



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

Southeast District
2300 N. Dr. Martin Luther King Jr. Dr.
Post Office Box 12436
Milwaukee, Wisconsin 53212
Telephone: 414-263-8500
Telefax: 414-263-8483

June 26, 1992

File Ref: 4440

Robert Knighten
Milwaukee County Department of Public Works
Courthouse Annex Rm. #314
907 North 10th Street
Milwaukee, WI 53233

Dear Mr. Knighten,

RE: PECFA Claims - Lincoln Park Golf Course
Landscape Services - 10190 Watertown Plank Rd.
McGovern Park - 4629 W. Silver Spring Rd.
Noyes Park - 8235 W. Good Hope Rd.

This letter is in response to the listed PECFA Form 4 submittals on the referenced cases.

Please find enclosed a copy of my July 16, 1991, PECFA approval and case closure letter for the cases in question. I signed each of the forms for a completed remedial action and closed the cases as of July 16, 1991.

Since the WDNR has already executed a PECFA Form 4 for a completed cleanup, I am confused about the submittal of an additional form. The cases were reviewed and closed based on closure reports dated April 1991 (McGovern Park, Landscape Services & Lincoln Park) and March 1991 (Noyes Park).

I have signed the additional forms at the request of Foth & Van Dyke based on the premise that the Department of Industry, Labor & Human Relations has requested an additional form.

Sincerely,

Charles J. Krohn
Hydrogeologist

c: DILHR



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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Secretary

Southeast District
2300 N. Dr. Martin Luther King Jr. Dr.
Post Office Box 12436
Milwaukee, Wisconsin 53212
Telephone: 414-263-8500
Telefax: 414-263-8483

July 16, 1991

File Ref: *

Mr. Robert Knighten, Civil Engineer
Milwaukee County Department of Public Works
Courthouse Annex, Room #314
907 North 10th Street
Milwaukee, WI 53233

Dear Mr. Knighten:

RE: Case Closure and/or PECFA Reimbursement Claims for the Following Cases:

Lincoln Park Golf Course
Milwaukee County Landscape Services - 10190 Watertown Plank Rd.
McGovern Park - 4629 W. Silver Spring
Kosciusko Park - 921 W. Becher St.
Noyes Park - 8235 W. Good Hope

Lincoln Park Golf Course

Based on information contained in the Foth & Van Dyke Closure Report for the referenced case, no further action will be required by the Wisconsin Department of Natural Resources at this time. The WDNR reserves the right to require investigation and/or remediation if additional areas of petroleum contamination are detected. The case was originally closed on May 21, 1991, and a letter of notification was sent to Milwaukee County and Foth & Van Dyke.

Please find a copy of the executed PECFA Form 4 enclosed, signifying compliance with WDNR rules and regulations concerning assessment and remediation

Landscape Services

The Milwaukee County Landscape Services Site case was closed by the WDNR on May 21, 1991.

Enclosed please find an executed copy of the PECFA Form 4 for the referenced site signifying compliance with WDNR regulations concerning assessment and remediation.

McGovern Park

The Milwaukee County McGovern Park Site was closed by the WDNR on May 21, 1991.

Enclosed please find an executed copy of the PECFA Form 4 for the referenced site signifying compliance with WDNR regulations pertaining to assessment and remediation.

Kosciuszko Park Tank P-62

Based on information contained in the Foth & Van Dyke Report UST Closure Report dated April 1991, no further action will be required by the WDNR at this time. The WDNR reserves the right to require assessment and/or remedial action if additional petroleum contamination is detected in the future.

Enclosed please find a copy of the executed PECFA Form 4 for assessment and remediation at the Kosciuszko Park site. The WDNR signature signifies compliance with regulations pertaining to assessment and remedial action.

Noyes Park

Based on information contained in the Foth & Van Dyke Closure Activities Report dated March 1991, no further action will be required by the WDNR at this time. The WDNR reserves the right to require assessment and/or remedial action if additional petroleum contamination is detected at the Noyes Park site in the future.

Enclosed please find a copy of the executed PECFA Form 4 for assessment and remediation at the Noyes Park site. The WDNR signature signifies compliance with regulations pertaining to assessment and remedial action.

After review of the cases listed above, it was found that the Application to Treat or Dispose of Contaminated Soils was not submitted for Noyes Park, Lincoln Park or McGovern Park. As a condition of WDNR approval for the listed PECFA Forms, please submit the referenced applications for the three County sites. In the future please have your consultant include the Application to Treat or Dispose in the report. If future reports do not contain the application I will not process the closure or PECFA forms.

Sincerely,

Charles J. Krohn
Hydrogeologist

c: Foth & Van Dyke

**DNR SITE INVESTIGATION AND
REMEDIAL ACTION PLAN REVIEW**

Section 101.143 (3) (c) 4, Wis. Stats., requires that a claimant obtain written approval from the Department of Natural Resources (DNR) when requesting reimbursement for activities in response to a discharge from a commercial petroleum product storage system or home oil tank. The DNR approval must indicate that the site investigation and remedial action plan is adequate to meet requirements of s. 144.76, Wis. Stats. The DNR approval is created for the purpose of meeting the requirements of s. 101.143 (3), Wis. Stats., only and does not bar the DNR from requiring that additional investigation and/or remediation activities be performed by persons responsible under s. 144.76, Wis. Stats.

DNR Use Only

Any DNR / DOJ Enforcement Action(s) or DNR LUST Trust Expenditures on this site? Yes No

If answer is yes, please provide pertinent details on attached sheet.

Claimant's Name Milwaukee County	Remedial Action Site Name (if business) Lincoln Golf
Street Address 907 North 10TH Street	Remedial Action Site Address 1000 West Hampton Avenue
City, State, Zip Code Milwaukee, WI 53233	City, State, Zip Code Glendale, WI 53209
Claimant's Telephone Number (414) 278-4891	Telephone Number of Site (414) 278-4891

Claimant is
 Owner Operator Other - please specify:

Approval requested for: Petroleum Product Storage System Home Oil Tank System Aboveground

FOR DNR USE ONLY (Indicate Whether Completed Remedial Action or Other Action(s))

A copy of this completed document must be submitted to DNR for approval of initial activities (emergency action, site investigation and remediation) in accordance with s. 101.143 (3) (c) 4, Wis. Stats.

Completed Remedial Action (complete cleanup and single claim for reimbursement) (Steps 1 through 3)

Progress Payments For:

Emergency Action (Step 1 - check only if emergency action was performed)

Completion of Site Investigation (Step 1) and Proposed Remedial Action Plan (Step 2)

Remedial Action (Step 3)

Operation/Maintenance and Environmental Monitoring (annual claim for remedial action activities) (Step 4)

Site Investigation By Order of DNR And/Or DILHR - No Remedial Action

Check Appropriate
Box(es)

The DNR received a request for approval of the above identified activities for the site listed on this document on the following date _____.

The DNR response for purposes of s. 101.143 (3), Wis. Stats., is attached.

Remedial action activities conducted by owners/operators are not eligible for funding under 42 USC 6991 (L.U.S.T. Funding). (See s. 101.143 (3) (a) 2., Wis. Stats.)

Send one copy of this completed form to the address shown in the upper right corner and one copy to the claimant.

Reviewer's Signature _____ Date Signed _____

Reviewer's Title _____



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besedny
Secretary

Box 12436
Milwaukee, Wisconsin 53212
Fax: (414) 562-1258

May 21, 1991

File Ref: 4440

Mr. Robert Knighten, Civil Engineer
Milwaukee County Department of Public Works
Courthouse Annex, Room #314
907 North 10th Street
Milwaukee, WI 53233

Dear Mr. Knighten:

RE: Milwaukee Co - Lincoln Park Golf Service Yard, Tank P-21,, 1301 W
Hampton Av, Milwaukee, WI

This is to inform you that the Department of Natural Resources is not
requiring further action at this time at Milwaukee Co - Lincoln Park Golf
Service Yard, Tank P-21.

This decision is based on "Underground Storage Tank Closure Report" dated
April 5, 1991 and submitted on your behalf by Foth and Van Dyke..

However, if any further contamination is encountered, additional investigation
and/or remedial action may be required.

If you have any questions please contact me at (414) 263-8666 or at the above
address.

Sincerely,

Charles Krohn
Hydrogeologist, Environmental Response Section

c: Richard Voskamp, Foth and Van Dyke
SED case file

Foth & Van Dyke

REPORT

**UST Closure Report
Lincoln Park
Tank No. P-21
Milwaukee, Wisconsin**
Scope ID: 91M29

*Milwaukee County
Department of Public Works*

April 1991

Foth & Van Dyke

Two Park Plaza, Suite 950
10850 West Park Place
Milwaukee, WI 53224-3619
414/359-2500
FAX: 414/359-2519

Engineers

Architects

Planners

Scientists

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Two Park Plaza, Suite 950
10850 West Park Place
Milwaukee, WI 53224-3619
414/359-2500
FAX: 414/359-2519

April 5, 1991

Mr. Robert L. Knighten, Civil Engineer
Milwaukee County
Department of Public Works
Engineering, Environmental and Energy Services
Courthouse Annex, Room #314
907 North 10th Street
Milwaukee, Wisconsin 53233

91M29

Dear Mr. Knighten:

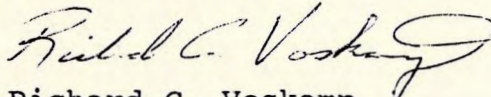
RE: UST Closure Report
Lincoln Park Golf Service Yard
Tank No. P-21
Milwaukee, Wisconsin

Foth & Van Dyke is pleased to submit our report entitled "UST Closure Report, Lincoln Park Golf Service Yard, Tank No. P-21, Milwaukee, Wisconsin". We have enclosed five copies of the report and submitted a copy to the Wisconsin Department of Natural Resources, for the Department's review and comment. This report presents the results of all activities that have taken place regarding Tank No. P-21 and finalizes the information presented in our letter report dated January 3, 1991.

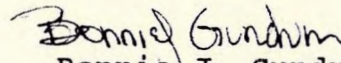
Please give myself or Bonnie Gundrum a call if you have any questions regarding this report.

Sincerely,

FOTH & VAN DYKE



Richard C. Voskamp
Environmental Technician



Bonnie J. Gundrum, CHMM
Section Manager

RCV:BJG:jaw

Enclosure

DISTRIBUTION LIST

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Mr. Robert L. Knighten, Civil Engineer
Milwaukee County
Department of Public Works
Engineering, Environmental & Energy
Services
Courthouse Annex, Room #314
907 North 10th Street
Milwaukee, Wisconsin 53233

1

Mr. Chip Krohn
Wisconsin Department of Natural Resources
Southeast District Office
2300 North Martin Luther King Jr. Drive
P.O. Box 12436
Milwaukee, Wisconsin 53212

UST CLOSURE REPORT
LINCOLN PARK GOLF SERVICE YARD
TANK NO. P-21
MILWAUKEE, WISCONSIN

SCOPE I.D. 91M29

Prepared for:

MILWAUKEE COUNTY
Department of Public Works
Engineering, Environmental and
Energy Services
Courthouse Annex, Room #314
907 North 10th Street
Milwaukee, Wisconsin 53233

Prepared by:

FOTH & VAN DYKE & Associates Inc.
Two Park Plaza, Suite 950
10850 West Park Place
Milwaukee, Wisconsin 53224-3619

APRIL 1991

REUSE OF DOCUMENTS

This document has been developed for a specific application and not for general use; therefore, it may not be used without the written approval of Foth & Van Dyke and Associates. Unapproved use is at the sole responsibility of the unauthorized user.

Foth & Van Dyke

Two Park Plaza, Suite 950
10850 West Park Place
Milwaukee, Wisconsin 53224-3619
414/359-2500
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1.0 INTRODUCTION

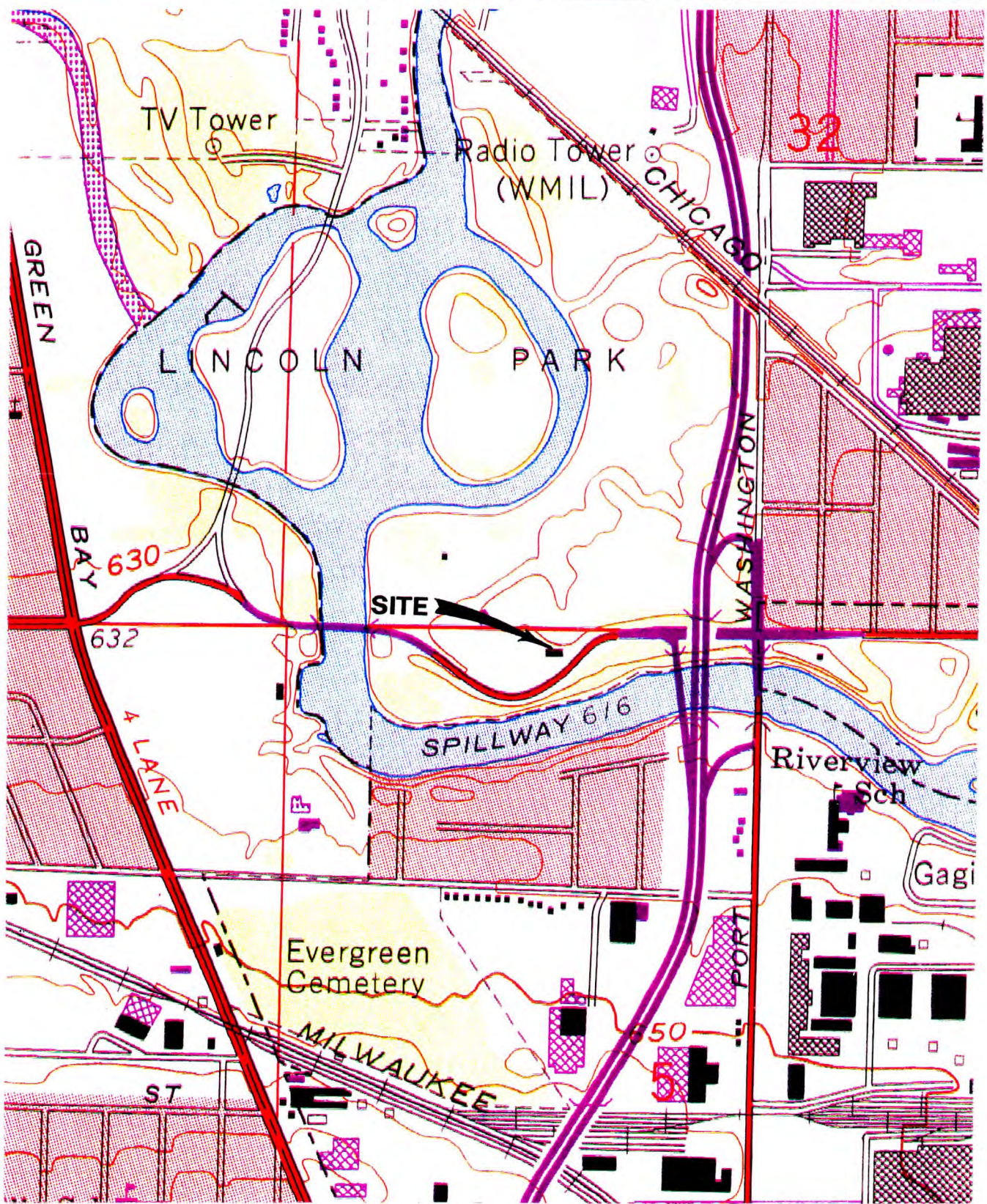
Presented herein are the results of an underground storage tank closure and environmental site assessment prepared in reference to one underground gasoline tank located at Lincoln Park Golf Service Yard. The site consists of a Milwaukee County service yard and maintenance facility located at 1301 West Hampton Avenue, Milwaukee, Wisconsin. The subject underground storage tank (UST) consisted of a 1,000-gallon unleaded gasoline tank. An underground petroleum tank inventory form for the 1,000-gallon UST is presented within Appendix A. Figures 1-1 and 1-2 include the location of the site relative to city streets as well as the site specific details, including the former location of the UST, limit of excavation, and sample locations. As shown in Figure 1-2, the tank was located approximately 8.0 feet east of the maintenance building and supplied one fuel dispenser island situated approximately 9.0 feet west of the former tank.

