

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

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Tel: (716)691-2600

TestAmerica Job ID: 480-56645-1

Client Project/Site: Delphi Lockport

For:

Heritage Interactive Services LLC

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Indianapolis, Indiana 46268

Attn: Joshua Barrick



Authorized for release by:

4/2/2014 4:19:13 PM

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*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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# Definitions/Glossary

Client: Heritage Interactive Services LLC  
Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.
$\alpha$	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
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: Heritage Interactive Services LLC  
Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

**Job ID: 480-56645-1**

**Laboratory: TestAmerica Buffalo**

## Narrative

### Job Narrative 480-56645-1

#### Comments

No additional comments.

#### Receipt

The sample was received on 3/26/2014 10:10 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

#### GC/MS VOA

Method(s) 8260C: The following samples were diluted due to the nature of the TCLP sample matrix: SOIL (480-56645-1), LB 480-172263/1-A. Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 173095 recovered outside control limits for multiple analytes. The recoveries were within quality control acceptance limits, therefore the data has been qualified and reported.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows two of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (LB 480-172234/1-D). These results have been reported and qualified.

No other analytical or quality issues were noted.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 6010C: The TCLP Extractor Blank, LB 480-172234, contained total barium above the reporting limit (RL). The associated sample SOIL (480-56645-1) contained a detect for this analyte at a concentration greater than 10X the value found in the TCLP Extractor Blank; therefore, re-extraction and/or re-analysis of the sample was not performed.

Method(s) 6010C: The TCLP Extractor Blank for batch 480-172816 contained chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples SOIL (480-56645-1) was not performed.

No other analytical or quality issues were noted.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 173095

No other analytical or quality issues were noted.

# Detection Summary

Client: Heritage Interactive Services LLC  
Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

**Client Sample ID: SOIL**

**Lab Sample ID: 480-56645-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.78	B	0.0020	0.00070	mg/L	1		6010C	TCLP
Cadmium	0.0039		0.0020	0.00050	mg/L	1		6010C	TCLP
Chromium	0.0024	J B	0.0040	0.0010	mg/L	1		6010C	TCLP
Lead	0.0043	J	0.010	0.0030	mg/L	1		6010C	TCLP
Selenium	0.011	J	0.025	0.0087	mg/L	1		6010C	TCLP
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176.0		50.0	50.0	Degrees F	1		1010A	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: Heritage Interactive Services LLC  
Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

**Client Sample ID: SOIL**

**Lab Sample ID: 480-56645-1**

**Date Collected: 03/26/14 08:45**

**Matrix: Solid**

**Date Received: 03/26/14 10:10**

**Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			03/28/14 23:41	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			03/28/14 23:41	10
Chlorobenzene	ND		0.010	0.0075	mg/L			03/28/14 23:41	10
Chloroform	ND		0.010	0.0034	mg/L			03/28/14 23:41	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			03/28/14 23:41	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			03/28/14 23:41	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			03/28/14 23:41	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			03/28/14 23:41	10
Trichloroethene	ND		0.010	0.0046	mg/L			03/28/14 23:41	10
Vinyl chloride	ND		0.010	0.0090	mg/L			03/28/14 23:41	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		66 - 137					03/28/14 23:41	10
Toluene-d8 (Surr)	110		71 - 126					03/28/14 23:41	10
4-Bromofluorobenzene (Surr)	114		73 - 120					03/28/14 23:41	10
Dibromofluoromethane (Surr)	91		60 - 140					03/28/14 23:41	10

