

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Edison

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Edison, NJ 08817

Tel: (732)549-3900

TestAmerica Job ID: 460-66189-1

Client Project/Site: Metro Container NPL PA Site (33-64-13000)

For:

WRS Infrastructure & Environment, Inc.

221 Hobbs Street

Suite 108

Tampa, Florida 33619

Attn: Mr. [REDACTED]

Authorized for release by:

11/11/2013 3:13:36 PM

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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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## Definitions/Glossary

Client: WRS Infrastructure & Environment, Inc.  
Project/Site: Metro Container NPL PA Site (33-64-13000)

TestAmerica Job ID: 460-66189-1

### Qualifiers

#### GC Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
X	Surrogate is outside control limits
U	Indicates the analyte was analyzed for but not detected.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: WRS Infrastructure & Environment, Inc.  
Project/Site: Metro Container NPL PA Site (33-64-13000)

TestAmerica Job ID: 460-66189-1

**Job ID: 460-66189-1**

**Laboratory: TestAmerica Edison**

**Narrative**

### CASE NARRATIVE

**Client: WRS Infrastructure & Environment, Inc.**

**Project: Metro Container NPL PA Site (33-64-13000)**

**Report Number: 460-66189-1**

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### **RECEIPT**

The samples were received on 11/6/2013 8:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

#### **POLYCHLORINATED BIPHENYLS**

Samples 460-66189-1 through 460-66189-4 were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082. The samples were prepared on 11/08/2013 and analyzed on 11/08/2013 and 11/10/2013.

DCB Decachlorobiphenyl failed the surrogate recovery criteria low for 460-66189-1. Refer to the QC report for details.

Sample 460-66189-1(10X) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the PCBs analyses.

All other quality control parameters were within the acceptance limits.

#### **PERCENT SOLIDS/PERCENT MOISTURE**

Samples 460-66189-1 through 460-66189-4 were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D). The samples were analyzed on 11/07/2013.

No difficulties were encountered during the %solids/moisture analyses.

All quality control parameters were within the acceptance limits.

## Detection Summary

Client: WRS Infrastructure & Environment, Inc.  
Project/Site: Metro Container NPL PA Site (33-64-13000)

TestAmerica Job ID: 460-66189-1

### Client Sample ID: MC-110613- Steelpipe

Lab Sample ID: 460-66189-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor 1260	12000		990	280	ug/Kg	10		☼	8082	Total/NA
Polychlorinated biphenyls, Total	12000		990	280	ug/Kg	10		☼	8082	Total/NA

### Client Sample ID: MC-110613- Drum Bldg-Drain

Lab Sample ID: 460-66189-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor 1248	730		86	19	ug/Kg	1		☼	8082	Total/NA
Polychlorinated biphenyls, Total	730		86	25	ug/Kg	1		☼	8082	Total/NA

### Client Sample ID: MC-110613- Mound- Top Soil 0-12"

Lab Sample ID: 460-66189-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor 1260	140		77	22	ug/Kg	1		☼	8082	Total/NA
Polychlorinated biphenyls, Total	140		77	22	ug/Kg	1		☼	8082	Total/NA

### Client Sample ID: MC-110613- Mound 12"-36"

Lab Sample ID: 460-66189-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Aroclor 1260	240		78	22	ug/Kg	1		☼	8082	Total/NA
Polychlorinated biphenyls, Total	240		78	22	ug/Kg	1		☼	8082	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: WRS Infrastructure & Environment, Inc.  
Project/Site: Metro Container NPL PA Site (33-64-13000)

