



January 9, 2013

Mr. Richard Klinke
Klinke Cleaners
4518 Monona Drive
Madison, Wisconsin 53716

**Re: Site Investigation Progress Report 1
Klinke Cleaners
2875 University Avenue
Madison, Wisconsin
BRRTS#: 02-13-551964**

Dear Mr. Klinke:

Environmental Forensic Investigations, Inc. (EnviroForensics) is pleased to provide this progress report regarding recent site investigations (SI) performed at the Klinke Cleaners facility located at 2875 University Avenue in Madison, Wisconsin (the Site). The site investigations were performed in accordance with Wisconsin Department of Natural Resources (WDNR) regulations and guidance regarding such investigations, and in accordance with the procedures presented in our detailed work scope titled: *Scoping Document and Cost Estimate for Site Investigation*, dated July 3, 2012.

1.0 SITE DESCRIPTION

The Site is located at 2875 University Avenue adjacent to, but just outside, the University of Wisconsin campus in the City of Madison, Wisconsin. The Site location and vicinity can be seen on Figures 1 and 2. The Site consists of a slab-on-grade, one-story, multiple-tenant commercial building and asphalt paved parking area with drive thru service. The Site is bound by University Avenue to the north, a parking lot and commercial building to the east, two residences and Harvey Street to the south, and Ridge Street to the west. The Site is situated in an area of mixed commercial and residential land use. The nearest surface water body is Lake Mendota located approximately 3,500 feet to the northeast of the site.

The property has been utilized for dry cleaning services since the early 1990's and tetrachloroethene (PCE) was the main dry cleaning solvent used in the cleaning process until its use was discontinued in 2003.

2.0 SUMMARY OF PAST INVESTIGATIONS

A preliminary site assessment (PSA) was performed by Northern Environmental in June of 2008. This limited assessment basically consisted of collecting soil samples from three borings located around the outside perimeter of the building. The soil samples were collected from various depth intervals to a maximum boring depth of 20 feet below ground surface (bgs). The samples were sent to a certified laboratory and analyzed for volatile organic compounds (VOC). During this investigation, groundwater was not encountered in any of the borings.

Based on geologic information contained in the PSA soil boring logs, two feet of fill was encountered in the borings, followed by seven to nine feet of clay overlying a medium to fine grained sand. Tetrachloroethene (PCE) was detected in the shallow clay near the interface with the overlying fill at one soil boring (B700) located adjacent to the outside wall of the building and approximately 5-10 feet away from the dry cleaning machine located inside the building (see Figure 2). The PCE was detected at a concentration of 47 ug/kg (micrograms per kilogram) which exceeds the WDNR Residual Contaminant Level (RCL) soil of 4.5 ug/kg established for protection of the groundwater migration pathway (RCL determined using the Environmental Protection Agency Regional Screening Level calculator with climatic zone set to Chicago)..

In addition, xylene and trimethylbenzene were detected within the same clay/fill interface at a different soil boring location (B800 on Figure 2). The concentration of these typical petroleum-related compounds did not exceed any applicable State or Federal standards, and are not related to the Klinke Cleaners operations.

3.0 SUMMARY OF CURRENT INVESTIGATIVE PHASE

3.1 Scope of Field Investigations

EnviroForensics staff conducted field investigations on September 20, 2012. The locations of the following data collection points can be seen on Figure 2. The planned investigations included:

- Two hand-auger borings (HA-1 and HA-2) beneath the building slab to better assess the distribution of volatile organic compounds (VOC) within the presumed source area;
- One deeper soil boring by direct-push methods (B-1) located outside the building in an attempt to collect a groundwater grab sample; and
- The collection of three (3) sub-slab vapor samples, two of which were located adjacent to hand-auger borings (HA-1/SSV-1 and HA-2/SSV-2).

Sub-slab vapor samples were collected prior to coring holes in the building slab to facilitate hand-auger soil sampling. This was done to prevent volatiles from escaping through the holes in the slab and potentially affecting the sub-slab vapor analytical results. Sub-slab samples were collected using TM Vapor Pin sample ports, which allow immediate collection of the vapor samples following installation of the ports. Samples were collected in 1-liter summa canisters, which were sent to Test America laboratory and analyzed for total VOC by EPA Method TO-15. Sub-slab field sampling logs are included in Attachment A.

Upon completing the collection of sub-slab vapor samples, six-inch diameter holes were cored through the building slab to facilitate hand-auger soil sampling. Soil samples were collected continuously from hand-auger borings HA-1 and HA-2. The samples were screened for volatile organic compounds (VOC) in the field using a photo-ionization detector (PID) and the instrument readings recorded on the soil boring logs included in Attachment B. The highest PID reading was a very low detection of 0.1 ppm just beneath the slab in HA-1. Based on the low PID instrument readings, soil samples were collected in both HA-1 and HA-2 from just beneath the slab and also at the bottom of each boring. Because groundwater was not encountered in boring B-1, a soil sample was collected from just above bedrock. All soil samples were sent to Test America laboratory and analyzed for total VOC by EPA Method 8260.

3.2 Unexpected Deviations from Scope

- During completion of hand-auger boring HA-1, a rock or other obstruction was encountered at a depth of 3-feet below the building slab and the boring could not be advanced deeper.
- During the direct-push advancement of boring DP-1 for the purposes of collecting a groundwater grab sample, bedrock was encountered before groundwater at a depth of 24.5-feet below ground surface and the boring could not be advanced further. Therefore, a groundwater sample could not be collected. Instead, a soil sample was collected from the bottom of the boring to help delineate the vertical extent of soil impacts at this location.

- Test America analytical laboratory notified us that the amount of vapor collected in the summa canister for SSV-3 was not enough for accurate laboratory results and a decision was made to forego analysis of this canister.

3.3 Investigative Results

Geology

Soil samples for lithological classification were collected from shallow hand-auger borings only. Site soil below the building slab at HA-2 (deepest hand-auger boring to 5 feet bgs.) was observed to be fine to coarse grained sand with little fine gravel (refer to Soil Boring Logs in Attachment B).

Descriptions of site soil by a previous consultant indicates the presence of a clay layer from 2 feet bgs to between 7-9 feet bgs followed by sand to the maximum depth of 20 feet bgs in borings completed outside the footprint of the building. The clay unit was not encountered in the hand-auger borings completed beneath the building slab by EnviroForensics staff.

Soil Boring B-1 was blind-drilled to a maximum depth of 24.5 feet bgs by EnviroForensics staff in an attempt to collect a groundwater sample. The boring was terminated at a depth of 24.5 feet upon encountering sandstone bedrock that was resistant to further direct-push boring methods. Groundwater was not encountered at this depth.

Soil Analytical Results

The only detected VOC compound in soil was tetrachloroethylene (PCE) at a concentration of 56 parts per billion located 2-3 feet below the building slab at hand-auger boring HA-1 (refer to Analytical Results Summary Sheets in Attachment C). This concentration exceeds the WDNR RCL for protection of groundwater. No other VOC were detected in soil samples at concentrations above their respective laboratory detection limits. However, a deeper sample of soil could not be collected at HA-1 and the vertical extent of soil impacts at this location could not be determined.

Sub-slab Vapor Analytical Results

Three VOC were detected in both sub-slab vapor samples SSV-1 and SSV-2 as can be seen in Table 1 and on Figure 2. The compounds detected were PCE, trichloroethylene (TCE) and dichlorodifluoromethane. TCE is a known breakdown product of the dry cleaning solvent PCE and dichlorodifluoromethane is a refrigerant. No other VOC were detected in the vapor samples at concentrations exceeding their respective laboratory detection limits.

The concentrations of PCE and TCE detected in SSV-1 exceed the EPA Vapor Risk Screening Levels for these compounds.

6.0 CONCLUSIONS

Soil samples collected from beneath the building slab and outside the building have exhibited concentrations of PCE within the upper 2-4 feet of soil that exceed the WDNR RCL for protection of groundwater. The vertical extent of PCE could not be determined at HA-1 due to refusal of the hand auger. However, no VOC were detected below this shallow interval in other Site soil borings. Groundwater has not been sampled; however, the water table resides within the sandstone bedrock at a depth greater than 24.5 feet and based on the soil analytical results, there is no indication that VOC impacts have migrated vertically beyond a depth of four (4) or five (5) feet.

PCE and TCE were detected in the vapor phase beneath the building slab at concentrations exceeding the EPA Vapor Risk Screening Levels. Based on the concentrations detected, it is possible that there are residual soil impacts beneath the building slab that have not yet been identified.

5.0 RECOMMENDATIONS

- PCE and TCE vapors have been detected in soil pores located beneath the building slab at concentrations that exceed the EPA Risk Screen Levels for these compounds. This indicates that there is a potential for these vapors to intrude the breathing space within the Site building. PCE is no longer used in the dry cleaning process at this facility. Therefore, a sample of indoor air should be collected within the dry cleaning facility and the adjoining Café. The indoor air samples, along with one sample of outside background air should be tested for total VOC by EPA Method TO-15 as recommended in PUB-RR-800;

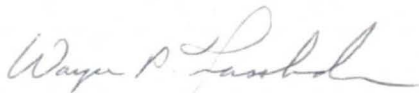
- There are two residences located within 100 feet of the dry cleaners (Figure 2). One residence is located to the south of the Site building, and one residence is located to the southeast of the Site building. Paired sub-slab and indoor air samples should be collected from each of these two residences to determine if they are at risk for intrusion of dry cleaning solvent vapors;
- One groundwater monitoring well should be installed near previous soil boring B-800 and within the sandstone bedrock to determine if there are impacts from dry cleaning solvents to the water table.

6.0 WORK SCOPE & COST ESTIMATE

EnviroForensics will submit this report of findings to Mr. Jim Walden of the Wisconsin Department of Natural Resources for his review and approval of our recommendations for further site investigation work. Upon his approval of the scope, we will prepare a detailed description of the necessary work and an associated cost estimate. At that time, we would like to have a meeting with you to discuss these on-going efforts to characterize impacts at your property and possible actions necessary for site closure.

We appreciate the opportunity to work with you on this project. If you have any questions regarding the results of this investigation, please do not hesitate to call me at (414) 982-3988 or Jeff Carnahan at (317) 614-0590.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Wayne P. Fassbender".