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		04/01/14 08:33	04/02/14 13:49	1
2,4-Dinitrotoluene	ND	*	0.0050	0.00045	mg/L		04/01/14 08:33	04/02/14 13:49	1
Hexachlorobenzene	ND	*	0.0050	0.00051	mg/L		04/01/14 08:33	04/02/14 13:49	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		04/01/14 08:33	04/02/14 13:49	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		04/01/14 08:33	04/02/14 13:49	1
3-Methylphenol	ND		0.010	0.00040	mg/L		04/01/14 08:33	04/02/14 13:49	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		04/01/14 08:33	04/02/14 13:49	1
4-Methylphenol	ND		0.010	0.00036	mg/L		04/01/14 08:33	04/02/14 13:49	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		04/01/14 08:33	04/02/14 13:49	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		04/01/14 08:33	04/02/14 13:49	1
Pyridine	ND		0.025	0.00041	mg/L		04/01/14 08:33	04/02/14 13:49	1
2,4,5-Trichlorophenol	ND	*	0.0050	0.00048	mg/L		04/01/14 08:33	04/02/14 13:49	1
2,4,6-Trichlorophenol	ND	*	0.0050	0.00061	mg/L		04/01/14 08:33	04/02/14 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	122		52 - 132				04/01/14 08:33	04/02/14 13:49	1
2-Fluorobiphenyl	88		48 - 120				04/01/14 08:33	04/02/14 13:49	1
2-Fluorophenol	41		20 - 120				04/01/14 08:33	04/02/14 13:49	1
Nitrobenzene-d5	69		46 - 120				04/01/14 08:33	04/02/14 13:49	1
p-Terphenyl-d14	99		67 - 150				04/01/14 08:33	04/02/14 13:49	1
Phenol-d5	28		16 - 120				04/01/14 08:33	04/02/14 13:49	1

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	✱	03/27/14 10:21	03/28/14 11:35	1
PCB-1221	ND		0.23	0.045	mg/Kg	✱	03/27/14 10:21	03/28/14 11:35	1
PCB-1232	ND		0.23	0.045	mg/Kg	✱	03/27/14 10:21	03/28/14 11:35	1
PCB-1242	ND		0.23	0.045	mg/Kg	✱	03/27/14 10:21	03/28/14 11:35	1
PCB-1248	ND		0.23	0.045	mg/Kg	✱	03/27/14 10:21	03/28/14 11:35	1
PCB-1254	ND		0.23	0.11	mg/Kg	✱	03/27/14 10:21	03/28/14 11:35	1
PCB-1260	ND		0.23	0.11	mg/Kg	✱	03/27/14 10:21	03/28/14 11:35	1

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# Client Sample Results

Client: Heritage Interactive Services LLC  
 Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

## Client Sample ID: SOIL

Lab Sample ID: 480-56645-1

Date Collected: 03/26/14 08:45

Matrix: Solid

Date Received: 03/26/14 10:10

Percent Solids: 89.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	108		47 - 176	03/27/14 10:21	03/28/14 11:35	1
Tetrachloro-m-xylene	100		46 - 175	03/27/14 10:21	03/28/14 11:35	1

### Method: 6010C - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		03/28/14 09:10	03/30/14 20:04	1
Barium	0.78	B	0.0020	0.00070	mg/L		03/28/14 09:10	03/30/14 20:04	1
Cadmium	0.0039		0.0020	0.00050	mg/L		03/28/14 09:10	03/30/14 20:04	1
Chromium	0.0024	J B	0.0040	0.0010	mg/L		03/28/14 09:10	03/30/14 20:04	1
Lead	0.0043	J	0.010	0.0030	mg/L		03/28/14 09:10	03/30/14 20:04	1
Selenium	0.011	J	0.025	0.0087	mg/L		03/28/14 09:10	03/30/14 20:04	1
Silver	ND		0.0060	0.0017	mg/L		03/28/14 09:10	03/30/14 20:04	1

### Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/28/14 11:00	03/28/14 15:21	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176.0		50.0	50.0	Degrees F			03/28/14 06:33	1

# Surrogate Summary

Client: Heritage Interactive Services LLC  
Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (66-137)	TOL (71-126)	BFB (73-120)	DBFM (60-140)
LCS 480-172656/5	Lab Control Sample	84	108	117	96
MB 480-172656/6	Method Blank	83	111	118	92

**Surrogate Legend**

12DCE = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (66-137)	TOL (71-126)	BFB (73-120)	DBFM (60-140)
480-56645-1	SOIL	86	110	114	91
LB 480-172263/1-A	Method Blank	86	107	114	90

**Surrogate Legend**

12DCE = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (52-132)	FBP (48-120)	2FP (20-120)	NBZ (46-120)	TPH (67-150)	PHL (16-120)
LCS 480-173095/2-A	Lab Control Sample	84	64	30	51	71	24
LCS 480-173095/3-A	Lab Control Sample Dup	108	82	36	63	86	29
MB 480-173095/1-A	Method Blank	92	65	32	50	90	23

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol  
FBP = 2-Fluorobiphenyl  
2FP = 2-Fluorophenol  
NBZ = Nitrobenzene-d5  
TPH = p-Terphenyl-d14  
PHL = Phenol-d5

