



HALEY & ALDRICH, INC.
6500 Rockside Road
Suite 200
Cleveland, OH 44131
216.739.0555

MEMORANDUM

16 November 2017
File No. 129862-002

TO: Pam Barnett

FROM: Haley & Aldrich, Inc.
Ban Aragona
Lloyd Ross

SUBJECT: RCRA Generator Closure Documentation
Above Ground Storage Tanks RACER Trust Elyria
1400 Lowell St
Elyria, Ohio

The purpose of this memorandum is to document the generator closure activities completed at the RACER Trust Elyria Site (Site) located at 1400 Lowell Street, Elyria, Ohio. A RCRA Tank System was historically used to manage leachate at the Site. These tanks were installed and operated as short-term storage units (less than 90-days) for collected hazardous waste leachates from the adjacent former landfill, as shown in **Figure 1**.

Based on change in operations, the ASTs are no longer required to manage the leachate from the landfill. Therefore, the tanks and secondary containment were decontaminated to allow for generator closure and removal of the tank system from the Site. The decontamination of the tank system was completed in accordance with performance standards in Ohio Administrative Code (3745-66-11).

This tank system includes two ASTs with a 1,000-gallon capacity. Each tank is constructed of double-walled fiberglass reinforced plastic that is designed for the storage of liquid containing heavy metals contamination. The ASTs are equipped with a secondary containment system that includes a continuously bermed 12-inch, reinforced concrete pad underlain by a polyethylene liner.

Closure Activities

The closure activities included cleaning of tanks, associated piping and secondary containment and collection of samples from the collected solids and cleaning water.

Environmental Management Specialists (EMS) of Cleveland, Ohio performed the AST cleaning. The tanks and associated piping, including approximately 300 feet of influent piping, was jet cleaned and rinsed with high-pressure hot water. Similarly, the concrete of the secondary containment was rinsed,

scrubbed and high-pressure cleaned and rinsed with hot water. Solids and the cleaning and rinse water was containerized for disposal. The interior of the ASTs was triple rinsed with high pressure hot water. Rinsate liquid was removed and containerized for disposal.

Photographs of the closure activities are provided in **Appendix A**.

Sampling

Tank cleaning residuals generated during tank cleaning activities were sampled on May 16, 2017. The tank residuals sample, 0171-051617-1400, was analyzed for toxicity characteristic leaching procedure (TCLP) VOCs, TCLP SVOCs, TCLP Metals, TCLP Mercury total cyanide, and total sulfide in accordance with EPA SW-846 Methods 8260B, 8270C, 6010C, 7470A, 9012B and 9034, respectively. The final rinsate sample, 0171-051617-1330, was analyzed for total metals and total cyanide in accordance with EPA SW-846 Methods 7470A and 9012B, respectively. These data were used for disposal of the material.

On June 18, 2017, a clean rinse of the tank system was completed and a final rinse water and rinsate samples were collected to verify decontamination of the tank systems. Both samples, 0171-061917-1900 and 0171-061917-1915, were analyzed for total metals (ICP) and total mercury in accordance with EPA SW-846 Methods 6010C and 7470A respectively.

The tank residual sample was screened against hazardous waste regulatory levels and the final rinsate samples were screened against maximum contamination levels (MCLs) for drinking water quality. **Tables I, II and III** summarize the analytical data reported for these samples. Laboratory analytical reports are provided in **Appendix B**. Samples collected during the closure activities were either below applicable screening criteria or non-detect.

Based on the final rinsate sample results, the tanks system has been adequately decontaminated and can be decommissioned and disposed of accordingly.

Waste Handling

Approximately 318 gallons of rinsate from tank cleaning activities was collected and transported off Site by Vickery Transportation, Inc. and properly disposed at Vickery Environmental, Inc. located at 3956 State Route 412, Vickery, Ohio 43464. Waste manifests for the rinsate disposed off Site are provided in **Appendix C**. A generator waste profile was created by Chemical Waste Management, Inc. and is provided in **Appendix D**.