Wayne Fassbender, PG, PMP
Senior Project Manager

Attachments

CC: Brian Cass, OHM

TABLE

Table 1
Summary of Detected Compounds in Sub-Slab Soil Vapor Samples
 Klinke Campus
 Madison, Wisconsin

Sample Identification	Date Sampled	Tetrachloroethene (µg/m ³)	Trichloroethene (µg/m ³)	Dichlorodifluoromethane
6272-SSV-1	9/20/2012	2,100	4,500	130
6272-SSV2	9/20/2012	440	14	25
Vapor Risk Screening Level¹		1,800	88	4,400

Notes:

¹ The Vapor Risk Screening Levels are based on U.S. E.P.A.'s Regional Screening Levels (RSL's) for industrial indoor air with an attenuation factor of 0.1 for sub-slab samples a 0.1 adjustment for 1×10^{-5} lifetime cancer risk for carcinogens

All concentrations reported in units in micrograms per cubic meter (ug/m³)

Bolded and Shaded values exceed the Vapor Risk Screening Level

Bolded values are above detection limits

N.E. = Not Established

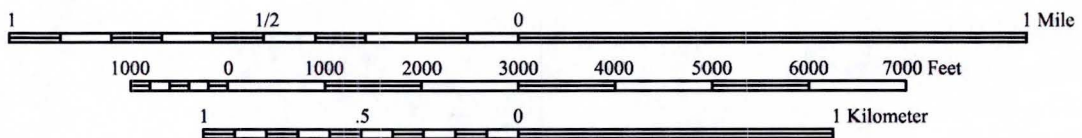
*=Laboratory Reporting Limit exceeds Target indoor air concentration level

ND = Compound not detected

FIGURES



Scale 1:24,000



Source: US Geological Survey, Madison West, Wisconsin Quadrangle, 7.5 Minute Series, 1983

No.	Date	Revision	Approved

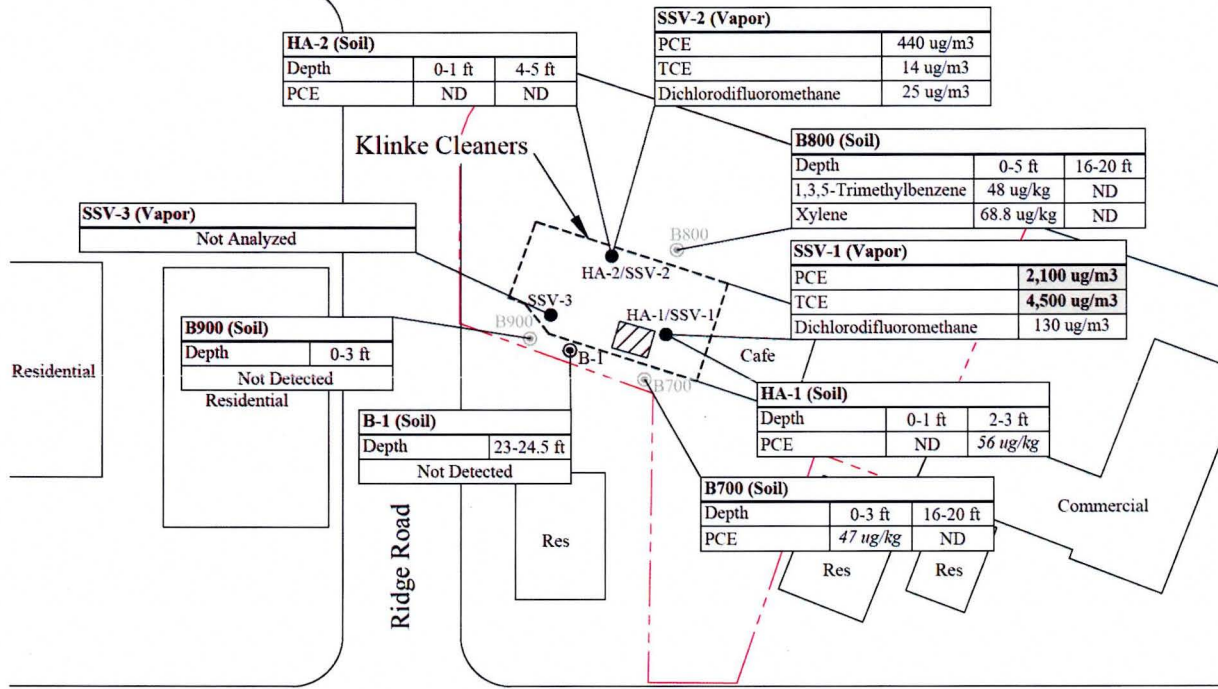
ENVIRO *forensics*
 ENVIRONMENTAL FORENSIC INVESTIGATIONS, INC.
 601 N Capitol Ave., Ste 210 • Indianapolis, IN 46204
 EnviroForensics.com

Date: 07/03/12
 Designed: NJ
 Drawn: NJ
 Checked: WF
 DWG file:

SITE LOCATION MAP
 Klinke Cleaners
 2875 University Avenue
 Madison, Wisconsin

Figure
 1
 Project
 6272

University Avenue



HA-2 (Soil)		
Depth	0-1 ft	4-5 ft
PCE	ND	ND

SSV-2 (Vapor)	
PCE	440 ug/m3
TCE	14 ug/m3
Dichlorodifluoromethane	25 ug/m3

B800 (Soil)		
Depth	0-5 ft	16-20 ft
1,3,5-Trimethylbenzene	48 ug/kg	ND
Xylene	68.8 ug/kg	ND

SSV-1 (Vapor)	
PCE	2,100 ug/m3
TCE	4,500 ug/m3
Dichlorodifluoromethane	130 ug/m3

HA-1 (Soil)		
Depth	0-1 ft	2-3 ft
PCE	ND	56 ug/kg

B700 (Soil)		
Depth	0-3 ft	16-20 ft
PCE	47 ug/kg	ND

B900 (Soil)	
Depth	0-3 ft
Not Detected	

B-1 (Soil)	
Depth	23-24.5 ft
Not Detected	

SSV-3 (Vapor)	
Not Analyzed	

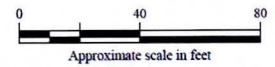
Detected Compound in Sub-Slab Vapor Samples	
Analytes (ug/m3)	Vapor Risk Screening Level
PCE	1,800
TCE	88
Benzene	160
Ethylbenzene	490
Toluene	220,000
Trichlorofluoromethane	31,000
Xylenes, Total	4,400
Dichlorodifluoromethane	4,400

1. Shaded and Bolded values exceed the Vapor Risk Screening Levels

Detected Compounds in Soil Samples			
Analytes (ug/kg)	Industrial RCL ₁	Non-Industrial RCL ₁	Soil to Groundwater RCL ₁
PCE	153,000	30,700	4.5
1,3,5-Trimethylbenzene	182,000	182,000	1,380
Xylene	258,000	258,000	19,700

1. Shaded and Bolded values indicate an exceedance of the Industrial Residual Contaminant Level
2. Bolded values exceed Residential Residual Contaminant Level
3. Italicized values exceed Soil to groundwater Residual Contaminant Level

- Legend**
- Property boundary
 - Site building
 - Approximate location of dry cleaning machine
 - SSV-1 ● Sub-Slab boring location
 - HA-1 ● Hand Auger location
 - B-1 ⊙ Direct-push boring location
 - B700 ⊙ Previous consultants boring location



- Notes:**
1. ND = No VOCs detected
 2. Res = Residential building
 3. PCE = Tetrachloroethylene
 4. TCE = Trichloroethylene
 5. ug/m³ = Micrograms per cubic meter of air
 6. ug/kg = Micrograms per kilogram
 7. 1 = Residual Contaminant Levels are determined using the EPA Residual Screening Levels (RSL) calculator according to procedures described in WDNR Publication RR-890

SITE LAYOUT MAP WITH DATA COLLECTION LOCATIONS AND ANALYTICAL DETECTIONS
 Klinke Cleaners
 2875 University Avenue
 Madison, Wisconsin

Date:	12/5/12
Designed:	MMM
Drawn:	MMM
Checked:	WF
DWG file:	59103-10

ENVIRONMENTAL FORENSIC INVESTIGATIONS, INC.
 602 N. Capitol Ave., Ste 210 • Indianapolis, IN 46204
 EnviroForensics.com

Figure	2
Project	6272



602 N. Capitol Avenue, Ste. 210,
 Indianapolis, IN 46204
 T:317-972-7870 F: 317-972-7875

PROJECT NAME	<u>Klinke</u>	SAMPLE DATE	<u>9/20/2012</u>
LOCATION/ADDRESS	<u>2875 University Ave</u>	SAMPLE ID	<u>6272-SSV-1</u>
PROJECT NO.	<u>6272</u>	SAMPLE TIME	<u>9:24</u>
CLIENT/CONTACT	<u>Rich Klinke</u>	CANISTER ID	<u>LA 7109</u>
DATA COLLECTION: START DATE	<u>9/20/2012</u>	END DATE	<u>9/20/2012</u>

Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer Hg	Relative Humidity %
<u>9:19</u>	<u>-29.5</u>	<u>Interior Locations</u>				
<u>9:24</u>	<u>-5</u>					

Helium Leak Test		Negative Pressure Test	
Date/Time performed:	<u>9/20/2012</u> <u>9:14</u>	Date/Time performed:	<u>9/20/2012</u> <u>9:16</u>
Background He concentration (ppm):	<u>0</u>	Negative pressure of at least -15 in. Hg induced on sampling train?	
Shroud He concentration (%):	<u>41.2</u>	(circle one):	<u>yes</u> no
Sub-slab vapor/soil-gas He concentration (post helium insertion):	<u>0</u>	Did pressure hold?	<u>yes</u> no
Helium Leak Test Passed:	<u>yes</u> no		

Notes:

602 N. Capitol Avenue, Ste. 210,
 Indianapolis, IN 46204
 T:317-972-7870 F: 317-972-7875

PROJECT NAME	<u>Klinke</u>	SAMPLE DATE	<u>9/20/2012</u>
LOCATION/ADDRESS	<u>2875 University Ave</u>	SAMPLE ID	<u>4272-SSV-2</u>
PROJECT NO.	<u>6272</u>	SAMPLE TIME	<u>9:45</u>
CLIENT/CONTACT	<u>Rich Klinke</u>	CANISTER ID	<u>LB192</u>
DATA COLLECTION: START DATE	<u>9/20/2012</u>	END DATE	<u>9/20/2012</u>

Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer Hg	Relative Humidity %
<u>9:40</u>	<u>-27.5</u>	<u>Interior</u>	<u>Sample</u>			
<u>9:45</u>	<u>-8.5</u>					