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (52-132)	FBP (48-120)	2FP (20-120)	NBZ (46-120)	TPH (67-150)	PHL (16-120)
480-56645-1	SOIL	122	88	41	69	99	28
LB 480-172234/1-D	Method Blank	93	55	24	41 X	85	17

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# Surrogate Summary

Client: Heritage Interactive Services LLC  
Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

## Surrogate Legend

TBP = 2,4,6-Tribromophenol  
FBP = 2-Fluorobiphenyl  
2FP = 2-Fluorophenol  
NBZ = Nitrobenzene-d5  
TPH = p-Terphenyl-d14  
PHL = Phenol-d5

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB2	TCX2
		(47-176)	(46-175)
480-56645-1	SOIL	108	100
LCS 480-172262/2-A	Lab Control Sample	121	115
MB 480-172262/1-A	Method Blank	118	109

## Surrogate Legend

DCB = DCB Decachlorobiphenyl  
TCX = Tetrachloro-m-xylene

# QC Sample Results

Client: Heritage Interactive Services LLC  
Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-172656/6**

**Matrix: Solid**

**Analysis Batch: 172656**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010	0.00041	mg/L			03/28/14 21:45	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			03/28/14 21:45	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			03/28/14 21:45	1
Chloroform	ND		0.0010	0.00034	mg/L			03/28/14 21:45	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			03/28/14 21:45	1
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			03/28/14 21:45	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			03/28/14 21:45	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			03/28/14 21:45	1
Trichloroethene	ND		0.0010	0.00046	mg/L			03/28/14 21:45	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			03/28/14 21:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		66 - 137		03/28/14 21:45	1
Toluene-d8 (Surr)	111		71 - 126		03/28/14 21:45	1
4-Bromofluorobenzene (Surr)	118		73 - 120		03/28/14 21:45	1
Dibromofluoromethane (Surr)	92		60 - 140		03/28/14 21:45	1

**Lab Sample ID: LCS 480-172656/5**

**Matrix: Solid**

**Analysis Batch: 172656**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0250	0.0226		mg/L		90	71 - 124
Carbon tetrachloride	0.0250	0.0256		mg/L		102	72 - 134
Chlorobenzene	0.0250	0.0278		mg/L		111	72 - 120
Chloroform	0.0250	0.0224		mg/L		90	73 - 127
1,2-Dichloroethane	0.0250	0.0214		mg/L		86	75 - 127
1,1-Dichloroethene	0.0250	0.0199		mg/L		80	58 - 121
2-Butanone (MEK)	0.125	0.105		mg/L		84	57 - 140
Tetrachloroethene	0.0250	0.0286		mg/L		114	74 - 122
Trichloroethene	0.0250	0.0233		mg/L		93	74 - 123
Vinyl chloride	0.0250	0.0209		mg/L		83	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		66 - 137
Toluene-d8 (Surr)	108		71 - 126
4-Bromofluorobenzene (Surr)	117		73 - 120
Dibromofluoromethane (Surr)	96		60 - 140

**Lab Sample ID: LB 480-172263/1-A**

**Matrix: Solid**

**Analysis Batch: 172656**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			03/28/14 22:29	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			03/28/14 22:29	10
Chlorobenzene	ND		0.010	0.0075	mg/L			03/28/14 22:29	10

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# QC Sample Results

Client: Heritage Interactive Services LLC  
Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LB 480-172263/1-A**  
**Matrix: Solid**  
**Analysis Batch: 172656**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloroform	ND		0.010	0.0034	mg/L			03/28/14 22:29	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			03/28/14 22:29	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			03/28/14 22:29	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			03/28/14 22:29	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			03/28/14 22:29	10
Trichloroethene	ND		0.010	0.0046	mg/L			03/28/14 22:29	10
Vinyl chloride	ND		0.010	0.0090	mg/L			03/28/14 22:29	10

  

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	86		66 - 137		03/28/14 22:29	10
Toluene-d8 (Surr)	107		71 - 126		03/28/14 22:29	10
4-Bromofluorobenzene (Surr)	114		73 - 120		03/28/14 22:29	10
Dibromofluoromethane (Surr)	90		60 - 140		03/28/14 22:29	10

