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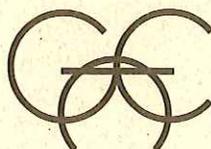
*Petroleum-Impacted Soil Removal  
and Request for Case Closure*

*America's Black Holocaust Museum  
2235 North 4th Street  
Milwaukee, Wisconsin  
WDNR Facility ID No. 241984380  
WDNR BRRTS No. 03-41-215387*

*Prepared for:  
City of Milwaukee Building and Fleet Division  
Milwaukee, Wisconsin*

*April 16, 1999*

*Project No. 1E-9811039-1*



**GILES**  
ENGINEERING ASSOCIATES, INC.



# GILES

ENGINEERING ASSOCIATES, INC.

GEOTECHNICAL, ENVIRONMENTAL & CONSTRUCTION MATERIALS CONSULTANTS

- Atlanta, GA
- Dallas, TX
- Los Angeles, CA
- Madison, WI
- Milwaukee, WI
- Seattle, WA
- Washington, D.C.

April 16, 1999

City of Milwaukee  
Buildings and Fleet Division  
841 North Broadway, Room 311  
Milwaukee, WI 53202

Attention: Mr. Richard Wozniak

Subject: Petroleum-Impacted Soil Removal and  
Request for Case Closure  
America's Black Holocaust Museum  
2235 North 4th Street  
Milwaukee, Wisconsin  
Project No. 1E-9811039-1  
WDNR Facility ID No. 241984380  
WDNR BRRTS No. 03-41-215587

Dear Mr. Wozniak:

In accordance with your request and subsequent authorization, we have performed soil removal monitoring and request for case closure services at the above referenced property. The conclusions and recommendations are discussed in detail in the accompanying report.

We appreciate the opportunity to be of continued service on this project. If you have any questions or comments regarding information included in this report, please contact us at your convenience.

Very truly yours,

GILES ENGINEERING ASSOCIATES, INC.

Steven C. Thuemling  
Staff Scientist II

Richard A. Kormanik, P.E.  
Project Manager

Distribution: City of Milwaukee  
Buildings and Fleet Division  
Attn: Mr. Richard Wozniak (1)  
Department of City Development  
Attn: Mr. Delbert Dettmann (3)  
WDNR - SE District  
Attn: Mr. Mike Farley (1)  
America's Black Holocaust Museum  
Attn: Ms. Marissa Weaver (1)

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REQUEST FOR CASE CLOSURE

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2235 NORTH 4TH STREET  
MILWAUKEE, WISCONSIN  
WDNR FACILITY ID NO. 241984380  
WDNR BRRTS NO. 03-41-215587

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GILES ENGINEERING ASSOCIATES, INC.

PETROLEUM-IMPACTED SOIL REMOVAL AND  
REQUEST FOR CASE CLOSURE

AMERICA'S BLACK HOLOCAUST MUSEUM  
2235 NORTH 4TH STREET  
MILWAUKEE, WISCONSIN  
PROJECT NO. 1E-9811039-1  
WDNR FACILITY NO. 241984380  
WDNR BRRTS NO. 03-41-215587

**1.0 INTRODUCTION AND SCOPE OF SERVICES**

We have performed the removal of petroleum-impacted soil at the above referenced property (herein referenced as the subject property). The services provided were performed at the request of Mr. Richard Wozniak of the City of Milwaukee.

The scope of services performed for this project included:

- 1) Prepare and implement a site-specific health and safety plan in accordance with 29 CFR 1910 for all field activities performed on the subject property;
- 2) Monitoring the petroleum-impacted soil removal performed by the excavation contractor (Dakota Intertek Corporation);
- 3) Collection and chemical analysis of a confirmation sample for every 300 cubic yards of excavated soil per Wisconsin Department of Natural Resources (WDNR) guidelines;
- 4) Collecting soil confirmation samples from the bottom and sidewalls of the resulting excavation following the completion of soil removal activities;
- 5) Subjecting the collected soil confirmation samples from the resulting excavation to a head space volatile organic vapor scan and submitting select soil samples to a WDNR-certified laboratory for gasoline range organics (GRO), petroleum volatile organic compounds (PVOC) and Pb analysis; and
- 6) Summarizing the activities performed in a written report which provides conclusions and recommendations regarding the results of the soil confirmation analysis relative to current WDNR guidelines and regulations and requests case closure.



## 2.0 SITE BACKGROUND

### 2.1 Site Location

The subject property is located on the west side of North 4th Street, and is referenced by the street address of 2235 North 4th Street, in the City of Milwaukee, Milwaukee County, Wisconsin. The subject property is located in the northwest one-quarter of the northeast one-quarter of U.S. Public Land Survey Section No. 20, Township 7 North, Range 22 East. The location of the subject property is shown on the following Figure 1.

### 2.2 Site Description

The subject property is currently occupied by the America's Black Holocaust Museum. One 1,000 gallon underground storage tank (UST) used for storage of unleaded gasoline was located on the subject property. An existing two-story masonry structure covers the majority of the subject property, with a fenced asphaltic concrete parking area located along the south and west sides of the existing structure. The former UST was located within this fenced in portion. The location of the former UST system is shown on the following Figure 2, Site Features.

### 2.3 Underground Storage Tank Removal Assessment

One 1,000 gallon UST utilized to store gasoline, was previously located on the subject property. The UST was removed from the subject property on November 30, 1998. No holes were observed on the bottom of the UST and no staining indicative of the presence of petroleum-impacted soil was observed within the tank excavation following removal of the UST. The tank contained pea gravel and the pea gravel was stockpiled on-site. No groundwater was encountered during tank removal activities. Odors indicative of petroleum hydrocarbons were noted in the soils beneath the former gasoline fuel pump. A soil sample collected from beneath the fuel pump contained a GRO concentration of 409 milligrams per kilogram (mg/kg). This concentration exceeded the WDNR notification concentration of 10 mg/kg. We prepared the *Underground Storage Tank Closure Assessment* (Project No. 1E-9811039) which was provided under separate cover.



### 3.0 LANDFILL DISPOSAL AUTHORIZATION

Soil samples were collected within the former UST excavation area for the purpose of completing a Biopile Solid Waste Profile. The solid waste profile analytical results and generator's waste profile sheet for the Orchard Ridge Recycling and Disposal Facility are enclosed in Appendix A. The solid waste profile analysis results were within the landfill acceptance limits, and are presented on the following Table 1.

### 4.0 PETROLEUM-IMPACTED SOIL REMOVAL MONITORING SERVICES

#### 4.1 Soil Removal and Assessment of Petroleum-Impacted Soil

Dakota Intertek Corporation (Dakota) was retained to perform on-site excavation services of the petroleum-impacted soil. We observed the removal of petroleum-impacted soil and collected soil confirmation samples from the bottom and sidewalls of the resulting excavation. Soil removal activities were performed on the subject property on February 3, 1999. The soils were excavated to approximately 3.5 feet below the ground surface. Visual and relative odor observations as well as a head space vapor scan were utilized to evaluate the exposed soils requiring removal during the soil excavation removal activities. Approximately 27.41 tons of petroleum-impacted soils and pea gravel tank backfill were excavated and transported to Orchard Ridge Recycling and Disposal facility, in Menomonee Falls, Wisconsin. No water was encountered within the excavation during the soil removal activities. Select soil samples were submitted for petroleum volatile organic compound (PVOC), gasoline range organics (GRO) and lead (Pb) analysis. The horizontal limits of the petroleum-impacted soil removal excavation are depicted on the following Figure 3. Photographs taken during the soil removal procedures are enclosed in Appendix B. The scope of services were performed in accordance with the Wisconsin Department of Natural Resources (WDNR) technical guidelines and Chapter NR700 of the Wisconsin Administrative Code.

#### 4.2 Soil Sample Collection and Volatile Organic Vapor Scan

Soil samples were collected in new, laboratory approved, 8 ounce and 60 mL glass sampling jars from the bottom and sidewalls of the resulting excavation. The soil samples collected for lead analysis were field tared to about 25 grams, placed in 60 mL jars, and were sealed with Teflon® lined lids with Teflon® septas. The soil samples collected for GRO and PVOC analyses were field tared to about 25 grams, methanol preserved, placed in 60 mL jars for analysis and were sealed with Teflon® lined lids. All confirmation samples collected for analysis were immediately placed on ice in a cooler.



The soil samples collected in 8 ounce jars were subjected to a head space vapor analysis utilizing a properly calibrated and charged 11.7 eV photoionization detector (PID) (HNU Model No. PI-101) calibrated with isobutylene standard gas to a benzene equivalent (HNU span gas part No. 101-350). The head space samples were agitated for approximately 30 seconds prior to the analysis. The HNU PID was calibrated in the field before, during, and after the vapor analysis.

#### 4.3 Results of Vapor Analysis

Volatile organic vapors were not measured in the soil confirmation samples collected from the bottom or the sidewalls of the final excavation limits. A summary of the confirmation soil sample reference numbers, depths, classification, and results of the vapor analysis for the soil samples collected from the resulting excavation are presented on the following Table 2. The sampling locations and sampling reference numbers for the confirmation samples collected from the resulting excavation are depicted on Figure 3.

### 5.0 CHEMICAL ANALYSIS AND RESULTS

#### 5.1 Chain-of-Custody Procedures

Four soil confirmation samples were collected from the final excavation during soil removal activities. The collected soil samples were all submitted to the Giles analytical laboratory for GRO and PVOC analyses and to Robert E. Lee Associates analytical laboratory for lead analysis. The sample collection, storage and transportation was performed in general accordance with ASTM and other applicable specifications, and at all times followed standard Chain-of-Custody requirements. The soil samples Chain-of-Custody forms are enclosed in Appendix C.

#### 5.2 Results of Chemical Analysis

GRO and PVOC were not detected within the collected soil confirmation samples. Low concentrations of lead (29 to 55 mg/kg) were detected within the collected confirmation samples and are considered background/natural levels.

The Chain-of-Custody forms as well as the laboratory analytical results are enclosed in Appendix C. The laboratory results are also summarized on the following Table 3 and depicted on the previously referenced Figure 3.



## 6.0 EXCAVATION BACKFILL ACTIVITIES

Following completion of excavation activities and collection of the soil confirmation samples, the excavation was backfilled with clean overburden material and imported crushed gravel. We did not monitor the placement of the backfill material.