Helium Leak Test		Negative Pressure Test	
Date/Time performed:	<u>9/20/2012 9:33</u>	Date/Time performed:	<u>9/20/2012 9:34</u>
Background He concentration (ppm):	<u>0</u>	Negative pressure of at least -15 in. Hg induced on sampling train?	
Shroud He concentration (%):	<u>41.9</u>	(circle one):	<u>yes</u> no
Sub-slab vapor/soil-gas He concentration (post helium insertion):	<u>0</u>	Did pressure hold?	<u>yes</u> no
Helium Leak Test Passed:	<u>yes</u> no		

Notes:

ATTACHMENT B

Soil Boring Logs

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page 1 of 1

Facility/Project Name Klinke-University-6272		License/Permit/Monitoring Number	Boring Number 6272-B-1
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: Firm: On Site Environmental		Date Drilling Started 9/20/2012 m m d d y y y y	Date Drilling Completed 9/20/2012 m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method Direct Push
Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter 2 inches
Local Grid Origin (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E		Lat 43° 6' 50.07"	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
1/4 of 1/4 of Section . T N, R		Long 89° 21' 48.41"	Feet Feet
Facility ID	County DANE	County Code 13	Civil Town/City/ or Village Madison

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
23-24 5			4 8 12 16 20 24	0.0 - 24.5 SandStone Refusal at 24.5'	SS									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Enviroforensics
-----------	-------------------------

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater Waste Management
Remediation/Revelpment Other

Page 1 of 1

Facility/Project Name Klinke-University-6272		License/Permit/Monitoring Number		Boring Number 6272-HA-2	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: Firm: On Site Environmental		Date Drilling Started 9/20/2012 m m d d y y y y	Date Drilling Completed 9/20/2012 m m d d y y y y	Drilling Method Hand Auger	
WI Unique Well No.	DNR Well ID No.	Well Name HA-2	Final Static Water Level 22 Feet MSL	Surface Elevation 867 Feet MSL	Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E			Lat 43° 6' 50.07"	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of 1/4 of Section , T N, R			Long 89° 21' 48.41"		
Facility ID	County DANE	County Code 13	Civil Town/City/ or Village Madison		

Sample Number and Type	Length Int. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
(0-1)			0.0 - 0.0	Concrete floorbase				0.0						
			0.0 - 0.4	FILL-Gravel and Sand FILL	FILL			0.0						
(4-5)			0.4 - 0.75	SAND-Brown SAND, fine grained, trace fine Gravel, fine grained, loose, dry.	SP			0.0						
			2.75 - 3.5	SAND-Brown SAND, coarse grained through fine grained, some Gravel, fine grained, loose, dry.	SW			0.0						
			3.5 - 5.0	SAND-Brown SAND, fine grained, trace fine Gravel, fine grained, loose, dry.	SP			0.0						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm Enviroforensics
-----------	-------------------------

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Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Facility/Project Name Klinke-University-6272		License/Permit/Monitoring Number		Boring Number 6272-HA-1	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: Firm: On Site Environmental		Date Drilling Started 9/20/2012 m m d d y y y y	Date Drilling Completed 9/20/2012 m m d d y y y y	Drilling Method Hand Auger	
WI Unique Well No.	DNR Well ID No.	Well Name HA-1	Final Static Water Level 22 Feet MSL	Surface Elevation 867 Feet MSL	Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/> State Plane N, E		Lat 43° 6' 50.07"		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
1/4 of 1/4 of Section . T N, R		Long 89° 21' 48.41"			
Facility ID	County DANE	County Code 13	Civil Town/City/ or Village Madison		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
(0-1)			0.0 - 0.0	Concrete floorbase				0.1						
			0.0 - 0.4	FILL-Gravel and Sand FILL	FILL			0.0						
(2-3)			0.4 - 0.75	SAND-Brown SAND, fine through coarse grained, some Gravel, fine grained, loose, slightly moist.	SW			0.0						
			0.75 - 2.0	SAND-Brown Sandy GRAVEL, medium grained through fine grained, loose, slightly moist-dry.	GW			0.0						
			2.0 - 3.0	Rock Refusal @3'										
			3.0 - 3.5											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Enviroforensics

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ATTACHMENT C

Laboratory Analytical Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-50488-1
Client Project/Site: Klinke - University

For:
Environmental Forensic Investigation Inc
200 S. Executive Drive, Ste 101
Brookfield, Wisconsin 53045

Attn: Mr. Wayne Fassbender



Authorized for release by:
10/4/2012 4:52:44 PM

Sandie Fredrick
Project Manager I
sandie.fredrick@testamericainc.com

LINKS

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results through
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The
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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Chain of Custody	28
Receipt Checklists	29

Case Narrative

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Job ID: 500-50488-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-50488-1

Comments

No additional comments.

Receipt

The samples were received on 9/25/2012 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

GC/MS VOA

Method(s) 5035: Sample vials A-(1-6) have < 8 grams in 10 ml MeOH

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

Detection Summary

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Client Sample ID: 6272-B-1(23'-24.5')

Lab Sample ID: 500-50488-1

No Detections

Client Sample ID: 6272-HA-1(0'-1')

Lab Sample ID: 500-50488-2

No Detections

Client Sample ID: 6272-HA-1(2.-3)

Lab Sample ID: 500-50488-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	56	J	100	17	ug/Kg	50	✪	8260B	Total/NA

Client Sample ID: 6272-HA-2(0-1)

Lab Sample ID: 500-50488-4

No Detections

Client Sample ID: 6272-HA-2(4-5)

Lab Sample ID: 500-50488-5

No Detections

Client Sample ID: 6272-IDM

Lab Sample ID: 500-50488-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	660		27	13	ug/Kg	50	✪	8260B	Total/NA

Method Summary

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-50488-1	6272-B-1(23'-24.5')	Solid	09/20/12 10:25	09/25/12 09:50
500-50488-2	6272-HA-1(0'-1')	Solid	09/20/12 11:40	09/25/12 09:50
500-50488-3	6272-HA-1(2--3)	Solid	09/20/12 11:40	09/25/12 09:50
500-50488-4	6272-HA-2(0-1)	Solid	09/20/12 12:10	09/25/12 09:50
500-50488-5	6272-HA-2(4-5)	Solid	09/20/12 12:10	09/25/12 09:50
500-50488-6	6272-IDM	Solid	09/20/12 00:00	09/25/12 09:50

Client Sample Results

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Client Sample ID: 6272-B-1(23'-24.5')

Lab Sample ID: 500-50488-1

Date Collected: 09/20/12 10:25

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 98.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.5		25	7.5	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Bromobenzene	<43		200	43	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Bromochloromethane	<38		200	38	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Bromodichloromethane	<34		200	34	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Bromoform	<45		200	45	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Bromomethane	<69		200	69	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
n-Butylbenzene	<13		100	13	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
sec-Butylbenzene	<16		100	16	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
tert-Butylbenzene	<14		100	14	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Carbon tetrachloride	<26		100	26	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Chlorobenzene	<15		100	15	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Dibromochloromethane	<35		200	35	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Chloroethane	<44		200	44	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Chloroform	<21		100	21	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Chloromethane	<47		200	47	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
2-Chlorotoluene	<21		100	21	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
4-Chlorotoluene	<20		100	20	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,2-Dibromo-3-Chloropropane	<89		200	89	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,2-Dibromoethane	<32		200	32	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Dibromomethane	<49		200	49	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,2-Dichlorobenzene	<21		200	21	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,3-Dichlorobenzene	<26		200	26	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,4-Dichlorobenzene	<18		200	18	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Dichlorodifluoromethane	<52		200	52	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,1-Dichloroethane	<19		100	19	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,2-Dichloroethane	<29		100	29	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,1-Dichloroethene	<31		100	31	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
cis-1,2-Dichloroethene	<13		100	13	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
trans-1,2-Dichloroethene	<25		100	25	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,2-Dichloropropane	<20		100	20	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,3-Dichloropropane	<14		100	14	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
2,2-Dichloropropane	<32		100	32	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,1-Dichloropropene	<35		100	35	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
cis-1,3-Dichloropropene	<18		100	18	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
trans-1,3-Dichloropropene	<21		100	21	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Isopropyl ether	<15		200	15	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Ethylbenzene	<13		25	13	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Hexachlorobutadiene	<35		200	35	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Isopropylbenzene	<26		200	26	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
p-Isopropyltoluene	<19		200	19	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Methylene Chloride	<69		510	69	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Methyl tert-butyl ether	<44		200	44	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Naphthalene	<50		200	50	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
N-Propylbenzene	<18		200	18	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Styrene	<10		100	10	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,1,1,2-Tetrachloroethane	<35		200	35	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,1,1,2,2-Tetrachloroethane	<24		100	24	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Tetrachloroethene	<17		100	17	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
Toluene	<12		25	12	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,2,3-Trichlorobenzene	<36		200	36	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50
1,2,4-Trichlorobenzene	<38		200	38	ug/Kg	*	09/20/12 10:25	10/02/12 00:43	50

Client Sample Results

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Client Sample ID: 6272-B-1(23'-24.5')

Lab Sample ID: 500-50488-1

Date Collected: 09/20/12 10:25

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 98.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<20		100	20	ug/Kg	☼	09/20/12 10:25	10/02/12 00:43	50
1,1,2-Trichloroethane	<28		100	28	ug/Kg	☼	09/20/12 10:25	10/02/12 00:43	50
Trichloroethene	<19		51	19	ug/Kg	☼	09/20/12 10:25	10/02/12 00:43	50
Trichlorofluoromethane	<42		200	42	ug/Kg	☼	09/20/12 10:25	10/02/12 00:43	50
1,2,3-Trichloropropane	<58		200	58	ug/Kg	☼	09/20/12 10:25	10/02/12 00:43	50
1,2,4-Trimethylbenzene	<21		200	21	ug/Kg	☼	09/20/12 10:25	10/02/12 00:43	50
1,3,5-Trimethylbenzene	<21		200	21	ug/Kg	☼	09/20/12 10:25	10/02/12 00:43	50
Vinyl chloride	<11		25	11	ug/Kg	☼	09/20/12 10:25	10/02/12 00:43	50
Xylenes, Total	<7.0		51	7.0	ug/Kg	☼	09/20/12 10:25	10/02/12 00:43	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 131				09/20/12 10:25	10/02/12 00:43	50
Toluene-d8 (Surr)	99		80 - 120				09/20/12 10:25	10/02/12 00:43	50
4-Bromofluorobenzene (Surr)	94		79 - 120				09/20/12 10:25	10/02/12 00:43	50
Dibromofluoromethane	100		74 - 123				09/20/12 10:25	10/02/12 00:43	50

Client Sample ID: 6272-HA-1(0'-1')