Attachments:

Figure I – AST Location Plan
Table I – Tank Sample Analytical Results
Table II – Rinsate Sample Analytical Results
Table III – Water and Rinsate Sample Analytical Results
Appendix A – Photographs
Appendix B – Analytical Reports
Appendix C – Waste Manifests
Appendix D – Waste Profile

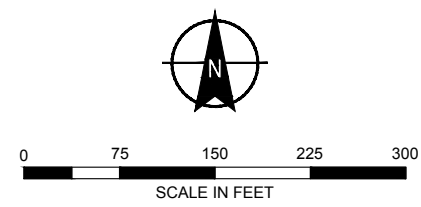
FIGURES



LEGEND

NOTES

1.



RACER TRUST ELYRIA
1400 LOWELL STREET
ELYRIA, OH 44035

AST LOCATION PLAN

SCALE: AS SHOWN
SEPTEMBER 2017

FIGURE 1

TABLES

TABLE I
SUMMARY OF ANALYTICAL RESULTS
RACER ELYRIA
ELYRIA, OH

Location	Hazardous Waste	Tanks
Sample Date	Regulatory	05/16/2017
Sample Name	Levels	0171-051617-1400
Inorganic Compounds (mg/kg)		
Cyanide	-	ND (0.1) F2F1
Sulfide	-	ND (8.7) F1
Inorganic Compounds (ug/L)		
Arsenic	5000	ND (75)
Barium	100000	170 J
Cadmium	1000	ND (20)
Chromium	5000	ND (50)
Lead	5000	ND (50)
Mercury	200	ND (0.2)
Selenium	1000	ND (100)
Silver	5000	ND (50)
Other		
Density (g/cm3)	-	2.36
Burn Rate (mm/sec)	-	ND (2.2)
Specific gravity (none)	-	2.37
pH (lab) (SU)	-	8.5 HF
Semi-Volatile Organic Compounds (ug/L)		
1,4-Dichlorobenzene	7500	ND (10)
2,4,5-Trichlorophenol	400000	ND (10)
2,4,6-Trichlorophenol	2000	ND (10)
2,4-Dinitrotoluene	130	ND (2)
2-Methylphenol (o-Cresol)	200000	ND (10)
3&4-Methylphenol	-	ND (10)
4-Methylphenol	200000	ND (10)
Hexachlorobenzene	130	ND (1)
Hexachlorobutadiene	500	ND (2)
Hexachloroethane	3000	ND (1) *
Nitrobenzene	2000	ND (1)
Pentachlorophenol	100000	ND (30)
Phenol	-	ND (10)
Pyridine	5000	ND (10)
Volatile Organic Compounds (ug/L)		
1,1-Dichloroethene	700	ND (10)
1,2-Dichloroethane	500	ND (10)
2-Butanone (Methyl Ethyl Ketone)	200000	ND (50)
Benzene	500	ND (10)
Carbon tetrachloride	500	ND (10)
Chlorobenzene	100000	ND (10)
Chloroform (Trichloromethane)	6000	ND (10)
Tetrachloroethene	700	ND (10)
Trichloroethene	500	ND (10)
Vinyl chloride	200	ND (10)

Notes:

1. ND (#): Not detected above reporting limit.
2. Results in **bold** are detected.
3. Lab qualifiers defined as follows:
 - *: LCS or LCSD is outside acceptance limits.
 - J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 - HF: Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
 - F1: MS and/or MSD Recovery is outside acceptance limits.
 - F2: MS/MSD RPD exceeds control limits
4. Results in **red** exceed Hazardous Waste Regulatory Levels.

TABLE II
SUMMARY OF ANALYTICAL RESULTS
RACER ELYRIA
ELYRIA, OH

Location	Rinsate
Sample Date	05/16/2017
Sample Name	MCLs 0171-051617-1330
Inorganic Compounds (ug/L)	
Barium	2000 37 J
Calcium	- 36000
Chromium	100 7.6 J
Cyanide	200 24
Iron	- 1300
Magnesium	- 9200
Manganese	- 40
Nickel	- ND (40)
Potassium	- 16000
Sodium	- 14000
Other (ug/L)	
Chloride	- 27000 F1
Sulfate	- 56000 F1

Notes:

1. ND (#): Not detected above reporting limit.
2. Results in **bold** are detected.
3. Lab qualifiers defined as follows:
 - *: LCS or LCSD is outside acceptance limits.
 - J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 - HF: Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
 - F1: MS and/or MSD Recovery is outside acceptance limits.
 - F2: MS/MSD RPD exceeds control limits
4. Results in **red** exceed MCLs.

