Number _____ Date Signed 12/1/97

REMOVER

APPENDIX IV

Tank Sludge Disposal Documentation

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved OMB No. 2001-0016 EPA Form 3040-02
GSA Gen. Reg. No. 27

*Handled
4/26*

<p>Please refer to the instructions for filling this form before completing it. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act).</p>		<h2 style="text-align: center;">Notification of Regulated Waste Activity</h2> <p style="text-align: center;">United States Environmental Protection Agency</p>	<p style="text-align: center;">Date Received (For Official Use Only)</p>
---	---	--	--

I. Installation's EPA ID Number (Mark 'X' in the appropriate box)

<input checked="" type="checkbox"/> A. First Notification	<input type="checkbox"/> B. Subsequent Notification (complete item C)	C. Installation's EPA ID Number W12000004473
---	---	--

II. Name of Installation (Include company and specific site name)

VACANT LOT

III. Location of Installation (Physical address not P.O. Box or Route Number)

Street	1836 S 3rd STREET
--------	--------------------------

Street Number	
---------------	--

City	MILWAUKEE	State	WI	Zip Code	53204
------	------------------	-------	-----------	----------	--------------

City	MILWAUKEE
------	------------------

IV. Installation Manager's Address (See instructions)

Street	SAVE
--------	-------------

City		State		Zip Code	
------	--	-------	--	----------	--

City	
------	--

V. Installation Contact (Name of an individual regarding waste activities)

Name	MENS	JIM
------	-------------	-----

Job Title	REPRESENTATIVE	414-788-5055
-----------	-----------------------	---------------------

VI. Contact Address

Street	117 W 18493 FULTON DRIVE
--------	---------------------------------

City	GERMANTOWN	State	WI	Zip Code	53022
------	-------------------	-------	-----------	----------	--------------

City	MILWAUKEE
------	------------------

VII. Range of Environmental Legal Counsel

Name	DAVID PRUMMETT
------	-----------------------

Street	709 S 5th AVENUE
--------	-------------------------

City	MILWAUKEE	State	WI	Zip Code	53204
------	------------------	-------	-----------	----------	--------------

City	MILWAUKEE
------	------------------

Generator's Certification

Note: If you are a generator of restricted waste a copy of this notice must accompany each shipment in accordance with 40 CFR 268.7 (a) (1).

If a generator determines that he is managing a restricted waste under this part and the waste exceeds the applicable treatment standards, with each shipment of waste the generator must notify the treatment facility in writing of the appropriate standards set forth in 40 CFR 268 Subpart D of this part.

Please check the appropriate box if applicable:

Subpart D - Treatment Standards		
Regulated Hazardous Constituent	Wastewater mg/L†	Nonwastewater mg/L†
Acetone	0.28	160
Benzene	0.07	3.7
n-Butyl Alcohol	5.6	2.6
Carbon Disulfide	1.05	N/A
Carbon Tetrachloride	0.057	5.6
Chlorobenzene	0.057	5.7
Cresol (m- and p-isomers)	0.77	3.2
o-Cresol	0.11	5.6
Cyclohexanone	0.125	N/A
o-Dichlorobenzene	0.088	6.2
Ethyl Acetate	0.34	33
Ethyl Benzene	0.057	6
Ethyle Ether	0.12	160
Isobutyl Alcohol	5.6	170
Methanol	0.25	N/A
Methylene Chloride	0.089	33
Methyl Ethyl Ketone	0.28	36
Methyl Isobutyl Ketone	0.14	33
Nitrobenzene	0.068	14
Pyridine	0.014	16
Tetrachloroethylene	0.056	5.6
Toluene	0.08	28
1,1,1-Trichloroethane	0.054	5.6
1,1,2-Trichloroethane	0.03	7.6
Trichloroethylene	0.054	5.6
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.057	28
Trichloromonofluoromethane	0.02	33
Xylenes (total)	0.32	28