Lab Sample ID: 500-50488-2

Date Collected: 09/20/12 11:40

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 95.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		35	10	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Bromobenzene	<60		280	60	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Bromochloromethane	<53		280	53	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Bromodichloromethane	<48		280	48	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Bromoform	<62		280	62	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Bromomethane	<96		280	96	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
n-Butylbenzene	<18		140	18	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
sec-Butylbenzene	<22		140	22	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
tert-Butylbenzene	<19		140	19	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Carbon tetrachloride	<36		140	36	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Chlorobenzene	<20		140	20	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Dibromochloromethane	<49		280	49	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Chloroethane	<61		280	61	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Chloroform	<29		140	29	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Chloromethane	<65		280	65	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
2-Chlorotoluene	<29		140	29	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
4-Chlorotoluene	<28		140	28	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,2-Dibromo-3-Chloropropane	<120		280	120	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,2-Dibromoethane	<44		280	44	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Dibromomethane	<68		280	68	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,2-Dichlorobenzene	<29		280	29	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,3-Dichlorobenzene	<36		280	36	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,4-Dichlorobenzene	<24		280	24	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Dichlorodifluoromethane	<72		280	72	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,1-Dichloroethane	<26		140	26	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,2-Dichloroethane	<40		140	40	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,1-Dichloroethene	<43		140	43	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
cis-1,2-Dichloroethene	<17		140	17	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
trans-1,2-Dichloroethene	<35		140	35	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50

Client Sample Results

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Client Sample ID: 6272-HA-1(0'-1')

Lab Sample ID: 500-50488-2

Date Collected: 09/20/12 11:40

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 95.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<28		140	28	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,3-Dichloropropane	<19		140	19	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
2,2-Dichloropropane	<44		140	44	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,1-Dichloropropene	<48		140	48	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
cis-1,3-Dichloropropene	<25		140	25	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
trans-1,3-Dichloropropene	<29		140	29	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Isopropyl ether	<21		280	21	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Ethylbenzene	<18		35	18	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Hexachlorobutadiene	<49		280	49	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Isopropylbenzene	<35		280	35	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
p-Isopropyltoluene	<26		280	26	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Methylene Chloride	<96		700	96	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Methyl tert-butyl ether	<61		280	61	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Naphthalene	<70		280	70	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
N-Propylbenzene	<25		280	25	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Styrene	<14		140	14	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,1,1,2-Tetrachloroethane	<49		280	49	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,1,2,2-Tetrachloroethane	<33		140	33	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Tetrachloroethene	<24		140	24	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Toluene	<16		35	16	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,2,3-Trichlorobenzene	<49		280	49	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,2,4-Trichlorobenzene	<53		280	53	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,1,1-Trichloroethane	<28		140	28	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,1,2-Trichloroethane	<39		140	39	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Trichloroethene	<26		70	26	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Trichlorofluoromethane	<58		280	58	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,2,3-Trichloropropane	<81		280	81	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,2,4-Trimethylbenzene	<30		280	30	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
1,3,5-Trimethylbenzene	<29		280	29	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Vinyl chloride	<15		35	15	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50
Xylenes, Total	<9.6		70	9.6	ug/Kg	☼	09/20/12 11:40	10/02/12 01:08	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 131	09/20/12 11:40	10/02/12 01:08	50
Toluene-d8 (Surr)	99		80 - 120	09/20/12 11:40	10/02/12 01:08	50
4-Bromofluorobenzene (Surr)	94		79 - 120	09/20/12 11:40	10/02/12 01:08	50
Dibromofluoromethane	100		74 - 123	09/20/12 11:40	10/02/12 01:08	50

Client Sample ID: 6272-HA-1(2.-3)

Lab Sample ID: 500-50488-3

Date Collected: 09/20/12 11:40

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 95.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.5		25	7.5	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Bromobenzene	<43		200	43	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Bromochloromethane	<38		200	38	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Bromodichloromethane	<34		200	34	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Bromoform	<44		200	44	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Bromomethane	<69		200	69	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
n-Butylbenzene	<13		100	13	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50

Client Sample Results

Client: Environmental Forensic Investigation Inc
 Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Client Sample ID: 6272-HA-1(2.-3)

Lab Sample ID: 500-50488-3

Date Collected: 09/20/12 11:40

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 95.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<16		100	16	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
tert-Butylbenzene	<14		100	14	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Carbon tetrachloride	<26		100	26	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Chlorobenzene	<14		100	14	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Dibromochloromethane	<35		200	35	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Chloroethane	<44		200	44	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Chloroform	<21		100	21	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Chloromethane	<47		200	47	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
2-Chlorotoluene	<21		100	21	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
4-Chlorotoluene	<20		100	20	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,2-Dibromo-3-Chloropropane	<88		200	88	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,2-Dibromoethane	<32		200	32	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Dibromomethane	<48		200	48	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,2-Dichlorobenzene	<21		200	21	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,3-Dichlorobenzene	<26		200	26	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,4-Dichlorobenzene	<18		200	18	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Dichlorodifluoromethane	<52		200	52	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,1-Dichloroethane	<19		100	19	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,2-Dichloroethane	<29		100	29	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,1-Dichloroethene	<31		100	31	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
cis-1,2-Dichloroethene	<12		100	12	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
trans-1,2-Dichloroethene	<25		100	25	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,2-Dichloropropane	<20		100	20	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,3-Dichloropropane	<14		100	14	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
2,2-Dichloropropane	<32		100	32	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,1-Dichloropropene	<35		100	35	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
cis-1,3-Dichloropropene	<18		100	18	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
trans-1,3-Dichloropropene	<21		100	21	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Isopropyl ether	<15		200	15	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Ethylbenzene	<13		25	13	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Hexachlorobutadiene	<35		200	35	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Isopropylbenzene	<25		200	25	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
p-Isopropyltoluene	<19		200	19	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Methylene Chloride	<69		500	69	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Methyl tert-butyl ether	<43		200	43	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Naphthalene	<50		200	50	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
N-Propylbenzene	<18		200	18	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Styrene	<10		100	10	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,1,1,2-Tetrachloroethane	<35		200	35	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,1,2,2-Tetrachloroethane	<24		100	24	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Tetrachloroethene	56	J	100	17	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Toluene	<12		25	12	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,2,3-Trichlorobenzene	<35		200	35	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,2,4-Trichlorobenzene	<38		200	38	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,1,1-Trichloroethane	<20		100	20	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,1,2-Trichloroethane	<28		100	28	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Trichloroethene	<19		50	19	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Trichlorofluoromethane	<42		200	42	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,2,3-Trichloropropane	<58		200	58	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,2,4-Trimethylbenzene	<21		200	21	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
1,3,5-Trimethylbenzene	<21		200	21	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50

Client Sample Results

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Client Sample ID: 6272-HA-1(2.-3)

Lab Sample ID: 500-50488-3

Date Collected: 09/20/12 11:40

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 95.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<10		25	10	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Xylenes, Total	<6.9		50	6.9	ug/Kg	☼	09/20/12 11:40	10/02/12 01:32	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 131				09/20/12 11:40	10/02/12 01:32	50
Toluene-d8 (Surr)	99		80 - 120				09/20/12 11:40	10/02/12 01:32	50
4-Bromofluorobenzene (Surr)	93		79 - 120				09/20/12 11:40	10/02/12 01:32	50
Dibromofluoromethane	98		74 - 123				09/20/12 11:40	10/02/12 01:32	50

Client Sample ID: 6272-HA-2(0-1)

Lab Sample ID: 500-50488-4

Date Collected: 09/20/12 12:10

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 91.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		37	11	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Bromobenzene	<63		300	63	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Bromochloromethane	<56		300	56	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Bromodichloromethane	<50		300	50	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Bromoform	<65		300	65	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Bromomethane	<100		300	100	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
n-Butylbenzene	<19		150	19	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
sec-Butylbenzene	<23		150	23	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
tert-Butylbenzene	<20		150	20	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Carbon tetrachloride	<38		150	38	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Chlorobenzene	<21		150	21	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Dibromochloromethane	<51		300	51	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Chloroethane	<64		300	64	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Chloroform	<30		150	30	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Chloromethane	<68		300	68	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
2-Chlorotoluene	<31		150	31	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
4-Chlorotoluene	<29		150	29	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,2-Dibromo-3-Chloropropane	<130		300	130	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,2-Dibromoethane	<46		300	46	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Dibromomethane	<71		300	71	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,2-Dichlorobenzene	<30		300	30	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,3-Dichlorobenzene	<38		300	38	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,4-Dichlorobenzene	<26		300	26	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Dichlorodifluoromethane	<76		300	76	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,1-Dichloroethane	<27		150	27	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,2-Dichloroethane	<42		150	42	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,1-Dichloroethene	<45		150	45	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
cis-1,2-Dichloroethene	<18		150	18	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
trans-1,2-Dichloroethene	<37		150	37	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,2-Dichloropropane	<29		150	29	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,3-Dichloropropane	<20		150	20	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
2,2-Dichloropropane	<47		150	47	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,1-Dichloropropene	<51		150	51	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
cis-1,3-Dichloropropene	<26		150	26	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
trans-1,3-Dichloropropene	<31		150	31	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Isopropyl ether	<22		300	22	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50

Client Sample Results

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Client Sample ID: 6272-HA-2(0-1)

Lab Sample ID: 500-50488-4

Date Collected: 09/20/12 12:10

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 91.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<19		37	19	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Hexachlorobutadiene	<51		300	51	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Isopropylbenzene	<37		300	37	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
p-Isopropyltoluene	<27		300	27	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Methylene Chloride	<100		740	100	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Methyl tert-butyl ether	<63		300	63	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Naphthalene	<73		300	73	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
N-Propylbenzene	<26		300	26	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Styrene	<15		150	15	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,1,1,2-Tetrachloroethane	<51		300	51	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,1,2,2-Tetrachloroethane	<35		150	35	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Tetrachloroethene	<25		150	25	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Toluene	<17		37	17	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,2,3-Trichlorobenzene	<52		300	52	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,2,4-Trichlorobenzene	<56		300	56	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,1,1-Trichloroethane	<30		150	30	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,1,2-Trichloroethane	<41		150	41	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Trichloroethene	<27		74	27	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Trichlorofluoromethane	<61		300	61	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,2,3-Trichloropropane	<85		300	85	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,2,4-Trimethylbenzene	<31		300	31	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
1,3,5-Trimethylbenzene	<30		300	30	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Vinyl chloride	<15		37	15	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50
Xylenes, Total	<10		74	10	ug/Kg	☼	09/20/12 12:10	10/02/12 01:56	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 131	09/20/12 12:10	10/02/12 01:56	50
Toluene-d8 (Surr)	99		80 - 120	09/20/12 12:10	10/02/12 01:56	50
4-Bromofluorobenzene (Surr)	95		79 - 120	09/20/12 12:10	10/02/12 01:56	50
Dibromofluoromethane	103		74 - 123	09/20/12 12:10	10/02/12 01:56	50