The UST was pumped of product prior to being removed from the excavation. Tank liquid disposal documentation is included in Appendix B. The tank was vented, cut, and taken off-site by Petroleum Equipment, Inc. of Milwaukee and disposed as scrap metal. The City of Milwaukee Fire Department was notified and a representative was present on-site to document the removal.

Foth & Van Dyke was contracted by Milwaukee County to perform environmental site assessment activities associated with tank closure procedures and to document activities performed during removal of the UST as required by the Wisconsin Department of Natural Resources (WDNR).

Petroleum Equipment, Inc. was contracted by Milwaukee County to remove and dispose of the tank and associated piping and, if necessary, to overexcavate and remove contaminated soils from the site to an approved landfill.

This report is structured to satisfy WDNR site assessment requirements at the Lincoln Park Golf Service Yard. It is presented to document activities performed and conditions observed during overexcavation. The following subsections discuss site conditions and laboratory analysis results of soil samples collected.



**SOURCE: USGS 7.5 MIN. QUADRANGLE
MILWAUKEE, WISCONSIN**

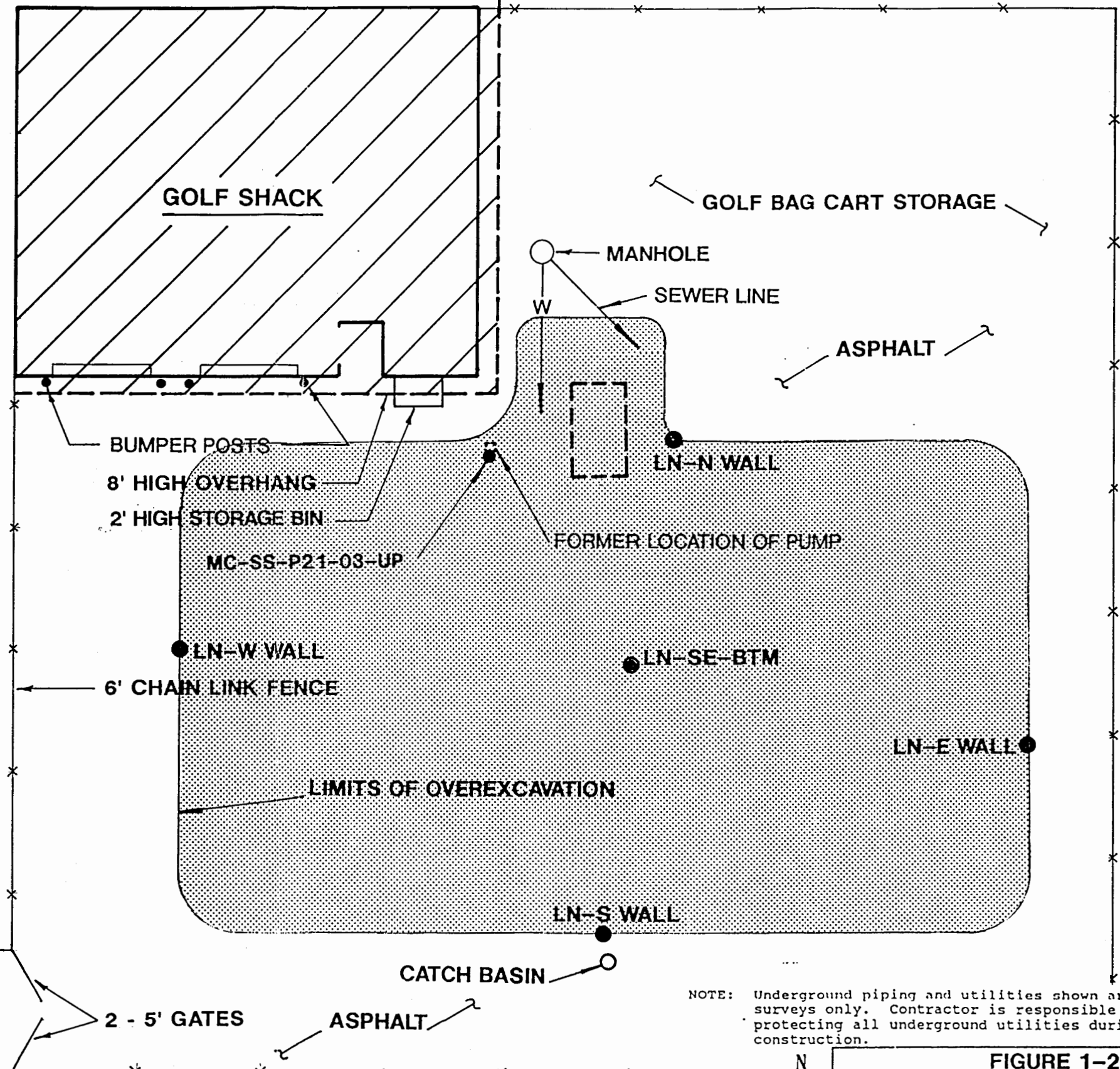


FIGURE 1-1
SITE LOCATION MAP
LINCOLN PARK GOLF SERVICE YARD
MILWAUKEE, WISCONSIN

SCALE: NOT TO SCALE	DATE: MARCH, 1991
PREPARED BY: FOTH & VAN DYKE	BY: B.J.Z.

LEGEND

● OVEREXCAVATION SOIL SAMPLES



NOTE: Underground piping and utilities shown are based on field surveys only. Contractor is responsible for verifying and protecting all underground utilities during excavation and construction.

FIGURE 1-2	
SITE/LIMITS OF EXCAVATION LINCOLN PARK GOLF SERVICE YARD MILWAUKEE, WI.	
SCALE: 1"=10'-0"	DATE: APRIL, 1991
PREPARED BY: FOTH & VAN DYKE	BY: B.J.Z.

2.0 PURPOSE AND SCOPE OF ASSESSMENT

2.1 Purpose of Assessment

The purpose of this assessment was to document activities performed during overexcavation, as required by the WDNR.

2.2 Scope of Assessment

The scope of our site assessment for this project included the following:

- Oversee and document overexcavation activities to remove contaminated soil on the site.
- Use a PID and olfactory techniques in the field to assess whether petroleum contamination may exist above WDNR guideline standards of 10.0 parts-per-million (ppm) total petroleum hydrocarbons (TPH).
- Collect confirmatory soil samples from the bottom and sidewalls of the excavation for laboratory analysis of TPH.
- Maintain client and regulatory agency communications throughout the duration of the project.
- Prepare a report presenting findings and conclusions.

3.0 REGIONAL AND LOCAL GEOLOGY/HYDROGEOLOGY

The geology of Milwaukee County, Wisconsin is characterized by Quaternary aged unconsolidated glacial deposits (i.e. clayey, silty tills, and sand and gravel outwash) ranging in thickness from 35 to 200 feet overlying a thick (>2,000 feet) sequence of Silurian, Ordovician, and Cambrian aged dolomite, shale, and sandstone. Precambrian granitic rocks underlie the sedimentary sequence. Subsurface conditions encountered at the site consisted of brown silty clays to a depth of 8 feet with sand seams from 8 to 10 feet.

Based on profile descriptions from the south sidewall of the excavation, the following changes in lithology were encountered to a depth of 8.5 feet:

- 0 to 1.0 feet Asphalt and base course.
- 1.0 to 7.5 feet Light brown and gray course and fine sand.
- 7.5 to 8.5 feet Light brown clay.

Groundwater was not encountered in the excavation. According to Wisconsin Geological & Natural History Survey (WGNHS) well logs from the immediate area (Appendix C), depth to groundwater ranges from approximately 20 to 50 feet below the ground surface.

4.0 SITE ASSESSMENT ACTIVITIES

An engineering technician from Foth & Van Dyke was on-site July 25, 1990 to perform initial environmental monitoring procedures and sample collection for the UST closure assessment. The initial excavation was created by removing surface material (i.e. asphalt) and removing unconsolidated material surrounding the tank, thus exposing the sides and top of the tank which was subsequently removed and taken off-site by Petroleum Equipment, Inc. Due to the fact that petroleum contamination of soil above WDNR action levels (as indicated by environmental monitoring activities and analytical results) was encountered within the excavation, an overexcavation of contaminated soils was initiated on February 27 through March 6, 1991 to complete the overexcavation and collect confirmatory soil samples. The excavation was completed by removing soil from the north, south, east, and west sidewalls, and the bottom of the excavation (see Figure 1-2 for limits of excavation).

The UST was located approximately 1.5 feet below the ground surface and the associated fuel supply piping was located approximately 1.0 foot below the ground surface. The initial tank removal resulted in a 10-foot by 7-foot by 9-foot average deep excavation. Overexcavation activities resulted in a 70-foot by 43-foot by 9-foot average deep excavation.

Inspection of the tank upon removal revealed that it was constructed of steel and was single-walled. The UST was in poor condition with numerous pin sized holes present at the tank bottom and ends. The fuel supply piping, however, was in good condition with no visible staining, holes or excessive corrosion present.

Excavated soils were monitored for ionizable organic compounds (IOCs) using a Photoionization Detector (PID). The PID was cleaned and calibrated prior to use according to manufacturers

specifications for the detection of IOCs using an isobutylene standard of 100 ppm. PID readings ranged from 550 to 1,202 ppm during initial tank removal activities and less than 115 ppm during overexcavation activities.

4.1 Soil Sampling Activities

Soil samples were collected at depths of 5.0 to 14.5 feet for total petroleum hydrocarbons by gas chromatographic analysis (TPH-GC). Each sample was collected from an area of highest suspected contamination based on field observations such as PID readings and the presence of soil staining and/or petroleum odors. A waste characterization sample was also collected so that stockpiled soils could be evaluated for landfill disposal (see Appendix D). Soil sampling procedures are outlined below.

- The first 3 to 4 inches of soil was scraped away prior to sampling in order to collect the sample from a previously unexposed/undisturbed soil surface which has undergone minimal volatilization of hydrocarbon contaminants (if present) and thus be more representative of the medium being sampled.
- Each sample was collected with a decontaminated stainless steel sample spoon. Care was taken to cause the least possible disturbance to each sample.
- The samples were all placed in 120-ml glass sample jars, filled completely with no headspace, labelled with sample identification numbers and collection date, and placed immediately in a cooler with bagged ice in order to maintain the samples at 4°C.
- The samples were thermally preserved for transportation and sent with chain-of-custody/analysis request documentation to a WDNR-certified laboratory.

Table 4-1 includes analytical results and field readings for each of the soil samples taken during tank removal and overexcavation activities. Laboratory analysis of the confirmation soil samples, collected upon completion of the overexcavation, revealed that TPH concentrations were below laboratory detection limits. Special waste profile documentation for landfill disposal is presented within Appendix D. Analytical results/chain-of-custody sheets for the data found in Table 4-1 are presented within Appendix E.

TABLE 4-1

Soil Analytical Results and Field Readings
Lincoln Park Golf Service Yard
Glendale, Wisconsin

Sample I.D.	Excavation Location	Depth Below Surface (ft.)	Total Petroleum Hydrocarbons by Gas Chromatograph (TPH-GC) in parts-per-million (ppm)	Benzene, Ethylbenzene, Toluene, and Xylene (BETX) (ppm)	In-Situ PID Analysis (ppm)
<u>Tank Removal</u>					
MC-SS-P21-01N	North End	10.0	No Detects	No Detects	550
MC-SS-P21-02S	South End	10.0	No Detects	---	1,202
MC-SS-P21-03UP	Under Pump	2.5	22.8	---	640
<u>Overexcavation</u> (Confirmation Soil Samples)					
LN-N Wall	North Wall	8.0	No Detects	---	0.0
LN-S Wall	South Wall	7.0	No Detects	---	0.0
LN-E Wall	East Wall	6.0	No Detects	---	0.0
LN-W Wall	West Wall	5.0	No Detects	---	0.0
LN-SE Btm.	Southeast Bottom	14.5	No Detects	---	0.0

5.0 CONCLUSIONS AND RECOMMENDATIONS

Foth & Van Dyke recommends that no further action be required at the site for the following reasons:

- Soil contamination was found in soil samples collected at the time the tank was removed.
- PID activities conducted during remedial monitoring activities revealed that IOC concentrations were reduced to less than 1 ppm. Confirmatory soil samples, collected upon completion of the overexcavation, contained TPH levels below laboratory detection limits.

6.0 LIMITATIONS OF ASSESSMENT

This report was prepared under constraints of cost, time, and scope, and reflects a limited assessment and evaluation rather than a full, total, complete or extensive assessment and evaluation.

Our assessment was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by Professional Consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusion and professional advice included in this report.

The findings of this report are valid as of the present date of the assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge, or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

If the interpretations and conclusions contained in this report are based upon the result of independent laboratory tests and analysis intended to detect the presence and/or concentration of certain chemical constituents in samples taken from the subject property, such testing and analysis have been conducted by an independent testing laboratory. Foth & Van Dyke has no control over such testing and analysis and, therefore, disclaims any responsibility for any errors and omissions arising therefrom.

If the assessment contained in this report is based upon observation of conditions at the facility/site and/or information provided by the client and/or investigation of

records, and it does not include sampling of soil, rock, groundwater, surface water, air, on-site substances or materials, it is, therefore, not possible to confirm the presence or absence of toxic or hazardous substances, wastes or materials in the environments associated with the facility/site.

If subsurface exploration was performed and presented in the report, any subsurface exploration cannot reveal totally what is below the surface. Depending upon the sampling method and frequency, every soil condition may not be observed, and some materials or layers which are present in the subsurface may not be noted.

This report is issued with the understanding that it is the responsibility of the owner(s) to ensure that the information and recommendations contained herein are brought to the attention of the appropriate regulatory agency(ies).

APPENDIX A

Underground Petroleum Tank Inventory Form

UNDERGROUND
PETROLEUM PRODUCT
TANK INVENTORY

For Office Use Only:
Tank ID #

Instructions

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored, currently store or will store petroleum or regulated substances. 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.