† Concentrations expressed as mg/L per 268.43 Table CCWE

Regulated Hazardous Constituent	Wastewater mg/L*	Nonwastewater mg/L*
Carbon Disulfide**	N/A	4.8
Cyclohexanone**	N/A	0.75
Methanol**	N/A	0.75

All of the Above		
Waste Petroleum Naptha, Ignitable Liquid High (TOC), (HOC'S)>1000mg/L	D001	INCIN, FSUB, RORGS
WASTE COMBUSTIBLE LIQUID, IGNITABLE Liquid(High TOC), (HOC'S>1000mg/L)	D001	INCIN, FSUB, RORGS

* Concentrations expressed as mg/L TCLP per 268.43 Table CCWE.

** CCWE treatment standards are not valid if these constituents are mixed with one or more of the above listed constituents with treatment standards expressed as CCWE.

In addition, the following information must be provided:

EPA Hazardous Waste Number: D001

Manifest Number Associated with this shipment: 549-138

Waste Analysis Data where applicable. (Please Attach)

I hereby certify that all the information submitted in this and all associated document is complete and accurate to the best of my knowledge and information.

Signature: [Signature]

Date: 7/19/95

Office Use Only

LN



STATE OF WISCONSIN
Chapter 144, Wis. Stats.
Form 4400-66P Rev. 10-93

State of Wisconsin
Department of Natural Resources
Bureau of Solid and Hazardous Waste Mgt.
Box 8094
Madison, Wisconsin 53708

FOR DNR USE ONLY

ALL COPIES MUST BE LEGIBLE, PLEASE TYPE

Form designed for use on elite (12-pitch) typewriter.

Form Approved. OMB No. 2050-0039. Expires 9-30-9

Main form body containing sections: UNIFORM HAZARDOUS WASTE MANIFEST, Generator information, Transporter information, Facility information, Containers table, Special Handling Instructions, Generator's Certification, and Facility Owner/Operator certification.

GENERATOR

TRANSPORTER

FACILITY

BILL OF LADING MEMORANDUM

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT.

RECYCLABLE PAPER

Acknowledgment that this Bill of Lading has been issued and is not the Original Bill of Lading, nor copy or duplicate, covering the property named herein, and is intended solely for filing or record.

85 W. BUBBLETANK AVE
OMOHAF FALLS WI 53051

MILSOLV COMPANIES

CARRIER BY MILSOLV SERVICE CORP

B/L DATE 07/19/95
B/L NO. 135736

TROY NEWS - VACANT LOT
1836 SOUTH 3RD STREET
NORTH SHORE
MILWAUKEE, WI 53204

SOLD TO

TROY NEWS - VACANT LOT
1836 SOUTH 3RD STREET
NORTH SHORE
MILWAUKEE, WI 53204

414-783-5055

7/19/95 21:53:09

PAGE 1 OF 1

T. NO. 40	SALES AG. 30	OPERATOR AMY	REQ. NO.	SHIP VIA 30L1	CITY 150	25
CUST. ORDER NO. F	REQUIRED DATE 07/19/95	WHSE. 02	FREIGHT PREPAID	FOB REMARK 30L1 DIETRICH	SHIP DATE 7/19/95	CHECKED BY

QUANTITY ORDERED	QUANTITY SHIPPED	B.O.	PACKAGING	H M	DESCRIPTION	NET WEIGHT	GROSS WEIGHT
	44		1EWDUM	X	RQ WASTE GASOLINE 3 UN1203 (D001) (D006) (D018) (D028) (D040) PG II PROD #: 900008 ERG II:27 WA# 050895J *** WASTE FOR PICK UP ***		
	6		1EWDUM	X	RQ HAZARDOUS WASTE SOLID, H.O.S. 9 NA3087 (D001) (D006) (D018) (D028) (D040) PG III PROD #: 900108 ERG #131 WA# 050895JX *** WASTE FOR PICK UP ***		

NUMBER OF MILSOLV PALLETS: _____

MANIFEST/LABELS/LITIGATE
CALL RENE 1 HR B4 ARRIVAL AT 255-4168

TOTAL POUNDS: _____

I VERIFY THAT THE QUANTITIES, LABELS AND LOT NUMBERS ARE CORRECT EXCEPT AS NOTED

DELIVERED BY	Received By
Where the rate is dependent on, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____	TIME IN 7:35
This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.	TIME OUT
Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse to the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.	(Signature of Consignor)

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination.