Client Sample ID: 6272-HA-2(4-5)

Lab Sample ID: 500-50488-5

Date Collected: 09/20/12 12:10

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.0		24	7.0	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Bromobenzene	<40		190	40	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Bromochloromethane	<36		190	36	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Bromodichloromethane	<32		190	32	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Bromoform	<42		190	42	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Bromomethane	<65		190	65	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
n-Butylbenzene	<12		95	12	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
sec-Butylbenzene	<15		95	15	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
tert-Butylbenzene	<13		95	13	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Carbon tetrachloride	<24		95	24	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Chlorobenzene	<14		95	14	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Dibromochloromethane	<33		190	33	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Chloroethane	<41		190	41	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Chloroform	<19		95	19	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50

Client Sample Results

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Client Sample ID: 6272-HA-2(4-5)

Lab Sample ID: 500-50488-5

Date Collected: 09/20/12 12:10

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<44		190	44	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
2-Chlorotoluene	<20		95	20	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
4-Chlorotoluene	<19		95	19	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,2-Dibromo-3-Chloropropane	<83		190	83	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,2-Dibromoethane	<30		190	30	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Dibromomethane	<46		190	46	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,2-Dichlorobenzene	<19		190	19	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,3-Dichlorobenzene	<24		190	24	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,4-Dichlorobenzene	<17		190	17	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Dichlorodifluoromethane	<49		190	49	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,1-Dichloroethane	<18		95	18	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,2-Dichloroethane	<27		95	27	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,1-Dichloroethene	<29		95	29	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
cis-1,2-Dichloroethene	<12		95	12	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
trans-1,2-Dichloroethene	<24		95	24	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,2-Dichloropropane	<19		95	19	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,3-Dichloropropane	<13		95	13	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
2,2-Dichloropropane	<30		95	30	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,1-Dichloropropene	<33		95	33	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
cis-1,3-Dichloropropene	<17		95	17	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
trans-1,3-Dichloropropene	<20		95	20	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Isopropyl ether	<14		190	14	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Ethylbenzene	<12		24	12	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Hexachlorobutadiene	<33		190	33	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Isopropylbenzene	<24		190	24	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
p-Isopropyltoluene	<18		190	18	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Methylene Chloride	<65		480	65	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Methyl tert-butyl ether	<41		190	41	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Naphthalene	<47		190	47	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
N-Propylbenzene	<17		190	17	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Styrene	<9.4		95	9.4	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,1,1,2-Tetrachloroethane	<33		190	33	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,1,2,2-Tetrachloroethane	<22		95	22	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Tetrachloroethene	<16		95	16	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Toluene	<11		24	11	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,2,3-Trichlorobenzene	<33		190	33	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,2,4-Trichlorobenzene	<36		190	36	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,1,1-Trichloroethane	<19		95	19	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,1,2-Trichloroethane	<27		95	27	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Trichloroethene	<18		48	18	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Trichlorofluoromethane	<39		190	39	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,2,3-Trichloropropane	<55		190	55	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,2,4-Trimethylbenzene	<20		190	20	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
1,3,5-Trimethylbenzene	<20		190	20	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Vinyl chloride	<9.9		24	9.9	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Xylenes, Total	<6.5		48	6.5	ug/Kg	☼	09/20/12 12:10	10/02/12 02:20	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 131				09/20/12 12:10	10/02/12 02:20	50
Toluene-d8 (Surr)	100		80 - 120				09/20/12 12:10	10/02/12 02:20	50
4-Bromofluorobenzene (Surr)	94		79 - 120				09/20/12 12:10	10/02/12 02:20	50

Client Sample Results

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Client Sample ID: 6272-HA-2(4-5)

Date Collected: 09/20/12 12:10

Date Received: 09/25/12 09:50

Lab Sample ID: 500-50488-5

Matrix: Solid

Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	96		74 - 123	09/20/12 12:10	10/02/12 02:20	50

Client Sample ID: 6272-IDM

Date Collected: 09/20/12 00:00

Date Received: 09/25/12 09:50

Lab Sample ID: 500-50488-6

Matrix: Solid

Percent Solids: 88.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.1		27	8.1	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Bromobenzene	<47		220	47	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Bromochloromethane	<41		220	41	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Bromodichloromethane	<37		220	37	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Bromoform	<48		220	48	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Bromomethane	<75		220	75	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
n-Butylbenzene	<14		110	14	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
sec-Butylbenzene	<17		110	17	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
tert-Butylbenzene	<15		110	15	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Carbon tetrachloride	<28		110	28	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Chlorobenzene	<16		110	16	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Dibromochloromethane	<38		220	38	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Chloroethane	<48		220	48	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Chloroform	<22		110	22	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Chloromethane	<51		220	51	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
2-Chlorotoluene	<23		110	23	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
4-Chlorotoluene	<22		110	22	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
1,2-Dibromo-3-Chloropropane	<95		220	95	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
1,2-Dibromoethane	<34		220	34	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Dibromomethane	<53		220	53	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
1,2-Dichlorobenzene	<22		220	22	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
1,3-Dichlorobenzene	<28		220	28	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
1,4-Dichlorobenzene	<19		220	19	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Dichlorodifluoromethane	<56		220	56	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
1,1-Dichloroethane	<20		110	20	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
1,2-Dichloroethane	<31		110	31	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
1,1-Dichloroethene	<34		110	34	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
cis-1,2-Dichloroethene	<13		110	13	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
trans-1,2-Dichloroethene	<27		110	27	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
1,2-Dichloropropane	<21		110	21	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
1,3-Dichloropropane	<15		110	15	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
2,2-Dichloropropane	<35		110	35	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
1,1-Dichloropropene	<38		110	38	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
cis-1,3-Dichloropropene	<19		110	19	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
trans-1,3-Dichloropropene	<23		110	23	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Isopropyl ether	<16		220	16	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Ethylbenzene	<14		27	14	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Hexachlorobutadiene	<38		220	38	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Isopropylbenzene	<27		220	27	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
p-Isopropyltoluene	<20		220	20	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Methylene Chloride	<75		550	75	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Methyl tert-butyl ether	<47		220	47	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50
Naphthalene	<54		220	54	ug/Kg	*	09/20/12 00:00	10/02/12 02:44	50

Client Sample Results

Client: Environmental Forensic Investigation Inc
 Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Client Sample ID: 6272-IDM

Lab Sample ID: 500-50488-6

Date Collected: 09/20/12 00:00

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 88.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<19		220	19	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
Styrene	<11		110	11	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
1,1,1,2-Tetrachloroethane	<38		220	38	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
1,1,2,2-Tetrachloroethane	<26		110	26	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
Tetrachloroethene	<18		110	18	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
Toluene	660		27	13	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
1,2,3-Trichlorobenzene	<38		220	38	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
1,2,4-Trichlorobenzene	<41		220	41	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
1,1,1-Trichloroethane	<22		110	22	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
1,1,2-Trichloroethane	<31		110	31	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
Trichloroethene	<20		55	20	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
Trichlorofluoromethane	<45		220	45	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
1,2,3-Trichloropropane	<63		220	63	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
1,2,4-Trimethylbenzene	<23		220	23	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
1,3,5-Trimethylbenzene	<23		220	23	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
Vinyl chloride	<11		27	11	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
Xylenes, Total	<7.5		55	7.5	ug/Kg	⊛	09/20/12 00:00	10/02/12 02:44	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 131				09/20/12 00:00	10/02/12 02:44	50
Toluene-d8 (Surr)	100		80 - 120				09/20/12 00:00	10/02/12 02:44	50
4-Bromofluorobenzene (Surr)	94		79 - 120				09/20/12 00:00	10/02/12 02:44	50
Dibromofluoromethane	98		74 - 123				09/20/12 00:00	10/02/12 02:44	50

Definitions/Glossary

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Environmental Forensic Investigation Inc
 Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

GC/MS VOA

Prep Batch: 163783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-50488-1	6272-B-1(23'-24.5')	Total/NA	Solid	5035	
500-50488-2	6272-HA-1(0'-1')	Total/NA	Solid	5035	
500-50488-3	6272-HA-1(2.-3)	Total/NA	Solid	5035	
500-50488-4	6272-HA-2(0-1)	Total/NA	Solid	5035	
500-50488-5	6272-HA-2(4-5)	Total/NA	Solid	5035	
500-50488-6	6272-IDM	Total/NA	Solid	5035	
LB3 500-163783/7-A LB3	Method Blank	Total/NA	Solid	5035	
LCS 500-163783/8-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 164308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-50488-1	6272-B-1(23'-24.5')	Total/NA	Solid	8260B	163783
500-50488-2	6272-HA-1(0'-1')	Total/NA	Solid	8260B	163783
500-50488-3	6272-HA-1(2.-3)	Total/NA	Solid	8260B	163783
500-50488-4	6272-HA-2(0-1)	Total/NA	Solid	8260B	163783
500-50488-5	6272-HA-2(4-5)	Total/NA	Solid	8260B	163783
500-50488-6	6272-IDM	Total/NA	Solid	8260B	163783
LB3 500-163783/7-A LB3	Method Blank	Total/NA	Solid	8260B	163783
LCS 500-163783/8-A	Lab Control Sample	Total/NA	Solid	8260B	163783
LCS 500-164308/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-164308/6	Method Blank	Total/NA	Solid	8260B	

General Chemistry

Analysis Batch: 163704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-50488-1	6272-B-1(23'-24.5')	Total/NA	Solid	Moisture	
500-50488-2	6272-HA-1(0'-1')	Total/NA	Solid	Moisture	
500-50488-3	6272-HA-1(2.-3)	Total/NA	Solid	Moisture	
500-50488-4	6272-HA-2(0-1)	Total/NA	Solid	Moisture	
500-50488-5	6272-HA-2(4-5)	Total/NA	Solid	Moisture	
500-50488-6	6272-IDM	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE	TOL	BFB	DBFM
		(75-131)	(80-120)	(79-120)	(74-123)
500-50488-1	6272-B-1(23'-24.5')	101	99	94	100
500-50488-2	6272-HA-1(0'-1')	103	99	94	100
500-50488-3	6272-HA-1(2.-3)	102	99	93	98
500-50488-4	6272-HA-2(0-1)	106	99	95	103
500-50488-5	6272-HA-2(4-5)	104	100	94	96
500-50488-6	6272-IDM	105	100	94	98
LB3 500-163783/7-A LB3	Method Blank	104	99	93	101
LCS 500-163783/8-A	Lab Control Sample	101	103	101	101
LCS 500-164308/4	Lab Control Sample	101	101	100	98
MB 500-164308/6	Method Blank	102	100	95	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