TestAmerica Job ID: 460-66189-1

**Client Sample ID: MC-110613- Steelpipe**

**Lab Sample ID: 460-66189-1**

**Date Collected: 11/06/13 11:30**

**Matrix: Solid**

**Date Received: 11/06/13 20:05**

**Percent Solids: 67.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	220	U	990	220	ug/Kg	☼	11/08/13 07:03	11/10/13 22:50	10
Aroclor 1221	220	U	990	220	ug/Kg	☼	11/08/13 07:03	11/10/13 22:50	10
Aroclor 1232	220	U	990	220	ug/Kg	☼	11/08/13 07:03	11/10/13 22:50	10
Aroclor 1242	220	U	990	220	ug/Kg	☼	11/08/13 07:03	11/10/13 22:50	10
Aroclor 1248	220	U	990	220	ug/Kg	☼	11/08/13 07:03	11/10/13 22:50	10
Aroclor 1254	280	U	990	280	ug/Kg	☼	11/08/13 07:03	11/10/13 22:50	10
<b>Aroclor 1260</b>	<b>12000</b>		990	280	ug/Kg	☼	11/08/13 07:03	11/10/13 22:50	10
Aroclor 1262	280	U	990	280	ug/Kg	☼	11/08/13 07:03	11/10/13 22:50	10
Aroclor 1268	280	U	990	280	ug/Kg	☼	11/08/13 07:03	11/10/13 22:50	10
<b>Polychlorinated biphenyls, Total</b>	<b>12000</b>		990	280	ug/Kg	☼	11/08/13 07:03	11/10/13 22:50	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X D	45 - 138				11/08/13 07:03	11/10/13 22:50	10
DCB Decachlorobiphenyl	0	X D	45 - 138				11/08/13 07:03	11/10/13 22:50	10

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Moisture</b>	<b>32.7</b>		1.0	1.0	%			11/07/13 13:35	1
<b>Percent Solids</b>	<b>67.3</b>		1.0	1.0	%			11/07/13 13:35	1

**Client Sample ID: MC-110613- Drum Bldg-Drain**

**Lab Sample ID: 460-66189-2**

**Date Collected: 11/06/13 12:00**

**Matrix: Solid**

**Date Received: 11/06/13 20:05**

**Percent Solids: 77.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	19	U	86	19	ug/Kg	☼	11/08/13 07:03	11/08/13 20:17	1
Aroclor 1221	19	U	86	19	ug/Kg	☼	11/08/13 07:03	11/08/13 20:17	1
Aroclor 1232	19	U	86	19	ug/Kg	☼	11/08/13 07:03	11/08/13 20:17	1
Aroclor 1242	19	U	86	19	ug/Kg	☼	11/08/13 07:03	11/08/13 20:17	1
<b>Aroclor 1248</b>	<b>730</b>		86	19	ug/Kg	☼	11/08/13 07:03	11/08/13 20:17	1
Aroclor 1254	25	U	86	25	ug/Kg	☼	11/08/13 07:03	11/08/13 20:17	1
Aroclor 1260	25	U	86	25	ug/Kg	☼	11/08/13 07:03	11/08/13 20:17	1
Aroclor 1262	25	U	86	25	ug/Kg	☼	11/08/13 07:03	11/08/13 20:17	1
Aroclor 1268	25	U	86	25	ug/Kg	☼	11/08/13 07:03	11/08/13 20:17	1
<b>Polychlorinated biphenyls, Total</b>	<b>730</b>		86	25	ug/Kg	☼	11/08/13 07:03	11/08/13 20:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		45 - 138				11/08/13 07:03	11/08/13 20:17	1
DCB Decachlorobiphenyl	52		45 - 138				11/08/13 07:03	11/08/13 20:17	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Moisture</b>	<b>22.6</b>		1.0	1.0	%			11/07/13 13:35	1
<b>Percent Solids</b>	<b>77.4</b>		1.0	1.0	%			11/07/13 13:35	1

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# Client Sample Results

Client: WRS Infrastructure & Environment, Inc.  
Project/Site: Metro Container NPL PA Site (33-64-13000)