It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Submit C.O.D. to: _____

Address: _____ State: _____ Zip: _____

C.O.D. Fee: Prepaid Collect

COD Amt: \$

COMMON/Private carrier hereby acknowledges that at the time this shipment was offered for transportation by highway, the shipper offered and/or provided the required D.O.T. Hazardous Material Placards.

PLACARDS REQUIRED YES NO - FURNISHED BY CARRIER

PLACARDS SUPPLIED DRIVER SIGNATURE: _____

DRIVER'S SIGNATURE: _____

WE CERTIFY THAT WE ARE AN EQUAL OPPORTUNITY EMPLOYER AND THAT WE COMPLY WITH EXECUTIVE ORDERS #11248 AND #11375.

SHIPPER: MILSOLV CORPORATION
DAVID GREEN, TRAFFIC MANAGER

CARRIER: MILSOLV SERVICE CORP
PER: _____
DATE: 7/19/95

APPENDIX V

Photographic Documentation of UST Cleaning & Removal

SUMMIT ENVIROSOLUTIONS



Photograph 1: Facility, looking west



Photograph 2: Heating oil UST basin

Photos taken by Summit personnel

PHOTOGRAPHS

CITY OF MILWAUKEE PROPERTY
1836 SOUTH 3RD STREET
MILWAUKEE, WISCONSIN
SUMMIT PROJECT NO. 951561

SUMMIT ENVIROSOLUTIONS



Photograph 3: Cleaning the UST



Photograph 4: Cleaned UST ready for transport

Photos taken by Summit personnel

PHOTOGRAPHS

CITY OF MILWAUKEE PROPERTY
1836 SOUTH 3RD STREET
MILWAUKEE, WISCONSIN
SUMMIT PROJECT NO. 951561

APPENDIX VI

Tank Destruction Form

NORTH SHORE ENVIRONMENTAL CONSTRUCTION, INC.
W117 N18493 FULTON DRIVE
GERMANTOWN, WI 53022
(414) 255-4468 FAX: (414) 255-6993

TANK DISPOSAL

GENERATOR: Mews Vacant Lot

SITE ADDRESS: 1836 S 3rd Street

CITY/STATE/ZIP: Milwaukee, WI 53204

DISPOSAL SITE: Detuning

ADDRESS: _____

CITY/STATE/ZIP: _____

TYPE OF TANK: _____

DATE OF DISPOSAL: 7-19-95

APPENDIX VII

Laboratory Analytical Report



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203

708-967-6666
FAX: 708-967-6735

Due Date: 5-15-95 COC #: 26366

Company: <u>Summit Environmental Solutions</u>				Sample Type: <u> </u> Container Type: <u> </u>				Analyses							
Address: <u>450 N. Sunnyvale Rd Suite 205 Brookfield, WI 53005</u>				1. Water P - Plastic 2. Soil G - Glass 3. Sludge V - VOC 4. Oil 5. Waste Other: <u> </u>											
Phone #: <u>414-796-4400</u> Fax #: <u>414-796-4400</u>				<u>NO ANALYSES PERFORMED</u> <u>NO DATA TO REPORT</u> <u>NO CRITERIA MET</u>				Comments							
P.O. #: <u> </u> Proj. #: <u>951561</u>															
Client Contact: <u> </u> Project ID / Location: <u>City of Milwaukee</u>															
Sample I.D. (10 Characters ONLY)	Sample Type	Container			Sampling		Preservative	Lab I.D.							
		Size	Type	No.	Date	Time									
<u>05041300</u>	<u>2</u>	<u>G</u>	<u>9</u>	<u>5-4-95</u>	<u>1300</u>	<u>Med</u>	<u>182410</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>127555</u>	<u>S-1</u>
<u>05041310</u>	<u>2</u>	<u>G</u>	<u>6</u>	<u>5-4-95</u>	<u>1310</u>	<u>Med</u>	<u>18247</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				<u>127556</u>	<u>S-2</u>

EMT does not accept samples that contain high levels of Cyanide.