## 7.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of analysis performed to document the adequacy of soil removal activities, and information reviewed to-date, the following are conclusions and recommendations regarding the services performed on the subject property:

- Approximately 27.41 tons of petroleum-impacted soil was removed from the subject property on February 3, 1999.
- Based on the results of the analyses performed on sidewall and bottom soil confirmation samples, adequate removal of the petroleum-impacted soil is considered to have been performed and no additional soil remediation or assessment is considered warranted or recommended at this time.

Therefore, we are requesting Wisconsin Department of Commerce Case Closure with no site restrictions for the America's Black Holocaust Museum site. Should you have any questions, please call 414-544-0118 at your convenience.

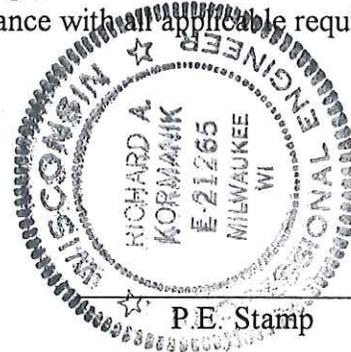


## 10.0 SUBMITTAL CERTIFICATION

I, Richard A. Kormanik, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.



Signature, Title, and P.E. Number



## 11.0 GENERAL COMMENTS

This report has been prepared specifically for the City of Milwaukee Housing Authority. Reproduction and/or distribution of this report should not be performed without consent from *Giles* and the City of Milwaukee Housing Authority.

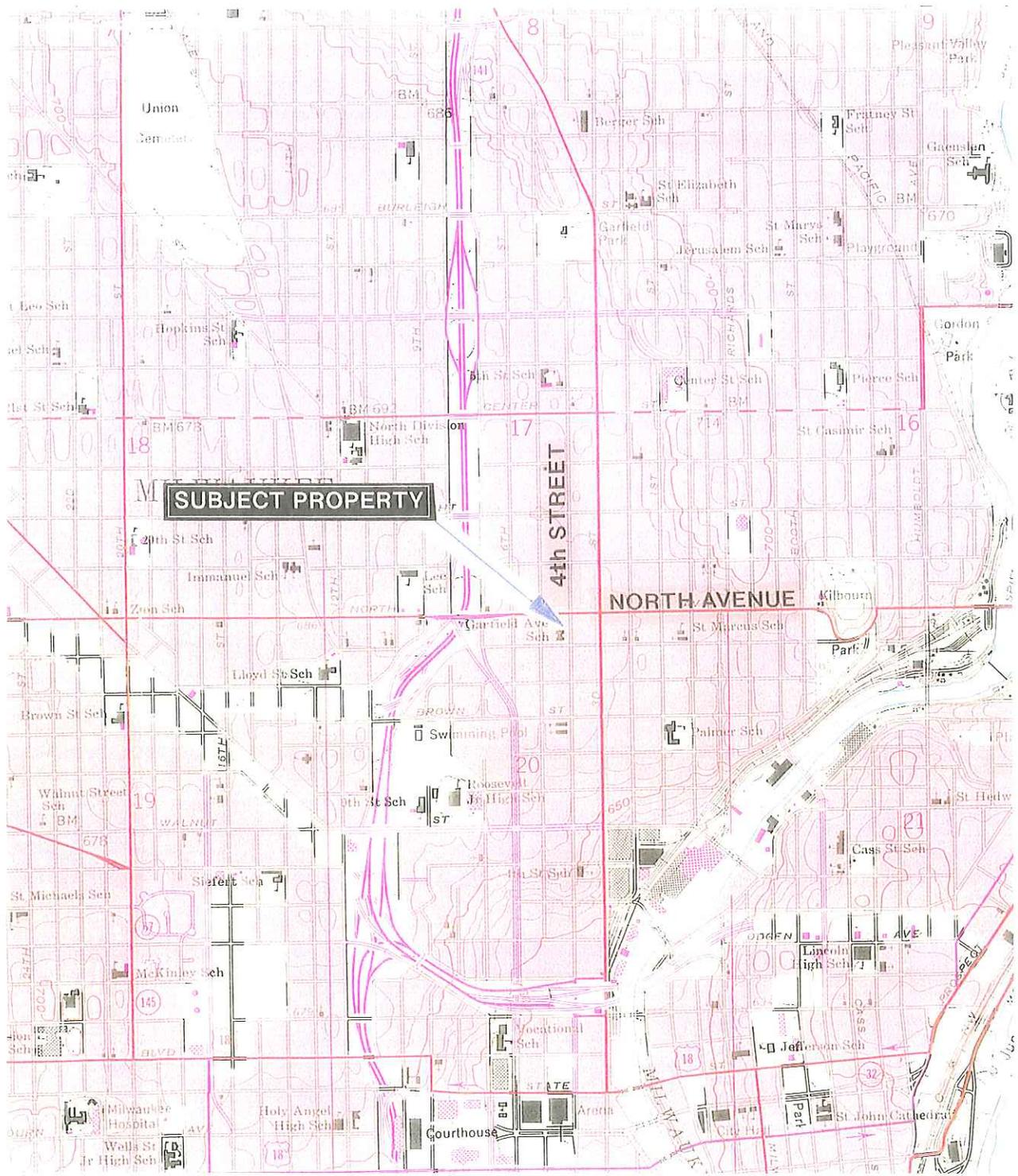
The information in this report is based on field observations and sampling of soil performed within the property boundaries of specific locations at a specific point in time. The opinions formulated regarding the petroleum related compounds encountered on this property are based upon reasonable judgements made in light of this information and the data obtained from the specific site.

The conclusions and recommendations presented in this report have been promulgated in accordance with generally accepted professional practice in the field of environmental consulting at the time of this report. No other warranty is either expressed or implied.

All reports, plans, specifications, field data, field notes, laboratory test data, calculations, estimates and other documents we prepared for this project are instruments of service, not products, and shall remain our property. We shall retain copies of final reports and letters for a period of five years following submission of our final invoice, during which they will be made available to client at all reasonable times.

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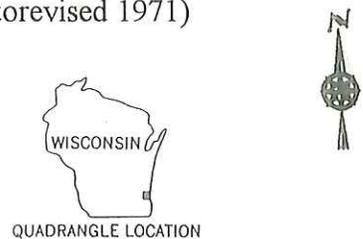


Source: USGS Milwaukee, Wisconsin Quadrangle Map (1958, photorevised 1971)

Scale: 1"=2000'

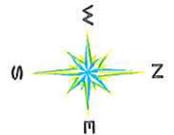
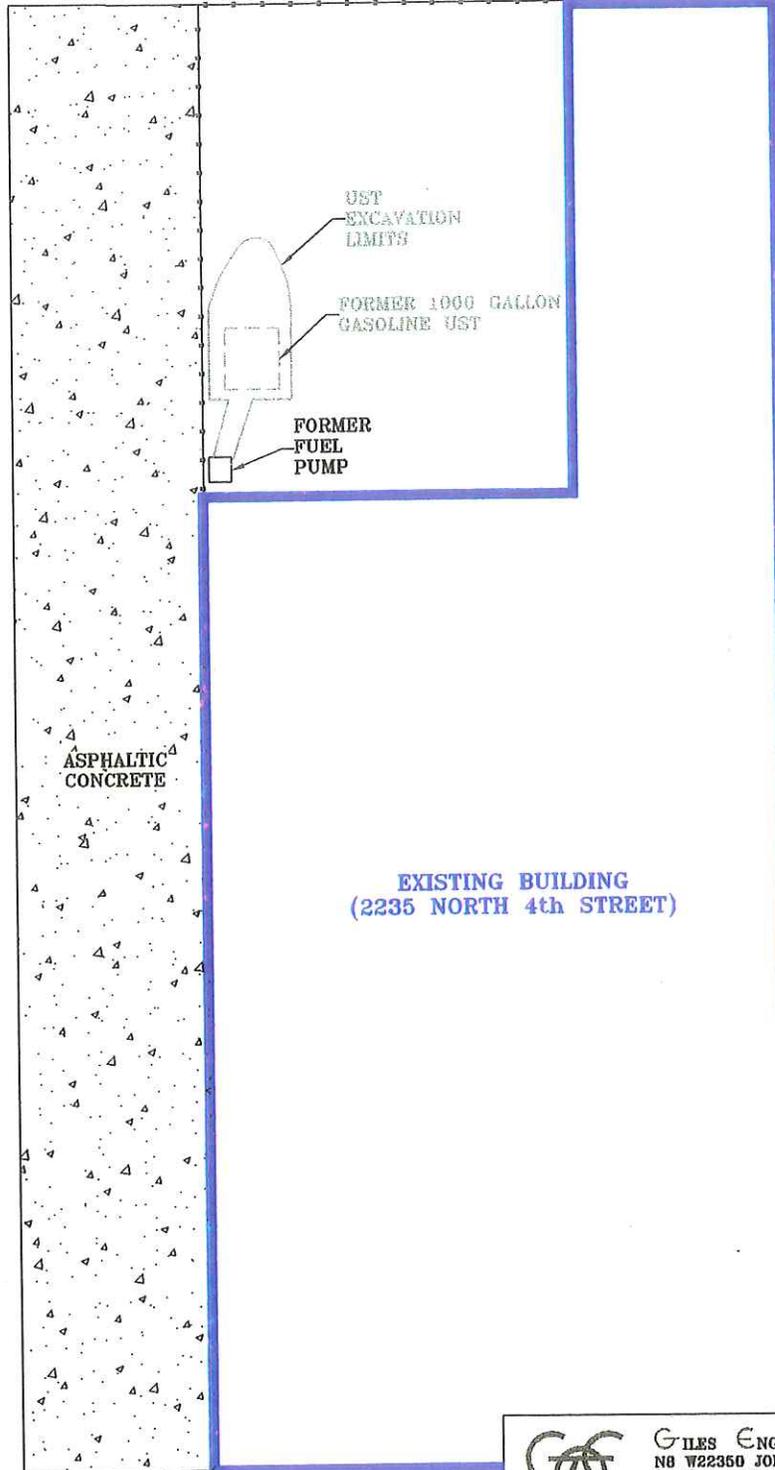
**FIGURE 1  
SITE LOCATION PLAN**