QC Sample Results

Client: Environmental Forensic Investigation Inc
 Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-163783/7-A LB3

Matrix: Solid

Analysis Batch: 164308

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 163783

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<3.7		13	3.7	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Bromobenzene	<21		100	21	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Bromochloromethane	<19		100	19	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Bromodichloromethane	<17		100	17	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Bromoform	<22		100	22	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Bromomethane	<34		100	34	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Carbon tetrachloride	<13		50	13	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Dibromochloromethane	<17		100	17	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Chloroethane	<22		100	22	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Chloroform	<10		50	10	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Chloromethane	<23		100	23	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
2-Chlorotoluene	<10		50	10	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,2-Dibromoethane	<16		100	16	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Dibromomethane	<24		100	24	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,2-Dichloroethane	<14		50	14	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,1-Dichloroethene	<15		50	15	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
2,2-Dichloropropane	<16		50	16	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,1-Dichloropropene	<17		50	17	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Hexachlorobutadiene	<17		100	17	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Isopropylbenzene	<13		100	13	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Methylene Chloride	<34		250	34	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Naphthalene	<25		100	25	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Styrene	<4.9		50	4.9	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Toluene	<5.8		13	5.8	ug/Kg		09/26/12 03:30	10/02/12 05:34	50

QC Sample Results

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-163783/7-A LB3

Matrix: Solid

Analysis Batch: 164308

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 163783

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Trichloroethene	<9.3		25	9.3	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Trichlorofluoromethane	<21		100	21	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		09/26/12 03:30	10/02/12 05:34	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		09/26/12 03:30	10/02/12 05:34	50

Surrogate	LB3	LB3	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	104		75 - 131	09/26/12 03:30	10/02/12 05:34	50
Toluene-d8 (Surr)	99		80 - 120	09/26/12 03:30	10/02/12 05:34	50
4-Bromofluorobenzene (Surr)	93		79 - 120	09/26/12 03:30	10/02/12 05:34	50
Dibromofluoromethane	101		74 - 123	09/26/12 03:30	10/02/12 05:34	50

Lab Sample ID: LCS 500-163783/8-A

Matrix: Solid

Analysis Batch: 164308

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 163783

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	2500	2610		ug/Kg		104	74 - 115
Bromobenzene	2500	2620		ug/Kg		105	80 - 120
Bromochloromethane	2500	2490		ug/Kg		100	72 - 119
Bromodichloromethane	2500	2420		ug/Kg		97	79 - 117
Bromoform	2500	2600		ug/Kg		104	64 - 127
Bromomethane	2500	2540		ug/Kg		102	47 - 158
n-Butylbenzene	2500	2430		ug/Kg		97	78 - 119
sec-Butylbenzene	2500	2610		ug/Kg		104	79 - 117
tert-Butylbenzene	2500	2660		ug/Kg		106	80 - 120
Carbon tetrachloride	2500	2580		ug/Kg		103	72 - 124
Chlorobenzene	2500	2520		ug/Kg		101	80 - 120
Dibromochloromethane	2500	2570		ug/Kg		103	73 - 120
Chloroethane	2500	2540		ug/Kg		102	54 - 143
Chloroform	2500	2530		ug/Kg		101	76 - 117
Chloromethane	2500	2120		ug/Kg		85	56 - 144
2-Chlorotoluene	2500	2550		ug/Kg		102	80 - 120
4-Chlorotoluene	2500	2420		ug/Kg		97	80 - 120
1,2-Dibromo-3-Chloropropane	2500	2340		ug/Kg		94	53 - 133
1,2-Dibromoethane	2500	2580		ug/Kg		103	79 - 120
Dibromomethane	2500	2460		ug/Kg		99	76 - 120
1,2-Dichlorobenzene	2500	2520		ug/Kg		101	80 - 120
1,3-Dichlorobenzene	2500	2420		ug/Kg		97	80 - 120
1,4-Dichlorobenzene	2500	2410		ug/Kg		97	80 - 120
Dichlorodifluoromethane	2500	1820		ug/Kg		73	43 - 139
1,1-Dichloroethane	2500	2510		ug/Kg		100	66 - 118
1,2-Dichloroethane	2500	2490		ug/Kg		100	76 - 117

QC Sample Results

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-163783/8-A

Matrix: Solid

Analysis Batch: 164308

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 163783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
1,1-Dichloroethene	2500	2510		ug/Kg		101	58 - 115	
cis-1,2-Dichloroethene	2500	2550		ug/Kg		102	75 - 119	
trans-1,2-Dichloroethene	2500	2670		ug/Kg		107	74 - 119	
1,2-Dichloropropane	2500	2540		ug/Kg		102	77 - 118	
1,3-Dichloropropane	2500	2520		ug/Kg		101	79 - 114	
2,2-Dichloropropane	2500	2560		ug/Kg		102	70 - 117	
1,1-Dichloropropene	2500	2410		ug/Kg		96	71 - 113	
cis-1,3-Dichloropropene	2690	2560		ug/Kg		95	71 - 112	
trans-1,3-Dichloropropene	2430	2250		ug/Kg		93	66 - 116	
Ethylbenzene	2500	2560		ug/Kg		102	79 - 115	
Hexachlorobutadiene	2500	2640		ug/Kg		106	71 - 128	
Isopropylbenzene	2500	2220		ug/Kg		89	68 - 120	
p-Isopropyltoluene	2500	2450		ug/Kg		98	77 - 120	
Methylene Chloride	2500	2570		ug/Kg		103	63 - 130	
Methyl tert-butyl ether	2500	2320		ug/Kg		93	60 - 125	
Naphthalene	2500	2490		ug/Kg		100	72 - 127	
N-Propylbenzene	2500	2500		ug/Kg		100	77 - 114	
Styrene	2500	2670		ug/Kg		107	80 - 120	
1,1,1,2-Tetrachloroethane	2500	2530		ug/Kg		101	80 - 120	
1,1,2,2-Tetrachloroethane	2500	2410		ug/Kg		96	78 - 123	
Tetrachloroethene	2500	2660		ug/Kg		106	71 - 120	
Toluene	2500	2630		ug/Kg		105	80 - 120	
1,2,3-Trichlorobenzene	2500	2450		ug/Kg		98	74 - 126	
1,2,4-Trichlorobenzene	2500	2300		ug/Kg		92	70 - 118	
1,1,1-Trichloroethane	2500	2620		ug/Kg		105	77 - 117	
1,1,2-Trichloroethane	2500	2450		ug/Kg		98	78 - 121	
Trichloroethene	2500	2640		ug/Kg		106	75 - 120	
Trichlorofluoromethane	2500	2330		ug/Kg		93	66 - 126	
1,2,3-Trichloropropane	2500	2380		ug/Kg		95	77 - 119	
1,2,4-Trimethylbenzene	2500	2650		ug/Kg		106	80 - 120	
1,3,5-Trimethylbenzene	2500	2730		ug/Kg		109	83 - 120	
Vinyl chloride	2500	2200		ug/Kg		88	51 - 149	
Xylenes, Total	7500	7780		ug/Kg		104	78 - 120	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		75 - 131
Toluene-d8 (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	101		79 - 120
Dibromofluoromethane	101		74 - 123

Lab Sample ID: MB 500-164308/6

Matrix: Solid

Analysis Batch: 164308

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.074		0.25	0.074	ug/Kg			10/01/12 22:18	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			10/01/12 22:18	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			10/01/12 22:18	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			10/01/12 22:18	1

QC Sample Results

Client: Environmental Forensic Investigation Inc
 Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-164308/6

Matrix: Solid

Analysis Batch: 164308

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromoform	<0.44		2.0	0.44	ug/Kg			10/01/12 22:18	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			10/01/12 22:18	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			10/01/12 22:18	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			10/01/12 22:18	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			10/01/12 22:18	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			10/01/12 22:18	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			10/01/12 22:18	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			10/01/12 22:18	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			10/01/12 22:18	1
Chloroform	<0.21		1.0	0.21	ug/Kg			10/01/12 22:18	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			10/01/12 22:18	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			10/01/12 22:18	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			10/01/12 22:18	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			10/01/12 22:18	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			10/01/12 22:18	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			10/01/12 22:18	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			10/01/12 22:18	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			10/01/12 22:18	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			10/01/12 22:18	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			10/01/12 22:18	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			10/01/12 22:18	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			10/01/12 22:18	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			10/01/12 22:18	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			10/01/12 22:18	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			10/01/12 22:18	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			10/01/12 22:18	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			10/01/12 22:18	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			10/01/12 22:18	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			10/01/12 22:18	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			10/01/12 22:18	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			10/01/12 22:18	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			10/01/12 22:18	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			10/01/12 22:18	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			10/01/12 22:18	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			10/01/12 22:18	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			10/01/12 22:18	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			10/01/12 22:18	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			10/01/12 22:18	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			10/01/12 22:18	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			10/01/12 22:18	1
Styrene	<0.099		1.0	0.099	ug/Kg			10/01/12 22:18	1
1,1,1,2-Tetrachloroethane	<0.35		2.0	0.35	ug/Kg			10/01/12 22:18	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			10/01/12 22:18	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			10/01/12 22:18	1
Toluene	<0.12		0.25	0.12	ug/Kg			10/01/12 22:18	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			10/01/12 22:18	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			10/01/12 22:18	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			10/01/12 22:18	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			10/01/12 22:18	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			10/01/12 22:18	1

QC Sample Results

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-164308/6

Matrix: Solid

Analysis Batch: 164308

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			10/01/12 22:18	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			10/01/12 22:18	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			10/01/12 22:18	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			10/01/12 22:18	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			10/01/12 22:18	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			10/01/12 22:18	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	102		75 - 131		10/01/12 22:18	1
Toluene-d8 (Surr)	100		80 - 120		10/01/12 22:18	1
4-Bromofluorobenzene (Surr)	95		79 - 120		10/01/12 22:18	1
Dibromofluoromethane	99		74 - 123		10/01/12 22:18	1