- This Individual Tank Registration Applies To (check one):
- 1. Tank still in active use
 - 2. Inoperative or abandoned tank with product still in tank
 - 3. Inoperative or abandoned tank with no known product in tank
 - 4. Location for which tank has been removed ¹⁹⁹⁰
 - 5. New tank to be installed (provide date): 1990 (RETRACT)

A. IDENTIFICATION

<p>1. Name of Installation <u>LINCOLN GOLF P-21</u></p> <p>Street Address of Installation <u>1000 W. HAMPTON AVE</u></p> <p><input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of: <u>GLENDALE</u></p> <p>State <u>WIS.</u> Zip Code <u>53209</u> County <u>MILW.</u></p>	<p>2. Name for Mailing if Different Than #1</p> <p>Mailing Address if Different Than #1</p> <p><input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:</p> <p>State Zip Code County</p>
<p>3. Name of Contact Person <u>DAN JAHN</u></p> <p>Street Address <u>1000 W. HAMPTON AVE</u></p> <p><input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of: <u>GLENDALE</u></p> <p>State <u>WIS.</u> Zip Code <u>53209</u> County <u>MILW.</u></p> <p>Telephone Number (include area code) <u>414 462-2400</u></p>	<p>4. Name of Owner if Different from #3 <u>MILWAUKEE COUNTY</u></p> <p>Street Address</p> <p><input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of:</p> <p>State Zip Code County</p> <p>Telephone Number (include area code)</p>

5. Fire Department Name and ID # <u>GLENDALE</u>	6. Tank Age (date installed, if known; or years old) <u>1973</u>	7. If Tank Abandoned, Give Date (mo / day / yr)
---	---	---

8. Tank Capacity (in gallons) <u>1000</u>	9. Tank Manufacturer's Name, if known: <u>NOT KNOWN</u>
--	--

B. TANK CONSTRUCTION:

1. <input checked="" type="checkbox"/> Bare Steel	2. <input type="checkbox"/> Cathodically Protected Steel	3. <input type="checkbox"/> Coated Steel
4. <input type="checkbox"/> Fiberglass	5. <input type="checkbox"/> Other (specify): _____	

C. TANK CONTENTS:

1. <input type="checkbox"/> Diesel	2. <input type="checkbox"/> Leaded Gasoline	3. <input checked="" type="checkbox"/> Unleaded Gasoline
4. <input type="checkbox"/> Fuel Oil	5. <input type="checkbox"/> Gasohol	6. <input type="checkbox"/> Other (specify): _____

D. TYPE OF USER (check one):

1. <input type="checkbox"/> Gas Station	2. <input type="checkbox"/> Bulk Storage	3. <input type="checkbox"/> Utility	4. <input type="checkbox"/> Mercantile
5. <input type="checkbox"/> Industrial	6. <input checked="" type="checkbox"/> Government	7. <input type="checkbox"/> School	8. <input type="checkbox"/> Residential
9. <input type="checkbox"/> Agricultural	10. <input type="checkbox"/> Other (specify): _____		

Signature of Person Completing Form: <u>[Signature]</u>	Date Completed: <u>1-13-86</u>
--	-----------------------------------

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

Shipper's No. 52807

PETRO EQUIPMENT

CARRIER: NATIONAL TANK SERVICE OF WISC INC.

SCAC

Carrier's No. _____
 Date _____

TO: NATIONAL TANK SERVICE OF WISC INC
 Consignee 1813 SO 73RD STREET
 Street WEST ALLIS, WISC
 Destination Zip _____

FROM: PETROEUM EQUIPMENT / MILW. COUNTY PARKS
 Shipper LINCOLN PARK
 Street MILWAUKEE, WISC
 Origin Zip _____

Route: _____ Vehicle Number _____

No. Shipping Units	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (or exemption)
	1-1,000 GALLON GASOLINE TANK FOR CLEANING AND DISPOSAL OF SLUDGE AND TANK					
	FEDERAL & STATE REGULATIONS					
	Generators material disposed of in accordance with all rules and regulations at our Hazardous Waste Facility, 1813 S. 73rd St. West Allis, WI					
	E.P.A. Indent No. W I D O 73838880 and WI D.N.R. No. 10848					

*Received
 B. Scott
 7/24/90*

Remit C.O.D. to: _____
 Address: _____
 City: _____ State: _____ Zip: _____

C.O.D. FEE:
 Prepaid
 Collect \$ _____
COD Amt: \$ _____

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property hereby specifically stated by the shipper to be not exceeding \$ _____ Per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on 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)

FREIGHT CHARGES
 PREPAID COLLECT

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of 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 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.

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.
 Per _____

PLACARDS SUPPLIED

PLACARDS REQUIRED

YES NO — FURNISHED BY CARRIER
 DRIVER SIGNATURE: _____

SHIPPER: PETROLEUM EQUIPMENT
 PER: _____
 DATE: _____

CARRIER: PETROLEUM EQUIPMENT
 PER: B. Scott
 DATE: _____

EMERGENCY RESPONSE TELEPHONE NUMBER: _____

Manned 24 hours/day by a person with knowledge of the hazards of the material and emergency response information or who has access to a person with that knowledge.

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

WELL CONSTRUCTION REPORT
 WISCONSIN STATE BOARD OF HEALTH
 WELL CONSTRUCTION DIVISION

JAN 30 1943

Note: Section 31 of the Wisconsin Well Construction Code, having the force and effect of law, provides that within thirty days after completion of every well the driller shall submit a report covering all essential details of construction to the State Board of Health on a form provided by the Board.

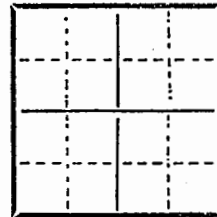
Owner John Mohr Driller Jake Oswald
 Street or RFD 5383 No 13 st. Post Office Milwaukee Wis
 Post Office Milwaukee wis Date Nov 18 Permit No. 82

LOCATION OF PREMISES

Milwaukee County Milwaukee Town

The square below represents a section of land divided into 40 acre tracts. Mark the position of the premises in the section.

SE Sec 31 T8N R22 E



Sec. No. 31
 Twp. No. 8 N
 Range 22 (E/W)

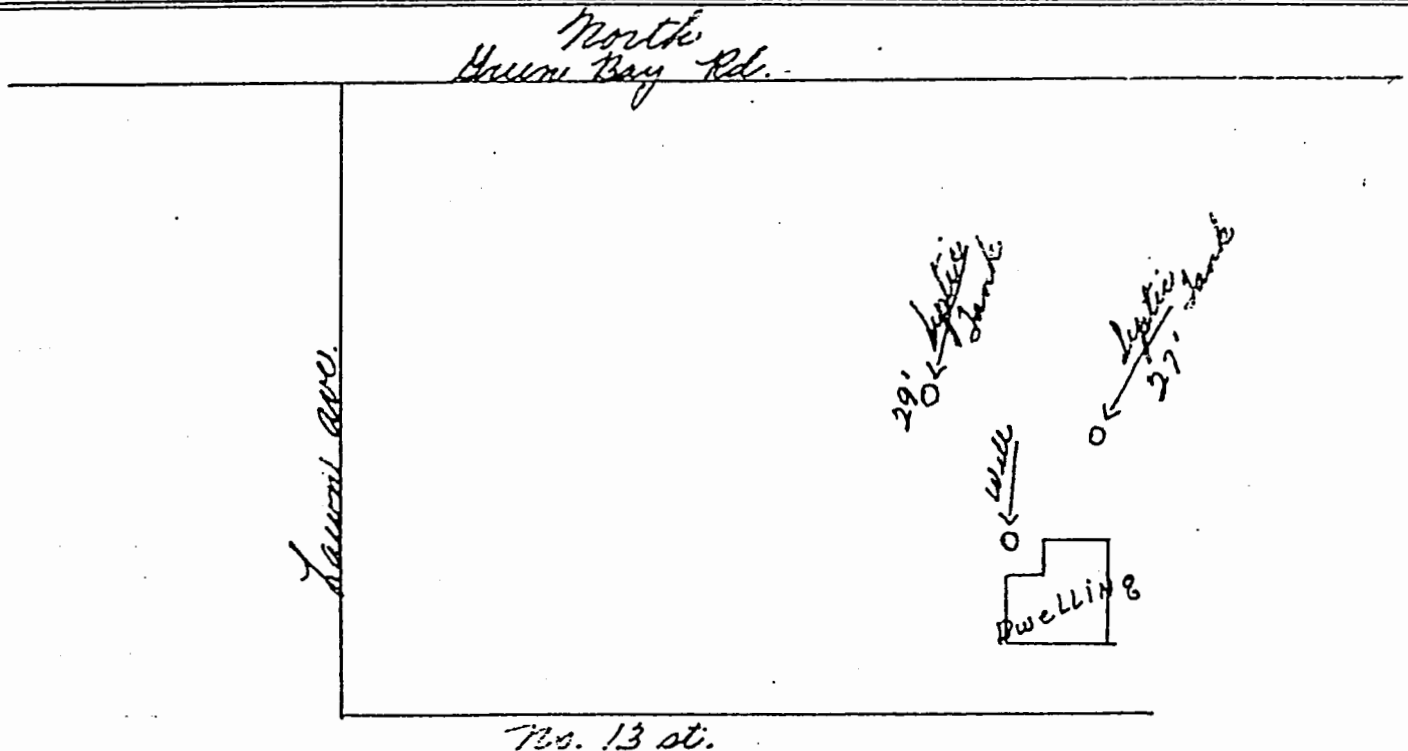
Describe further by subdivision, plat, district, lake, lot.

block, nearest principal highway, etc., whichever apply.

3 Block East of Sun Bay Road
134 Lawn Ave

DIAGRAM OF PREMISES

See Well Construction Report bulletin. In making the diagram in the space below consider 10 ft. as the distance between lines. Be sure to indicate NORTH.



WELL LOG and REPORT

Method of making report, refer to bulletin entitled "Well Construction Report." 7-5-39.

<p>This column indicate the kind of casing, liner, shoe and other accessories used.</p>	<p>WELL DIAGRAM Use a red line to show casing or liner pipe. Use black for drill or borehole.</p>	<p>In this column state the kind of formations penetrated, their thickness in feet and if water bearing.</p>	<p>Record of FINAL Pumping test</p>	
	<p>Inches Diameter 2 3 4 5 6 8 10 12 14 16 18</p>	<p>Depth</p>		
<p>Casing Pipe - used Blk.</p> <p>Drive shoe - Forged steel</p> <p>- Key -</p> <p>= Casing pipe</p> <p>= Drill Hole</p> <p>= Drill Cuttings</p> <p>5" Hole 25'</p> <p>178'</p> <p>184'</p> <p>200'</p> <p>215'</p> <p>400'</p> <p>800'</p> <p>1200'</p>		<p>3</p> <p>16'</p> <p>25</p> <p>50</p> <p>75</p> <p>87'</p> <p>100</p> <p>150</p> <p>178'</p> <p>184'</p> <p>200</p> <p>215'</p> <p>400</p> <p>800</p> <p>1200</p>	<p>Filling 3'</p> <p>Lake sand 13'</p> <p>Blue clay 71'</p> <p>Clay Hard Pan 91'</p> <p>Lime stone clay mixed 6'</p> <p>Gray Lime stone (water bearing) 31'</p>	<p>Duration of test Hours..... 6</p> <p>Pumping rate G.P.M..... 10</p> <p>Depth of pump in well. Ft..... 50'</p> <p>Standing water-level (from surface) Ft..... 12'</p> <p>Water-level when pumping Ft..... 20'</p> <p>Water. End of test. Clear <input checked="" type="checkbox"/> Cloudy..... Turbid.....</p> <p>Was the well sterilized? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>To which laboratory was sample sent? <u>Kenoska Wis.</u></p> <p>Date <u>Nov. 18-1942</u></p> <p>Was the well sealed on completion? Yes <input checked="" type="checkbox"/> No.....</p> <p>How high did you leave the casing-pipe above grade? <u>6"</u></p> <p>Well was completed Date <u>Nov. 18-1942</u></p>
	<p>Draw the diagram to show the right half only</p>			<p>Well Constructor <u>Jake Oswald</u> Signature</p>

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County MILWAUKEE Town Village City GLENDALE Check one and give name
2. Location 4852 N 3rd ST 2 N Navajo T NESW Sec 32
Name of street and number of premise or Section, Town and Range numbers T8NR00E
3. Owner or Agent A.A.A. BUILDERS
Name of individual, partnership or firm
4. Mail Address 4852 N 3rd ST
Complete address required
5. From well to nearest: Building 15 ft; sewer 75 ft; drain _____ ft; septic tank _____ ft;
dry well or filter bed _____ ft; abandoned well _____ ft.
6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	0	31			
7	31	72			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
7	STEEL	0	31

9. GROUT:

Kind	From (ft.)	To (ft.)
CEMENT	5	31
CLAY & SAND	0	5

11. MISCELLANEOUS DATA:

Yield test: 4 Hrs. at 10 GPM.
 Depth from surface to water-level: 38 ft.
 Water-level when pumping: 38 ft.
 Water sample was sent to the state laboratory at:
KENOSHA on Nov. 3 1952
 City

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
SAND	0	8
SANDY CLAY	8	29
HARD PAN	29	31
LIME ROCK	31	72

Construction of the well was completed on:
NOV 1 1952

The well is terminated 6 inches
 above, below the permanent ground surface.

Was the well disinfected upon completion?
 Yes No _____

Was the well sealed watertight upon completion?
 Yes No _____

Signature Joseph Kravitz Registered Well Driller
 5339 N 35th ST MILWAUKEE 9
 Complete Mail Address
 Please do not write in space below

Rec'd _____ No. _____	10 ml	10 ml	10 ml	10 ml	10 ml
Ans'd _____	Gas—24 hrs. _____				
Interpretation _____	48 hrs. _____				
_____	Confirm _____				
_____	B. Coli _____				
_____	Examiner _____				

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH
See Instructions on Reverse Side

1. County Milwaukee {Town Village City North Milwaukee
NE 5171 Sec 32 T 8 N R 22 E Check one and give name

2. Location 5171 Port Washington Road
Name of street and number of premise or Section, Town and Range number

3. Owner or Agent Gene Posner
Name of individual, partnership or firm

4. Mail Address 5171 Port Washington Road, Milwaukee, Wis.
Complete address required

5. From well to nearest: Building 15 ft; sewer _____ ft; drain _____ ft; septic tank _____ ft;
dry well or filter bed _____ ft; abandoned well _____ ft.

6. Well is intended to supply water for: Home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	0	40	6	40	186

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Std. Wt. Steel	0	143

9. GROUT:

Kind	From (ft.)	To (ft.)
Mud cuttings	0	45

11. MISCELLANEOUS DATA:

Yield test: 5 Hrs. at 15 GPM.
Depth from surface to water-level: 30 ft.
Water-level when pumping: 45 ft.
Water sample was sent to the state laboratory at:
Kenosha on May 11 1952
City

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Black Soil	0	1
Yellow clay	1	17
Blue clay	17	100
Sandy clay	100	140
Hard pan	140	143
Lime stone	143	186

Construction of the well was completed on:
May 10 1952

The well is terminated 8 inches
 above, below the permanent ground surface.

Was the well disinfected upon completion?
Yes No _____

Was the well sealed watertight upon completion?
Yes No _____

Signature Lee Hajdlovski
Registered Well Driller

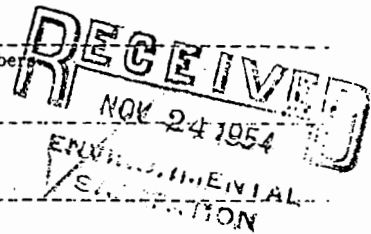
Rt. 13, Box 281, South Howell, Milwaukee 7
Complete Mail Address Wis.