TABLE III
SUMMARY OF ANALYTICAL RESULTS
RACER ELYRIA
ELYRIA, OH

Location	Source Water	Rinsate
Sample Date	6/19/2017	6/19/2017
Sample Name	MCLs	0171-061917-1900 0171-061917-1915
Inorganic Compounds (ug/L)		
Arsenic	10	ND (15)
Barium	2000	ND (200)
Cadmium	5.0	ND(4.0)
Chromium	100	ND (10)
Lead	15	ND(10)
Selenium	50	ND (20)
Silver	-	ND (10)
Other (ug/L)		
Mercury	2	ND (0.2)

Notes:

1. ND (#): Not detected above reporting limit.
2. Results in **bold** are detected.
3. Lab qualifiers defined as follows:
 - *: LCS or LCSD is outside acceptance limits.
 - J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 - HF: Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
 - F1: MS and/or MSD Recovery is outside acceptance limits.
 - F2: MS/MSD RPD exceeds control limits
4. Results in **red** exceed MCLs.

APPENDIX A

Photographs



Photo #1: AST shown inside building



Photo #2: AST Interior



Photo #3: Concrete pad of secondary containment system



Photo #4: EMS removes liquids from AST



Photo #5: EMS Power washing interior of AST



Photo #6: Vickery transporting rinsate off Site



Photo #7: Termination of electrical feed



Photo #8: Influent piping cut and removed

APPENDIX B

Laboratory Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-81262-1

Client Project/Site: Racer - Elyria, Ohio

For:

Haley & Aldrich, Inc.

3840 Packard Road

Suite 100

Ann Arbor, Michigan 48108-2280

Attn: Ban Aragona

Denise Pohl

Authorized for release by:

7/5/2017 3:37:17 PM

Denise Pohl, Project Manager II

(330)966-9789

denise.pohl@testamericainc.com

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Visit us at:

www.testamericainc.com

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: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 240-81262-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 240-81262-1

Job ID: 240-81262-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Haley & Aldrich, Inc.

Project: Racer - Elyria, Ohio

Report Number: 240-81262-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 6/20/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 21.8° C.

TOTAL METALS (ICP)

Samples 0171-061917-1900 (240-81262-1) and 0171-061917-1915 (240-81262-2) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 06/22/2017 and analyzed on 06/23/2017.

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

TOTAL MERCURY

Samples 0171-061917-1900 (240-81262-1) and 0171-061917-1915 (240-81262-2) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 06/28/2017.

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

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 240-81262-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI

Protocol References:

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: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 240-81262-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-81262-1	0171-061917-1900	Water	06/19/17 19:00	06/20/17 09:30
240-81262-2	0171-061917-1915	Water	06/19/17 19:15	06/20/17 09:30

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Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 240-81262-1

Client Sample ID: 0171-061917-1900

Lab Sample ID: 240-81262-1

No Detections.

Client Sample ID: 0171-061917-1915

Lab Sample ID: 240-81262-2

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 240-81262-1

Client Sample ID: 0171-061917-1900

Lab Sample ID: 240-81262-1

Date Collected: 06/19/17 19:00

Matrix: Water

Date Received: 06/20/17 09:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10	U	10	1.8	ug/L		06/22/17 22:30	06/23/17 19:00	1
Arsenic	15	U	15	4.4	ug/L		06/22/17 22:30	06/23/17 19:00	1
Barium	200	U	200	8.6	ug/L		06/22/17 22:30	06/23/17 19:00	1
Cadmium	4.0	U	4.0	1.8	ug/L		06/22/17 22:30	06/23/17 19:00	1
Chromium	10	U	10	3.3	ug/L		06/22/17 22:30	06/23/17 19:00	1
Lead	10	U	10	4.1	ug/L		06/22/17 22:30	06/23/17 19:00	1
Selenium	20	U	20	4.4	ug/L		06/22/17 22:30	06/23/17 19:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.17	ug/L		06/28/17 12:55	06/28/17 15:05	1