**America's Black Holocaust Museum  
2235 North 4th Street  
Milwaukee, Wisconsin  
Project No. 1E-9811039**



QUADRANGLE LOCATION

PUBLIC ALLEY



GARFIELD SCHOOL

PUBLIC ALLEY

SIDEWALK

4th STREET



GILES ENGINEERING ASSOCIATES, INC.  
 NO W22350 JOHNSON RD.; WAUKESHA, WI, 53186  
 (414)-544-0118

FIGURE 2  
 SITE FEATURES  
 AMERICA'S BLACK HOLOCAUST MUSEUM  
 2235 NORTH 4th STREET  
 MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	APPROVED	SCALE	DATE
SCT	CTM	X	1" = 20'	01-08-09
PROJECT NO.: 1E-9811030-1			CAD No. E8110392	

TABLE 1

RESULTS OF SOLID WASTE PROFILE ANALYSIS

AMERICA'S BLACK HOLOCAUST MUSEUM  
 2235 NORTH 4TH STREET  
 MILWAUKEE, WISCONSIN  
 PROJECT NO. 1E-9811039-1

Sample Location	Depth (feet)	PID Reading (1)	Analyte Concentrations				Date Collected
			GRO (2)	Benzene (3)	Lead (4)	TCLP Lead (5)	
S3	2½	400	409	<90	200	NA	11-30-98
B-1 (Resample of S3)	0-4	2	NA	NA	NA	<29	1-27-99
PG-1 Pea Gravel	Stockpile	96	28	<18	9.5	--	

- (1) PID reading expressed in HNu units.
- (2) GRO = Gasoline Range Organics. Expressed in milligrams per kilogram (mg/kg) - equivalent to parts per million (ppm). Complete test results are presented in Appendix C.
- (3) Benzene expressed in micrograms per kilogram (µg/kg) -- equivalent to parts per billion (ppb)
- (4) Lead results expressed in milligrams per kilogram - equivalent to parts per million
- (5) TCLP Lead expressed in microgram per liter (ug/L)
- NA Analyte Not Tested

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TABLE 2

MATERIAL SAMPLING FIELD LOG

SOIL EXCAVATION REMOVAL MONITORING SERVICES

GILES PROJECT NO.: 1E-9811039-1                      INSPECTOR: Charles J. Rens  
 DATE: February 3, 1999                                  WDILHR REG. NO.: 42280

PROJECT NAME AND LOCATION: America's Black Holocaust Museum  
 2235 North 4th Street  
 Milwaukee, Wisconsin

SMPL DESC	REF NO.	SAMPLING LOCATION	DATE	DEPTH (feet)	TIME	SAMPLE CLASSIFICATION	HNU <sup>1</sup>
S-1	Soil	South Excavation Wall	2/3/99	3'	11:15am	Brown gray silty clay to clayey silt, trace fine sand to medium sand	BDL
S-2	Soil	West Excavation Wall	2/3/99	3'	11:30am	Brown gray silty clay to clayey silt, trace fine sand to medium sand	BDL
S-3	Soil	North Excavation Wall	2/3/99	3'	11:40am	Brown gray silty clay to clayey silt, trace fine sand to medium sand	BDL
BT-4	Soil	Bottom of Excavation	2/3/99	3.5'	11:50am	Brown gray silty clay to clayey silt, trace fine sand to medium sand	BDL

<sup>1</sup> Results of volatile vapor scan conducted on collected soil samples utilizing a HNu Photoionization Detector (PID) equipped with an 11.7 eV lamp and Calibrated to a Benzene standard. Results expressed in HNu-units. BDL = Below Detection Level.

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TABLE 3

RESULTS OF SOIL CONFIRMATION SAMPLE ANALYSIS

AMERICA'S BLACK HOLOCAUST MUSEUM  
 2235 NORTH 4TH STREET  
 MILWAUKEE, WISCONSIN  
 PROJECT NO. 1E-9811039-1

Sample Location	Sample Depth (feet)	PID	GRO (2)	Benzene (3)	Toluene (3)	Ethylbenzene (3)	Total Xylenes (3)	MTBE (3)	1,2,4-TMB (3)	1,3,5-TMB (3)	Lead (2)
S-1	3	BDL	<0.25	<7.6	<9.6	<10	<32	<7.9	<16	<9.7	55
S-2	3	BDL	<0.25	<7.6	<9.6	<10	<32	<7.9	<16	<9.7	NA
S-3	3	BDL	<0.25	<7.6	<9.6	<10	<32	<7.9	<16	<9.7	30
BT-4	3.5	BDL	<0.25	<7.6	<9.6	<10	<32	<7.9	<16	<9.7	29
WDNR Residual Contaminant Levels			250*	5.5	1500	2900	4100	NA	NA	NA	NA

- (1) Sampling locations are shown on the Soil Confirmation Sampling Locations and Analysis Results depicted on Figure 3.
- (2) Analytical results expressed in milligrams per kilogram (mg/kg) -- equivalent to parts per million (ppm). Complete test results are presented in Appendix C.
- (3) Analytical results expressed in micrograms per kilogram (µg/kg) -- equivalent to parts per billion (ppb). Complete test results are presented in Appendix C.
- PID Photoionization detector expressed in HNu units.
- GRO Gasoline Range Organics
- MTBE Methyl-tert-butyl ether
- TMB Trimethylbenzene
- NA Not Analyzed or Not Applicable

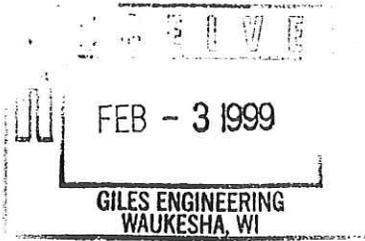
\*For soils with a hydraulic conductivity of  $1 \times 10^{-6}$  cm/s or less

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GILES ENGINEERING ASSOCIATES, INC.





**WASTE MANAGEMENT**

Special Waste Service Center  
W124 N9355 Boundary Road  
Menomonee Falls, WI 53051  
(414) 253-8620  
1-888-964-4700 Toll Free  
(414) 253-1322 Fax

February 2, 1999

Mr. Mike Morrison  
Giles Engineering Associates, Inc.  
N8 W22350 Johnson road, Suite A1  
Waukesha, WI 53186

Dear Mr. Morrison:

Thank you for choosing Waste Management for your disposal needs.

This letter serves to confirm the approval of your waste under profile number BIO469932. Attached is a copy of the special waste management decision for your records.

If you have any questions please do not hesitate to call me at 414/253-8620.

Sincerely,

Waste Management of Wisconsin, Inc.  
Special Waste Service Center

Therese Buechel  
Customer Service Representative

Enclosures



# SPECIAL WASTE MANAGEMENT DECISION FOR BIOREMEDIATION

BIO 469932  
Waste Profile Sheet Code

I. Request For Decision:  Initial  Renewal

GENERATOR NAME: City of Milwaukee/Housing Authority ADDRESS: 2235 North 4th Street

CITY, STATE/PROVINCE: Milwaukee, WI

WASTE NAME(S): Contaminated soil/pea gravel

PROPOSED MANAGEMENT FACILITY: ORC

PROPOSED INTERMEDIATE TRANSFER FACILITY: \_\_\_\_\_ TRANSPORTER: \_\_\_\_\_

WMNA REQUESTOR: Suzanne Choren SIGNATURE: [Signature]

TECHNICAL MANAGER DECISION: (circle one) APPROVED DISAPPROVED  Check if additional information is attached.

If Disapproved, Explain: \_\_\_\_\_

If Approved, Complete A, B, C and D Below:

Management Method(s): BIOREMEDIATION

Precautions, Conditions, or Limitations on Approval: DAILY COVER, BERMS, ROAD BASE, AND OTHER FEATURES NOT LOCATED ON EXTERIOR SLOPES. IF COMBINED DRO AND GRO ARE LESS THAN 250 MG/KG. USE ON EXTERIOR SLOPES IF COMBINED DRO AND GRO IS LESS THAN 10 MG/KG.

C Decision Expiration Date: 2/1/00

For Type A Wastes, Laboratory Analysis of a Representative Sample Was: (Check only one)

Waived  Supplied By Generator  From a WMI-Approved Lab  From Both Generator and WMI-Approved Lab

TECH. MGR. SIGNATURE: [Signature] NAME: (Print) RICHARD L. PAGER DATE: 2/1/99

III. WMI MANAGEMENT FACILITY GENERAL MANAGER DECISION: (circle one) APPROVED DISAPPROVED

If Approved, State any Additional Precautions, Conditions or Limitations: \_\_\_\_\_

GENERAL MGR SIGNATURE: [Signature] NAME: (Print) JAMES M. DUNHAM DATE: 2/1/99

IV. WMI INTERMEDIATE TRANSFER FACILITY GENERAL MANAGER DECISION: (circle one)  APPROVED  DISAPPROVED

If Approved, State any Additional Precautions, Conditions or Limitations: \_\_\_\_\_

GENERAL MGR SIGNATURE \_\_\_\_\_ NAME: (Print) \_\_\_\_\_ DATE \_\_\_\_\_



Waste Management of Wisconsin, Inc.  
W124 N9855 Boundary Road  
Menomonee Falls, WI 53051  
(414) 253-8620 Fax: (414) 258-1822  
Toll Free: 1-888-864-4700

**SERVICE AGREEMENT  
NON-HAZARDOUS WASTE DISPOSAL**

The above-named disposal facility and corporation are referred to herein as "Facility" and "Contractor," respectively.

CUSTOMER'S BILLING NAME  
Housing Authority of The City of Milwaukee

CUSTOMER'S BILLING ADDRESS  
809 N. Broadway

CITY, STATE/PROVINCE, ZIP/POSTAL CODE  
Milwaukee

CUSTOMER CONTACT  
Del Dettmann

PHONE NUMBER  
(414) 286-5736

BANK REFERENCE

BANK CONTACT PHONE NUMBER  
( )

Credit may be extended to Customer after appropriate credit information, in a form acceptable to Contractor, has been presented to and reviewed by Contractor. Contractor may, in its sole discretion, require a collateral deposit (in the form of cash, letter of credit or surety bond) acceptable to Contractor. It is the responsibility of the Customer to keep said collateral deposit current. Collateral deposits, where utilized, may be adjusted when there is an increase in disposal tonnage and/or rates. Collateral deficiencies must be corrected within 30 days of notice of required adjustment.