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 480-173095/1-A**  
**Matrix: Solid**  
**Analysis Batch: 173258**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 173095**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		04/01/14 08:33	04/02/14 12:13	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		04/01/14 08:33	04/02/14 12:13	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		04/01/14 08:33	04/02/14 12:13	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		04/01/14 08:33	04/02/14 12:13	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		04/01/14 08:33	04/02/14 12:13	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		04/01/14 08:33	04/02/14 12:13	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		04/01/14 08:33	04/02/14 12:13	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		04/01/14 08:33	04/02/14 12:13	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		04/01/14 08:33	04/02/14 12:13	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		04/01/14 08:33	04/02/14 12:13	1
Pyridine	ND		0.0063	0.00010	mg/L		04/01/14 08:33	04/02/14 12:13	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		04/01/14 08:33	04/02/14 12:13	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		04/01/14 08:33	04/02/14 12:13	1

  

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	92		52 - 132	04/01/14 08:33	04/02/14 12:13	1
2-Fluorobiphenyl	65		48 - 120	04/01/14 08:33	04/02/14 12:13	1
2-Fluorophenol	32		20 - 120	04/01/14 08:33	04/02/14 12:13	1
Nitrobenzene-d5	50		46 - 120	04/01/14 08:33	04/02/14 12:13	1
p-Terphenyl-d14	90		67 - 150	04/01/14 08:33	04/02/14 12:13	1
Phenol-d5	23		16 - 120	04/01/14 08:33	04/02/14 12:13	1

TestAmerica Buffalo

# QC Sample Results

Client: Heritage Interactive Services LLC  
Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-173095/2-A**

**Matrix: Solid**

**Analysis Batch: 173258**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 173095**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.100	0.0357		mg/L		36	32 - 120
2,4-Dinitrotoluene	0.100	0.0806		mg/L		81	65 - 154
Hexachlorobenzene	0.100	0.0833		mg/L		83	14 - 108
Hexachlorobutadiene	0.100	0.0493		mg/L		49	14 - 108
Hexachloroethane	0.100	0.0288		mg/L		29	14 - 101
3-Methylphenol	0.100	0.0483		mg/L		48	39 - 120
2-Methylphenol	0.100	0.0501		mg/L		50	39 - 120
4-Methylphenol	0.100	0.0483		mg/L		48	39 - 120
Nitrobenzene	0.100	0.0518		mg/L		52	45 - 123
Pentachlorophenol	0.200	0.182		mg/L		91	39 - 136
Pyridine	0.100	0.0304		mg/L		30	10 - 120
2,4,5-Trichlorophenol	0.100	0.0816		mg/L		82	65 - 126
2,4,6-Trichlorophenol	0.100	0.0758		mg/L		76	64 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	84		52 - 132
2-Fluorobiphenyl	64		48 - 120
2-Fluorophenol	30		20 - 120
Nitrobenzene-d5	51		46 - 120
p-Terphenyl-d14	71		67 - 150
Phenol-d5	24		16 - 120

**Lab Sample ID: LCSD 480-173095/3-A**

**Matrix: Solid**

**Analysis Batch: 173258**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 173095**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,4-Dichlorobenzene	0.100	0.0440		mg/L		44	32 - 120	21	36
2,4-Dinitrotoluene	0.100	0.103	*	mg/L		103	65 - 154	24	20
Hexachlorobenzene	0.100	0.106	*	mg/L		106	14 - 108	24	15
Hexachlorobutadiene	0.100	0.0616		mg/L		62	14 - 108	22	44
Hexachloroethane	0.100	0.0373		mg/L		37	14 - 101	26	46
3-Methylphenol	0.100	0.0598		mg/L		60	39 - 120	21	30
2-Methylphenol	0.100	0.0620		mg/L		62	39 - 120	21	27
4-Methylphenol	0.100	0.0598		mg/L		60	39 - 120	21	24
Nitrobenzene	0.100	0.0624		mg/L		62	45 - 123	18	24
Pentachlorophenol	0.200	0.231		mg/L		115	39 - 136	24	37
Pyridine	0.100	0.0346		mg/L		35	10 - 120	13	49
2,4,5-Trichlorophenol	0.100	0.101	*	mg/L		101	65 - 126	21	18
2,4,6-Trichlorophenol	0.100	0.0969	*	mg/L		97	64 - 120	24	19

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol	108		52 - 132
2-Fluorobiphenyl	82		48 - 120
2-Fluorophenol	36		20 - 120
Nitrobenzene-d5	63		46 - 120
p-Terphenyl-d14	86		67 - 150