Relinquished By: <u>[Signature]</u>	Date: <u>5-5-95</u>	Received By: <u>[Signature]</u>	Date: <u>5-5-95</u>	Witness: <u> </u>	TURNAROUND TIME: <input type="checkbox"/> RUSH <input checked="" type="checkbox"/> 7 day turnaround <input checked="" type="checkbox"/> ROUTINE
Relinquished By: <u> </u>	Date: <u> - - </u>	Received For Lab By: <u>[Signature]</u>	Date: <u> - - </u>	Time: <u> : : </u>	



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

122555-A

Summit Envirosolution, Inc.
450 N. Sunnyslope Road, Suite 215
Brookfield, WI 53005

Project No.: 951561
Project Name: City of Milwaukee
Sample Description: Soil, 05041300
Sample No.: 18246

Report Date: 5/16/95
Date Sampled: 5/4/95
Date Sample Received: 5/5/95
Date Extracted: 5/7/95
Date Analyzed: 5/8/95

	Concentration Found In Sample (mg/kg)	Method Detection Limit (MDL) (mg/kg)
Diesel Range Organics	608	10

- Samples received on ice
- All results expressed in ppm on a dry weight basis unless otherwise indicated.
- Analysis performed using Wisconsin Modified DRO method 7/93 rev.
- Wisconsin Laboratory Certification #999888890

Leah E. Zehr

LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

122555-B

Summit Envirosolution, Inc.
450 N. Sunnyslope Road, Suite 215
Brookfield, WI 53005

Project No.: 951561
Project Name: City of Milwaukee
Sample Description: Soil, 05041300
Sample No.: 18246

Report Date: 5/16/95
Date Sampled: 5/4/95
Date Sample Received On Ice: 5/5/95
Date Analyzed: 5/8/95

Total Solids	83.7%	
<u>Total</u>		
Arsenic	9.60	ppm
Barium	52.0	ppm
Cadmium	<0.80	ppm
Chromium	88.0	ppm
Lead	64.0	ppm
Mercury	0.220	ppm
Selenium	0.540	ppm
Silver	<2.50	ppm

Wisconsin Certified Laboratory #999888890.

All results expressed as ppm unless otherwise indicated.

Methods performed according to SW-846, "Test Methods for Evaluating Solid Waste".

The contents of this report apply to the sample analyzed. No duplication of this report is allowed except its entirety.

LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

122555-C

Summit Envirosolution, Inc.
450 N. Sunnyslope Road, Suite 215
Brookfield, WI 53005

Project No.: 951561
Project Name: City of Milwaukee
Sample Description: Soil, 05041300
Sample No.: 18246

Report Date: 5/18/95
Date Sampled: 5/4/95
Date Sample Received On Ice: 5/5/95
Date Extracted: 5/8/95
Date Analyzed: 5/9/95