Lab Sample ID: LCS 500-164308/4

Matrix: Solid

Analysis Batch: 164308

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Benzene	50.0	47.2		ug/Kg		94	74 - 115
Bromobenzene	50.0	52.6		ug/Kg		105	80 - 120
Bromochloromethane	50.0	47.5		ug/Kg		95	72 - 119
Bromodichloromethane	50.0	47.8		ug/Kg		96	79 - 117
Bromoform	50.0	53.2		ug/Kg		106	64 - 127
Bromomethane	50.0	49.8		ug/Kg		100	47 - 158
n-Butylbenzene	50.0	49.9		ug/Kg		100	78 - 119
sec-Butylbenzene	50.0	50.8		ug/Kg		102	79 - 117
tert-Butylbenzene	50.0	51.4		ug/Kg		103	80 - 120
Carbon tetrachloride	50.0	45.7		ug/Kg		91	72 - 124
Chlorobenzene	50.0	49.2		ug/Kg		98	80 - 120
Dibromochloromethane	50.0	51.0		ug/Kg		102	73 - 120
Chloroethane	50.0	51.0		ug/Kg		102	54 - 143
Chloroform	50.0	46.3		ug/Kg		93	76 - 117
Chloromethane	50.0	47.0		ug/Kg		94	56 - 144
2-Chlorotoluene	50.0	50.4		ug/Kg		101	80 - 120
4-Chlorotoluene	50.0	48.7		ug/Kg		97	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	50.8		ug/Kg		102	53 - 133
1,2-Dibromoethane	50.0	51.6		ug/Kg		103	79 - 120
Dibromomethane	50.0	48.4		ug/Kg		97	76 - 120
1,2-Dichlorobenzene	50.0	51.7		ug/Kg		103	80 - 120
1,3-Dichlorobenzene	50.0	49.3		ug/Kg		99	80 - 120
1,4-Dichlorobenzene	50.0	49.5		ug/Kg		99	80 - 120
Dichlorodifluoromethane	50.0	44.4		ug/Kg		89	43 - 139
1,1-Dichloroethane	50.0	43.4		ug/Kg		87	66 - 118
1,2-Dichloroethane	50.0	48.0		ug/Kg		96	76 - 117
1,1-Dichloroethene	50.0	37.3		ug/Kg		75	58 - 115
cis-1,2-Dichloroethene	50.0	46.0		ug/Kg		92	75 - 119
trans-1,2-Dichloroethene	50.0	43.5		ug/Kg		87	74 - 119
1,2-Dichloropropane	50.0	48.7		ug/Kg		97	77 - 118
1,3-Dichloropropane	50.0	49.6		ug/Kg		99	79 - 114

QC Sample Results

Client: Environmental Forensic Investigation Inc
 Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-164308/4

Matrix: Solid

Analysis Batch: 164308

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	45.2		ug/Kg		90	70 - 117
1,1-Dichloropropene	50.0	41.9		ug/Kg		84	71 - 113
cis-1,3-Dichloropropene	53.8	51.5		ug/Kg		96	71 - 112
trans-1,3-Dichloropropene	48.6	45.8		ug/Kg		94	66 - 116
Ethylbenzene	50.0	49.7		ug/Kg		99	79 - 115
Hexachlorobutadiene	50.0	54.7		ug/Kg		109	71 - 128
Isopropylbenzene	50.0	43.5		ug/Kg		87	68 - 120
p-Isopropyltoluene	50.0	49.2		ug/Kg		98	77 - 120
Methylene Chloride	50.0	44.6		ug/Kg		89	63 - 130
Methyl tert-butyl ether	50.0	45.2		ug/Kg		90	60 - 125
Naphthalene	50.0	55.3		ug/Kg		111	72 - 127
N-Propylbenzene	50.0	49.0		ug/Kg		98	77 - 114
Styrene	50.0	52.1		ug/Kg		104	80 - 120
1,1,1,2-Tetrachloroethane	50.0	49.8		ug/Kg		100	80 - 120
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/Kg		103	78 - 123
Tetrachloroethene	50.0	49.8		ug/Kg		100	71 - 120
Toluene	50.0	49.9		ug/Kg		100	80 - 120
1,2,3-Trichlorobenzene	50.0	54.6		ug/Kg		109	74 - 126
1,2,4-Trichlorobenzene	50.0	51.7		ug/Kg		103	70 - 118
1,1,1-Trichloroethane	50.0	46.1		ug/Kg		92	77 - 117
1,1,2-Trichloroethane	50.0	49.7		ug/Kg		99	78 - 121
Trichloroethene	50.0	49.1		ug/Kg		98	75 - 120
Trichlorofluoromethane	50.0	50.5		ug/Kg		101	66 - 126
1,2,3-Trichloropropane	50.0	49.7		ug/Kg		99	77 - 119
1,2,4-Trimethylbenzene	50.0	52.2		ug/Kg		104	80 - 120
1,3,5-Trimethylbenzene	50.0	53.8		ug/Kg		108	83 - 120
Vinyl chloride	50.0	48.2		ug/Kg		96	51 - 149
Xylenes, Total	150	149		ug/Kg		99	78 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		75 - 131
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	100		79 - 120
Dibromofluoromethane	98		74 - 123

Lab Chronicle

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Client Sample ID: 6272-B-1(23'-24.5')

Lab Sample ID: 500-50488-1

Date Collected: 09/20/12 10:25

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			163783	09/20/12 10:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	164308	10/02/12 00:43	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	163704	09/25/12 12:53	CMV	TAL CHI

Client Sample ID: 6272-HA-1(0'-1')

Lab Sample ID: 500-50488-2

Date Collected: 09/20/12 11:40

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 95.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			163783	09/20/12 11:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	164308	10/02/12 01:08	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	163704	09/25/12 12:53	CMV	TAL CHI

Client Sample ID: 6272-HA-1(2.-3)

Lab Sample ID: 500-50488-3

Date Collected: 09/20/12 11:40

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			163783	09/20/12 11:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	164308	10/02/12 01:32	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	163704	09/25/12 12:53	CMV	TAL CHI

Client Sample ID: 6272-HA-2(0-1)

Lab Sample ID: 500-50488-4

Date Collected: 09/20/12 12:10

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			163783	09/20/12 12:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	164308	10/02/12 01:56	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	163704	09/25/12 12:53	CMV	TAL CHI

Client Sample ID: 6272-HA-2(4-5)

Lab Sample ID: 500-50488-5

Date Collected: 09/20/12 12:10

Matrix: Solid

Date Received: 09/25/12 09:50

Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			163783	09/20/12 12:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	164308	10/02/12 02:20	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	163704	09/25/12 12:53	CMV	TAL CHI

Lab Chronicle

Client: Environmental Forensic Investigation Inc
Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Client Sample ID: 6272-IDM

Date Collected: 09/20/12 00:00

Date Received: 09/25/12 09:50

Lab Sample ID: 500-50488-6

Matrix: Solid

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			163783	09/20/12 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	164308	10/02/12 02:44	BDA	TAL CHI
Total/NA	Analysis	Moisture		1	163704	09/25/12 12:53	CMV	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

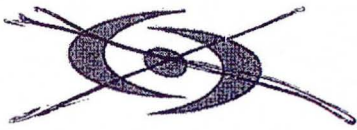
Client: Environmental Forensic Investigation Inc
 Project/Site: Klinke - University

TestAmerica Job ID: 500-50488-1

Laboratory: TestAmerica Chicago

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40461	04-30-13
California	NELAC	9	01132CA	04-30-13
Georgia	State Program	4	N/A	04-30-13
Georgia	State Program	4	939	04-30-13
Hawaii	State Program	9	N/A	04-30-13
Illinois	NELAC	5	100201	04-30-13
Indiana	State Program	5	C-IL-02	04-30-13
Iowa	State Program	7	82	05-01-14
Kansas	NELAC	7	E-10161	10-31-12
Kentucky	State Program	4	90023	12-31-12
Kentucky (UST)	State Program	4	66	04-11-13
L-A-B	DoD ELAP		L2304	01-06-13
L-A-B	ISO/IEC 17025		L2304	01-06-13
Louisiana	NELAC	6	30720	06-30-13
Massachusetts	State Program	1	M-IL035	06-30-13
Mississippi	State Program	4	N/A	04-30-13
North Carolina DENR	State Program	4	291	12-31-12
North Dakota	State Program	8	R-194	04-30-13
Oklahoma	State Program	6	8908	08-31-13
South Carolina	State Program	4	77001	04-30-13
Texas	NELAC	6	T104704252-09-TX	02-28-13
USDA	Federal		P330-12-00038	02-06-15
Virginia	NELAC	3	460142	06-14-13
Wisconsin	State Program	5	999580010	08-31-13
Wyoming	State Program	8	8TMS-Q	04-30-13



CHAIN OF CUSTODY RECORD

ENVIision Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632

Client: <u>Enviroforensics</u>	Invoice Address:	REQUESTED PARAMETERS <i>WOCs #9260</i>
Report Address: <u>200 N Executive Dr Suite 101 Brookfield WI</u>	Project Name: <u>Klinke University</u>	
Report To: <u>Wayne Fassbender</u>	Lab Contact:	
Phone: <u>414-982-3988</u>	Sampled by: <u>J. Jordan</u>	
Fax:	P.O. Number:	
Desired TAT: (Please Circle One) 1-2 days 3-6 days <u>Std (2 bus. days)</u>	QA/QC Required: (circle if applicable) Level III Level IV	

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	HCl	HNO ₃	H ₂ SO ₄
1 6272-B-1 (23'-24.5')	9/20/2012	10:25	G	S			
2 6272-HA-1 (0-1')	↓	11:40	↓	↓			
3 6272-HA-1 (2-3')	↓	11:40	↓	↓			
4 6272-HA-2 (0-1')	↓	12:10	↓	↓			
5 6272-HA-2 (4-5')	↓	12:10	↓	↓			
6 6272-IDM	↓		C	↓			

Comments: Sampled in WI. Preserved NOT on ICC

Relinquished by:	Date	Time	Received by:
<u>Jonathan</u>	9-24-12	13:20	<u>[Signature]</u>
<u>[Signature]</u>	9-24-12	15:17	<u>[Signature]</u>

Login Sample Receipt Checklist

Client: Environmental Forensic Investigation Inc

Job Number: 500-50488-1

Login Number: 50488

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

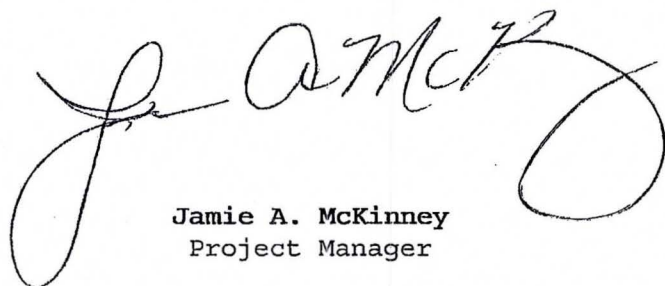
Klinke

Lot #: H2I250424

Wayne Fassbender

Environmental Forensic Investi
200 S. Executive Drive, Ste 10
Brookfield, WI 53045

TESTAMERICA LABORATORIES, INC.