Please do not write in space below

Rec'd _____ No. _____
Ans'd _____
Interpretation _____
C5

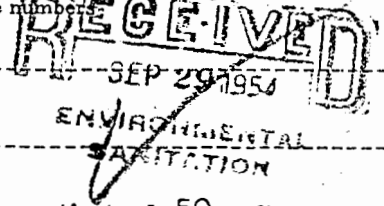
10 ml 10 ml 10 ml 10 ml 10 ml
Gas—24 hrs. _____
48 hrs. _____
Confirm _____
B. Coli _____

Examiner _____



WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH
See Instructions on Reverse Side

1. County Milwaukee } Town
 } Village Glendale
 } City Check one and give name
2. Location 5371 N. 6th St. Milwaukee } NESEMN Sec 32 T8N R22E
 Name of street and number of premise or Section, Town and Range number
3. Owner or Agent Walter Risch
 Name of individual, partnership or firm
4. Mail Address 5371 N. 6th St. Milwaukee 17 Wisc.
 Complete address required
5. From well to nearest: Building 15 ft; sewer XX ft; drain 15 ft; septic tank 50 ft;
 dry well or filter bed 50 ft; abandoned well _____ ft.
6. Well is intended to supply water for: Home water supply



7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
9	0	20			
6	0	183			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	19.45 BLK. WD	0	171

9. GROUT:

Kind	From (ft.)	To (ft.)
Drill cuttings	0	20

11. MISCELLANEOUS DATA:

Yield test: 6 Hrs. at 10 GPM.
 Depth from surface to water-level: 50 ft.
 Water-level when pumping: 75 ft.
 Water sample was sent to the state laboratory at:
Madison on 7/6 1954
 City

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Clay sandy	0	130
Gravel	8	138
clay	14	152
gravel	19	171
Limestone dark	12	183

Construction of the well was completed on:

July 6 1954

The well is terminated 8 inches
 above, below the permanent ground surface.

Was the well disinfected upon completion?

Yes _____ No

Was the well sealed watertight upon completion?

Yes No _____

Signature Garber & Son B. G. Garber 5807 W. Hampton RD. Milwaukee 16
 Registered Well Driller Complete Mail Address

Please do not write in space below

Rec'd _____ No. _____
 Ans'd _____
 Interpretation _____

10 ml 10 ml 10 ml 10 ml 10 ml
 Gas—24 hrs. _____
 48 hrs. _____
 Confirm _____
 B. Coli _____

Examiner _____

Parkview Landfill
R96 W13475 County Line Road
Menomonee Falls, WI 53051
(414) 253-8620 • FAX (414) 255-3798

APR 3 1991



A Waste Management Company

April 2, 1991

Foth & Van Dyke
ATTN: Rick Voskamp
10850 W. Park Place - Suite 950
Milwaukee, WI 53224

Dear Mr. Voskamp:

Between the dates of 2/27/91 - 3/7/91 there were 95 loads of contaminated soil disposed of at our landfill. This soil generated from Milwaukee County Department of Engineering, Environment, & Energy (Profile #WMA167720). The total amount was 1,512.05 tons.

Thank You,

A handwritten signature in cursive script that reads "Roxanne Palmquist". The signature is written in black ink and is positioned above the typed name.

Roxanne Palmquist
Accounts Receivable



Waste Management of North America GENERATOR'S SPECIAL WASTE PROFILE SHEET

TYPE A Waste
PLEASE PRINT IN INK OR TYPE

WMA 167720
Waste Profile Sheet Code

INSTRUCTIONS FOR COMPLETING THIS FORM A

Submitted

Renewal Date of Service Agreement: _____

1/29/91

WMNA Sales Rep#: _____

WHERE IS THE WASTE GENERATED?

- Generator Name: MILWAUKEE COUNTY PARKS
- Facility Address (site of waste generation): 1301 W. HAMPTON AVE. LINCOLN PARK GOLF SERVICE
Generator City, State/Province: GLENDALE, WI. 4. Zip/Postal Code: _____
Generator USEPA/Federal ID: NA
- Generator State/Province ID: NA
- Technical Contact: FOTH + VAN DYKE 8. Phone: (414) 359-2500

WHERE ARE WASTE MANAGEMENT, INC. INVOICES SENT?

- Generating Facility (A, above), or
- Company Name: MILWAUKEE COUNTY c/o ROB KNIGHTEN 3. Phone: (414) 273-1391
 - Address: 907 N. 10TH ST.
 - Generator City, State/Province: MILWAUKEE, WI. 6. Zip/Postal Code: 53233

PHYSICAL CHARACTERISTICS OF WASTE (See Instructions)

- Name of Waste: PETROLEUM CONTAMINATED SOIL
- Process Generating Waste: LUST
- Special Handling Instructions: NONE

Color <u>Dark Brown</u>	5. Does the waste have a strong incidental odor? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes if so, describe: <u>GAS</u>	6. Physical State @ 70°F/21°C: <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Semi-Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Powder Other: _____	7. Layers <input type="checkbox"/> Multi-layered <input type="checkbox"/> Bi-layered <input checked="" type="checkbox"/> Single Phased	8. Specific Gravity: Range _____	9. Free Liquids: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Volume: _____ %
pH: <input type="checkbox"/> ≤ 2 <input type="checkbox"/> > 2-4 <input type="checkbox"/> 4-7 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 7-10 <input type="checkbox"/> 10- < 12.5 <input type="checkbox"/> ≥ 12.5 <input type="checkbox"/> Range <input type="checkbox"/> NA					
Flash Point: <input type="checkbox"/> None <input type="checkbox"/> < 140°F/60°C <input type="checkbox"/> 140°-199°F/60°-83°C <input checked="" type="checkbox"/> ≥ 200°F/93°C <input type="checkbox"/> Closed Cup <input type="checkbox"/> Open Cup					

TRANSPORTATION INFORMATION

- Method of Shipment: Bulk Liquid Bulk Sludge Bulk Solid Drum/Box Other _____
- Annual Amount/Units: 1,000 YDS.
- Supplemental Information: _____

- Is this a DOT hazardous material? No Yes (If so, complete 5, 6 & 7) 5. Hazard Class/ID #: _____
6. Reportable Quantity/ Units (lb/kg): _____ 7. Shipping Name: _____

Check this box if additional information is attached.

Turn Page and Complete Side 2



Waste Management of North America GENERATOR'S SPECIAL WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

I. CHEMICAL COMPOSITION

	RANGE MIN.-MAX.	
_____	- 100 %	
_____	- %	
_____	- %	
_____	- %	
_____	- %	
_____	- %	
_____	- %	
_____	- %	
_____	- %	
_____	- %	
_____	- %	

2. Does this waste contain any of the following (provide concentration if known):

	NO	or	LESS THAN	or	ACTUAL
PCB's	<input checked="" type="checkbox"/>		<input type="checkbox"/> <50 ppm		_____ ppm
Cyanides	<input checked="" type="checkbox"/>		<input type="checkbox"/> <50 ppm		_____ ppm
Sulfides	<input checked="" type="checkbox"/>		<input type="checkbox"/> <50ppm		_____ ppm
Phenolics	<input checked="" type="checkbox"/>		<input type="checkbox"/> <50 ppm		_____ ppm

Please note: The chemical composition total in the maximum column must be greater than or equal to 100%.

Total: 100 %

II. METALS

1. Does this waste contain any of the following metals (provide concentration if known):

Arsenic <input type="checkbox"/> <5 or _____ ppm	Barium <input type="checkbox"/> <100 or _____ ppm	Cadmium <input type="checkbox"/> <1 or _____ ppm
Chromium <input type="checkbox"/> <5 or _____ ppm	Lead <input type="checkbox"/> <50 or <u>UG/L</u> ppm	Mercury <input type="checkbox"/> <0.2 or _____ ppm
Selenium <input type="checkbox"/> <1 or _____ ppm	Silver <input type="checkbox"/> <5 or _____ ppm	Copper <input type="checkbox"/> _____ ppm
Nickel <input type="checkbox"/> _____ ppm	Zinc <input type="checkbox"/> _____ ppm	_____ ppm

2. Indicate method used to determine concentration (if provided): EP TOX TCLP, or Total

III. GENERATOR CERTIFICATION

By signing this profile sheet, the generator certifies that unless clearly stated above or in attachments:

1. This waste is not a "Hazardous Waste" as defined by USEPA or Canadian Federal regulation and/or the state/province.
2. This waste does not contain regulated quantities of PCB's (Polychlorinated Biphenyls).
3. This sheet and its attachments contain true and accurate descriptions of the waste material. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.
4. The Contractor's Definition of Special Waste (Form WMNA 0038 AD) has been read, signed and attached.

5. Signature *Rick Voskamp*

6. Title ENVIRONMENTAL TECHNICIAN

7. Name (Type or Print) Rick Voskamp

8. Date 1-25-91



WASTE MANAGEMENT OF NORTH AMERICA
GENERATOR'S CERTIFICATION OF REPRESENTATIVE SAMPLE

PLEASE PRINT IN INK OR TYPE

WMA 167720

(Shaded area for WMNA use only) WMNA Sales Rep. #:

Waste Profile Sheet Code

This completed form must be returned, with the representative sample, to:

Parkview Landfill
N96 W13475 County Line Rd.
Menomonee Falls, Wi. 53051

INSTRUCTIONS FOR COMPLETING THIS FORM ARE FOUND ON THE OPPOSITE SIDE. In order to determine whether Waste Management of North America (WMNA) can accept the Special Waste described in the Generator's Special Waste Profile Sheet referenced above, you must supply a representative sample of the waste, or sign Part E below certifying that analytical data presented to Waste Management were derived from testing of a representative sample.

A. SAMPLING METHOD (Indicate the method used and sign line 5 in Section C to certify a representative sample was taken)

- 1. I have obtained a representative sample of the waste material described in the Generator's Special Waste Profile Sheet referenced above according to the sampling methods specified in 40 CFR 261-Appendix I or equivalent Canadian rules.
2. I have obtained a representative sample of the waste material described in the Generator's Special Waste Profile Sheet referenced above by an equivalent method.

B. SAMPLING SOURCE (e.g., drum, lagoon, pit, pond, tank, vat)

Stackpile

C. REPRESENTATIVE SAMPLE CERTIFICATION AND SAMPLE LABEL (COMPLETE LABEL BEFORE REMOVING)

- 1. Waste Profile Sheet Code: WMA 167720
2. Generator's Name: MILWAUKEE COUNTY
3. Name of Waste: PETROLEUM CONTAMINATED SOIL
4. Sample Hour/Date: 14:44 10-25-90
5. Sampler's Signature:

- 6. Print Sampler's Name:
7. Sampler's Title: ENVIRONMENTAL TECHNICIAN
8. Sampler's Employer (if other than generator, see D. below): FOTH & VANDYKE

D. WITNESS VERIFICATION (if required) In most circumstances the customer will obtain the sample. However, in those cases in which WMNA or another contractor obtains the sample, one of the customer's employees must be present to direct the particular source to be sampled, to witness the sampling, and to complete this Part D.

I was personally present during the sampling described. I directed the waste source to be sampled, and I verify the information noted above.

- 1. Witness' Signature:
2. Witness' Name:
3. Witness' Title:
4. Witness' Employer:
5. Date:

E. REPRESENTATIVE DATA CERTIFICATION (Complete Parts A, B, & C to the extent possible)

By signing below the customer is certifying that: The analytical data presented to Waste Management of North America were derived from testing of a representative sample taken in accordance with one of the methods listed in Part A of this form.

Signature

Title
D4



CONTRACTOR'S DEFINITION OF SPECIAL WASTE

WMA 167720
WASTE PROFILE CODE

"Special Waste" means Type A or Type B Special wastes as defined below.

"Type A Special Waste" means any waste, from a commercial or industrial activity meeting any of the following descriptions.

- a. A containerized waste (e.g., a drum, portable tank, lugger box, roll-off box, pail, bulk tanker, etc.) listed in b.-g. below.
- b. A waste containing free liquids.
- c. A sludge waste.
- d. A waste from an industrial process.
- e. A waste from a pollution control process.
- f. Residue and debris from the cleanup of a spill of a chemical substance or commercial product or a waste listed in a.-e. or g.
- g. Contaminated residuals, or articles from the cleanup of a facility generating, storing, treating, recycling, or disposing of wastes listed in a.-f.

Incidental Amounts of Special Waste

The Contractor recognizes that many customers will produce some "Type B Special Waste," as defined below. Incidental quantities of "Type B Special Waste," do not require a Generator's Type B Special Waste Profile Sheet (Form WMNA-0039B) to be signed by the customer. However, the customer must identify the type and amount of Type B Special Wastes which will be provided to the Contractor in incidental amounts by completing the box in the lower right corner.

"Type B Special Waste" means any waste from a commercial or industrial activity meeting the descriptions which follow:

- a. Friable asbestos waste from building demolition or cleaning; wall board, wall spray coverings, pipe insulation, etc. Nonfriable asbestos is not a special waste unless it has been processed, handled or used in such a way that asbestos fibers may be freely released. Asbestos-bearing industrial process waste is a "Type A Special Waste."
- b. Commercial products or chemicals which are off-specification, outdated, unused or banned. Out-dated or off-specification, uncontaminated food or beverage products in original consumer containers are not included in this category, however, containers which once held commercial products or chemicals are included unless the container is empty. A container is empty when:
All wastes have been removed that can be removed using the practices commonly employed to remove materials from the type of container, e.g., pouring, pumping or aspirating, and an end has been removed (for containers in excess of 25 gallons), and no more than 1 inch (2.54 centimeters) of residue remains on the bottom of the container or inner liner, or no more than 3% by weight of the total capacity of the container remains in the container (containers \leq 110 gallons), or no more than 0.3% by weight of the total capacity of the container remains in the container (containers $>$ 110 gallons.) Containers which once held ACUTELY HAZARDOUS WASTES must be triple rinsed with an appropriate solvent or cleaned by an equivalent method. Containers which once held substances regulated under the Federal Insecticide, Fungicide, and Rodenticide Act must be empty according to label instructions or triple rinsed.
- c. Untreated bio-medical waste - Any waste capable of inducing infection due to contamination with infectious agents from a bio-medical source including but not limited to a medical practitioner, hospital, medical clinic, nursing home, university medical laboratory, mortuary, taxidermist, veterinarian, veterinary hospital or animal testing laboratory. Sharps from these sources must be rendered harmless or placed in needle puncture proof containers. Residue from incineration of infectious wastes is a "Type A Special Waste."
- d. Treated bio-medical wastes - Any wastes from a bio-medical source including but not limited to a hospital, medical clinic, nursing home, medical practitioner, mortuary, taxidermist, veterinarian hospital, animal testing laboratory, or university medical laboratory which has been autoclaved or otherwise heat treated or sterilized so that it is no longer capable of inducing infection. Any sharps from these sources must be rendered harmless or placed in needle puncture-proof containers.
- e. Liquids and sludges from septic tanks, food service grease traps, or washwater and wastewaters from commercial laundries, laundromats and car washes unless these wastes are managed at commercial or public treatment works.
- f. Chemical-containing equipment removed from service. Examples: filters, cathode ray tubes, lab equipment, acetylene tanks, fluorescent light tubes, etc.
- g. Waste produced from the demolition or dismantling of industrial process equipment or facilities contaminated with chemicals from the industrial process. Chemicals or wastes removed or drained from such equipment or facility are "Type A Special Wastes."