TestAmerica Job ID: 460-66189-1

**Client Sample ID: MC-110613- Mound- Top Soil 0-12"**

**Lab Sample ID: 460-66189-3**

**Date Collected: 11/06/13 15:00**

**Matrix: Solid**

**Date Received: 11/06/13 20:05**

**Percent Solids: 87.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	17	U	77	17	ug/Kg	☼	11/08/13 07:03	11/08/13 20:33	1
Aroclor 1221	17	U	77	17	ug/Kg	☼	11/08/13 07:03	11/08/13 20:33	1
Aroclor 1232	17	U	77	17	ug/Kg	☼	11/08/13 07:03	11/08/13 20:33	1
Aroclor 1242	17	U	77	17	ug/Kg	☼	11/08/13 07:03	11/08/13 20:33	1
Aroclor 1248	17	U	77	17	ug/Kg	☼	11/08/13 07:03	11/08/13 20:33	1
Aroclor 1254	22	U	77	22	ug/Kg	☼	11/08/13 07:03	11/08/13 20:33	1
<b>Aroclor 1260</b>	<b>140</b>		77	22	ug/Kg	☼	11/08/13 07:03	11/08/13 20:33	1
Aroclor 1262	22	U	77	22	ug/Kg	☼	11/08/13 07:03	11/08/13 20:33	1
Aroclor 1268	22	U	77	22	ug/Kg	☼	11/08/13 07:03	11/08/13 20:33	1
<b>Polychlorinated biphenyls, Total</b>	<b>140</b>		77	22	ug/Kg	☼	11/08/13 07:03	11/08/13 20:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		45 - 138	11/08/13 07:03	11/08/13 20:33	1
DCB Decachlorobiphenyl	65		45 - 138	11/08/13 07:03	11/08/13 20:33	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Moisture</b>	<b>12.8</b>		1.0	1.0	%			11/07/13 13:35	1
<b>Percent Solids</b>	<b>87.2</b>		1.0	1.0	%			11/07/13 13:35	1

**Client Sample ID: MC-110613- Mound 12"-36"**

**Lab Sample ID: 460-66189-4**

**Date Collected: 11/06/13 15:30**

**Matrix: Solid**

**Date Received: 11/06/13 20:05**

**Percent Solids: 85.3**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	18	U	78	18	ug/Kg	☼	11/08/13 07:03	11/08/13 20:49	1
Aroclor 1221	18	U	78	18	ug/Kg	☼	11/08/13 07:03	11/08/13 20:49	1
Aroclor 1232	18	U	78	18	ug/Kg	☼	11/08/13 07:03	11/08/13 20:49	1
Aroclor 1242	18	U	78	18	ug/Kg	☼	11/08/13 07:03	11/08/13 20:49	1
Aroclor 1248	18	U	78	18	ug/Kg	☼	11/08/13 07:03	11/08/13 20:49	1
Aroclor 1254	22	U	78	22	ug/Kg	☼	11/08/13 07:03	11/08/13 20:49	1
<b>Aroclor 1260</b>	<b>240</b>		78	22	ug/Kg	☼	11/08/13 07:03	11/08/13 20:49	1
Aroclor 1262	22	U	78	22	ug/Kg	☼	11/08/13 07:03	11/08/13 20:49	1
Aroclor 1268	22	U	78	22	ug/Kg	☼	11/08/13 07:03	11/08/13 20:49	1
<b>Polychlorinated biphenyls, Total</b>	<b>240</b>		78	22	ug/Kg	☼	11/08/13 07:03	11/08/13 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	134		45 - 138	11/08/13 07:03	11/08/13 20:49	1
DCB Decachlorobiphenyl	77	p	45 - 138	11/08/13 07:03	11/08/13 20:49	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Moisture</b>	<b>14.7</b>		1.0	1.0	%			11/07/13 13:35	1
<b>Percent Solids</b>	<b>85.3</b>		1.0	1.0	%			11/07/13 13:35	1

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## Surrogate Summary

Client: WRS Infrastructure & Environment, Inc.  
Project/Site: Metro Container NPL PA Site (33-64-13000)

TestAmerica Job ID: 460-66189-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB1 (45-138)	DCB2 (45-138)
460-65711-G-3-D MS	Matrix Spike	92	92
460-65711-G-3-E MSD	Matrix Spike Duplicate	97	97
460-66189-1	MC-110613- Steelpipe	0 X D	0 X D
460-66189-2	MC-110613- Drum Bldg-Drain	66	52
460-66189-3	MC-110613- Mound- Top Soil 0-12"	67	65
460-66189-4	MC-110613- Mound 12"-36"	134	77 p
LCS 460-190933/2-A	Lab Control Sample	101	102
MB 460-190933/1-A	Method Blank	91	92
<b>Surrogate Legend</b>			
DCB = DCB Decachlorobiphenyl			