TestAmerica Buffalo

# QC Sample Results

Client: Heritage Interactive Services LLC  
Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID:** LCSD 480-173095/3-A  
**Matrix:** Solid  
**Analysis Batch:** 173258

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA  
**Prep Batch:** 173095

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Phenol-d5	29		16 - 120

**Lab Sample ID:** LB 480-172234/1-D  
**Matrix:** Solid  
**Analysis Batch:** 173258

**Client Sample ID:** Method Blank  
**Prep Type:** TCLP  
**Prep Batch:** 173095

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		04/01/14 08:33	04/02/14 13:25	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		04/01/14 08:33	04/02/14 13:25	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		04/01/14 08:33	04/02/14 13:25	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		04/01/14 08:33	04/02/14 13:25	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		04/01/14 08:33	04/02/14 13:25	1
3-Methylphenol	ND		0.010	0.00040	mg/L		04/01/14 08:33	04/02/14 13:25	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		04/01/14 08:33	04/02/14 13:25	1
4-Methylphenol	ND		0.010	0.00036	mg/L		04/01/14 08:33	04/02/14 13:25	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		04/01/14 08:33	04/02/14 13:25	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		04/01/14 08:33	04/02/14 13:25	1
Pyridine	ND		0.025	0.00041	mg/L		04/01/14 08:33	04/02/14 13:25	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		04/01/14 08:33	04/02/14 13:25	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		04/01/14 08:33	04/02/14 13:25	1

Surrogate	LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	93		52 - 132	04/01/14 08:33	04/02/14 13:25	1
2-Fluorobiphenyl	55		48 - 120	04/01/14 08:33	04/02/14 13:25	1
2-Fluorophenol	24		20 - 120	04/01/14 08:33	04/02/14 13:25	1
Nitrobenzene-d5	41	X	46 - 120	04/01/14 08:33	04/02/14 13:25	1
p-Terphenyl-d14	85		67 - 150	04/01/14 08:33	04/02/14 13:25	1
Phenol-d5	17		16 - 120	04/01/14 08:33	04/02/14 13:25	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID:** MB 480-172262/1-A  
**Matrix:** Solid  
**Analysis Batch:** 172221

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 172262

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.20	0.039	mg/Kg		03/27/14 10:21	03/28/14 09:22	1
PCB-1221	ND		0.20	0.039	mg/Kg		03/27/14 10:21	03/28/14 09:22	1
PCB-1232	ND		0.20	0.039	mg/Kg		03/27/14 10:21	03/28/14 09:22	1
PCB-1242	ND		0.20	0.039	mg/Kg		03/27/14 10:21	03/28/14 09:22	1
PCB-1248	ND		0.20	0.039	mg/Kg		03/27/14 10:21	03/28/14 09:22	1
PCB-1254	ND		0.20	0.093	mg/Kg		03/27/14 10:21	03/28/14 09:22	1
PCB-1260	ND		0.20	0.093	mg/Kg		03/27/14 10:21	03/28/14 09:22	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	118		47 - 176	03/27/14 10:21	03/28/14 09:22	1
Tetrachloro-m-xylene	109		46 - 175	03/27/14 10:21	03/28/14 09:22	1

TestAmerica Buffalo

# QC Sample Results

Client: Heritage Interactive Services LLC  
Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 480-172262/2-A**

**Matrix: Solid**

**Analysis Batch: 172221**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 172262**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.31	2.76		mg/Kg		119	51 - 185
PCB-1260	2.31	2.99		mg/Kg		129	61 - 184

  

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	121		47 - 176
Tetrachloro-m-xylene	115		46 - 175

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-172498/2-A**

**Matrix: Solid**

**Analysis Batch: 172816**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 172498**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		03/28/14 09:10	03/30/14 19:44	1
Barium	ND		0.0020	0.00070	mg/L		03/28/14 09:10	03/30/14 19:44	1
Cadmium	ND		0.0020	0.00050	mg/L		03/28/14 09:10	03/30/14 19:44	1
Chromium	ND		0.0040	0.0010	mg/L		03/28/14 09:10	03/30/14 19:44	1
Lead	ND		0.010	0.0030	mg/L		03/28/14 09:10	03/30/14 19:44	1
Selenium	ND		0.025	0.0087	mg/L		03/28/14 09:10	03/30/14 19:44	1
Silver	ND		0.0060	0.0017	mg/L		03/28/14 09:10	03/30/14 19:44	1