Client Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 240-81262-1

Client Sample ID: 0171-061917-1915

Lab Sample ID: 240-81262-2

Date Collected: 06/19/17 19:15

Matrix: Water

Date Received: 06/20/17 09:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10	U	10	1.8	ug/L		06/22/17 22:30	06/23/17 19:04	1
Arsenic	15	U	15	4.4	ug/L		06/22/17 22:30	06/23/17 19:04	1
Barium	200	U	200	8.6	ug/L		06/22/17 22:30	06/23/17 19:04	1
Cadmium	4.0	U	4.0	1.8	ug/L		06/22/17 22:30	06/23/17 19:04	1
Chromium	10	U	10	3.3	ug/L		06/22/17 22:30	06/23/17 19:04	1
Lead	10	U	10	4.1	ug/L		06/22/17 22:30	06/23/17 19:04	1
Selenium	20	U	20	4.4	ug/L		06/22/17 22:30	06/23/17 19:04	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.17	ug/L		06/28/17 12:55	06/28/17 15:06	1



QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 240-81262-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 460-445287/1-A
Matrix: Water
Analysis Batch: 445450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 445287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10	U	10	1.8	ug/L		06/22/17 22:30	06/23/17 17:03	1
Arsenic	15	U	15	4.4	ug/L		06/22/17 22:30	06/23/17 17:03	1
Barium	200	U	200	8.6	ug/L		06/22/17 22:30	06/23/17 17:03	1
Cadmium	4.0	U	4.0	1.8	ug/L		06/22/17 22:30	06/23/17 17:03	1
Chromium	10	U	10	3.3	ug/L		06/22/17 22:30	06/23/17 17:03	1
Lead	10	U	10	4.1	ug/L		06/22/17 22:30	06/23/17 17:03	1
Selenium	20	U	20	4.4	ug/L		06/22/17 22:30	06/23/17 17:03	1

Lab Sample ID: LCS 460-445287/2-A
Matrix: Water
Analysis Batch: 445450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 445287

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	50.0	46.9		ug/L		94	80 - 120
Arsenic	2000	1940		ug/L		97	80 - 120
Barium	2000	2050		ug/L		103	80 - 120
Cadmium	50.0	50.4		ug/L		101	80 - 120
Chromium	200	203		ug/L		101	80 - 120
Lead	500	518		ug/L		104	80 - 120
Selenium	2000	1950		ug/L		97	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-446399/1-A
Matrix: Water
Analysis Batch: 446460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 446399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.17	ug/L		06/28/17 12:55	06/28/17 14:38	1

Lab Sample ID: LCS 460-446399/2-A
Matrix: Water
Analysis Batch: 446460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 446399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	1.00	0.918		ug/L		92	80 - 120

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 240-81262-1

Metals

Prep Batch: 445287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-81262-1	0171-061917-1900	Total/NA	Water	3010A	
240-81262-2	0171-061917-1915	Total/NA	Water	3010A	
MB 460-445287/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-445287/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 445450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-81262-1	0171-061917-1900	Total/NA	Water	6010C	445287
240-81262-2	0171-061917-1915	Total/NA	Water	6010C	445287
MB 460-445287/1-A	Method Blank	Total/NA	Water	6010C	445287
LCS 460-445287/2-A	Lab Control Sample	Total/NA	Water	6010C	445287

Prep Batch: 446399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-81262-1	0171-061917-1900	Total/NA	Water	7470A	
240-81262-2	0171-061917-1915	Total/NA	Water	7470A	
MB 460-446399/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-446399/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 446460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-81262-1	0171-061917-1900	Total/NA	Water	7470A	446399
240-81262-2	0171-061917-1915	Total/NA	Water	7470A	446399
MB 460-446399/1-A	Method Blank	Total/NA	Water	7470A	446399
LCS 460-446399/2-A	Lab Control Sample	Total/NA	Water	7470A	446399

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 240-81262-1

Client Sample ID: 0171-061917-1900

Date Collected: 06/19/17 19:00

Date Received: 06/20/17 09:30

Lab Sample ID: 240-81262-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			445287	06/22/17 22:30	GAE	TAL EDI
Total/NA	Analysis	6010C		1	445450	06/23/17 19:00	CDC	TAL EDI
Total/NA	Prep	7470A			446399	06/28/17 12:55	RBS	TAL EDI
Total/NA	Analysis	7470A		1	446460	06/28/17 15:05	RBS	TAL EDI