CUSTOMER ACKNOWLEDGES THAT HE HAS READ THE FOREGOING DEFINITION AND HAS IDENTIFIED THE TYPES OF SPECIAL WASTES GENERATED, IF ANY, BY CHECKING THE APPLICABLE CATEGORIES ABOVE.

MILWAUKEE COUNTY PARKS
CUSTOMER

[Signature]
AUTHORIZED SIGNATURE

1-25-91
DATE

LIST TYPE B WASTE CATEGORY AND AMOUNTS:

General Manager of WMNA Division concurs that the above amounts of "Type B Special Wastes" are incidental to the load.
Signature: _____
D5

PRINTED ON RECYCLED PAPER

ORTEK

ENVIRONMENTAL LABORATORY

ORTEK
2496 West Mason Street
P.O.Box 12435
Green Bay, WI 54307-2435
Telephone No.: (414) 498-2222

Client: Foth & Van Dyke
Address: 10850 W. Park Pl Suite 950
Milwaukee, WI 53224

Attn.: B. Hahn
Telephone No.: (414) 359-2500

LABORATORY ANALYSIS RESULTS

Wisconsin Certification No.
405099530

Sample ID: MC-WL-LP
Sample Desc: Milwaukee County
Date Collected: 10/25/90
Date Received: 10/29/90
Sampled By: B. Hahn
Report to: B. Hahn
Results Sheet #: 3222
Batch No.: 9010297
Job #: 90M17

VOLATILE ORGANIC SOIL ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS *
Benzene	1.3	50	ug/kg
Ethylbenzene	1.3	23	ug/kg
Toluene	1.3	81	ug/kg
Total Xylenes	3.9	120	ug/kg

* = Dry Weight Basis

Comments: Lab Sample ID: 9010297 - 106124
:Date Analyzed: 11/05/90
:Analyzed by GC Method 8020 on a SP1000 packed column.

Signed : Jeffrey J. Bushman

Date: 11/07/90

ORTEK

ENVIRONMENTAL LABORATORY

ORTEK
2496 West Mason Street
P.O.Box 12435
Green Bay, WI 54307-2435
Telephone No.: (414) 498-2222

Client: Foth & Van Dyke
Address: 10850 W. Park Pl Suite 950
Milwaukee, WI 53224

Attn.: B. Hahn
Telephone No.: (414) 359-2500

LABORATORY ANALYSIS RESULTS

Wisconsin Certification No.
405099530

Sample ID: MC-WL-LP
Sample Desc: Milwaukee County
Date Collected: 10/25/90
Date Received: 10/29/90
Sampled By: B. Hahn
Report to: B. Hahn
Results Sheet #: 3222
Batch No.: 9010297
Job #: 90M17

CALIFORNIA METHOD TPH ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS *
Diesel	5.0	ND	mg/kg
Gasoline	5.0	7.5	mg/kg
Kerosene	5.0	ND	mg/kg

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9010297 - 106124
:Date Analyzed: 10/31/90
:Analyzed by GC/FID Headspace on a DB-5 capillary column.

Signed : Jeffrey J. Bushner

Date: 11/05/90

ORTEK

ENVIRONMENTAL LABORATORY

- SAMPLE ANALYSIS REPORT -

To: FOTH & VAN DYKE
10850 W PARK PLACE
SUITE 950
MILWAUKEE WI 53224

Attn: BRIAN HAHN

Batch ID : 9010297
Our lab # : 106124
Your sample ID: MC-WL-LP
Sample Matrix : SOIL

Report Date: 11/13/90

COLLECTION INFORMATION

Date/Time/By: 10/25/90 14:44 B H
Location : MILWAUKEE COUNTY

Lab#	Test	Result	Units	Analysis Date
106124	Flashpoint	> 210	o F	11/05/90
	pH	7.6	S.U.	10/30/90
	Total Solids	90.30	%	11/02/90
	TCLP Lead	< 580	UG/L	11/12/90
	Free Liquids	NO		10/30/90
	Color	DARK BROWN		10/30/90
	Layers	SINGLE-PHASE		10/30/90
	Odor	YES-GAS		10/30/90
	Physical State	SOLID		10/30/90
	Volume	1400	GRAMS	10/30/90

Signed *Nick Melby*

Date 11-14-90

Signed *David L. DeCala*

Date 11-14-90

ORTEK

Oneida Environmental Technology Center
2496 West Mason Street
P.O. Box 12435
Green Bay, WI 54307-2435
414/498-2222

Account Name John & Van Dyke
Contact Person Phil Brochocki
Sample Identification Number MC. W. L. P. / 90M 17 Mil Co.
Profile Code WMA 167720

All analytical data provided on the attached laboratory report, unless noted otherwise, has been completed by ORTEK.

Complete this section only for reference laboratory work.

ANALYTE:

RESULT: _____ UNITS: _____

ANALYZED BY: _____

ANALYTE:

RESULT: _____ UNITS: _____

ANALYZED BY: _____

Per Waste Management, Inc., the Special Waste Analysis Report (SWAR) can be replaced by the information herein. Should you have any questions, please call our Customer Service Department at (414) 498-2222 or contact Waste Management directly.

ORTEK

Completed by LK Date 11-14-90
(initials)



DEPARTMENT OF PUBLIC WORKS

GERALD SCHWERM • Director

ERNEST VOGEL • Deputy

Milwaukee County

PROFESSIONAL SERVICES DIVISION

AUG 27 1990

August 24, 1990

Landfill Management Center
N96 W13503 County Line Road
Menomonee Falls, WI 53051

Attn: Peggy Slind

Re: Milwaukee County Tank Program

Foth & Van Dyke is authorized to prepare and sign Waste Management documentation for the disposal of contaminated soils from Milwaukee County UST sites.

A handwritten signature in cursive script, appearing to read "Robert Knighten".

Robert Knighten
Civil Engineer
Engineering, Environmental & Energy Services

RK:gp

cc: Robert Spanbauer, Foth & Van Dyke

Parkview Landfill
N96 W13475 County Line Road
Menomonee Falls, WI 53051
(414) 251-3790 • FAX (414) 255-3790



A Waste Management Company

PESTICIDE/HERBICIDE
DECLARATION LETTER

Dear Customer:

If, to the best of your knowledge, your waste stream does not contain any of the pesticide and herbicide parameters listed below please complete and sign this form.

If, pesticides and/or herbicides may be present in your waste stream, a pesticide/herbicide analysis must be completed and submitted with your Waste Management Generator's Waste Material Profile Sheet.

By signing this document, I Menomonee County hereby certify
(Generator's Name)

that the waste stream as described on Waste Management Generator's Waste Material Profile Sheet # WMA 167720 does not contain the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and its hydroxide), Lindane, Methoxychlor, Toxaphene, 2,4-D, 2,4,5-TP (Silvex):

Rich [Signature]
Generator's Signature

TECHNICIAN
Title

1-25-91
Date



WMA 16772E

WASTE MANAGEMENT OF WISCONSIN, INC.
(PURSUANT TO NR181.16)

THIS FORM AND ANY SUPPLEMENTAL INFORMATION SHOULD BE RETURNED TO:

Parkview Landfill
N96 W13475 County Line Road
Menomonee Falls, WI 53051
(414) 251-3790

GENERATOR NAME: MILWAUKEE COUNTY PARKS

GENERATING FACILITY NAME/ADDRESS: LINCOLN PARK GOLF SERVICE YD.
1301 W. HAMPTON AVE.
GLENDALE, WI.

COMPANY CONTACTS:

GENERAL ROB KNIGHTEN TITLE CIVIL ENGINEER DATE 1-25-91
TECHNICAL RICK VOSKAMP TITLE TECHNICIAN DATE 1-25-91

WASTE NAME: PETROLEUM CONTAMINATED SOIL

PROCESS GENERATING WASTE: LUST

THE UNDERSIGNED DOES HEREBY REPRESENT TO WASTE MANAGEMENT

(Insert Name of Disposal Company) THAT:

1. The referenced profile sheet had been executed by Rick Voskamp
(Insert Name of Authorized Signatory) on 1-25-91
(Insert date)

2. The waste does NOT contain the halogenated compounds tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1,1,2-trichloro-1,2, 2-trifluoroethane, trichlorofluoromethane, 1,1-dichloroethylene, and 1,2-dichloroethylene at greater than 1% (10,000 ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration of the sum of the concentrations of the individual compounds exceeds 1% or 10,000 ppm on a weight to weight basis.

1-25-91
(DATE)

GENERATORS AUTHORIZED SIGNATORY:

NAME: Rick Voskamp
SIGNATURE: [Signature]
TITLE: ENVIRONMENTAL TECHNICIAN

APPENDIX E

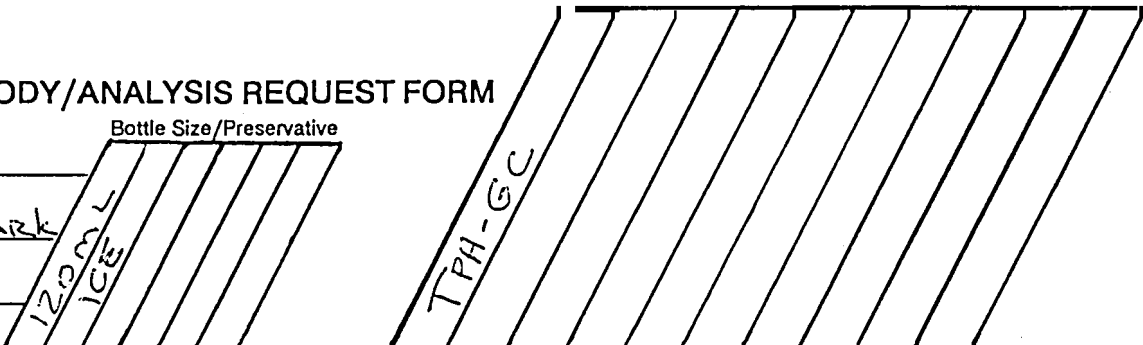
**Chain-of-Custody and Laboratory Analysis
Results**

ORTEK CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

Company Name: FOTH + VANDYKE
 Project No./Client: 90m17 MILW. CO. LINCOLN PARK

No.: 0053

Sampling Location: _____
 Sampler: Rick Voskamp



ORTEK Batch No. 9103091

Date	Time	Sample I.D./Description	No. of Bottles	Total	*Sample Type	ANALYSIS REQUESTED										Remarks	Lab Use Only ID Number			
3-4-91	9:15	LN - SE-Btm	1	1	S	X														119945
3-5-91	9:00	LN - E.WALL	1	1	S	X														119946
3-6-91	12:00	LN - W.WALL	1	1	S	X														119947
"	12:10	LN - N.WALL	1	1	S	X														119948
"	12:30	LN - S.WALL	1	1	S	X														119949

COMMENTS/SPECIAL INSTRUCTIONS:
 If Pb > 5ppm do TCLP

*Sample Type SW - Surface Water H- Hazardous Liquid
 S - Soil DW - Drinking Water A - Air
 SE - Sediment WW - Wastewater O - Oil
 SO - Solid GW - Groundwater X - Other

Date Received: 3/7/91
 Date Due: NORMAL 3/21/91 CRUSH
 Quotation #: _____
 Purchase Order #: _____ (approved by lab)

To Be Completed by Client
 Seal Intact Upon Receipt by Sampling Co.: Yes No
 Packed By: R. Voskamp
 Sealed For Shipping By: R. Voskamp Seal # _____

Results To: FOTH + VANDYKE Billing Address: SAME
1850 W. PARK PL. SUITE 950
MILWAUKEE, WI. 53224
 Attention: Rick Voskamp Phone: 359-2506 FAX

CUSTODY TRANSFERS

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<u>Rick Voskamp</u>	<u>3-6-91</u>	<u>3:45p</u>	<u>[Signature]</u>	<u>3-7-91</u>	<u>1300</u>
<u>[Signature]</u>	<u>3-7-91</u>	<u>1515</u>			

Shipping Details - To Be Completed By ORTEK
 Seal Intact Upon Receipt by Laboratory Yes No
 Method of Shipment: _____
 Contents Temperature 4.3 °C Refrig. # AH
ORTEK
 2496 West Mason Street
 Green Bay, WI 54307-2435
 (414) 498-2222

Received for Laboratory: [Signature] 3/7/91 15:15



ENVIRONMENTAL LABORATORY

414-498-2222

FAX: 414-498-4067

2496 West Mason Street

P.O. Box 12435

Green Bay, WI 54307-2435

LABORATORY ANALYSIS RESULTS

Wisconsin Certification No. 405099530

Client: FOTH & VAN DYKE
Address: 10850 W PARK PLACE
SUITE 950
MILWAUKEE, WI 53224
Attn: RICK VOSKAMP
Telephone No.: (414) 359-2500

Sample ID: LN-S WALL
Date Collected: 03/06/91
Date Received: 03/07/91
Location: MILW CO LINCOLN PARK

CALIFORNIA METHOD TPH ANALYSIS

Table with 4 columns: PARAMETER, DETECTION LIMIT, CONCENTRATION, UNITS. Rows for Kerosene, Gasoline, Diesel. All concentrations are ND.

ND = Not detected
* = Dry Weight Basis

Comments Lab Sample ID: 9103071:109949
Date Analyzed: 3/8/91
Analyzed by GC/FID on a DB-5 Capillary column

Signed: [Signature]

Date: 3/19/91



ENVIRONMENTAL LABORATORY

414-498-2222

FAX: 414-498-4067

2496 West Mason Street

P.O. Box 12435

Green Bay, WI 54307-2435

LABORATORY ANALYSIS RESULTS

Wisconsin Certification No.
405099530

Client: FOTH & VAN DYKE
Address: 10850 W PARK PLACE
SUITE 950
MILWAUKEE, WI 53224
Attn: RICK VOSKAMP
Telephone No.: (414) 359-2500

Sample ID: LN-N WALL
Date Collected: 03/06/91
Date Received: 03/07/91
Location: MILW CO LINCOLN PARK

CALIFORNIA METHOD TPH ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS *
Kerosene	5.0	ND	mg/kg
Gasoline	5.0	ND	mg/kg
Diesel	5.0	ND	mg/kg

ND = Not detected
* = Dry Weight Basis

Comments Lab Sample ID: 9103071:109948
Date Analyzed: 3/8/91
Analyzed by GC/FID on a DB-5 Capillary column

Signed: Jeffrey J. Bushner

Date: 3/19/91

LABORATORY ANALYSIS RESULTS

Wisconsin Certification No.
405099530

Client: FOTH & VAN DYKE
Address: 10850 W PARK PLACE
SUITE 950
MILWAUKEE, WI 53224
Attn: RICK VOSKAMP
Telephone No.: (414) 359-2500

Sample ID: LN-W WALL
Date Collected: 03/06/91
Date Received: 03/07/91
Location: MILW CO LINCOLN PARK

CALIFORNIA METHOD TPH ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS *
Kerosene	5.0	ND	mg/kg
Gasoline	5.0	ND	mg/kg
Diesel	5.0	ND	mg/kg

ND = Not detected
* = Dry Weight Basis

Comments Lab Sample ID: 9103071:109947
Date Analyzed: 3/8/91
Analyzed by GC/FID on a DB-5 Capillary column

Signed: Jeffrey J. Bushman

Date: 3/19/91



ENVIRONMENTAL LABORATORY

414-498-2222
FAX: 414-498-4067

2496 West Mason Street

P.O. Box 12435

Green Bay, WI 54307-2435

LABORATORY ANALYSIS RESULTS

Wisconsin Certification No.
405099530

Client: FOTH & VAN DYKE
Address: 10850 W PARK PLACE
SUITE 950
MILWAUKEE, WI 53224
Attn: RICK VOSKAMP
Telephone No.: (414) 359-2500

Sample ID: LN-E WALL
Date Collected: 03/05/91
Date Received: 03/07/91
Location: MILW CO LINCOLN PARK

CALIFORNIA METHOD TPH ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS*
Kerosene	5.0	ND	mg/kg
Gasoline	5.0	ND	mg/kg
Diesel	5.0	ND	mg/kg

ND = Not detected
* = Dry Weight Basis

Comments Lab Sample ID: 9103071:109946
Date Analyzed: 3/8/91
Analyzed by GC/FID on a DB-5 Capillary column

Signed: Jeffrey J. Bushman

Date: 3/19/91



ENVIRONMENTAL LABORATORY

414-498-2222

FAX: 414-498-4067

2496 West Mason Street

P.O. Box 12435

Green Bay, WI 54307-2435

LABORATORY ANALYSIS RESULTS

Wisconsin Certification No. 405099530

Client: FOTH & VAN DYKE
Address: 10850 W PARK PLACE
SUITE 950
MILWAUKEE, WI 53224
Attn: RICK VOSKAMP
Telephone No.: (414) 359-2500

Sample ID: LN-SE-BTM
Date Collected: 03/04/91
Date Received: 03/07/91
Location: MILW CO LINCOLN PARK

CALIFORNIA METHOD TPH ANALYSIS

Table with 4 columns: PARAMETER, DETECTION LIMIT, CONCENTRATION, UNITS. Rows for Kerosene, Gasoline, Diesel. All concentrations are ND.