**Lab Sample ID: LCS 480-172498/3-A**

**Matrix: Solid**

**Analysis Batch: 172816**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 172498**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.02		mg/L		102	80 - 120
Barium	1.00	0.915		mg/L		92	80 - 120
Cadmium	1.00	0.973		mg/L		97	80 - 120
Chromium	1.00	0.934		mg/L		93	80 - 120
Lead	1.00	0.956		mg/L		96	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Silver	1.00	1.06		mg/L		106	80 - 120

**Lab Sample ID: LB 480-172234/1-B**

**Matrix: Solid**

**Analysis Batch: 172816**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 172498**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		03/28/14 09:10	03/30/14 19:41	1
Barium	0.00459		0.0020	0.00070	mg/L		03/28/14 09:10	03/30/14 19:41	1
Cadmium	ND		0.0020	0.00050	mg/L		03/28/14 09:10	03/30/14 19:41	1
Chromium	0.00275	J	0.0040	0.0010	mg/L		03/28/14 09:10	03/30/14 19:41	1
Lead	ND		0.010	0.0030	mg/L		03/28/14 09:10	03/30/14 19:41	1
Selenium	ND		0.025	0.0087	mg/L		03/28/14 09:10	03/30/14 19:41	1
Silver	ND		0.0060	0.0017	mg/L		03/28/14 09:10	03/30/14 19:41	1

TestAmerica Buffalo

# QC Sample Results

Client: Heritage Interactive Services LLC  
 Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

## Method: 7470A - TCLP Mercury

**Lab Sample ID: MB 480-172518/2-A**  
**Matrix: Solid**  
**Analysis Batch: 172632**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 172518**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/28/14 11:00	03/28/14 14:56	1

**Lab Sample ID: LCS 480-172518/3-A**  
**Matrix: Solid**  
**Analysis Batch: 172632**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 172518**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00678		mg/L		102	80 - 120

**Lab Sample ID: LB 480-172234/1-C**  
**Matrix: Solid**  
**Analysis Batch: 172632**

**Client Sample ID: Method Blank**  
**Prep Type: TCLP**  
**Prep Batch: 172518**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/28/14 11:00	03/28/14 14:54	1

## Method: 1010A - Ignitability, Pensky-Martens Closed Cup Method

**Lab Sample ID: LCS 480-172450/1**  
**Matrix: Solid**  
**Analysis Batch: 172450**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	81.00		Degrees F		100	97.5 - 102. 5

# QC Association Summary

Client: Heritage Interactive Services LLC  
 Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

## GC/MS VOA

### Leach Batch: 172263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56645-1	SOIL	TCLP	Solid	1311	
LB 480-172263/1-A	Method Blank	TCLP	Solid	1311	

### Analysis Batch: 172656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56645-1	SOIL	TCLP	Solid	8260C	172263
LB 480-172263/1-A	Method Blank	TCLP	Solid	8260C	172263
LCS 480-172656/5	Lab Control Sample	Total/NA	Solid	8260C	
MB 480-172656/6	Method Blank	Total/NA	Solid	8260C	

## GC/MS Semi VOA

### Leach Batch: 172234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56645-1	SOIL	TCLP	Solid	1311	
LB 480-172234/1-D	Method Blank	TCLP	Solid	1311	

### Prep Batch: 173095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56645-1	SOIL	TCLP	Solid	3510C	172234
LB 480-172234/1-D	Method Blank	TCLP	Solid	3510C	172234
LCS 480-173095/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-173095/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	
MB 480-173095/1-A	Method Blank	Total/NA	Solid	3510C	

### Analysis Batch: 173258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56645-1	SOIL	TCLP	Solid	8270D	173095
LB 480-172234/1-D	Method Blank	TCLP	Solid	8270D	173095
LCS 480-173095/2-A	Lab Control Sample	Total/NA	Solid	8270D	173095
LCSD 480-173095/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	173095
MB 480-173095/1-A	Method Blank	Total/NA	Solid	8270D	173095

## GC Semi VOA

### Analysis Batch: 172221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56645-1	SOIL	Total/NA	Solid	8082A	172262
LCS 480-172262/2-A	Lab Control Sample	Total/NA	Solid	8082A	172262
MB 480-172262/1-A	Method Blank	Total/NA	Solid	8082A	172262