**This is a legally binding contract, and Contractor agrees to provide and Customer agrees to accept the waste disposal services subject to the terms and conditions specified in this contract.**

ESTIMATED MONTHLY AMOUNT OF WASTE FOR DISPOSAL:

20 yds - ONE TIME  
(Include units e.g., cubic yards, pounds, kilograms)

SPECIAL INSTRUCTIONS:

See Section I on the attached Special Waste Management Decision (Profile No. 469932 .)  
for the approved management facility. Follow all conditions for disposal stated on the Special Waste  
Management Decision Section II B. All loads must be manifested.

INCIDENTAL SPECIAL WASTE TYPES AND AMOUNTS:

THE TERMS AND CONDITIONS ON REVERSE SIDE AND THE ATTACHED CONTRACTOR'S DEFINITION OF SPECIAL WASTE ARE PART OF THIS AGREEMENT.

CUSTOMER  
[Signature] per HACM  
Authorized Signature  
Real Estate Specialist  
Title

CONTRACTOR  
[Signature]  
Waste Management of Wisconsin, Inc.  
Representative  
SITE MANAGER  
Title





# MIDWEST REGION GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Waste Profile Sheet Code

  MW 469932

Proposed Management Facility \_\_\_\_\_

This form is to be used to comply with the requirements of a waste agreement.

INSTRUCTIONS FOR COMPLETING THIS FORM ARE ATTACHED

Decision Expiration Date:   /  /  

## A. WASTE GENERATOR INFORMATION

1. Generator Name: \_\_\_\_\_ 2. SIC Code: \_\_\_\_\_  
 3. Facility Address (site of waste generation): \_\_\_\_\_  
 4. Generator City, State: Milwaukee WI. 5. Zip/Postal Code: 53202  
 6. State ID#: \_\_\_\_\_  
 7. Technical Contact: Rick Kocunas, K & Giles Engineers 544-0119 8. Phone: (414) -

## B. WASTE STREAM INFORMATION (See Instructions)

1. Name of Waste: CONTAMINATED SOIL  
 2. Process Generating Waste: UST  
 3. Amount/Units: 20 yds 4. Type A  Type B   
 5. Special Handling Instructions/Supplemental Information: none

6. Incidental Waste Types and Amounts: none

## C. TRANSPORTATION INFORMATION

1. Method of Shipment:  Bulk Liquid  Bulk Sludge  Bulk Solid  Drum/Box  Other \_\_\_\_\_  
 2. Supplemental Shipping Information: None

## D. PHYSICAL CHARACTERISTICS OF WASTE (See Instructions) (Omit for Type B)

1. Color <u>BN</u>	2. Does the waste have a strong incidental odor? <input type="checkbox"/> No <input type="checkbox"/> Yes; if so, describe: _____	3. Physical State @ 70°F/21°C: <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Semi-Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Powder <input type="checkbox"/> Other: _____	4. Layers <input type="checkbox"/> Multi-layered <input type="checkbox"/> Bi-layered <input checked="" type="checkbox"/> Single Phased	5. Specific Gravity Range <u>2.5 - 3.0</u>	6. Free Liquids <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Volume: _____%
-----------------------	--	---	---	--	--

7. pH:  ≤ 2  > 2 - 4  4 - 7  7  7 - 10  10 - < 12.5  ≥ 12.5  Range  NA  
 8. Flash Point:  None  < 140°F/60°C  140 - 199°F/60 - 93°C  ≥ 200°F/93°C  Closed Cup  Open Cup

## E. CHEMICAL COMPOSITION (Omit for Type B) RANGE (MIN-MAX)

1. <u>Soil</u>	- <u>50</u> %
<u>RA Gravel</u>	- <u>50</u> %
_____	- _____ %
_____	- _____ %
_____	- _____ %
_____	- _____ %
_____	- _____ %
_____	- _____ %
_____	- _____ %
Total:	- <u>100</u> %

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

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

The total composition must be greater than or equal to 100%. (.0001% = 1 ppm or 1 mg/l)

F. SAMPLING SOURCE (Omit for Type B) (e.g., Drum, Lagoon, Pit, Pond, Tank, Vat)

G. REPRESENTATIVE SAMPLE CERTIFICATION (Omit for Type B)

1. Print Sampler's Name: STEVE Thuenling 2. Sample Date: 12/1/98  
3. Sampler's Title: STAFF Scientist  
4. Sampler's Employer (if other than Generator): Giles Engineering  
The sampler's signature certifies that any sample submitted is representative of the waste described above pursuant to 40 CFR 261.20(c) or equivalent rules.  
5. Sampler's Signature Steve Thuenling

H. GENERATOR CERTIFICATION

- By signing this profile sheet, the Generator certifies:
1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulation.
  2. This waste does not contain regulated radioactive materials or regulated concentrations of PCB's (Polychlorinated Biphenyls).
  3. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and it's epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4-D, or 2, 4, 5-TP (Silvex).
  4. The waste does not contain halogenated compounds such as: 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 or the sum of the concentrations of the individual compounds exceed 1% or 10,000 ppm on a weight to weight basis.
  5. This sheet and the 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.
  6. The Generator has read and understands the Contractor's Definition of Special Waste included in Part B.5. of the attached instructions form. All types and amounts of special wastes provided in incidental amounts have been identified in section B.6. of this form.
  7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20(c) or equivalent rules.
  8. If any changes occur in the character of the waste, the Generator shall notify the Contractor prior to providing the waste to the Contractor.
  9. Signature X Delbert H. Dettmann for HACM 10. Title X Real Estate Specialist  
11. Name (Type or Print) X Delbert H. Dettmann 12. Date X 1/26/99

Note: Omit sections D., E., F., and G., for Type B waste.

Comments:

98-000-001

City of Milwaukee - CON. CE.

Site Americas Black Holocaust Museum  
Address 2235 N. 47th  
M. Waucher WI

CHAIN-OF-CUSTODY  
tel: 414-544-0118 fax: 414-549-5868  
tel: 714-779-0052 fax: 714-779-0068  
tel: 301-210-1212 fax: 301-210-1215  
tel: 214-358-5885 fax: 214-358-5884

GILES ENGINEERING ASSOCIATES, INC.  
118 W22350 Johnson Road Suite A1, Waukesha, WI 53186  
4875 East La Palma Avenue Suite 607, Anaheim, CA 92807  
12240 Indian Creek Court Suite 105, Beltsville, MD 20705  
10031 Monroe Drive Suite 101, Dallas, TX 75229

closure sample  
 confirmation required

Sample Collector STEVE THUEMELING Project Manager STEVE THUEMELING Project Number 1E-9811039  
Laboratory Used APL Lab Contact Dave Duggan Lab Job Number 980973

Sample Description	(Sample Depth)	Sample Matrix (Soil, Water, etc.)	Date Collected	Time Collected	Field Screen	GRO (WI mod)	TPH (gasoline) 8015	TPH (diesel) 8015	VOC (EPA 8021)	PVOC (EPA 8020)	BTEX (EPA 8020)	Lead	Cadmium	Copper	Silver	Asbestos	TCLP metals	Semi-volatile Org (625/8270)	Purgable Halocarbons	Purgable Aromatics	Number and Type of Containers	Sample Preservative	Due Date	Lab ID	Sample Temperature
S-1	10'	Soil	11/30/96	11:40 AM	BPL	X			X	X	X	X									1-2, 1-F	M <sub>2</sub> OH	5/01	13197	
S-2	10'	Soil	11/30/96	11:55 AM	BPL	X			X	X	X	X									↓	↓	↓	13198	
S-3	3' to 6'	Soil	11-30-96	12:20 PM	400	X			X	X	X	X									↓	↓	↓	13199	
TRIP						X			X															13200	

container code:  
A = 8 oz/250 ml  
B = 4 oz/120 ml Teflon lined  
C = 2 oz/60 ml Teflon lined  
D = 40 mL VOA vial  
E = Quart Teflon lined  
F = 250 mL plastic

Relinquished By: [Signature] Date 11/30/96 Time 11:40 AM Received By: [Signature] Date 11/30/96 Time 11:40 AM

BILL TO: \_\_\_\_\_  
PAGE 1 OF 1  
send copy of invoice to Giles

# APL Environmental

8222 W. Calumet Rd., Milwaukee, WI 53223  
 Phone: (414) 355-5800 Fax: (414) 355-3099

Steve Thuemling  
 Giles Engineering Associates, Inc.  
 N8 W22350 Johnson Rd. Suite A1  
 Waukesha, WI 53186

## ORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER: 980973

DATE REPORTED: 08-Dec-98

DATE RECEIVED: 01-Dec-98

SAMPLE TEMP (C): Rec On Ice

PROJECT ID: 1E-9811039

PROJECT NAME: America's Black Holo

Test	Result	Units	LOD	LOQ	Dil	RQ Method	Analyst	Date Ext.	Date Anal.
Nova Sample Number: 13197		QC Batch Number: 982597				Collection: 11/30/98		Time: 11:04	
Client ID: S-1		%Solid: 90.6				Sample Description: Depth 10'; BDL			
<b>Gas Range Organics</b>	<b>.8</b>	<b>mg/kg</b>	0.6	2	1	J WI GRO	tlg		12/3/98
Nova Sample Number: 13198		QC Batch Number: 982597				Collection: 11/30/98		Time: 11:55	
Client ID: S-2		%Solid: 84				Sample Description: Depth 10'; BDL			
<b>Gas Range Organics</b>	<b>1.1</b>	<b>mg/kg</b>	0.6	2	1	J WI GRO	tlg		12/3/98
Nova Sample Number: 13199		QC Batch Number: 982607				Collection: 11/30/98		Time: 12:00	
Client ID: S-3		%Solid: 89.2				Sample Description: Depth 2.5'; PID 400			
<b>Gas Range Organics</b>	<b>409</b>	<b>mg/kg</b>	2.8	9	5	WI GRO	tlg		12/4/98
Nova Sample Number: 13200		QC Batch Number: 982597				Collection: 11/30/98		Time:	
Client ID: TRIP		%Solid: 100				Sample Description:			
<b>Gas Range Organics</b>	<b>&lt; 0.5</b>	<b>mg/kg</b>	0.5	2	1	WI GRO	tlg		12/3/98

Approved By: \_\_\_\_\_



James Chang, Ph.D., Lab Director

Date: \_\_\_\_\_

12/21/98

NOVA Lab LOD = where the LOD has been determined in accordance with 40 CFR, Part 136, Appendix B.