ND = Not detected
* = Dry Weight Basis

Comments Lab Sample ID: 9103071:109945
Date Analyzed: 3/8/91
Analyzed by GC/FID on a DB-5 Capillary column

Signed: [Signature]

Date: 3/19/91

Engineers
Architects
Planners
Scientists

Foth & Van Dyke

Two Park Plaza, Suite 950
10850 West Park Place
Milwaukee, WI 53224-3619
414/359-2500
FAX: 414/359-2519

January 3, 1991

Mr. Robert L. Knighten, Civil Engineer
Milwaukee County
Department of Public Works
Engineering, Environmental & Energy Services
Courthouse Annex, Room #314
907 North 10th Street
Milwaukee, Wisconsin 53233

90M17

Dear Mr. Knighten:

RE: Lincoln Park Golf Service Yard
Gasoline Tank (No. P-21) Removal

Presented herein are the results of a tank closure assessment of the underground unleaded gasoline tank located at Lincoln Park Golf Service Yard at 1301 West Hampton Avenue, Glendale, Wisconsin. The purpose of this assessment was to evaluate whether soil and/or groundwater contamination was evident within the underground storage tank (UST) excavation. The methods and results of our assessment are included in the following report:

BACKGROUND INFORMATION

The 1,000-gallon single-wall steel UST located at Lincoln Park Golf Service Yard had been in-place for approximately 17 years and was used to service gasoline-powered vehicles owned by Milwaukee County.

REGIONAL AND LOCAL GEOLOGY AND HYDROGEOLOGY

The geology of Milwaukee County, Wisconsin is characterized by quaternary aged unconsolidated glacial deposits (i.e. clayey, silty tills, and sand and gravel outwash) ranging in thickness from 35 to 200 feet overlying a thick (>2,000 feet) sequence of Silurian, Ordovician, and Cambrian aged dolomite, shale, and sandstone. Precambrian granitic rocks underlie the sedimentary sequence. Subsurface conditions encountered at the site consisted of brown silty clays to a depth of 8 feet with sand seams from 8 to 10 feet.

Groundwater was not encountered in the excavation. According to well logs from the immediate area, depth to groundwater ranges from approximately 30 to 40 feet below the ground surface.

Mr. Robert L. Knighten
Milwaukee County
January 3, 1991
Page 2

TANK REMOVAL

Petroleum Equipment, Inc. was contracted by Milwaukee County to excavate and remove the tank from the site. Excavation activities were conducted on July 24, 1990 and following the removal, the tank and associated piping were inspected for leaks. A small hole was observed in a seam at the north end of the tank and both the tank and piping were rusted. Ionizable organic compound readings were monitored in the field using a photoionization detector (PID). Field readings of 550 to 1,200 parts-per-million (ppm) were detected in the excavation.

SOIL SAMPLING

Soil samples were taken from three locations, approximately 1 to 2 feet below the tank at a depth of 10 feet. (See Attachment 1 for sample location map).

Sample No.	Location	Depth (ft.)	Soil	TPH-GC (ppm)	BETX (ppm)
MC-SS-P21-01N	North End	10	Brown fine sand	No Detects	No Detects
MC-SS-P21-02S	South End	10	Brown fine sand	No Detects	---
MC-SS-P21-03UP	Under pump	2.5	Sand with some clay	22.8	---

A stainless steel sample spoon was used to collect all three samples which were placed in 120-ml glass sample jars. The jars were filled completely with no headspace and placed on ice according to approved sampling techniques. The samples were thermally preserved during transportation and were sent with proper chain-of-custody documentation and analysis request forms to a Wisconsin Department of Natural Resources (WDNR) approved laboratory. (See Attachment 2 for Chain-of-Custody and Analysis Request forms).

SAMPLE ANALYSIS

All of the samples were analyzed for total petroleum hydrocarbons by gas chromatography (TPH-GC). In addition, Sample No. MC-SS-P21-01N was also analyzed for benzene, ethylbenzene, toluene, and xylene (BETX). Laboratory results revealed no detectable levels observed in all but Sample No. MC-SS-P21-03UP, which was found to contain 22.8 ppm TPH. (See Attachment 3 for laboratory results).

Mr. Robert L. Knighten
Milwaukee County
January 3, 1991
Page 3

CONCLUSIONS AND RECOMMENDATIONS

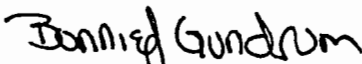
The following summary is based on information gathered by Foth & Van Dyke personnel and represent interpretations of field and laboratory results:

- Soil staining was evident around the fill pipe of the tank.
- The excavated tank and piping were observed to be rusty and one hole was observed in a seam on the north end of the tank.
- Ionizable organic compound field readings indicated high levels of contamination in the excavation; however, analytical results show only one sample with a TPH level in excess of the WDNR 10 ppm action limit.

Based on the conclusions presented above, petroleum contamination of soil above the WDNR action limit appears to be present. Due to the potential for the contamination to be of limited extent, Foth & Van Dyke recommends that the site be overexcavated and contaminated soils be landfilled. If you have any questions, please feel free to contact our office.

Sincerely,

FOTH & VAN DYKE


Bonnie J. Gundrum, CHMM
Section Manager

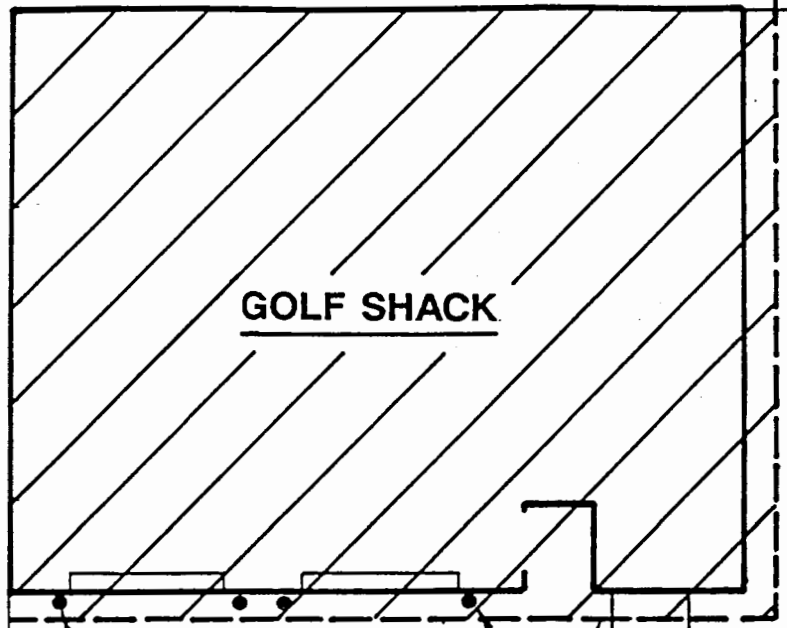


Robert R. Spanbauer
Division Manager

BJG:RRS1:jaw

Enclosure

cc: Chip Krohn - WDNR/SED



GOLF SHACK

GOLF BAG CART STORAGE

MANHOLE
SEWER LINE

MC-SS-P21-01-N

LIMITS OF EXCAVATION

MC-SS-P21-02-S

FORMER LOCATION OF PUMP

BUMPER POSTS
8' HIGH OVERHANG
2' HIGH STORAGE BIN

MC-SS-P21-03-UP

ASPHALT STORAGE

6' CHAIN LINK FENCE

GRASS

PARKING LOT

ASPHALT DRIVE

2 - 5' GATES

LINCOLN PARK

NOTE: Underground piping and utilities shown are based on field surveys only. Contractor is responsible for verifying and protecting all underground utilities during excavation and construction.



MILWAUKEE COUNTY	
1301 W. HAMPTON AVE.	
GLENDALE	
SCALE: 1"=10'-0"	DATE: MARCH, 1990
PREPARED BY: FOTH & VAN DYKE	BY: B.J.Z.

ATTACHMENT 2

Chain-of-Custody and Analysis Request Forms

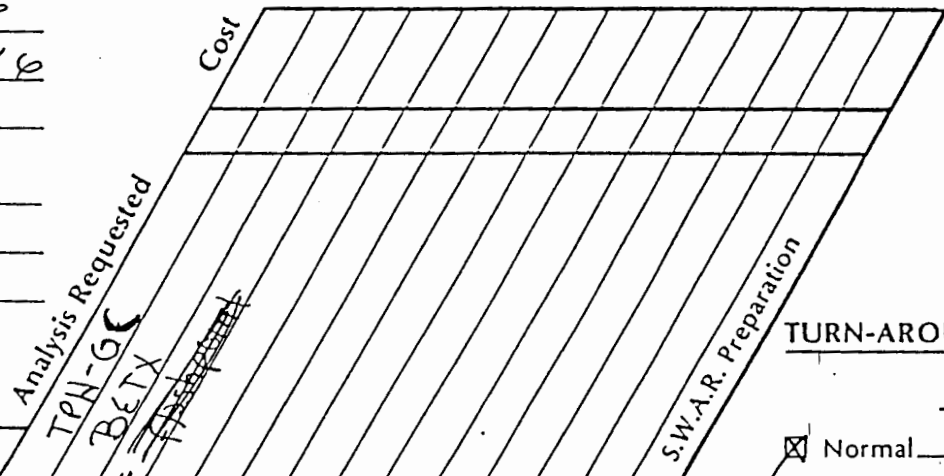
Company: Foth & Van Dyke
 Contract: Mil Co
 Project #/Client: 90M17

Quotation #: _____
 Purchase Order #: _____
 Date Collected: 7-24-90
 Date Received: 7

Mailing Address: 10850 W. Park Place
MIL WI 53214
Contact: Bonnie Gendrum

Billing Address: _____
 (if different)

Phone: 359-2500
 FAX: _____



HAZARDOUS WASTE DISPOSAL

- By Client
 By Lab*
 * \$10.00 Disposal Fee

TURN-AROUND TIME

Date Report Needed: _____

- Normal _____
 Rush _____
 (Must be Approved by Lab)

SAMPLE TYPE

- Drinking Water
 Wastewater
 Groundwater
 Soil
 Sludge
 Solid Waste
 Oily Liquid Waste
 Hazardous Liquid Waste
 Other (Specify) _____

KNOWN OR POTENTIAL HAZARDS

- Flammable
 Skin Irritant
 Highly Toxic
 Other (Specify) _____

LAB USE ONLY	Sample Identification																	
	MC-SS-P21-01N	X	X															
	MC-SS-P21-02S	X																
	MC-SS-P21-03UP	X																

Oneida Environmental Technology Center
2496 West Mason Street
P.O. Box 12435
Green Bay, WI 54307-2435
Telephone No.: (414) 498-2222

LABORATORY ANALYSIS RESULTS
Wisconsin Certification No.
405099530

Client: Foth & Van Dyke Engineers
Address: 10850 W. Park Place Suite 950
- Milwaukee, WI 53224

Sample ID: MC.SS-P21-OIN
Sample Desc: SOIL
Date Collected: 7-24-90
Date Received: 7-26-90
Result Sheet #: 2781
Job #: 90M17

Attn: Bonnie Gundrum
Telephone No.: 414-359-2500

VOLATILE ORGANIC ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	* UNITS
Benzene	1.0	ND	ug/kg
Ethylbenzene	1.0	ND	ug/kg
Toluene	1.0	ND	ug/kg
Total Xylenes	3.0	ND	ug/kg

ND = Not Detected
* = Dry Weight Basis

Comments Lab Sample ID: 9007226-102863
Date Analyzed: 7-30-90
Analyzed by modified GC Method 602 on a SP1000 Column

Signed: 

Date: 8-16-90



LABORATORY ANALYSIS RESULTS

Wisconsin Certification No. 405099530

Client: FOTH & VAN DYKE
Address: 10850 W PARK PLACE
SUITE 950
MILWAUKEE, WI 53224
Attn: BONNIE GUNDRUM
Telephone No.: (414) 359-2500

Sample ID: MC-SS-P21-01N
Date Collected: 07/24/90
Date Received: 07/26/90
Location: LINCOLN PARK-MIL CO

CALIFORNIA METHOD TPH ANALYSIS

Table with 4 columns: PARAMETER, DETECTION LIMIT, CONCENTRATION, UNITS. Rows for Diesel, Kerosene, Gasoline. All concentrations are ND.