### Prep Batch: 172262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56645-1	SOIL	Total/NA	Solid	3550C	
LCS 480-172262/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-172262/1-A	Method Blank	Total/NA	Solid	3550C	



# QC Association Summary

Client: Heritage Interactive Services LLC  
 Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

## Metals

### Leach Batch: 172234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56645-1	SOIL	TCLP	Solid	1311	
LB 480-172234/1-B	Method Blank	TCLP	Solid	1311	
LB 480-172234/1-C	Method Blank	TCLP	Solid	1311	

### Prep Batch: 172498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56645-1	SOIL	TCLP	Solid	3010A	172234
LB 480-172234/1-B	Method Blank	TCLP	Solid	3010A	172234
LCS 480-172498/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 480-172498/2-A	Method Blank	Total/NA	Solid	3010A	

### Prep Batch: 172518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56645-1	SOIL	TCLP	Solid	7470A	172234
LB 480-172234/1-C	Method Blank	TCLP	Solid	7470A	172234
LCS 480-172518/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 480-172518/2-A	Method Blank	Total/NA	Solid	7470A	

### Analysis Batch: 172632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56645-1	SOIL	TCLP	Solid	7470A	172518
LB 480-172234/1-C	Method Blank	TCLP	Solid	7470A	172518
LCS 480-172518/3-A	Lab Control Sample	Total/NA	Solid	7470A	172518
MB 480-172518/2-A	Method Blank	Total/NA	Solid	7470A	172518

### Analysis Batch: 172816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56645-1	SOIL	TCLP	Solid	6010C	172498
LB 480-172234/1-B	Method Blank	TCLP	Solid	6010C	172498
LCS 480-172498/3-A	Lab Control Sample	Total/NA	Solid	6010C	172498
MB 480-172498/2-A	Method Blank	Total/NA	Solid	6010C	172498

## General Chemistry

### Analysis Batch: 172140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56645-1	SOIL	Total/NA	Solid	Moisture	

### Analysis Batch: 172450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-56645-1	SOIL	Total/NA	Solid	1010A	
LCS 480-172450/1	Lab Control Sample	Total/NA	Solid	1010A	

# Lab Chronicle

Client: Heritage Interactive Services LLC  
 Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

**Client Sample ID: SOIL**

**Lab Sample ID: 480-56645-1**

**Date Collected: 03/26/14 08:45**

**Matrix: Solid**

**Date Received: 03/26/14 10:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			172263	03/27/14 10:24	KEB	TAL BUF
TCLP	Analysis	8260C		10	172656	03/28/14 23:41	NMD1	TAL BUF
TCLP	Leach	1311			172234	03/27/14 09:14	KEB	TAL BUF
TCLP	Prep	3510C			173095	04/01/14 08:33	MRB	TAL BUF
TCLP	Analysis	8270D		1	173258	04/02/14 13:49	ANM	TAL BUF
Total/NA	Prep	3550C			172262	03/27/14 10:21	CAM	TAL BUF
Total/NA	Analysis	8082A		1	172221	03/28/14 11:35	JMM	TAL BUF
TCLP	Leach	1311			172234	03/27/14 09:14	KEB	TAL BUF
TCLP	Prep	3010A			172498	03/28/14 09:10	EHD	TAL BUF
TCLP	Analysis	6010C		1	172816	03/30/14 20:04	HTL	TAL BUF
TCLP	Leach	1311			172234	03/27/14 09:14	KEB	TAL BUF
TCLP	Prep	7470A			172518	03/28/14 11:00	EHD	TAL BUF
TCLP	Analysis	7470A		1	172632	03/28/14 15:21	LRK	TAL BUF
Total/NA	Analysis	1010A		1	172450	03/28/14 06:33	LAW	TAL BUF
Total/NA	Analysis	Moisture		1	172140	03/26/14 22:26	CMK	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Certification Summary

Client: Heritage Interactive Services LLC  
 Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

## Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	State Program	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14 *
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15 *
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	04-01-14 *
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14 *
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	03-31-14 *
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	04-01-14 *
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-15
West Virginia DEP	State Program	3	252	03-31-14 *
Wisconsin	State Program	5	998310390	08-31-14

\* Expired certification is currently pending renewal and is considered valid.