S-1

Reportable Compound	Concentration		ADLS Soil
	Found IN Sample	Blank	
<u>PNA'S and Naphthalene</u>			
1. Naphthalene	1000 ppb	<0.5 ppb	660
2. Acenaphthene	1420	<0.5	1200
3. Anthracene	862	<0.5	660
4. Fluoranthene	<660	<0.5	660
5. Fluorene	1830	<0.2	140
6. Pyrene	1530	<0.4	180
Carcinogenic PNAs (Total)			
7. Benzo(a)anthracene	1710	<0.13	8.7
8. Benzo(a)pyrene	391	<0.23	15
9. Benzo(b)fluoranthene	236	<0.18	11
10. Benzo(k)fluoranthene	111	<0.17	11
11. Chrysene	1820	<0.2	100
12. Dibenzo(a,h)anthracene	<20	<0.3	20
13. Indeno(1,2,3,-c,d)pyrene	<29	<0.43	29
Non-Carcinogenic PNAs (Total)			
14. Acenaphthylene	<660	<0.3	660
15. Benzo(g,h,i)perylene	<51	<0.76	51
16. Phenanthrene	9440	<0.2	660

Wisconsin Certified Laboratory #999888890.

All results expressed as ppb unless otherwise indicated.

Analyses performed using EPA method 8270 in accordance with SW 846, Third Edition.

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.

Leah E. Zuber

LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203
708/967-6666
FAX: 708/967-6735

LABORATORY REPORT

122555-D

Summit Envirosolution, Inc.
450 N. Sunnyslope Road, Suite 215
Brookfield, WI 53005

Project No.: 951561
Project Name: City of Milwaukee
Sample Description: Soil, 05041300
Sample No.: 18246

Report Date: 5/24/95
Sample Received: 5/5/95
Date Analyzed: 5/19/95

0.32
mg/kg
1.00

51

Compound <u>Purgeables</u>	Concentration Found IN		Method Detection Limit (MDL) ug/kg (ppb)	Quantitation Limit ug/kg (ppb)
	Sample (ppb)	Blank (ppb)		
1. Chloromethane	<20	<1.0	20.0	1000
2. Bromomethane	<14	<0.7	20.0	1000
3. Vinyl chloride	<14	<0.7	20.0	1000
4. Chloroethane	<14	<0.7	20.0	1000
5. Dichloromethane	<16	<0.8	20.0	1000
6. Acrolein	<300	<15.0	20.0	1000
7. Acrylonitrile	<100	<5.0	20.0	1000
8. Trichlorofluoromethane	<10	<0.5	20.0	1000
9. 1,1-Dichloroethene	<10	<0.5	20.0	1000
10. 1,1-Dichloroethane	<10	<0.5	20.0	1000
11. trans-1,2-Dichloroethene	<10	<0.5	20.0	1000
12. Chloroform	<10	<0.5	20.0	1000
13. 1,2-Dichloroethane	<32	<1.6	20.0	1000
14. 1,1,1-Trichloroethane	<10	<0.5	20.0	1000
15. Carbon tetrachloride	<12	<0.6	20.0	1000
16. Bromodichloromethane	<12	<0.6	20.0	1000
17. 1,2-Dichloropropane	<10	<0.5	20.0	1000
18. cis-1,3-Dichloropropene	<10	<0.5	20.0	1000
<i>TCE</i> 19. Trichloroethene	270	<0.5	20.0	1000
20. Benzene	1220	<0.5	20.0	1000
21. Dibromochloromethane	<36	<1.8	20.0	1000
22. Trans-1,3-Dichloropropene	<18	<0.9	20.0	1000
23. 1,1,2-Trichloroethane	<50	<2.5	20.0	1000
24. 2-Chloroethyl vinyl ether	<1804	<90.2	20.0	1000

Leah E. Zuber

LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

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LABORATORY REPORT

122555-D

Summit Envirosolution, Inc.
450 N. Sunnyslope Road, Suite 215
Brockfield, WI 53005

Project No.: 951561
Project Name: City of Milwaukee
Sample Description: Soil, 05041300
Sample No.: 18246

S-1

Report Date: 5/24/95
Sample Received: 5/5/95
Date Analyzed: 5/19/95

Compound <u>Purgeables</u>	Concentration Found IN		Method Detection Limit (MDL) ug/kg (ppb)	Quantitation Limit ug/kg (ppb)
	<u>Sample</u> (ppb)	<u>Blank</u> (ppb)		
25. Bromoform	<80	<4.0	20.0	1000
26. Tetrachloroethene	1600	<0.7	20.0	1000
27. 1,1,2,2-Tetrachloroethane	<78	<3.9	20.0	1000
28. Toluene	24600	<0.5	20.0	1000
29. Chlorobenzene	<12	<0.6	20.0	1000
30. Ethylbenzene	38200	<0.6	20.0	1000
31. Xylenes	122000	<0.6	20.0	1000

→ exceedence per NR 720.07(2)(d)2.