ND = Not detected
* = Dry Weight Basis

Comments Lab Sample ID: 9007226:102863
Date Analyzed: 08/07/90
Analyzed by GC/FID on a DB-5 Capillary column

Signed: [Signature]

Date: 8-24-90



LABORATORY ANALYSIS RESULTS

Wisconsin Certification No.
405099530

Client: FOTH & VAN DYKE
Address: 10850 W PARK PLACE
SUITE 950
MILWAUKEE, WI 53224
Attn: BONNIE GUNDRUM
Telephone No.: (414) 359-2500

Sample ID: MC-SS-P21-025
Date Collected: 07/24/90
Date Received: 07/26/90
Location: LINCOLN PARK-MIL CO

CALIFORNIA METHOD TPH ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS*
Diesel	5.0	ND	mg/kg
Kerosene	5.0	ND	mg/kg
Gasoline	5.0	ND	mg/kg

ND = Not detected
* = Dry Weight Basis

Comments Lab Sample ID: 9007226:102864
Date Analyzed: 08/07/90
Analyzed by GC/FID on a DB-5 Capillary column

Signed: D. Schumb

Date: 8-24-90



LABORATORY ANALYSIS RESULTS

Wisconsin Certification No.
405099530

Client: FOTH & VAN DYKE
Address: 10850 W PARK PLACE
SUITE 950
MILWAUKEE, WI 53224
Attn: BONNIE GUNDRUM
Telephone No.: (414) 359-2500

Sample ID: MC-SS-P21-03UP
Date Collected: 07/24/90
Date Received: 07/26/90
Location: LINCOLN PARK-MIL CO

CALIFORNIA METHOD TPH ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS*
Diesel	5.0	ND	mg/kg
Kerosene	5.0	ND	mg/kg
Gasoline	5.0	22.8	mg/kg

ND = Not detected
* = Dry Weight Basis

Comments Lab Sample ID: 9007226:102865
Date Analyzed: 08/07/90
Analyzed by GC/FID on a DB-5 Capillary column

Signed:

Date: 8-24-90



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

Box 12436
Milwaukee, Wisconsin 53212
Fax: (414) 263-8483

August 13, 1990

File Ref: 4440

Mr. Robert Knighton
Milwaukee County Department of Public Works
907 N. 10th Street
Milwaukee, WI 53223

Dear Mr. Knighton:

RE: Petroleum Contamination at Lincoln Park, 1301 W. Hampton Avenue,
Glendale

The Wisconsin Department of Natural Resources (WDNR) has been notified that petroleum contamination was discovered when removing a tank at the above referenced location. John Feeney, the Leaking Underground Storage Tank (LUST) Project Manager for your area, may be reached at the above address or at (414) 263-8654. Based on the site specific information provided, this case has been assigned to the Medium Priority Rank group. The purpose of this letter is to inform you of your legal responsibilities to address this situation.

Releases from underground storage tanks regulated under Subtitle I of the Resource Conservation and Recovery Act require compliance with the provisions of 40 CFR Parts 280 and 281. The Environmental Protection Agency (EPA) has the authority to take enforcement action at any time, but will generally not take action against parties cooperating with the state. The WDNR proceeds in LUST cases under the authority of s. 144.76, Wisconsin Statutes, commonly referred to as Wisconsin's Hazardous Substance Spill Law. The definition of "hazardous substance" as found in s. 144.01(4m), Wisconsin Statutes, includes petroleum products.

Wisconsin Statute 144.76(2a) states: "A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall notify the Department immediately of any discharge not exempted under sub.(9)."

Wisconsin Statute 144.76(3) states: "A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of this state."

Because you possess or control a hazardous substance which has been released to the environment, the Department identifies you as the party responsible for taking the actions necessary to restore the environment. You are required to:

1. Immediately notify your WDNR Project Manager, or the Spills Hotline at (414) 263-8491 should emergency conditions involving explosive vapors and/or well contamination develop.
2. Conduct an investigation to determine the extent of soil and groundwater contamination.
3. Remediate all of the environmental impacts caused by this situation.

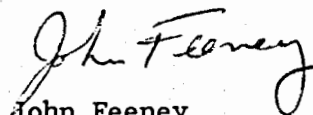
The Department suggests that you have a qualified environmental engineer or hydrogeologist direct the remedial investigation, assess the environmental impact, and coordinate the implementation of a cleanup program. Within 15 days of receiving this letter, you should provide your WDNR Project Manager with the date the remedial investigation will begin.

Final documentation of the investigation and cleanup should be prepared according to the guidance enclosed and sent to this office on completion of the project. Remedial actions must adequately cleanup contaminated soil and/or groundwater to current WDNR guidelines and/or standards. All product, soil, wastewater, and sludge must be disposed of in compliance with all applicable federal, state and local laws and regulations. Because the Department is experiencing a backlog of leaking underground storage tank cases of emergency status and your case is not currently ranked as an emergency, your submittals will be reviewed as time permits. Investigation and cleanup should not, however, be delayed pending WDNR review.

You are encouraged to contact the Department of Industry, Labor, and Human Relations (DILHR), the state agency that administers the Petroleum Environmental Cleanup Fund (PECFA). This fund may reimburse you for eligible costs associated with the remedial investigation and cleanup. DILHR should be contacted at (608) 267-4545 to obtain current information regarding the PECFA program.

Your cooperation in this matter will be appreciated. Please be aware that your ability to use PECFA funds is dependent on your cooperation in adequately addressing this problem. If you have any questions, please contact your WDNR Project Manager.

Sincerely,



John Feeney
Environmental Repair Section

JF:sbr

Enclosures: Petroleum Tank Release Remedial Investigation Report
Application to Treat or Dispose of Petroleum Contaminated Soil

c: Bob Spanbauer
SED Case File

Aug90\2963\4

APPLICATION TO TREAT OR DISPOSE OF PETROLEUM CONTAMINATED SOIL

Form 4400-120

This form is required by the Department of Natural Resources for leaking underground storage tank sites (Wis. Adm. Code NR 419). Failure to complete and submit this form may lead to violations of subchapters III and IV of ch. 144 Wis. Stats. and may result in forfeitures of not less than \$10 or more than \$25,000 for each violation, pursuant to ss. 144.426, 144.469, 144.74 (1), and 144.99, Wis. Stats., or fines of not less than \$100 or more than \$150,000 or imprisonment for not more than 10 years, or both, pursuant to s. 144.74 (2), Wis. Stats. Each day of a continuing violation constitutes a separate violation. Department approval of this form is required prior to site remediation, except for soils to be buried in landfills.

ALL SITES MUST COMPLETE PART I

Part I. Source of Soil

Site/Facility Name
 MILWAUKEE CO. LINCOLN PARK GOLF
 SERVICE YARD
 Site Address
 1301 W HAMPTON AVE
 City, State, Zip Code
 MILWAUKEE, WI.

Site I.D. # (for DNR use only)

Contact Name
 ROBERT KNIGHTEN
 1/4, 1/4, Section, Township, and Range
 SE 1/4, SE 1/4, SEC 31, T 8N, R 22E

The information on this form is accurate to the best of my knowledge.
 NOTE: Waste disposed of in landfills may incur future liability.

Signature

Richard C. Hart

Telephone Number (include area code)

(414) 359-2500

Consulting Firm

Contact

Telephone Number

FOTH + VANDYKE

Rich Voskamp

(414) 359-2500

Estimated Volume Contaminated Soil

Soil Type (USCS)

Tons/cubic yards (circle one)

- sand (SP, SW)
- silty/clayey sands (SM, SC)
- silt (ML, MH, OL)
- clay (Cl, CH, OH)
- gravel (GC, GM, GP, GW)
- peat (PT)

Type of Petroleum Contamination (Circle):

Gasoline Diesel Fuel/#2 Fuel Oil

Other _____

Contaminant concentration:

One screened sample per 15 yds³ and one laboratory analysis per 300 yds³ of contaminated soil when the PID registers contamination OR one laboratory analysis per 100 yds³ when the PID does not register contamination on soil shown to be contaminated during the site investigation/excavation or stockpiling. PLEASE ATTACH A TABLE SHOWING THE RESULTS OF BOTH FIELD SCREENING AND ANALYSES, IN ADDITION TO PROVIDING THE FOLLOWING INFORMATION.

Total Benzene in soil to be remediated (attach calculations) 0.1498 lbs

Total Petroleum Hydrocarbons in soil to be remediated (attach calculations) 68.3 lbs

Total TPH as Gasoline

Distance to Nearest Residence/Business .2 mile

ATTACH EMISSIONS CALCULATIONS

(a/1,000,000) x (2,800 lbs/yd³) x b = benzene emission in lbs., where

a = benzene concentration of soil sample in ppm or mg/kg dry weight basis

b = amount of contaminated soil in yds³

NOTE: This calculation can also be used to estimate TPH emissions by substituting TPH concentration (ppm or mg/kg) for "a." It may also be used to calculate VOCs. 3.91:1.2P

COMPLETE ONLY THOSE SECTIONS OF PART II THAT PERTAIN TO YOUR SITE

Part II: Proposed method of treatment

1. SOIL VENTING/VACUUM EXTRACTION

Note: This option may require an air pollution control permit. An activated carbon unit or similar treatment system to strip VOCs from the blower discharge will be required if emissions exceed limits established by Air Management. System design and monitoring information must be included.

Contact responsible for system maintenance _____

Telephone Number (include area code) _____

Anticipated start date _____

Total VOC discharge rate from Pilot testing or calculations _____ lbs/hr at _____ scfm

Benzene Discharge Rate from Pilot testing or calculations _____ lbs/hr at _____ scfm _____ Project Total

2. ANY METHOD OF REMEDIATION NOT LISTED IN PART II (NOTE: For thermal treatment, use Form 4400-121.)

Attach narrative and drawing(s) to describe the remediation method to be used. A final report is required. At a minimum, the information submitted should include the following applicable items:

- | | |
|---|--|
| a. proposed treatment method | h. highest estimated hourly/daily VOC emissions |
| b. location/size of remediation site | i. highest estimated daily/total benzene emissions |
| c. distance to nearest residence/business | k. anticipated startup and completion dates |
| d. field sampling methods | l. proposed verification method of contaminant content |
| e. protective covering and curbing techniques | m. project contact person |
| f. volume estimate and soil thickness needing remediation | n. final destination of soil |
| g. method of turning/mixing soil | |

LEAVE BLANK - DEPARTMENT OF NATURAL RESOURCES USE ONLY

Application Concurrence:

Air Management _____ Date _____

Project Manager _____ Date _____

Comments:

3. DISPOSAL OF CONTAMINATED SOILS AT A SANITARY LANDFILL-NR 500

NOTE: Landfill data must be within Solid Waste guidelines and must be submitted within 30 days of disposal. PLEASE COMPLETE PART III BELOW AFTER LANDFILLING IS COMPLETED.

THIS SECTION TO BE COMPLETED BY DISPOSAL FACILITY ACCEPTING CONTAMINATED SOIL

Part III

Transporter Name PETROLEUM EQUIPMENT

Transporter License Number 12206

Name of landfill PARKVIEW LANDFILL

License No. 3108

Actual Volume of soil landfilled 15205 tons ~~1072~~ Indicate (yds³) or tons

___ cover soil buried

Date received at landfill 2/27/91 thru 3/7/91

Accumulated Benzene emissions to date 0

Signature of facility representative

Paul B...

WMA167720

DIRECTIONS: 1) Complete part I. 2) Select the treatment option in part II. Pretreatment approval is required for any treatment other than landfilling. Submit this form to the DNR project manager for approval. 3) If your treatment option is landfilling, complete part III before submitting the ORIGINAL form to the project manager.

EMISSIONS CALCULATIONS
(BENZENE EMISSIONS)

$$\left(\frac{1.05}{1,000,000} \right) \times \left(2,800 \text{ LBS. / YD}^3 \right) \times \left(1070 \text{ YDS}^3 \right)$$

$$= .149.8 \text{ LBS.}$$

(TPH EMISSIONS)

$$\left(\frac{22.8}{1,000,000} \right) \times \left(2,800 \text{ LBS / YD}^3 \right) \times \left(1070 \text{ YDS}^3 \right)$$

$$= 68.3 \text{ LBS.}$$

ORTEK

ENVIRONMENTAL LABORATORY

ORTEK
2496 West Mason Street
P.O.Box 12435
Green Bay, WI 54307-2435
Telephone No.: (414) 498-2222

Client: Foth & Van Dyke
Address: 10850 W. Park Pl Suite 950
Milwaukee, WI 53224

Attn.: B. Hahn
Telephone No.: (414) 359-2500

LABORATORY ANALYSIS RESULTS

Wisconsin Certification No.
405099530

Sample ID: MC-WL-LP
Sample Desc: Milwaukee County
Date Collected: 10/25/90
Date Received: 10/29/90
Sampled By: B. Hahn
Report to: B. Hahn
Results Sheet #: 3222
Batch No.: 9010297
Job #: 90M17

VOLATILE ORGANIC SOIL ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS*
Benzene	1.3	50	ug/kg
Ethylbenzene	1.3	23	ug/kg
Toluene	1.3	81	ug/kg
Total Xylenes	3.9	120	ug/kg

* = Dry Weight Basis

Comments: Lab Sample ID: 9010297 - 106124
:Date Analyzed: 11/05/90
:Analyzed by GC Method 8020 on a SP1000 packed column.

Signed : Jeffrey J. Bushman

Date: 11/07/90

ORTEK

ENVIRONMENTAL LABORATORY

LABORATORY ANALYSIS RESULTS

Wisconsin Certification No.
405099530

Client: FOTH & VAN DYKE
Address: 10850 W PARK PLACE
SUITE 950
MILWAUKEE, WI 53224
Attn: BONNIE GUNDRUM
Telephone No.: (414) 359-2500

Sample ID: MC-SS-P21-03UP
Date Collected: 07/24/90
Date Received: 07/26/90
Location: LINCOLN PARK-MIL CO

CALIFORNIA METHOD TPH ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS *
Diesel	5.0	ND	mg/kg
Kerosene	5.0	ND	mg/kg
Gasoline	5.0	22.8	mg/kg

ND = Not detected
* = Dry Weight Basis

Comments Lab Sample ID: 9007226:102865
Date Analyzed: 08/07/90
Analyzed by GC/FID on a DB-5 Capillary column

Signed: 

Date: 8-24-90

FOTH & VAN DYKE
SOIL DISPOSAL DOCUMENTATION

SAMPLING
REQUIREMENTS:

1. ONE HEADSPACE SAMPLE PER 15 CUBIC YARDS: AND
2. ONE LABORATORY ANALYSIS PER 300 CUBIC YARDS OF CONTAMINATED SOIL IF PID REGISTERS; OR
3. ONE LABORATORY ANALYSIS PER 100 CUBIC YARDS IF PID DOES NOT REGISTER CONTAMINATION

CLIENT: MILW. COUNTY WMA NO.: 167720
PROJECT: LINCOLN PARK NAME OF LANDFILL: PARKVIEW
PREPARED BY: R. VOSKAMP TIME STARTED:
SCOPE ID: 91M29 TIME COMPLETED:

CONTRACTOR: PETROLEUM EQUIPMENT
HAULER: PETROLEUM EQUIPMENT
HAULER ID NO(S): 12206

PAGE 1 OF 4
DATE: 7-16-91

BUSINESS/RESIDENCE:

DISTANCE AND DIRECTION TO NEAREST:
WELL LOCATION:

SURFACE WATER:

GROUNDWATER DEPTH:
SOIL DESCRIPTION:

WEATHER:
VISITORS:

LOAD NO.:	PID READING:	GRAB OR COMPOSITE?	SAMPLE ID #:	SAMPLE LOCATION:	ODOR?	DISPOSAL TICKET#:	HAULER ID#:	COMMENTS:
1	69	GRAB		N. SIDEWALK	YES		12206	
2	71	"		"	"		"	
3	20	"		"	"		"	
4	55	"		"	"		"	
5	40	"		"	"		"	
6	48	"		"	"		"	
7	36	"		"	"		"	
8	29	"		"	"		"	
9	33	"		"	"		"	
10	20	"		"	"		"	
11	30	"		"	"		"	
12	17	"		"	"		"	
13	13	"		"	"		"	
14	12	"		"	"		"	
15	10	"		"	"		"	
16	29	"		Bottom	"		"	
17	23	"		"	"		"	
18	14	"		"	"		"	
19	19	"		"	"		"	
20	21	"		"	"		"	