LUST LOD = LUST program PVOC/VOC LOD of 25 ug/kg (wet weight basis)

LUST LOQ = LUST program PVOC/VOC LOQ of 60 ug/kg (wet weight basis)

RQ : Run Qualifier: "J" = Results between LOD and LOQ "L" = Sample less than 20 g, "B" = Showed in Blank sample.

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.

DNR Analytical Detection Limit Guidance, April 1995.

# APL Environmental

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Steve Thuemling  
 Giles Engineering Associates, Inc.  
 N8 W22350 Johnson Rd. Suite A1  
 Waukesha, WI 53186

## ORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER: 980973

DATE REPORTED: 08-Dec-98

DATE RECEIVED: 01-Dec-98

SAMPLE TEMP (C): Rec On Ice

PROJECT ID: 1E-9811039

PROJECT NAME: America's Black Holo

Test	Result	Units	LOD	LOQ	Dil	RQ Method	Analyst	Date Ext.	Date Anal.
Nova Sample Number: 13197		QC Batch Number: 982598			Collection: 11/30/98		Time: 11:04		
Client ID: S-1		%Solid: 90.6			Sample Description: Depth 10'; BDL				
1,2,4-Trimethyl Benzene	< 26	ug/kg	26	83	1	WI PVO	tlg		12/3/98
1,3,5-Trimethyl Benzene	< 21	ug/kg	21	67	1	WI PVO	tlg		12/3/98
Benzene	< 18	ug/kg	18	57	1	WI PVO	tlg		12/3/98
Ethylbenzene	< 17	ug/kg	17	54	1	WI PVO	tlg		12/3/98
Meta/Para-Xylene	< 37	ug/kg	37	118	1	WI PVO	tlg		12/3/98
MTBE	< 13	ug/kg	13	41	1	WI PVO	tlg		12/3/98
Ortho-Xylene	< 19	ug/kg	19	60	1	WI PVO	tlg		12/3/98
Toluene	< 19	ug/kg	19	60	1	WI PVO	tlg		12/3/98
Nova Sample Number: 13198		QC Batch Number: 982598			Collection: 11/30/98		Time: 11:55		
Client ID: S-2		%Solid: 84			Sample Description: Depth 10'; BDL				
1,2,4-Trimethyl Benzene	< 28	ug/kg	28	89	1	WI PVO	tlg		12/3/98
1,3,5-Trimethyl Benzene	< 22	ug/kg	22	70	1	WI PVO	tlg		12/3/98
Benzene	< 19	ug/kg	19	60	1	WI PVO	tlg		12/3/98
Ethylbenzene	< 18	ug/kg	18	57	1	WI PVO	tlg		12/3/98
Meta/Para-Xylene	< 40	ug/kg	40	127	1	WI PVO	tlg		12/3/98
MTBE	< 14	ug/kg	14	45	1	WI PVO	tlg		12/3/98
Ortho-Xylene	< 21	ug/kg	21	67	1	WI PVO	tlg		12/3/98
Toluene	< 21	ug/kg	21	67	1	WI PVO	tlg		12/3/98
Nova Sample Number: 13199		QC Batch Number: 982626			Collection: 11/30/98		Time: 12:00		
Client ID: S-3		%Solid: 89.2			Sample Description: Depth 2.5'; PID 400				
1,2,4-Trimethyl Benzene	26800	ug/kg	132	420	5	WI PVO	tlg		12/7/98
1,3,5-Trimethyl Benzene	12400	ug/kg	104	331	5	WI PVO	tlg		12/7/98
Benzene	< 90	ug/kg	90	286	5	WI PVO	tlg		12/7/98
Ethylbenzene	1960	ug/kg	86	274	5	WI PVO	tlg		12/7/98
Meta/Para-Xylene	9080	ug/kg	187	595	5	WI PVO	tlg		12/7/98
MTBE	< 67	ug/kg	67	213	5	WI PVO	tlg		12/7/98
Ortho-Xylene	10400	ug/kg	98	312	5	WI PVO	tlg		12/7/98
Toluene	1550	ug/kg	99	315	5	WI PVO	tlg		12/7/98
Nova Sample Number: 13200		QC Batch Number: 982598			Collection: 11/30/98		Time:		
Client ID: TRIP		%Solid: 100			Sample Description:				
1,2,4-Trimethyl Benzene	< 24	ug/kg	24	76	1	WI PVO	tlg		12/3/98
1,3,5-Trimethyl Benzene	< 19	ug/kg	19	60	1	WI PVO	tlg		12/3/98
Benzene	< 16	ug/kg	16	51	1	WI PVO	tlg		12/3/98
Ethylbenzene	< 15	ug/kg	15	48	1	WI PVO	tlg		12/3/98

# APL Environmental

8222 W. Calumet Rd., Milwaukee, WI 53223  
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Steve Thuemling  
Giles Engineering Associates, Inc.  
N8 W22350 Johnson Rd. Suite A1  
Waukesha, WI 53186

## ORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER: 980973

DATE REPORTED: 08-Dec-98

DATE RECEIVED: 01-Dec-98

SAMPLE TEMP (C): Rec On Ice

PROJECT ID: 1E-9811039

PROJECT NAME: America's Black Holo

Test	Result	Units	LOD	LOQ	Dil	RQ Method	Analyst	Date Ext.	Date Anal.
Meta/Para-Xylene	< 33	ug/kg	33	105	1	WI PVO	tlg		12/3/98
MTBE	< 12	ug/kg	12	38	1	WI PVO	tlg		12/3/98
Ortho-Xylene	< 18	ug/kg	18	57	1	WI PVO	tlg		12/3/98
Toluene	< 18	ug/kg	18	57	1	WI PVO	tlg		12/3/98

Approved By: 

James Chang, Ph.D., Lab Director

Date: 12/12/98

NOVA Lab LOD = where the LOD has been determined in accordance with 40 CFR, Part 136, Appendix B.

LUST LOD = LUST program PVOC/VOC LOD of 25 ug/kg (wet weight basis)

LUST LOQ = LUST program PVOC/VOC LOQ of 60 ug/kg (wet weight basis)

RQ: Run Qualifier: "J" = Results between LOD and LOQ "L" = Sample less than 20 g, "B" = Showed in Blank sample.

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.  
DNR Analytical Detection Limit Guidance, April 1995.

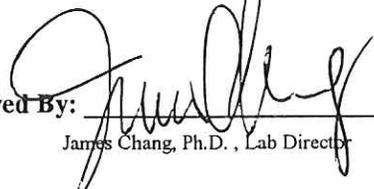
8222 W. Calumet Rd., Milwaukee, WI 53223  
 Phone: (414) 355-5800 Fax: (414) 355-3099

WDNR# 241340550

Steve Thuemling  
 Giles Engineering Associates, Inc.  
 N8 W22350 Johnson Rd. Suite A1  
 Waukesha, WI 53186

INVOICE NUMBER: 980973  
 DATE REPORTED: 22-Dec-98  
 DATE RECEIVED: 01-Dec-98  
 SAMPLE TEMP (C): Rec On Ice  
 PROJECT ID: 1E-9811039  
 PROJECT NAME: America's Black Hole

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 13197										
Client ID: S-1										
Collection: 11/30/98 Time: 11:04										
Sample Description: Depth 10'; BDL										
Lead - ICAP	21	mg/kg	DB	3.2	10	6010	dmd	12/21/98	982754	
Solids, Total Percent	91	%	#			SM 2540	ap	12/1/98	982567	
Nova Sample Number: 13198										
Client ID: S-2										
Collection: 11/30/98 Time: 11:55										
Sample Description: Depth 10'; BDL										
Lead - ICAP	31	mg/kg	DB	3.4	11	6010	dmd	12/21/98	982754	
Solids, Total Percent	84	%	#			SM 2540	ap	12/1/98	982567	
Nova Sample Number: 13199										
Client ID: S-3										
Collection: 11/30/98 Time: 12:00										
Sample Description: Depth 2.5'; PID 400										
Lead - ICAP	200	mg/kg	DB	3.2	10	6010	dmd	12/21/98	982754	
Solids, Total Percent	89	%	#			SM 2540	ap	12/1/98	982567	
Nova Sample Number: 13200										
Client ID: TRIP										
Collection: 11/30/98 Time:										
Sample Description:										
Solids, Total Percent	100	%	#			SM 2540	ap	12/1/98	982567	tripblank

Approved By:  Date: 12/22/98  
 James Chang, Ph.D., Lab Director

DB Results expressed as dry weight.

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B

LOQ = 10 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study

LOD = 3.143 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.

DNR Analytical Detection Limit Guidance, April 1995.