# QC Sample Results

Client: WRS Infrastructure & Environment, Inc.  
Project/Site: Metro Container NPL PA Site (33-64-13000)

TestAmerica Job ID: 460-66189-1

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

Lab Sample ID: MB 460-190933/1-A

Matrix: Solid

Analysis Batch: 191031

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 190933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	15	U	67	15	ug/Kg		11/08/13 07:03	11/08/13 17:17	1
Aroclor 1221	15	U	67	15	ug/Kg		11/08/13 07:03	11/08/13 17:17	1
Aroclor 1232	15	U	67	15	ug/Kg		11/08/13 07:03	11/08/13 17:17	1
Aroclor 1242	15	U	67	15	ug/Kg		11/08/13 07:03	11/08/13 17:17	1
Aroclor 1248	15	U	67	15	ug/Kg		11/08/13 07:03	11/08/13 17:17	1
Aroclor 1254	19	U	67	19	ug/Kg		11/08/13 07:03	11/08/13 17:17	1
Aroclor 1260	19	U	67	19	ug/Kg		11/08/13 07:03	11/08/13 17:17	1
Aroclor 1262	19	U	67	19	ug/Kg		11/08/13 07:03	11/08/13 17:17	1
Aroclor 1268	19	U	67	19	ug/Kg		11/08/13 07:03	11/08/13 17:17	1
Polychlorinated biphenyls, Total	19	U	67	19	ug/Kg		11/08/13 07:03	11/08/13 17:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	91		45 - 138	11/08/13 07:03	11/08/13 17:17	1
DCB Decachlorobiphenyl	92		45 - 138	11/08/13 07:03	11/08/13 17:17	1

Lab Sample ID: LCS 460-190933/2-A

Matrix: Solid

Analysis Batch: 191031

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 190933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	333	403		ug/Kg		121	75 - 150
Aroclor 1016	333	380		ug/Kg		114	75 - 150
Aroclor 1260	333	362		ug/Kg		109	72 - 150
Aroclor 1260	333	365		ug/Kg		109	72 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	101		45 - 138
DCB Decachlorobiphenyl	102		45 - 138

Lab Sample ID: 460-65711-G-3-D MS

Matrix: Solid

Analysis Batch: 191031

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 190933

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	17	U	380	385		ug/Kg	☼	101	75 - 150
Aroclor 1016	17	U	380	427		ug/Kg	☼	112	75 - 150
Aroclor 1260	22	U	380	321		ug/Kg	☼	85	72 - 150
Aroclor 1260	22	U	380	322		ug/Kg	☼	85	72 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	92		45 - 138
DCB Decachlorobiphenyl	92		45 - 138

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## QC Sample Results

Client: WRS Infrastructure & Environment, Inc.  
Project/Site: Metro Container NPL PA Site (33-64-13000)

TestAmerica Job ID: 460-66189-1

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

Lab Sample ID: 460-65711-G-3-E MSD

Matrix: Solid

Analysis Batch: 191031

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 190933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	17	U	379	371		ug/Kg	☼	98	75 - 150	14	30
Aroclor 1016	17	U	379	361		ug/Kg	☼	95	75 - 150	6	30
Aroclor 1260	22	U	379	324		ug/Kg	☼	85	72 - 150	1	30
Aroclor 1260	22	U	379	326		ug/Kg	☼	86	72 - 150	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	97		45 - 138
DCB Decachlorobiphenyl	97		45 - 138

### Method: Moisture - Percent Moisture

Lab Sample ID: 460-66218-A-5 DU

Matrix: Solid

Analysis Batch: 190813

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	13.9		12.2		%		13	20
Percent Solids	86.1		87.8		%		2	20