FOTH & VAN DYKE
SOIL DISPOSAL DOCUMENTATION

SAMPLING
REQUIREMENTS:

1. ONE HEADSPACE SAMPLE PER 15 CUBIC YARDS; AND
- + 2. ONE LABORATORY ANALYSIS PER 300 CUBIC YARDS OF CONTAMINATED SOIL IF PID REGISTERS; OR
3. ONE LABORATORY ANALYSIS PER 100 CUBIC YARDS IF PID DOES NOT REGISTER CONTAMINATION

CLIENT: MILW. COUNTY WMA NO.: 167720
PROJECT: LINCOLN PARK NAME OF LANDFILL: PARKVIEW
PREPARED BY: R. Voskamp TIME STARTED:
SCOPE ID: 91m29 TIME COMPLETED:

CONTRACTOR: PETROLEUM EQUIPMENT
HAULER: PETROLEUM EQUIPMENT
HAULER ID NO(S): 12206

PAGE 2 OF 4
DATE: 7-23-91

BUSINESS/RESIDENCE:

DISTANCE AND DIRECTION TO NEAREST:
WELL LOCATION:

SURFACE WATER:

GROUNDWATER DEPTH:
SOIL DESCRIPTION:

WEATHER:
VISITORS:

LOAD NO.:	PID READING:	GRAB OR COMPOSITE?	SAMPLE ID #:	SAMPLE LOCATION:	ODOR?	DISPOSAL TICKET#:	HAULER ID#:	COMMENTS:
1	13	GRAB		BOTTOM	YES		12206	
2	15	"		"	"		"	
3	12	"		"	"		"	
4	11	"		"	"		"	
5	10	"		"	"		"	
6	10	"		"	"		"	
7	60	"		E. SIDEWALL	"		"	
8	50	"		"	"		"	
9	55	"		"	"		"	
10	38	"		"	"		"	
11	60	"		"	"		"	
12	58	"		"	"		"	
13	40	"		"	"		"	
14	41	"		"	"		"	
15	35	"		"	"		"	
16	27	"		"	"		"	
17	22	"		"	"		"	
18	15	"		"	"		"	
19	15	"		"	"		"	
20	17	"		"	"		"	

FOTH & VAN DYKE
SOIL DISPOSAL DOCUMENTATION

SAMPLING
REQUIREMENTS:

1. ONE HEADSPACE SAMPLE PER 15 CUBIC YARDS: AND
- + 2. ONE LABORATORY ANALYSIS PER 300 CUBIC YARDS OF CONTAMINATED SOIL IF PID REGISTERS; OR
3. ONE LABORATORY ANALYSIS PER 100 CUBIC YARDS IF PID DOES NOT REGISTER CONTAMINATION

CLIENT: MILW. COUNTY
PROJECT: LINCOLN PARK
PREPARED BY: R. Voskamp
SCOPE ID: 91m24

WMA NO.: 167720
NAME OF LANDFILL: PARKVIEW
TIME STARTED:
TIME COMPLETED:

CONTRACTOR: PETROLEUM EQUIPMENT
HAULER: PETROLEUM EQUIPMENT
HAULER ID NO(S):

PAGE 3 OF 4
DATE: 7-23-91

BUSINESS/RESIDENCE:

DISTANCE AND DIRECTION TO NEAREST:
WELL LOCATION:

SURFACE WATER:

GROUNDWATER DEPTH:
SOIL DESCRIPTION:

WEATHER:
VISITORS:

LOAD NO.:	PID READING:	GRAB OR COMPOSITE?	SAMPLE ID #:	SAMPLE LOCATION:	ODOR?	DISPOSAL TICKET#:	HAULER ID#:	COMMENTS:
1	10	GRAB		E. SIDEWALL	YES		12216	
2	10	"		"	"		"	
3	10	"		"	"		"	
4	10	"		"	"		"	
5	84	"		S. SIDEWALL	"		"	
6	92	"		"	"		"	
7	74	"		"	"		"	
8	80	"		"	"		"	
9	66	"		"	"		"	
10	58	"		"	"		"	
11	51	"		"	"		"	
12	40	"		"	"		"	
13	33	"		"	"		"	
14	28	"		"	"		"	
15	17	"		"	"		"	
16	14	"		"	"		"	
17	10	"		"	"		"	
18	110	"		W. SIDEWALL	"		"	
19	150	"		"	"		"	
20	200	"		"	"		"	

**DNR SITE INVESTIGATION AND
REMEDIAL ACTION PLAN REVIEW**

Section 101.143 (3) (c) 4, Wis. Stats., requires that a claimant obtain written approval from the Department of Natural Resources (DNR) when requesting reimbursement for activities in response to a discharge from a commercial petroleum product storage system or home oil tank. The DNR approval must indicate that the site investigation and remedial action plan is adequate to meet requirements of s. 144.76, Wis. Stats. The DNR approval is created for the purpose of meeting the requirements of s. 101.143 (3), Wis. Stats., only and does not bar the DNR from requiring that additional investigation and/or remediation activities be performed by persons responsible under s. 144.76, Wis. Stats.

DNR Use Only

Any DNR / DOJ Enforcement Action(s) or DNR LUST Trust Expenditures on this site? Yes No
If answer is yes, please provide pertinent details on attached sheet.

Claimant's Name <i>Milwaukee County</i>	Remedial Action Site Name (if business) <i>Lincoln Park Golf Course</i>
Street Address <i>407 N. 10th St</i>	Remedial Action Site Address <i>1000 W. Hampton Avenue</i>
City, State, Zip Code <i>Milwaukee WI 53233</i>	City, State, Zip Code <i>Glendale, WI 53209</i>
Claimant's Telephone Number <i>(414) 278-4891</i>	Telephone Number of Site <i>(414) 278-4891</i>
Claimant is <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Other - please specify:	

Approval requested for: Petroleum Product Storage System Home Oil Tank System Aboveground

FOR DNR USE ONLY (Indicate Whether Completed Remedial Action or Other Action(s))

A copy of this completed document must be submitted to DNR for approval of initial activities (emergency action, site investigation and remediation) in accordance with s. 101.143 (3) (c) 4, Wis. Stats.

Completed Remedial Action (complete cleanup and single claim for reimbursement) (Steps 1 through 3)

Progress Payments For:

Emergency Action (Step 1 - check only if emergency action was performed)

Completion of Site Investigation (Step 1) and Proposed Remedial Action Plan (Step 2)

Remedial Action (Step 3)

Operation/Maintenance and Environmental Monitoring (annual claim for remedial action activities) (Step 4)

Site Investigation By Order of DNR And/Or DILHR - No Remedial Action

Check Appropriate
Box(es)

The DNR received a request for approval of the above identified activities for the site listed on this document on the following date _____.

The DNR response for purposes of s. 101.143 (3), Wis. Stats., is attached.

Remedial action activities conducted by owners/operators are not eligible for funding under 42 USC 6991 (L.U.S.T. Funding). (See s. 101.143 (3) (a) 2., Wis. Stats.)

Send one copy of this completed form to the address shown in the upper right corner and one copy to the claimant.

Reviewer's Signature *Charles H. ...* Date Signed *3/24/92*

Reviewer's Title *Head, Fuel Dist*

976

EV. 10/89

DEPARTMENT OF NATURAL RESOURCES
LEAKING UNDERGROUND STORAGE TANK

COMPUTER TRACKING
FORM 4400

MNH#: _____ FID#: 241642170
PROJECT MGR: C. Krohn ^{John Feehey}
SUPPORT PERSON: _____
DISTRICT: SE0 COUNTY: Milw HNDI: _____

SITE NAME: Milw. Co Lincoln Park Golf Course
ADDRESS: 1301 W. Hampton
Glendale TN CITY_VIL
LEGAL DESC: 1/4 1/4 SEC T R E/W

DATE OF INITIAL CONTACT: 7/27/90
(mo day yr)

DATE OF RP LETTER: 8/13/90
(mo day yr)

DATE SITE CLOSURE APPROVED: 05/21/91 ✓
(mo day yr)

LUST TRUST ELIGIBLE: (X)
 1 = FEDERAL
 2 = NON-FEDERAL

PRIORITY SCREENING: (X)
 1 = HIGH SCORE: _____
 2 = MEDIUM
 3 = LOW
 4 = UNKNOWN
(see worksheet on back)

FUNDING SOURCE: (X)
 1 = RESPONSIBLE PARTY
 2 = LUST TRUST FUND
 3 = ENVIRONMENTAL RESPONSE FUND
 4 = SUPER FUND
 5 = NONE
 6 = OTHER _____

STATUS: (X)
 1 = STATE LEAD
 2 = RP LEAD

AS APPROPRIATE)
 NO ACTION TAKEN
 EMERGENCY
 EMERGENCY RESPONSE
 FIELD INVESTIGATION
 REMEDIAL ACTION
 LONG TERM MONITORING

DATE INITIATED
(MO DAY YR)
____/____/____
7/27/90
____/____/____
____/____/____

DATE COMPLETED
(MO DAY YR)
____/____/____
____/____/____
____/____/____
____/____/____

COMMENTS:

FORM OR PERSON RESPONSIBLE: Milw Co Dept of Public Works
CONTACT: Robert Knighton
ADDRESS: 907 N. 10th St.
Milw., WI. 53233
PHONE: _____/_____
(list additional on separate list & attach)

CONSULTANT: Foster Van Dyke
CONTACT: Bob Spanbauer
ADDRESS: _____
PHONE: _____/_____
AMOUNT COMMITTED: \$ _____ AMOUNT SPENT: \$ _____
(list additional on separate list & attach)

ECFA REVIEW REQUESTED: (X) YES NO

DATE PECFA REQUEST RECEIVED: (mo day yr) ____/____/____

KNOWN IMPACTS: (X) POTENTIAL IMPACTS: (X)
FIRE/EXPLOSION THREAT _____
CONTAMINATED PRIVATE WELL _____
CONTAMINATED PUBLIC WELL _____
GROUNDWATER CONTAMINATION _____
OIL CONTAMINATION _____
OTHER: _____

SUBSTANCES: (X) QUANTITY DISCHARGED: (gals)
 LEADED GAS _____
 UNLEADED GAS _____
 DIESEL _____
 FUEL OIL _____
 UNKNOWN HYDROCARBONS _____
 OTHER _____
VOCS _____
PESTICIDE _____

ENFORCEMENT ACTION TAKEN
01=INF. CONTACT, RESP INITIATED 06=INSPECTION LETTER 14=NOTICE OF VIOLATION 23=REFERRAL TO DOJ
02=RP LETTER, RESP INITIATED 07=RESPONSE RECEIVED 18=ADMIN. ORDER FINAL 25=REFERRAL TO EPA
03=NTC OF NON COMPLIANCE 11=CLOSE OUT 20=ADMIN. ORDER CANCELLED 99=OTHER ACTION: _____

ACTION code from above)	DATE (mo/day/yr)	COMMENT:
<u>01</u>	<u>07/27/90</u>	_____
<u>02</u>	<u>08/13/90</u>	<u>RP letter</u>
<u>05</u>	<u>05/21/91</u>	<u>Closure letter</u>
_____	____/____/____	_____

(for additional action codes see instructions/list additional on separate list and attach)

OVER-ALL CASE COMMENT: Quarter size hole in tank.

LUST CASE PRIORITY SCREENING WORKSHEET

GH FACTORS: (DEFINITION: Any case which presents an actual threat to human health, or has a high potential of causing a threat to human health and property; and/or any case which has caused or has a high potential of causing substantial impacts to the soil, water and air of the State of Wisconsin)

- | | |
|--|---|
| <p>GH FACTORS:</p> <p><input type="checkbox"/> Contaminated private or public well >NR140 enf. std.</p> <p><input type="checkbox"/> Explosive or toxic vapors in structures</p> <p><input type="checkbox"/> Threat of fire</p> | <p>HIGH OR MEDIUM FACTORS: (write in choice of high or medium)</p> <p><input type="checkbox"/> Floating product (medium if no receptors within 1 mile)</p> <p><input type="checkbox"/> Known gw contamination (private or public well <140 enf. std.)</p> <p><input type="checkbox"/> Impacted surface water--wetland, trout stream, etc. impacted saturated soil contamination</p> |
|--|---|

LOW FACTORS: (DEFINITION: Any case which does not appear to be an immediate threat to human health or vital natural resources but which shows levels of contamination that may cause substantial environmental impacts if left unaddressed.)

- Moderate soil contamination with moderate potential for impacting groundwater.
- Impacted surface water--no critical habitat threats.

LOW FACTORS: (DEFINITION: Any case where contamination has been documented, but which presents limited potential for any immediate threat to human health and vital natural resources.)

- Soil contamination which appears to have a limited potential for impacting groundwater.
- Initial remedial action has substantially reduced environmental threat.

UNKNOWN FACTOR: (DEFINITION: Any case where some indication of contamination is present, but due to incomplete or inaccurate information the level of threat to human health or the environment can not be assessed at this time.)

- Inadequate information to assign a high, medium, or low ranking.

OVERALL RANKING: The screening rank for the site along with the date of ranking. This may be updated when additional information is received. Special circumstances for a particular case may be taken into account in the comment section. The District Coordinator may independently set the ranking of a site based upon "special circumstances."

Circle one & date, indicate in priority screening box opposite side _____ HIGH _____ MEDIUM _____ LOW _____ UNKNOWN

COMMENT: _____

NUMERICAL LUST SCORING WORKSHEET (complete for LUST cases ranked HIGH)

GROUNDWATER & SOILS: (circle one)

POINTS	Documented Petroleum Contamination:	POINTS	
20	Municipal well	8	Soil & gw within 1200' of a public well
18	>6 private wells	6	Soil & gw within 1200' of one or more private wells
16	4 - 6 private wells	4	GW contamination, no wells within 1200'
14	2 - 3 private wells	2	Soil contamination
12	1 private well		

EXPLOSIVE OR TOXIC VAPORS: (circle one)

POINTS	CONFIRMED	POTENTIAL	
20		10	Explosive levels in a residence or building
16		8	Explosive levels in a sewer or structure
12		6	Toxic levels in a residence or building

Notes: Explosive levels determined to be >20% LEL as per an explosivity meter; toxicity levels are based on OSHA permissible exposure limits (PEL)

HYDROGEOLOGIC SETTING: (circle one)

POINTS	
12	Highly permeable sub-soils (gravel, well sorted sand, fractured bedrock or utilities capable of intercepting and directing flow) <u>and</u> groundwater within 25 feet of the ground surface.
10	Highly permeable sub-soils <u>and</u> groundwater more than 25 feet below ground surface.
8	Moderately permeable sub-soils (silty sands, silty gravel, clayey sands) <u>and</u> groundwater within 25 feet of ground surface
6	Moderately permeable sub-soils <u>and</u> groundwater greater than 25 feet below ground surface.
4	Low permeability sub-soils (silt, clayey silt, sand clays) <u>and</u> groundwater within 25 feet of ground surface.
2	Low permeability sub-soils <u>and</u> groundwater greater than 25 feet below ground surface.

TYPE OF PRODUCT: (circle one)

POINTS	NOTE: Add 4 points if free product is present. (score in parentheses)
8 (12)	Gasoline, mixture of gasoline and other products, other light petroleum products.
6 (10)	Diesel, fuel oil
2 (6)	Bunker oil, other heavy oils or crude fractions