99-00033

**GILES ENGINEERING ASSOCIATES, INC.**

- NB W22350 Johnson Road Suite A1, Waukesha, WI 53186
- 4875 East La Palma Avenue Suite 607, Anaheim, CA 92807
- 12240 Indian Creek Court Suite 105, Beltsville, MD 20705
- 10031 Monroe Drive Suite 101, Dallas, TX 75229

**CHAIN-OF-CUSTODY**  
 fax: 414-549-5868  
 fax: 714-779-0068  
 fax: 301-210-1215  
 fax: 214-358-5884

**RUSH-DUE** 1/29/99!

- closure sample
- confirmation required

COEH 65517 M/L  
 Site **Black Holocast Mynum**  
 Address **2235 N 4th St**  
**Milwaukee, WI**

Sample Collector: **Charles Rens** Project Manager: **Mike Morrison** Project Number: **18-981039**  
 Laboratory Used: **Robert E Lee** Lab Contact: \_\_\_\_\_

Sample Description	(Sample Depth)	Sample Matrix (Soil, Water, etc.)	Date Collected	Time Collected	Field Screen	GRO (WI mod)	DRO (WI mod)	TPH (gasoline) 8015	TPH (diesel) 8015	VOC (EPA 8021)	PVOC (EPA 8020)	BTEX (EPA 8020)	Lead	Cadmium	Copper	Silver	Asbestos	TCLP metals	Semi-volatile Org (825/8270)	Purgable Halocarbons	Purgable Aromatics	TCLP Lead	Number and Type of Containers	Sample Preservative	Due Date	Sample Temperature	MSID
B-1 A	0-4 Soil	Soil	1/27	3:45	Z																		1-3oz	-			
* B-1 IS A SAMPLE OF S-3 collected on 11/30/98 AT THE SAME LOCATION																											

container code:  
 A = 8 oz/250 ml  
 B = 4 oz/120 ml Teflon lined

G = 2 oz/60 ml Teflon lined  
 D = 40 ml VOA vial  
 E = Quert Teflon lined  
 F = 250 ml plastic

G = poly bag  
 H =

Relinquished By	Date	Time	Received By
<i>[Signature]</i>	1/27/99	11:30	<i>[Signature]</i>
<i>[Signature]</i>	1/27/99	1:52	<i>[Signature]</i>

BILL TO: **Giles Engineering**  
**ATTN: Mike Morrison**

PAGE \_\_\_\_\_ OF \_\_\_\_\_

send copy of invoice to Giles

**Robert E. Lee & Associates, Inc.**  
Wisconsin Certification Number: 405043870  
Certificate of Analysis Report

Giles Engineering Associates, Inc  
N8 W22350 Johnson Road  
Suite 1A  
Waukesha WI 53186  
Project Number: 1E-9811039  
Project Name: NONE

Attn.: Mike Morrison  
Phone: (414)544-0118  
Fax: (414)549-5868  
Client ID: 002161  
Chain: 65517  
Report Date: 2/01/1999



**99REL001061 1/26/1999 B-1**

Metal Preparation	Complete				1/28/1999	DLB
TCLP Extraction-Metals	Complete	Data			1/27/1999	GLB
SW-846-6010B TCLP Lead ICP	<29	ug/L	47	29	97	1/28/1999 DLB

Company

# GILES ENGINEERING ASSOCIATES, INC.

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CHAIN-OF-CUSTODY  
 tel: 414-544-0118 fax: 414-549-5868  
 tel: 714-779-0052 fax: 714-779-0068  
 tel: 301-210-1212 fax: 301-210-1215  
 tel: 214-358-5885 fax: 214-358-5884

Site BLAER HOLECRAUST MUSEUM  
 Address 2235 N. 4th St  
MILWAUKEE, WI

Project Number IF-9811039 Lab Job Number \_\_\_\_\_  
 Project Manager MIN Lab Contact DAVE D  
 Sample Collector CTR Laboratory Used APL

Sample Description	(Sample Depth)	Sample Matrix (Soil, Water, etc.)	Date Collected	Time Collected	Field Screen	GRO (WI mod)	DRO (WI mod)	TPH (gasoline) 8015	TPH (diesel) 8015	VOC (EPA 8021)	PVOC (EPA 8020)	BTEX (EPA 8020)	Lead	Cadmium	Copper	Silver	Asbestos	TCLP metals	Semi-volatile Org (625/8270)	Purgable Halocarbons	Purgable Aromatics	WMI	Bio-3	Number and Type of Containers	Sample Preservative	Due Date	Lab ID	Sample Temperature
601	-	S	2-27-98	2:00 PM	96	X	X																X		2-C 1-E			
602	-	S	2-27-98	2:00 PM																								

container code: A = 8 oz/250 ml B = 4 oz/ 120 ml Teflon lined C = 2 oz/ 60 ml Teflon lined D = 40 ml VOA vial E = Quart Teflon lined F = 250 mL plastic

G = poly bag H = \_\_\_\_\_  
 I = \_\_\_\_\_ J = \_\_\_\_\_

BILL TO: \_\_\_\_\_  
 send copy of invoice to Giles

Relinquished By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Received By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

PAGE 1 OF 1

# APL Environmental

8222 W. Calumet Rd., Milwaukee, WI 53223  
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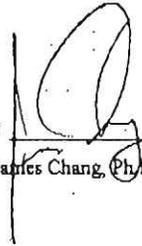
Mike Morrison  
Giles Engineering Associates, Inc.  
N8 W22350 Johnson Rd. Suite A1  
Waukesha, WI 53186

## ORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER: 990048  
DATE REPORTED: 29-Jan-99  
DATE RECEIVED: 28-Jan-99  
SAMPLE TEMP (C): Rec On Ice  
PROJECT ID: 1E-9811039  
PROJECT NAME: Black Holocaust Muse

Test	Result	Units	LOD	LOQ	Dil	RQ	Method	Analyst	Date Ext.	Date Anal.
Nova Sample Number: 13847		QC Batch Number: 990157					Collection: 1/27/99		Time: 14:00	
Client ID: PG-1		%Solid: 90.2					Sample Description: PID 96			
<b>Gas Range Organics</b>	28	mg/kg	0.6	2	1		WI GRO	tlg		1/29/99
Nova Sample Number: 13848		QC Batch Number: 990156					Collection: 1/27/99		Time: 14:00	
Client ID: MeOH blank		%Solid: 100					Sample Description:			
<b>Gas Range Organics</b>	<0.5	mg/kg	0.5	2	1		WI GRO	tlg		1/28/99

Approved By: 

James Chang, Ph.D., Lab Director

Date: 2/1/99

NOVA Lab LOD = where the LOD has been determined in accordance with 40 CFR, Part 136, Appendix B.

LUST LOD = LUST program PVOC/VOC LOD of 25 ug/kg (wet weight basis)

LUST LOQ = LUST program PVOC/VOC LOQ of 60 ug/kg (wet weight basis)

RQ: Run Qualifier; "J" = Results between LOD and LOQ "L" = Sample less than 20 g, "B" = Showed in Blank sample.

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.

DNR Analytical Detection Limit Guidance, April 1995.

# APL Environmental

8222 W. Calumet Rd., Milwaukee, WI 53228  
Phone: (414) 355-5000 Fax: (414) 355-3099

## ORGANIC REPORT

WDNR# 241340550

INVOICE NUMBER: 990048

DATE REPORTED: 01-Feb-99

DATE RECEIVED: 28-Jan-99

SAMPLE TEMP (C): Rec On Ice

PROJECT ID: 1E-9811039

PROJECT NAME: Black Holocaust Muse

Mike Morrison  
Giles Engineering Associates, Inc.  
N8 W22350 Johnson Rd. Suite A1  
Waukesha, WI 53186

Test	Result	Units	LOD	LOQ	Dil	RQ	Method	Analyst	Date Ext.	Date Anal.
Nova Sample Number: 13847	QC Batch Number: 990159						Collection: 1/27/99		Time: 14:00	
Client ID: PG-1	%Solid: 90.2						Sample Description: PID 96			
Benzene	< 18	ug/kg	18	57	1		WIPVO	tlg		1/29/99

Approved By: 

James Chang, Ph.D., Lab Director

Date: 2/1/99

NOVA Lab LOD = where the LOD has been determined in accordance with 40 CFR, Part 136, Appendix B.

LUST LOD - LUST program PVOC/VOC LOD of 25 ug/kg (wet weight basis)

LUST LOQ - LUST program PVOC/VOC LOQ of 60 ug/kg (wet weight basis)

RQ: Run Qualifier: "J" = Results between LOD and LOQ "L" = Sample less than 20 g. "B" = Showed in Blank sample

Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.  
DNR Analytical Detection Limit Guidance, April 1995.



# INORGANIC REPORT

WDNR# 241340550

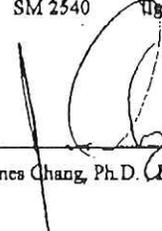
INVOICE NUMBER: 990048  
 DATE REPORTED: 01-Feb-99  
 DATE RECEIVED: 28-Jan-99  
 SAMPLE TEMP (C): Rec On Ice  
 PROJECT ID: 1E-9811039  
 PROJECT NAME: Black Holocaust Muse

Mike Morrison  
 Giles Engineering Associates, Inc.  
 N8-W22350 Johnson Rd. Suite A1  
 Waukesha, WI 53186

Test	Result	Units	RQ	LOD	LOQ	Method	Analyst	Date Anal	QC#	Comments
Nova Sample Number: 13847										
Client ID: PG-1										
							Collection: 1/27/99	Time: 14:00		
							Sample Description: PID 96			
Lead - ICAP	9.5	mg/kg	J DB	3.4	11	6010	dmd	1/28/99	990145	
Solids, Total Percent	90	%	#			SM 2540	tlg	1/29/99	990151	

Nova Sample Number: 13848										
Client ID: MeOH blank										
							Collection: 1/27/99	Time: 14:00		
							Sample Description:			
Solids, Total Percent	100	%	#			SM 2540	tlg	1/29/99	990151	trip blank

Approved By:



James Chang, Ph.D. Lab Director

Date:

2/11/99

DB: Results expressed as dry weight.

MDL: Method Detection Limit determined by 40CFR Part 136 Appendix B "J" = Results between LOD and LOQ "#" = no LOD or LOQ required.

LOQ = 10 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study

LOD = 3.143 (S) x Dilution Factor, where "S" is the Standard Deviation from the MDL Study

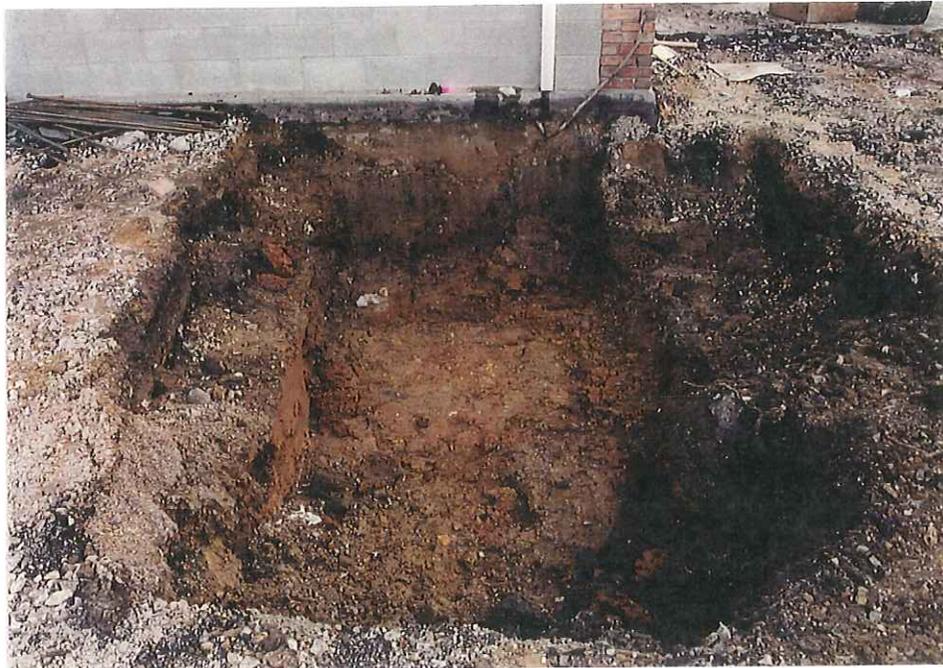
Rounding Rules: Three significant figures were used for concentrations above 99 ug/L, two significant figures for concentrations between 1-99 ug/L, and one significant figure for lower concentrations.