## QC Association Summary

Client: WRS Infrastructure & Environment, Inc.  
Project/Site: Metro Container NPL PA Site (33-64-13000)

TestAmerica Job ID: 460-66189-1

### GC Semi VOA

#### Prep Batch: 190933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-65711-G-3-D MS	Matrix Spike	Total/NA	Solid	3546	
460-65711-G-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
460-66189-1	MC-110613- Steelpipe	Total/NA	Solid	3546	
460-66189-2	MC-110613- Drum Bldg-Drain	Total/NA	Solid	3546	
460-66189-3	MC-110613- Mound- Top Soil 0-12"	Total/NA	Solid	3546	
460-66189-4	MC-110613- Mound 12"-36"	Total/NA	Solid	3546	
LCS 460-190933/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 460-190933/1-A	Method Blank	Total/NA	Solid	3546	

#### Analysis Batch: 191031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-65711-G-3-D MS	Matrix Spike	Total/NA	Solid	8082	190933
460-65711-G-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	190933
460-66189-2	MC-110613- Drum Bldg-Drain	Total/NA	Solid	8082	190933
460-66189-3	MC-110613- Mound- Top Soil 0-12"	Total/NA	Solid	8082	190933
460-66189-4	MC-110613- Mound 12"-36"	Total/NA	Solid	8082	190933
LCS 460-190933/2-A	Lab Control Sample	Total/NA	Solid	8082	190933
MB 460-190933/1-A	Method Blank	Total/NA	Solid	8082	190933

#### Analysis Batch: 191331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-66189-1	MC-110613- Steelpipe	Total/NA	Solid	8082	190933

### General Chemistry

#### Analysis Batch: 190813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-66189-1	MC-110613- Steelpipe	Total/NA	Solid	Moisture	
460-66189-2	MC-110613- Drum Bldg-Drain	Total/NA	Solid	Moisture	
460-66189-3	MC-110613- Mound- Top Soil 0-12"	Total/NA	Solid	Moisture	
460-66189-4	MC-110613- Mound 12"-36"	Total/NA	Solid	Moisture	
460-66218-A-5 DU	Duplicate	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: WRS Infrastructure & Environment, Inc.  
Project/Site: Metro Container NPL PA Site (33-64-13000)

TestAmerica Job ID: 460-66189-1

**Client Sample ID: MC-110613- Steelpipe**

**Lab Sample ID: 460-66189-1**

**Date Collected: 11/06/13 11:30**

**Matrix: Solid**

**Date Received: 11/06/13 20:05**

**Percent Solids: 67.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			190933	11/08/13 07:03	ARA	TAL EDI
Total/NA	Analysis	8082		10	191331	11/10/13 22:50	CBB	TAL EDI
Total/NA	Analysis	Moisture		1	190813	11/07/13 13:35	CJA	TAL EDI

**Client Sample ID: MC-110613- Drum Bldg-Drain**

**Lab Sample ID: 460-66189-2**

**Date Collected: 11/06/13 12:00**

**Matrix: Solid**

**Date Received: 11/06/13 20:05**

**Percent Solids: 77.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			190933	11/08/13 07:03	ARA	TAL EDI
Total/NA	Analysis	8082		1	191031	11/08/13 20:17	CBB	TAL EDI
Total/NA	Analysis	Moisture		1	190813	11/07/13 13:35	CJA	TAL EDI

**Client Sample ID: MC-110613- Mound- Top Soil 0-12"**

**Lab Sample ID: 460-66189-3**

**Date Collected: 11/06/13 15:00**

**Matrix: Solid**

**Date Received: 11/06/13 20:05**

**Percent Solids: 87.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			190933	11/08/13 07:03	ARA	TAL EDI
Total/NA	Analysis	8082		1	191031	11/08/13 20:33	CBB	TAL EDI
Total/NA	Analysis	Moisture		1	190813	11/07/13 13:35	CJA	TAL EDI