Wisconsin Laboratory Certification #999888890.

All results expressed as ppb unless otherwise indicated.

Methods performed according to SW-846, "Test methods for Evaluating Solid Waste".

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.

Leah E. Zuber

LABORATORY DIRECTOR



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LABORATORY REPORT

122555

Summit Envirosolution, Inc.
450 N. Sunnyslope Road, Suite 215
Brookfield, WI 53005

Project No.: 951561
Project Name: City of Milwaukee
Sample Description: Soil, 05041300
Sample No.: 18246

Report Date: 5/16/95
Date Sampled: 5/4/95
Date Sample Received: 5/5/95
Date Extracted: 5/7/95
Date Analyzed: 5/8/95

S-2

	Concentration Found In Sample (mg/kg)	Method Detection Limit (MDL) (mg/kg)
Gasoline Range Organics	39.8	10

- Samples received on ice
- All results expressed in ppm on a dry weight basis unless otherwise indicated.
- Analysis performed using Wisconsin Modified GRO method 7/93 rev.
- Wisconsin Laboratory Certification #999888890

Leah E. Zehr

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LABORATORY REPORT

122556

Summit Envirosolution, Inc.
450 N. Sunnyslope Road, Suite 215
Brookfield, WI 53005

Project No.: 951561
Project Name: City of Milwaukee
Sample Description: Soil, 05041310
Sample No.: 18247

Report Date: 5/16/95
Date Sampled: 5/4/95
Date Sample Received: 5/5/95
Date Extracted: 5/7/95
Date Analyzed: 5/8/95

5-2

	Concentration Found In Sample (mg/kg)	Method Detection Limit (MDL) (mg/kg)
Diesel Range Organics	343	10

- Samples received on ice
- All results expressed in ppm on a dry weight basis unless otherwise indicated.
- Analysis performed using Wisconsin Modified DRO method 7/93 rev.
- Wisconsin Laboratory Certification #999888890

Leah E. Zuber

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LABORATORY REPORT

122556-A

Summit Envirosolution, Inc.
450 N. Sunnyslope Road, Suite 215
Brookfield, WI 53005

Project No.: 951561
Project Name: City of Milwaukee
Sample Description: Soil, 05041310
Sample No.: 18247

Report Date: 5/16/95
Date Sampled: 5/4/95
Date Sample Received On Ice: 5/5/95
Date Extracted: 5/8/95
Date Analyzed: 5/8/95

502

Reportable Compound	Concentration Found IN		ADLS Soil
	Sample	Blank	
<u>PNA'S and Naphthalene</u>			
1. Naphthalene	670	<0.5	660
2. Acenaphthene	<1200	<0.5	1200
3. Anthracene	<660	<0.5	660
4. Fluoranthene	<660	<0.5	660
5. Fluorene	1090	<0.2	140
6. Pyrene	1040	<0.4	180
Carcinogenic PNAs (Total)			
7. Benzo(a)anthracene	597	<0.13	8.7
8. Benzo(a)pyrene	356	<0.23	15
9. Benzo(b)fluoranthene	296	<0.18	11
10. Benzo(k)fluoranthene	93.1	<0.17	11
11. Chrysene	641	<0.2	100
12. Dibenzo(a,h)anthracene	<20	<0.3	20
13. Indeno(1,2,3,-c,d)pyrene	<29	<0.43	29
Non-Carcinogenic PNAs (Total)			
14. Acenaphthylene	<660	<0.3	660
15. Benzo(g,h,i)perylene	<51	<0.76	51
16. Phenanthrene	3300	<0.2	660

All results expressed as ppb unless otherwise indicated.