# Method Summary

Client: Heritage Interactive Services LLC  
Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	TCLP Mercury	SW846	TAL BUF
1010A	Ignitability, Pensky-Martens Closed Cup Method	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

**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 BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Sample Summary

Client: Heritage Interactive Services LLC  
Project/Site: Delphi Lockport

TestAmerica Job ID: 480-56645-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-56645-1	SOIL	Solid	03/26/14 08:45	03/26/14 10:10

---

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

**Chain of Custody Record**

Temperature on Receipt \_\_\_\_\_

Drinking Water? Yes  No

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client <b>DELTA Thermal</b>		Project Manager <b>Johns FRANDINA</b>		Date <b>3/26/14</b>	Chain of Custody Number <b>262532</b>
Address <b>200 UPPER MOUNTAIN ROAD - BUFFALO</b>		Telephone Number (Area Code)/Fax Number <b>716-870-8108</b>		Lab Number	Page _____ of _____

City <b>LOCKPORT</b>	State <b>NY</b>	Zip Code <b>14094</b>	Site Contact <b>SAME ↑</b>	Lab Contact	Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
Project Name and Location (State) <b>WATER TIE-IN EXCAVATION</b>			Carrier/Waybill Number			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives								
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc2/NaOH			
1 - SOIL	3/26/14	8:45am				+									SEE ATTACHED
2 - "	"	"				+									"
3 - "	"	"				+									"
4 - "	"	"				+									"
PACKED IN ICE															



480-56645 Chain of Custody

Possible Hazard Identification			Sample Disposal			(A fee may be assessed if samples are retained longer than 1 month)		
<input checked="" type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input checked="" type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input checked="" type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For _____ Months	

Turn Around Time Required				QC Requirements (Specify)			
<input type="checkbox"/> 24 Hours	<input type="checkbox"/> 48 Hours	<input checked="" type="checkbox"/> 7 Days	<input type="checkbox"/> 14 Days	<input type="checkbox"/> 21 Days	<input type="checkbox"/> Other _____		

1. Relinquished By <b>Johns Frandina</b>	Date <b>3/26/14</b>	Time <b>10:10</b>	1. Received By <b>[Signature]</b>	Date <b>3/26/14</b>	Time <b>10:10</b>
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

# 1 3.9

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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4/2/2014



Chain of Custody Record

<b>Client Information</b>		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:															
Client Contact:		Phone:		E-Mail:				480-47272-12498.1															
Joshua Barrick				melissa.deyo@testamericainc.com				Page: Page 1 of 1															
Company: Heritage Interactive Services LLC		Due Date Requested:		<b>Analysis Requested</b>						Job #:													
Address: 3719 W. 96th Street		TAT Requested (days):		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1010A - Flashpoint	6010C, 7470A, 8270D	8082A - PCBs	8260C - TCLP Volatiles	Total Number of containers	<b>Preservation Codes:</b>												
City: Indianapolis		PO #: Purchase Order not required									A - HCL		M - Hexane										
State, Zip: IN, 46268		WO #:									B - NaOH		N - None										
Phone:		Project #: 48004870									C - Zn Acetate		O - AsNaO2										
Email: jbarrick@heritage-interactive.com		SSOW#:									D - Nitric Acid		P - Na2O4S										
Project Name: Delphi Lockport				E - NaHSO4		Q - Na2SO3																	
Site:				F - MeOH		R - Na2S2SO3																	
				G - Amchlor		S - H2SO4																	
				H - Ascorbic Acid		T - TSP Dodecahydrate																	
				I - Ice		U - Acetone																	
				J - DI Water		V - MCAA																	
				K - EDTA		W - ph 4-5																	
				L - EDA		Z - other (specify)																	
								Other:															
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1010A - Flashpoint	6010C, 7470A, 8270D	8082A - PCBs	8260C - TCLP Volatiles	Total Number of containers	<b>Special Instructions/Note:</b>										
					Solid	X	X	N	N	N	N	X											
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>																	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																	
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:																	
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:											
Relinquished by:				Date/Time:				Company:				Received by:				Date/Time:				Company:			
Relinquished by:				Date/Time:				Company:				Received by:				Date/Time:				Company:			
Relinquished by:				Date/Time:				Company:				Received by:				Date/Time:				Company:			
Custody Seals Intact:		Custody Seal No.:						Cooler Temperature(s) °C and Other Remarks:															
Δ Yes Δ No																							

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## Login Sample Receipt Checklist

Client: Heritage Interactive Services LLC

Job Number: 480-56645-1

**Login Number: 56645**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Robison, Zachary J**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	HIS LLC
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