Client Sample ID: 0171-061917-1915

Date Collected: 06/19/17 19:15

Date Received: 06/20/17 09:30

Lab Sample ID: 240-81262-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			445287	06/22/17 22:30	GAE	TAL EDI
Total/NA	Analysis	6010C		1	445450	06/23/17 19:04	CDC	TAL EDI
Total/NA	Prep	7470A			446399	06/28/17 12:55	RBS	TAL EDI
Total/NA	Analysis	7470A		1	446460	06/28/17 15:06	RBS	TAL EDI

Laboratory References:

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

Accreditation/Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 240-81262-1

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-18
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-18
Illinois	NELAP	5	200004	07-31-17 *
Kansas	NELAP	7	E-10336	01-31-18
Kentucky (UST)	State Program	4	58	02-23-18
Kentucky (WW)	State Program	4	98016	12-31-17
Minnesota	NELAP	5	039-999-348	12-31-17
Minnesota (Petrofund)	State Program	1	3506	07-31-17 *
Nevada	State Program	9	OH-000482008A	07-31-17 *
New Jersey	NELAP	2	OH001	06-30-18
New York	NELAP	2	10975	03-31-18
Ohio VAP	State Program	5	CL0024	09-14-17 *
Oregon	NELAP	10	4062	02-23-18
Pennsylvania	NELAP	3	68-00340	08-31-17 *
Texas	NELAP	6	T104704517-15-5	08-31-17 *
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-17 *
Washington	State Program	10	C971	01-12-18
West Virginia DEP	State Program	3	210	12-31-17
Wisconsin	State Program	5	999518190	08-31-17 *

Laboratory: TestAmerica Edison

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-17
New Jersey	NELAP	2	12028	06-30-18
New York	NELAP	2	11452	04-01-18
Pennsylvania	NELAP	3	68-00522	02-28-18
Rhode Island	State Program	1	LAO00132	12-30-17
USDA	Federal		NJCA-003-08	06-13-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Canton

218/21.8

Client Information Company: Haley & Aldrich, Inc. Address: 6500 Rockside Road Suite 200 City: Cleveland State, Zip: OH, 44131 Phone: 734-454-4917(Tel) 734-454-1233(Fax) Email: accorrell@haleyaldrich.com Project Name: Racer - Elyria, Ohio Site:		Lab PM: POHL, Denise E-Mail: denise.pohl@testamericainc.com Carrier Tracking No(s): Lab No: 460-85353-53395.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): STD PO #: 41753-005 WO #:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Sample Identification 0171-061917-1900 0171-061917-1915		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> X Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> X Total Number of containers:	
Sample Date 6/19/17 1915		Sample Time 1900 1915	
Sample Type G G		Matrix W - water, S - solid, O - waste soil W W	
Sample Date 6/19/17 1915		Sample Time 1900 1915	
Sample Type G G		Matrix W - water, S - solid, O - waste soil W W	
Special Instructions/Note: Source Water Final Rinse etc		Special Instructions/Note: Source Water Final Rinse etc	
Possible Hazard Identification <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 Deliverable Requested: I, II, III, IV, Other (specify)			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions/OC Requirements:			
Empty Kit Relinquished by: Relinquished by: T. Corcell H&A Date/Time: 6/19/17 @ 2030 Relinquished by: Date/Time:		Method of Shipment: Received by: [Signature] Date/Time: 6/20/17 970 Company: TA Received by: Date/Time: Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	

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Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
EB-AUG-20170607	240-80625-D-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
EB-SPOON-20170607	240-80625-G-2	Plastic 500ml - with Nitric Acid	<2	_____	_____