Analyses performed using EPA method 8270 in accordance with SW 846, Third Edition.

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Leah E. Zehner

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LABORATORY REPORT

122556-C

Summit Envirosolution, Inc.
450 N. Sunnyslope Road, Suite 215
Brookfield, WI 53005

Project No.: 951561
Project Name: City of Milwaukee
Sample Description: Soil, 05041310
Sample No.: 18247

Report Date: 5/24/95
Sample Received: 5/5/95
Date Analyzed: 5/19/95

5-2

Compound <u>Purgeables</u>	Concentration Found IN		Method Detection Limit (MDL) ug/kg (ppb)	Quantitation Limit ug/kg (ppb)
	Sample (ppb)	Blank (ppb)		
1. Chloromethane	<10	<1.0	10.0	1000
2. Bromomethane	<7	<0.7	10.0	1000
3. Vinyl chloride	<7	<0.7	10.0	1000
4. Chloroethane	<7	<0.7	10.0	1000
5. Dichloromethane	<8	<0.8	10.0	1000
6. Acrolein	<150	<15.0	10.0	1000
7. Acrylonitrile	<50	<5.0	10.0	1000
8. Trichlorofluoromethane	<5	<0.5	10.0	1000
9. 1,1-Dichloroethene	<5	<0.5	10.0	1000
10. 1,1-Dichloroethane	<5	<0.5	10.0	1000
11. trans-1,2-Dichloroethene	<5	<0.5	10.0	1000
12. Chloroform	<5	<0.5	10.0	1000
13. 1,2-Dichloroethane	<16	<1.6	10.0	1000
14. 1,1,1-Trichloroethane	<5	<0.5	10.0	1000
15. Carbon tetrachloride	<6	<0.6	10.0	1000
16. Bromodichloromethane	<6	<0.6	10.0	1000
17. 1,2-Dichloropropane	<5	<0.5	10.0	1000
18. cis-1,3-Dichloropropene	<5	<0.5	10.0	1000
19. Trichloroethene	<5	<0.5	10.0	1000
20. Benzene	64.0	<0.5	10.0	1000
21. Dibromochloromethane	<18	<1.8	10.0	1000
22. Trans-1,3-Dichloropropene	<9	<0.9	10.0	1000
23. 1,1,2-Trichloroethane	<25	<2.5	10.0	1000
24. 2-Chloroethyl vinyl ether	<900	<90.2	10.0	1000

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LABORATORY REPORT

122556-C

Summit Envirosolution, Inc.
450 N. Sunnyslope Road, Suite 215
Brookfield, WI 53005

Project No.: 951561
Project Name: City of Milwaukee
Sample Description: Soil, 05041310
Sample No.: 18247

Report Date: 5/24/95
Sample Received: 5/5/95
Date Analyzed: 5/19/95

3-2

Compound <u>Purgeables</u>	Concentration Found IN		Method Detection Limit (MDL) <u>ug/kg (ppb)</u>	Quantitation Limit <u>ug/kg (ppb)</u>
	<u>Sample</u> (ppb)	<u>Blank</u> (ppb)		
25. Bromoform	<40	<4.0	10.0	1000
26. Tetrachloroethene	18.7	<0.7	10.0	1000
27. 1,1,2,2-Tetrachloroethane	<39	<3.9	10.0	1000
28. Toluene	1870	<0.5	10.0	1000
29. Chlorobenzene	<6	<0.6	10.0	1000
30. Ethylbenzene	4210	<0.6	10.0	1000
31. Xylenes	4900	<0.6	10.0	1000

Wisconsin Laboratory Certification #999888890.

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Methods performed according to SW-846, "Test methods for Evaluating Solid Waste".

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