DNR Analytical Detection Limit Guidance, April 1995.





View of soil removal excavation area located west of the existing structure (facing north)



View of soil removal excavation area located west of the existing structure (facing east)

### **SITE PHOTOGRAPHS**

February 3, 1999

**America's Black Holocaust Museum**  
**2235 North 4th Street**  
**Milwaukee, Wisconsin**  
**Project No. 1E-9811039-1**



**GILES**  
ENGINEERING ASSOCIATES, INC.



View of soil removal excavation area located west of the existing structure (facing north)



View of the former pea gravel stockpile location (facing northeast)

### SITE PHOTOGRAPHS

February 3, 1999

America's Black Holocaust Museum  
2235 North 4th Street  
Milwaukee, Wisconsin  
Project No. 1E-9811039-1

 **GILES**  
ENGINEERING ASSOCIATES, INC.







**Site Information**

Jack Holocost Museum  
2235 N. 4th  
Milwaukee, WI

Giles Project #: 1E-9811039

Lab Job #: 99.0015

Client: Mike Morrison

Date Received: 2/3/99

**GRO (WISCONSIN MODIFIED METHOD)**

SAMPLE DESCRIPTION	SAMPLE MATRIX	SAMPLE NUMBER	DATE ANALYZED	DATE SAMPLED	GRO RESULT	FLAGS	LIMIT OF DETECTION	LIMIT OF QUANTITATION	DILUTION	PERCENT SOLIDS
S-1 3.0	Soil	99.118	2/4/99	2/3/99	<		0.25 mg/kg	0.82 mg/kg	1	81.8%
S-2 3.0	Soil	99.119	2/5/99	2/3/99	<		0.25 mg/kg	0.82 mg/kg	1	83.1%
S-3 3.0	Soil	99.120	2/5/99	2/3/99	<		0.25 mg/kg	0.82 mg/kg	1	83.7%
BT-4 3.5	Soil	99.121	2/5/99	2/3/99	<		0.25 mg/kg	0.82 mg/kg	1	84.8%
WDNR MeOH Trip Blank	Other	99.122	2/4/99	2/3/99	<		0.25 mg/kg	0.82 mg/kg	1	

**QC DATA SUMMARY**

Batch #: 990204-11

Blank: 0.09 mg/kg P  
Spike: 100%  
Dup Spike: 101%  
RPD: 1.2%

Begin Calibration Check: 111%  
End Calibration Check: 109%  
Second Source Calibration Check: 109%  
MeOH Blank: <

**DATA FLAGS**

- Soil analysis reported on a dry weight basis
- < = Below the Limit of Detection
- P = Estimated value below the Limit of Detection

Approved By: \_\_\_\_\_

Date: 2/5/99

Dwight E. Montague, Laboratory Supervisor  
WDNR #268305180

# PVOC Analytical Report

Site Information:  
 Black Holocaust Museum  
 2235 N. 4th  
 Milwaukee WI



**GILES**  
 ENGINEERING ASSOCIATES, INC.

client	Mike Morrison	EPA method	8020B
project	1E-9811039	matrix	Soil
date analyzed	2/4/1999	dilution	1: 50.00
date sampled	2/3/1999	analyzed by	DEM
date extracted	2/3/1999	sample	99.118
percent solids	81.8%	lab job #	99.0015

sample # 99.118 S-1 3.0

Flags

analyte	result (ug/kg)	LOD (ug/kg)	LOQ (ug/kg)	MeOH Blank (ug/kg)	Blank times dilution
Benzene	<	7.6	25	<	<
Toluene	<	9.6	32	<	<
Ethylbenzene	<	10	34	<	<
Total Xylenes	<	32	110	<	<
Methyl tertiary butyl ether	<	7.9	26	<	<
1,2,4-Trimethylbenzene	<	16	52	<	<
1,3,5-Trimethylbenzene	<	9.7	32	<	<

## QC SUMMARY

Initial Calibration Check	100.0% passing
Second Source Calibration Check	100.0% passing
methanol blank	100.0% passing
water blank	100.0% passing
spike recovery	100.0% passing
duplicate spike recovery	100.0% passing
RPD	100.0% passing
end calibration check standard	100.0% passing

QC batch number	b01ef4x
Sequence file	e:\03\b01ef.seq
Calibration file	A e:\03\03ewa259
	B e:\03\03fwa259

Surrogates

98.6%	Fluorobenzene
105.4%	4-Bromofluorobenzene
119.0%	2-Bromochlorobenzene

data file	A	e:\03\b01e070.rst
data file	B	e:\03\b01f070.rst

## DATA FLAGS

☐ Soil analysis reported on a dry weight basis

☐ Elevated LOD due to methanol extraction

LOQ - limit of quantitation; LOD - limit of detection < - less than LOD

Approved by: 

Dwight E. Montague, Laboratory Supervisor

Date: 02/05/1999

WDNR #263305180

# PVOC Analytical Report

Site Information:  
 Black Holocost Museum  
 2235 N. 4th  
 Milwaukee WI



**GILES**  
 ENGINEERING ASSOCIATES, INC.

client	Mike Morrison	EPA method	8020B
project	1E-9811039	matrix	Soil
date analyzed	2/5/1999	dilution	1: 50.00
date sampled	2/3/1999	analyzed by	DEM
date extracted	2/3/1999	sample	99.119
percent solids	83.1%	lab job #	99.0015

sample # 99.119 S-2 3.0

Flags

analyte	result (ug/kg)	LOD (ug/kg)	LOQ (ug/kg)	MeOH Blank (ug/kg)	Blank times dilution
Benzene	<	7.6	25	<	<
Toluene	<	9.6	32	<	<
Ethylbenzene	<	10	34	<	<
Total Xylenes	<	32	110	<	<
Methyl tertiary butyl ether	<	7.9	26	<	<
1,2,4-Trimethylbenzene	<	16	52	<	<
1,3,5-Trimethylbenzene	<	9.7	32	<	<

## QC SUMMARY

Initial Calibration Check	100.0% passing
Second Source Calibration Check	100.0% passing
methanol blank	100.0% passing
water blank	100.0% passing
spike recovery	100.0% passing
duplicate spike recovery	100.0% passing
RPD	100.0% passing
end calibration check standard	100.0% passing

QC batch number	b01ef4x
Sequence file	e:\03\b01ef.seq
Calibration file	A e:\03\03ewa259
	B e:\03\03fwa259

Surrogates

103.8%	Fluorobenzene
109.0%	4-Bromofluorobenzene
77.5%	2-Bromochlorobenzene

data file	A	e:\03\b01e071.rst
data file	B	e:\03\b01f071.rst

## DATA FLAGS

☐ Soil analysis reported on a dry weight basis

☐ Elevated LOD due to methanol extraction

LOQ - limit of quantitation . LOD - limit of detection < - less than LOD

Approved by: 

Dwight E. Montague, Laboratory Supervisor

Date: 02/05/1999

WDNR #268305180

# PVOC Analytical Report

Site Information:  
 Black Holocaust Museum  
 2235 N. 4th  
 Milwaukee WI



**GILES**  
 ENGINEERING ASSOCIATES, INC.

client	Mike Morrison	EPA method	8020B
project	1E-9811039	matrix	Soil
date analyzed	2/5/1999	dilution	1: 50.00
date sampled	2/3/1999	analyzed by	DEM
date extracted	2/3/1999	sample	99.120
percent solids	83.7%	lab job #	99.0015

sample # 99.120 S-3 3.0

Flags

analyte	result (ug/kg)	LOD (ug/kg)	LOQ (ug/kg)	MeOH Blank (ug/kg)	Blank times dilution
Benzene	<	7.6	25	<	<
Toluene	<	9.6	32	<	<
Ethylbenzene	<	10	34	<	<
Total Xylenes	<	32	110	<	<
Methyl tertiary butyl ether	<	7.9	26	<	<
1,2,4-Trimethylbenzene	<	16	52	<	<
1,3,5-Trimethylbenzene	<	9.7	32	<	<

## QC SUMMARY

Initial Calibration Check 100.0% passing  
 Second Source Calibration Check 100.0% passing  
 methanol blank 100.0% passing  
 water blank 100.0% passing  
 spike recovery 100.0% passing  
 duplicate spike recovery 100.0% passing  
 RPD 100.0% passing  
 end calibration check standard 100.0% passing

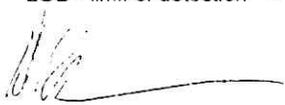
QC batch number b01ef4x  
 Sequence file e:\03\b01ef.seq  
 Calibration file A e:\03\03ewa259  
                   B e:\03\03fwa259  
 Surrogates  
     103.2% Fluorobenzene  
     109.6% 4-Bromofluorobenzene  
     76.5% 2-Bromoclorobenzene  
 data file A e:\03\b01e072.rst  
 data file B e:\03\b01f072.rst