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

0.5 / 0.5
1-3 / 1-3

Client Information Client Contact: David Miller Company: Stantec Consulting Corp. Address: 2321 Club Meridian Drive Suite E City: Okemos State, Zip: MI, 48864 Phone: (517) 349-9499 Email: david.miller@stantec.com		Lab PM: Howell, Leslie E-Mail: leslie.howell@testamericainc.com		COC No: 240-43577-18975.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): Standard PO #: Purchase Order not required WO #:		Carrier Tracking No(s):		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Project #: 24018459 Site: 213202036 Project Name: Chevron BDG Company (Former Harshaw Chem)		Analysis Requested 6010B, 6020, 7470A 8260B - (MOD) TCL OLM03, 1/4, 2 Volatile Analyte L 8270C - (MOD) OLM03, 1/4, 2 Semivolatile Analyte L 9056A, 28D - (MOD) Pick List 8002 - (MOD) PCB 7 Arclors 6010B, 7470A, 8260B, 8270C 9040B - pH 1010A - Local Method		Total Number of Containers: 7 Special Instructions/Note:	
Sample Identification P2-3 1A10-MW0016 1A10-MW0017 1A10-MW0018 1A10-MW0019 DYP-1 EB-1 Trip Blank		Sample Date 6/20/17 11:39 13:08 14:38 16:20 18:05 15:20		Sample Time 11:39 13:08 14:38 16:20 18:05 15:20	
Matrix (W=water, S=solid, O=wastobtl, BT=Tissue, A=air)		Sample Type (C=Comp, G=grab)		Preservation Code	
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		240-81282 Chain of Custody	
Sample Date 6/20/17		Sample Time 11:39		Matrix Water	
Sample Date 6/20/17		Sample Time 13:08		Matrix Water	
Sample Date 6/20/17		Sample Time 14:38		Matrix Water	
Sample Date 6/20/17		Sample Time 16:20		Matrix Water	
Sample Date 6/20/17		Sample Time 18:05		Matrix Water	
Sample Date 6/20/17		Sample Time 15:20		Matrix Water	
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Login # : 81282

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Client SANTEC Site Name _____ Cooler unpacked by: POP
Cooler Received on 6-21-17 Opened on 6-21-17
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____
Receipt After-hours: Drop-off Date/Time _____ **Storage Location** _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box _____ Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None _____ Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None _____

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN# IR-8 (CF -0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN #36 (CF +0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
-Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No 6-21-17 POP
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
If yes, Questions 11-15 have been checked at the originating laboratory.

11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC697954
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA Larger than this.
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
15. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: _____

DID NOT RECEIVE TB. Found 6/21/17 PM

17. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
PZ-3	240-81282-E-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
1A10-MW0016	240-81282-E-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
1A10-MW0017	240-81282-E-3	Plastic 500ml - with Nitric Acid	<2	_____	_____
1A10-MW0018	240-81282-E-4	Plastic 500ml - with Nitric Acid	<2	_____	_____
1A10-MW0019	240-81282-E-5	Plastic 500ml - with Nitric Acid	<2	_____	_____
DUP-1	240-81282-E-6	Plastic 500ml - with Nitric Acid	<2	_____	_____
EB-1	240-81282-E-7	Plastic 500ml - with Nitric Acid	<2	_____	_____

TestAmerica Canton
 4101 Shuffel Street NW
 North Canton, OH 44720
 Phone (330) 497-9396 Fax (330) 497-0772

Chain of Custody Record



TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)

Client Contact: **Denise Pohl** Lab P.M.: **Denise Pohl**
 Shipping/Receiving: **denise.pohl@testamericainc.com** E-Mail: **denise.pohl@testamericainc.com**
 Company: **TestAmerica Laboratories, Inc.** Accreditations Required (See note):
 Address: **7777 New Durham Road, Edison, NJ 08817** State of Origin: **Ohio**
 City: **Edison** Job #: **240-81262-1**
 Phone: **732-549-3900(Tel) 732-549-3679(Fax)** Page: **Page 1 of 1**
 Email: **WO #:** Project #: **46020356** SOW#: **SSOW#:**

Due Date Requested: **6/30/2017** Analysis Requested:
 TAT Requested (days): **7**

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C/3010A (MOD) RCRA 8 Analyte List	7470A/7470A_Prep Mercury	Total Number of containers	Special Instructions/Note:
0171-061917-1900 (240-81262-1)	6/19/17	19:00	Water	Water	X	X			1	
0171-061917-1915 (240-81262-2)	6/19/17	19:15	Water	Water	X	X			1	

Possible Hazard Identification
 Deliverable Requested: **PI, III, IV, Other (specify)** Primary Deliverable Rank: **2**
 Empty Kit Relinquished by: **[Signature]** Date: **6/21/17** Time: **1730**
 Relinquished by: **[Signature]** Date/Time: **6/21/17 1730** Company: **240**
 Relinquished by: **[Signature]** Date/Time: **6/21/17 1730** Company: **240**
 Relinquished by: **[Signature]** Date/Time: **6/21/17 1730** Company: **240**
 Custody Seals Intact: **Yes** Custody Seal No.: **NC CS**
 Cooler Temperature(s) °C and Other Remarks: **3.8°C DRS**