**Client Sample ID: MC-110613- Mound 12"-36"**

**Lab Sample ID: 460-66189-4**

**Date Collected: 11/06/13 15:30**

**Matrix: Solid**

**Date Received: 11/06/13 20:05**

**Percent Solids: 85.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			190933	11/08/13 07:03	ARA	TAL EDI
Total/NA	Analysis	8082		1	191031	11/08/13 20:49	CBB	TAL EDI
Total/NA	Analysis	Moisture		1	190813	11/07/13 13:35	CJA	TAL EDI

## Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TestAmerica Edison

## Certification Summary

Client: WRS Infrastructure & Environment, Inc.  
Project/Site: Metro Container NPL PA Site (33-64-13000)

TestAmerica Job ID: 460-66189-1

### Laboratory: TestAmerica Edison

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-14
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	04-30-14
New Jersey	NELAP	2	12028	06-30-14
New York	NELAP	2	11452	04-01-14
Pennsylvania	NELAP	3	68-00522	02-28-14
Rhode Island	State Program	1	LAO00132	12-30-13
USDA	Federal		NJCA-003-08	03-11-14

## Method Summary

Client: WRS Infrastructure & Environment, Inc.  
Project/Site: Metro Container NPL PA Site (33-64-13000)

TestAmerica Job ID: 460-66189-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI

### 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 EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

## Sample Summary

Client: WRS Infrastructure & Environment, Inc.  
Project/Site: Metro Container NPL PA Site (33-64-13000)

TestAmerica Job ID: 460-66189-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-66189-1	MC-110613- Steelpipe	Solid	11/06/13 11:30	11/06/13 20:05
460-66189-2	MC-110613- Drum Bldg-Drain	Solid	11/06/13 12:00	11/06/13 20:05
460-66189-3	MC-110613- Mound- Top Soil 0-12"	Solid	11/06/13 15:00	11/06/13 20:05
460-66189-4	MC-110613- Mound 12"-36"	Solid	11/06/13 15:30	11/06/13 20:05

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## CHAIN OF CUSTODY RE



1008 W. Ninth Avenue  
King of Prussia, PA 19406  
(610) 337-9992  
FAX (610) 337-9939

460-66189 Chain of Custody

Client: WRS Compass - Metro		Site		Bill To: WRS Compass		TAT: STD. 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY <24 HRS.	
Address: 200 Pine St.		Address: 221 Hobbs St Suite 108		Received: <input checked="" type="checkbox"/> Price <input type="checkbox"/> ambient		DATE RESULTS NEEDED: 11/11/13	
Phone # (610) 485-6367		State & Program: PA / CERCLA		Phone # (610) 813-684-4400		Deliverable Package: <input type="checkbox"/> NO <input type="checkbox"/> YES	
E-mail: Tconvey@wrscompass.com		Fax #:		Terms: Net 30 days		Temp. Upon Receipt: 66/185	
Project Name: Metro Containers		Project #/PO#: 33-00-1920		Project #/PO#: 33619		If Yes, please explain	
Sampler: [REDACTED]		DATE COLLECTED		TIME COLLECTED		SAMPLE MATRIX	
FIELD ID, LOCATION		DATE COLLECTED		TIME COLLECTED		SAMPLE MATRIX	
1 MC-110613 - Steel Pipe		11/6/13		11:30		Soil	
2 MC-110613 - Drum Body - Drum		11/6/13		12:00		Soil	
3 MC-110613 - mixed-top soil		11/6/13		15:00		Soil	
4 MC-110613 - mixed-top soil		11/6/13		15:30		Soil	
5 12"-36"		11/6/13		15:30		Soil	
6		PID:					
7		PID:					
8		PID:					
9		PID:					
10		PID:					
REINQUISHED		DATE		TIME		REINQUISHED	
REINQUISHED		DATE		TIME		REINQUISHED	
COMMENTS:		DATE		TIME		REINQUISHED	





## Login Sample Receipt Checklist

Client: WRS Infrastructure & Environment, Inc.

Job Number: 460-66189-1

Login Number: 66189

List Source: TestAmerica Edison

List Number: 1

Creator: Hall, Alonzo

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Refer to Job Narrative for details.
Sample custody seals, if present, are intact.	N/A	
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	1.1° C IR #5
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.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.