## DATA FLAGS

☐ Soil analysis reported on a dry weight basis

☐ Elevated LOD due to methanol extraction

LOQ - limit of quantitation    LOD - limit of detection    < - less than LOD

Approved by:   
 Dwight E. Montague, Laboratory Supervisor

Date: 02/05/1999  
 WDNR #258305180

# PVOC Analytical Report

Site Information:  
 Black Holocaust Museum  
 2235 N. 4th  
 Milwaukee WI



**GILES**  
 ENGINEERING ASSOCIATES, INC.

client	Mike Morrison	EPA method	8020B
project	1E-9811039	matrix	Soil
date analyzed	2/5/1999	dilution	1: 50.00
date sampled	2/3/1999	analyzed by	DEM
date extracted	2/3/1999	sample	99.121
percent solids	84.8%	lab job #	99.0015

sample # 99.121 BT-4 3.5

Flags

analyte	result (ug/kg)	LOD (ug/kg)	LOQ (ug/kg)	MeOH Blank (ug/kg)	Blank times dilution
Benzene	<	7.6	25	<	<
Toluene	<	9.6	32	<	<
Ethylbenzene	<	10	34	<	<
Total Xylenes	<	32	110	<	<
Methyl tertiary butyl ether	<	7.9	26	<	<
1,2,4-Trimethylbenzene	<	16	52	<	<
1,3,5-Trimethylbenzene	<	9.7	32	<	<

## QC SUMMARY

Initial Calibration Check 100.0% passing  
 Second Source Calibration Check 100.0% passing  
 methanol blank 100.0% passing  
 water blank 100.0% passing  
 spike recovery 100.0% passing  
 duplicate spike recovery 100.0% passing  
 RPD 100.0% passing  
 end calibration check standard 100.0% passing

QC batch number b01ef4x  
 Sequence file e:\03\b01ef.seq  
 Calibration file A e:\03\03ewa259  
 B e:\03\03fwa259

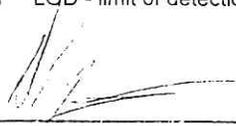
Surrogates  
 71.5% Fluorobenzene  
 78.4% 4-Bromofluorobenzene  
 107.8% 2-Bromochlorobenzene

data file A e:\03\b01e073.rst  
 data file B e:\03\b01f073.rst

## DATA FLAGS

⊠ Soil analysis reported on a dry weight basis

⊠ Elevated LOD due to methanol extraction  
 LOQ - limit of quantitation LOD - limit of detection < - less than LOD

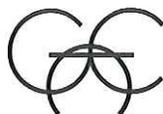
Approved by:   
 Dwight E. Montague, Laboratory Supervisor

Date: 02/05/1999  
 WQNR #266305180

# PVOC Analytical Report

## Site Information:

Black Holocaust Museum  
2235 N. 4th  
Milwaukee WI



**GILES**  
ENGINEERING ASSOCIATES, INC.

client Mike Morrison  
project 1E-9811039  
date analyzed 2/5/1999  
date sampled 2/3/1999  
date extracted 2/3/1999  
percent solids 100.0%

EPA method 8020B  
matrix Other  
dilution 1: 50.00  
analyzed by DEM  
sample 99.122  
lab job # 99.0015

sample # 99.122 WDNR MeOH Trip Blank

Flags

analyte	result (ug/kg)	LOD (ug/kg)	LOQ (ug/kg)	MeOH Blank (ug/kg)	Blank times dilution
Benzene	<	7.6	25	<	<
Toluene	<	9.6	32	<	<
Ethylbenzene	<	10	34	<	<
Total Xylenes	<	32	110	<	<
Methyl tertiary butyl ether	<	7.9	26	<	<
1,2,4-Trimethylbenzene	<	16	52	<	<
1,3,5-Trimethylbenzene	<	9.7	32	<	<

## QC SUMMARY

Initial Calibration Check 100.0% passing  
Second Source Calibration Check 100.0% passing  
methanol blank 100.0% passing  
water blank 100.0% passing  
spike recovery 100.0% passing  
duplicate spike recovery 100.0% passing  
RPD 100.0% passing  
end calibration check standard 100.0% passing

QC batch number b01ef4x  
Sequence file e:\03\b01ef.seq  
Calibration file A e:\03\03ewa259  
B e:\03\03fwa259

Surrogates  
102.4% Fluorobenzene  
108.4% 4-Bromofluorobenzene  
77.2% 2-Bromoclorobenzene

data file A e:\03\b01e074.rst  
data file B e:\03\b01f074.rst

## DATA FLAGS

⊠ Elevated LOD due to methanol extraction  
LOQ - limit of quantitation LOD - limit of detection < - less than LOD

Approved by \_\_\_\_\_

Dwight E. Montague, Laboratory Supervisor

Date: 02/05/1999

WDNR #268305180

49-COC-39

CO# 65555 M  
Site Black Halocost Museum  
Address 2235 N. 4th  
Milwaukee WI

GILES ENGINEERING ASSOCIATES, INC.

N8 W22350 Johnson Road Suite A1, Waukesha, WI 53186  
4875 East La Palma Avenue Suite 607, Anaheim, CA 92807  
12240 Indian Creek Court Suite 105, Beltsville, MD 20705  
10031 Monroe Drive Suite 101, Dallas, TX 75229

CHAIN-OF-CUSTODY

tel: 414-544-0118  
tel: 714-779-0052  
tel: 301-210-1212  
tel: 214-358-5885  
fax: 414-549-5868  
fax: 714-779-0068  
fax: 301-210-1215  
fax: 214-358-5884

- closure sample
- confirmation required

Sample Collector Charles Rehs  
Project Manager Mike Morrison  
Project Number IE-9811039  
Lab Job Number

Sample Description	(Sample Depth)	Sample Matrix (Soil, Water, etc.)	Date Collected	Time Collected	Field Screen	GRO (WI mod)	DRO (WI mod)	TPH (gasoline) 8015	TPH (diesel) 8015	VOC (EPA 8021)	PVOC (EPA 8020)	BTEX (EPA 8020)	Lead	Cadmium	Copper	Silver	Asbestos	TCLP metals	Semi-volatile Org (625/8270)	Purgable Halocarbons	Purgable Aromatics	Pb	Number and Type of Containers	Sample Preservative	Due Date	Lab ID	Sample Temperature	
S-1	3.0	Soil	2/3		RD																		1-C	NOA	RUSH	1557		
S-3	3.0																										1558	
BT-4	3.5																										1559	

ROI @ Giles  
Transferred from Giles Lab Job # 99-0015 on 3/4/99

container code: A = 8 oz/250 ml, B = 4 oz/120 ml Teflon lined, C = 2 oz/60 ml Teflon lined, D = 40 mL VOA vial, E = Quart Teflon lined, F = 250 mL plastic

Relinquished By: [Signature] Date: 2/4/99 Time: 12:00pm  
Received By: [Signature] Date: 2/4/99 Time: 2:50pm

BILL TO: RUSH due 2/8/99

PAGE 1 OF 1

Send copy of invoice to Giles

San 10



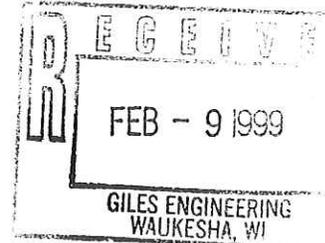
# Robert E. Lee & Associates, Inc.

## Engineering, Surveying, Laboratory Services

2825 S. Webster Ave.  
P.O. Box 2100  
Green Bay, WI 54306-2100  
Phone: (920) 336-6338  
Fax: (920) 336-9141  
E-Mail: rel@netnet.net

Milwaukee Area  
830 Armour Rd.  
Oconomowoc, WI 53066  
Phone: (414)569-8893 1-800-775-8893  
Fax: (414)569-7995  
Wisconsin Certification Number: 405043870

**MR. MIKE MORRISON**  
**GILES ENGINEERING ASSOCIATES, INC**  
**N8 W22350 JOHNSON ROAD**  
**SUITE 1A**  
**WAUKESHA WI 53186**



Phone: (414)544-0118  
Fax: (414)549-5868  
Client ID: 002161  
Contact ID: 822

### Sample Information

Report Date: 2/08/1999  
Chain Number: 65555  
Project No: 1E-9811039  
Project Name: NONE  
Receive Date: 2/04/1999  
Sample Date: 2/03/1999

Attest:

*Stu Herzog*

**Robert E. Lee & Associates, Inc.**  
 Wisconsin Certification Number: 405043870  
 Certificate of Analysis Report

Giles Engineering Associates, Inc  
 N8 W22350 Johnson Road  
 Suite 1A  
 Waukesha WI 53186  
 Project Number: 1E-9811039  
 Project Name: NONE

Attn.: Mr. Mike Morrison  
 Phone: (414)544-0118  
 Fax: (414)549-5868  
 Client ID: 002161  
 Chain: 65555  
 Report Date: 2/08/1999

Method	Parameter Name	Result	Units	Flag	MDL	PQL	Anls. Date	Analyst
Lab No.	Collect Date	Sample ID						

**99REL001557   2/03/1999   S-1**

	Metal Preparation	Complete					2/04/1999	DLB
SW-846-6010B	Total Lead ICP	55	mg/Kg	1.8	6.0		2/05/1999	DLB
SM-2540G	Total Solids	32	%	0.010	0.033		2/04/1999	DJN

**99REL001558   2/03/1999   S-3**

	Metal Preparation	Complete					2/04/1999	DLB
SW-846-6010B	Total Lead ICP	30	mg/Kg	1.7	5.7		2/05/1999	DLB
SM-2540G	Total Solids	84	%	0.010	0.033		2/04/1999	DJN

**99REL001559   2/03/1999   BT-4**

	Metal Preparation	Complete					2/04/1999	DLB
SW-846-6010B	Total Lead ICP	29	mg/Kg	1.7	5.7		2/05/1999	DLB
SM-2540G	Total Solids	86	%	0.010	0.033		2/04/1999	DJN

# GILES ENGINEERING ASSOCIATES, INC.

## Atlanta, GA

(770) 458-3399

(770) 458-3998 (Fax No.)

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(214) 358-5885

(214) 358-5884 (Fax No.)

## Los Angeles, CA

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(425) 482-2020

(425) 482-6300 (Fax No.)

## Washington, D.C.

(410) 312-9950

(410) 312-9955 (Fax No.)



# GILES

ENGINEERING ASSOCIATES, INC.

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GEOTECHNICAL, ENVIRONMENTAL & CONSTRUCTION MATERIALS CONSULTANTS