Jamie A. McKinney
Project Manager

October 2, 2012

ANALYTICAL METHODS SUMMARY

H2I250424

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H2I250424

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
MWPLD	001	6273-SSV-1	09/20/12	13:44
MWPLG	002	6273-SSV-2	09/20/12	14:08
MWPLH	003	6272-SSV-1	09/20/12	09:24
MWPLK	004	6272-SSV-2	09/20/12	09:45
MWPLM	006	6274-SSV-3	09/19/12	15:40

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Sample Data Summary

Environmental Forensic Investigation Inc

Client Sample ID: 6272-SSV-1

GC/MS Volatiles

Lot-Sample # H2I250424 - 003 Work Order # MWPLH1AA Matrix.....: AIR

Date Sampled...: 09/20/2012 Date Received...: 09/25/2012

Prep Date.....: 09/25/2012 Analysis Date...: 09/26/2012

Prep Batch #.....: 2269108

Dilution Factor.: 36.6 Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Dichlorodifluoromethane	27	7.3	130	36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	7.3	ND	51
Chloromethane	ND	18	ND	38
Vinyl chloride	ND	7.3	ND	19
Bromomethane	ND	7.3	ND	28
Chloroethane	ND	7.3	ND	19
Trichlorofluoromethane	ND	7.3	ND	41
1,1-Dichloroethene	ND	7.3	ND	29
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	7.3	ND	56
Methylene chloride	ND	18	ND	64
1,1-Dichloroethane	ND	7.3	ND	30
cis-1,2-Dichloroethene	ND	7.3	ND	29
Chloroform	ND	7.3	ND	36
1,1,1-Trichloroethane	ND	7.3	ND	40
Carbon tetrachloride	ND	7.3	ND	46
Benzene	ND	7.3	ND	23
1,2-Dichloroethane	ND	7.3	ND	30
Trichloroethene	830	7.3	4500	39
1,2-Dichloropropane	ND	7.3	ND	34
cis-1,3-Dichloropropene	ND	7.3	ND	33
Toluene	ND	7.3	ND	28
trans-1,3-Dichloropropene	ND	7.3	ND	33
1,1,2-Trichloroethane	ND	7.3	ND	40
Tetrachloroethene	300	7.3	2100	50
1,2-Dibromoethane (EDB)	ND	7.3	ND	56
Chlorobenzene	ND	7.3	ND	34
Ethylbenzene	ND	7.3	ND	32
m-Xylene & p-Xylene	ND	7.3	ND	32
o-Xylene	ND	7.3	ND	32
Styrene	ND	7.3	ND	31
1,1,2,2-Tetrachloroethane	ND	7.3	ND	50
1,3,5-Trimethylbenzene	ND	7.3	ND	36
1,2,4-Trimethylbenzene	ND	7.3	ND	36
1,3-Dichlorobenzene	ND	7.3	ND	44
1,4-Dichlorobenzene	ND	7.3	ND	44
1,2-Dichlorobenzene	ND	7.3	ND	44
Benzyl chloride	ND	15	ND	76

Environmental Forensic Investigation Inc

Client Sample ID: 6272-SSV-1

GC/MS Volatiles

Lot-Sample # H2I250424 - 003 Work Order # MWPLH1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,2,4-Trichlorobenzene	ND	37	ND	270
Hexachlorobutadiene	ND	37	ND	390
SURROGATE		PERCENT RECOVERY		LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene		97		60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Environmental Forensic Investigation Inc

Client Sample ID: 6272-SSV-2

GC/MS Volatiles

Lot-Sample # H2I250424 - 004 Work Order # MWPLK1AA Matrix.....: AIR

Date Sampled...: 09/20/2012 Date Received...: 09/25/2012
 Prep Date.....: 09/25/2012 Analysis Date...: 09/26/2012
 Prep Batch #.....: 2269108
 Dilution Factor.: 10 Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Dichlorodifluoromethane	5.1	2.0	25	9.9
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	2.0	ND	14
Chloromethane	ND	5.0	ND	10
Vinyl chloride	ND	2.0	ND	5.1
Bromomethane	ND	2.0	ND	7.8
Chloroethane	ND	2.0	ND	5.3
Trichlorofluoromethane	ND	2.0	ND	11
1,1-Dichloroethene	ND	2.0	ND	7.9
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.0	ND	15
Methylene chloride	ND	5.0	ND	17
1,1-Dichloroethane	ND	2.0	ND	8.1
cis-1,2-Dichloroethene	ND	2.0	ND	7.9
Chloroform	ND	2.0	ND	9.8
1,1,1-Trichloroethane	ND	2.0	ND	11
Carbon tetrachloride	ND	2.0	ND	13
Benzene	ND	2.0	ND	6.4
1,2-Dichloroethane	ND	2.0	ND	8.1
Trichloroethene	2.6	2.0	14	11
1,2-Dichloropropane	ND	2.0	ND	9.2
cis-1,3-Dichloropropene	ND	2.0	ND	9.1
Toluene	ND	2.0	ND	7.5
trans-1,3-Dichloropropene	ND	2.0	ND	9.1
1,1,2-Trichloroethane	ND	2.0	ND	11
Tetrachloroethene	64	2.0	440	14
1,2-Dibromoethane (EDB)	ND	2.0	ND	15
Chlorobenzene	ND	2.0	ND	9.2
Ethylbenzene	ND	2.0	ND	8.7
m-Xylene & p-Xylene	ND	2.0	ND	8.7
o-Xylene	ND	2.0	ND	8.7
Styrene	ND	2.0	ND	8.5
1,1,2,2-Tetrachloroethane	ND	2.0	ND	14
1,3,5-Trimethylbenzene	ND	2.0	ND	9.8
1,2,4-Trimethylbenzene	ND	2.0	ND	9.8
1,3-Dichlorobenzene	ND	2.0	ND	12
1,4-Dichlorobenzene	ND	2.0	ND	12
1,2-Dichlorobenzene	ND	2.0	ND	12
Benzyl chloride	ND	4.0	ND	21

Environmental Forensic Investigation Inc

Client Sample ID: 6272-SSV-2

GC/MS Volatiles

Lot-Sample # H21250424 - 004 Work Order # MWPLK1AA Matrix.....: AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,2,4-Trichlorobenzene	ND	10	ND	74
Hexachlorobutadiene	ND	10	ND	110
SURROGATE		PERCENT RECOVERY		LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene		98		60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Walden, James E - DNR

From: Richard Klinke <richard@klinkecleaners.com>
Sent: Friday, January 25, 2013 11:49 AM
To: Walden, James E - DNR
Subject: Bid Selection Forms
Attachments: 1295 N Sherman Ave Madison Klinke Cleaners Bid Selection Form.pdf; 1308 Hamilton St. Stoughton Klinke Cleaners Bid Selection Form.pdf; 2875 University Ave Madison Klinke Cleaners Bid Selection Form.pdf

Jim, I thought I had sent these to you last July but I must not have, here they are. I re-scanned them and attached them to this email, if you want the originals please let me know. If you have any questions please feel free to call or email me.

Thanks,

Richard Klinke
Cell: 608-209-8815
Direct: 608-620-7659

**DERF Site Investigation Bid Summary
 Consultant Selection Cover Sheet**

Notice: Use this form to notify the Department of Natural Resources of the consultant you are selecting to conduct a site investigation and to submit and summarize the bids required in the Dry Cleaner Environmental Response Fund (DERF) Program. This form is authorized under s. 292.65, Wis. Stats. and s. NR 169.23, Wis. Adm. Code. Completion of this form is mandatory for any person applying for DERF reimbursement. Persons who do not submit a completed form will not be eligible for reimbursement under DERF. Personal information will be used to manage the DERF program, and be made available to requesters under Wisconsin's Open Records laws (ss. 19.32-19.39, Wis. Stats.) and requirements.

Complete the following information and submit it to your DNR regional project manager. Copy this form as necessary.

APPLICANT INFORMATION		
2875 University Ave	Klinke Cleaners	02-13-551964

CONTRACT INFORMATION	
Enviroforensics	200 S Executive Drive, Suite 101 Brookfield, WI 53005

Consultant Name: Enviroforensics		Consultant Name: Saga Environmental	
Consulting costs:	\$10,408	Consulting costs:	\$7,300
Drilling costs:	\$657	Drilling costs:	\$2,000
Analytical costs:	\$1,817.00	Analytical costs:	\$885
Miscellaneous costs:	\$1,090	Miscellaneous costs:	\$600
Total Costs:	\$13,972	Total Costs:	\$10,785

Consultant Name: Fehr-Graham	
Consulting costs:	\$8,215
Drilling costs:	\$3,688
Analytical costs:	\$8,517
Miscellaneous costs:	
Total Costs:	\$20,420

Optional 4th bid information:

Consultant Name:	
Consulting costs:	
Drilling costs:	
Analytical costs:	
Miscellaneous costs:	
Total Costs:	

Justification for Selection:

Enviroforensics had the most complete bid from the start.

APPLICANT CERTIFICATION AND CONTACT INFORMATION

I certify that the information contained above is true and correct to the best of my knowledge.

Applicant Name Owner: Richard Klinke Co: Klinke Clothing Care Corp		Date 7/15/2012	
Street Address 4518 Monona Dr	City Madison	State WI	Zip Code 53716

Signature *Richard Klinke*



Walden, James E - DNR

From: Walden, James E - DNR
Sent: Thursday, January 24, 2013 9:21 AM
To: Lafferty, Jeffery
Subject: vapor sampling results - Klinke sites

Hi Jeff:

Attached are 3 reports I recently received with vapor sampling results from 3 of the Klinke sites (Campus, Sherman and Stoughton). It is easier to just send you the whole report. Follow-up investigation will be done at each site. Give me a call if you would like to discuss specifics.



klinke Sherman
Avenue Prog. R...



klinke Stoughton
FSI Report, ...



klinke campus
Prog. Rpt. Work ...

Jim Walden

DNR RR/5 608-267-7572