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For **Months**

Special Instructions/Note:
 Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analytes/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 240-81262-1

Login Number: 81262
List Number: 2
Creator: Armbruster, Chris

List Source: TestAmerica Edison
List Creation: 06/22/17 01:22 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
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	3.8°C IR8
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 (excluding tests with immediate HTs)	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-133539-1
Client Project/Site: Racer - Elyria, Ohio

For:
Haley & Aldrich, Inc.
3840 Packard Road
Suite 100
Ann Arbor, Michigan 48108-2280

Attn: Ban Aragona

Denise Pohl

Authorized for release by:
6/1/2017 8:57:38 AM

Denise Pohl, Project Manager II
(330)966-9789
denise.pohl@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.

Metals

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.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.
F2	MS/MSD RPD exceeds control limits
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

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Laboratory: TestAmerica Edison

Narrative

CASE NARRATIVE

Client: Haley & Aldrich, Inc.

Project: Racer - Elyria, Ohio

Report Number: 460-133539-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The D854 Specific Gravity analysis was performed at the TestAmerica Knoxville Laboratory.

TestAmerica Edison attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 5/17/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

TCLP VOLATILE ORGANIC COMPOUNDS (GCMS)

Sample 0171-051617-1400 (460-133539-2) was analyzed for TCLP volatile organic compounds (GCMS) in accordance with EPA SW-846 Methods 1311/8260B. The sample was leached on 05/18/2017 and analyzed on 05/25/2017.

Sample 0171-051617-1400 (460-133539-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 439597 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

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

TCLP SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Case Narrative

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Job ID: 460-133539-1 (Continued)

Laboratory: TestAmerica Edison (Continued)

Sample 0171-051617-1400 (460-133539-2) was analyzed for TCLP semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Methods 1311/8270C. The sample was leached on 05/18/2017, prepared on 05/19/2017 and analyzed on 05/26/2017.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Hexachloroethane failed the recovery criteria high for LCS 460-438125/2-A. Hexachloroethane failed the recovery criteria high for LCSD 460-438125/3-A. Refer to the QC report for details.

Method(s) 8270C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-438125 and analytical batch 460-438659 recovered outside control limits for the following analyte: Hexachloroethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

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

TCLP METALS (ICP)

Sample 0171-051617-1400 (460-133539-2) was analyzed for TCLP metals (ICP) in accordance with EPA SW-846 Methods 1311/6010C. The sample was leached on 05/18/2017, prepared on 05/19/2017 and analyzed on 05/20/2017 and 05/23/2017.

Lead was detected in method blank LB 460-438149/1-B at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

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

TOTAL METALS (ICP)

Sample 0171-051617-1330 (460-133539-1) was analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The sample was prepared and analyzed on 05/31/2017.

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

TCLP MERCURY

Sample 0171-051617-1400 (460-133539-2) was analyzed for TCLP mercury in accordance with EPA SW-846 Methods 1311/7470A. The sample was leached on 05/18/2017, and prepared and analyzed on 05/23/2017.

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

FLASHPOINT

Sample 0171-051617-1400 (460-133539-2) was analyzed for flashpoint in accordance with EPA SW-846 Method 1030. The sample was analyzed on 05/30/2017.

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

TOTAL CYANIDE

Sample 0171-051617-1400 (460-133539-2) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The sample was prepared and analyzed on 05/30/2017.

Cyanide, Total failed the recovery criteria low for the MS of sample 0171-051617-1400MS (460-133539-2) in batch 460-440110. Cyanide, Total failed the recovery criteria low for the MSD of sample 0171-051617-1400MSD (460-133539-2) in batch 460-440110. Cyanide, Total exceeded the RPD limit.

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

TOTAL CYANIDE

Sample 0171-051617-1330 (460-133539-1) was analyzed for total cyanide in accordance with EPA SW-846 Method 9012B. The sample

Case Narrative

Client: Haley & Aldrich, Inc.
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TestAmerica Job ID: 460-133539-1

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Laboratory: TestAmerica Edison (Continued)

was prepared and analyzed on 05/30/2017.

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

TOTAL SULFIDE

Sample 0171-051617-1400 (460-133539-2) was analyzed for total sulfide in accordance with EPA SW-846 Method 9034. The sample was prepared and analyzed on 05/21/2017.

Sulfide failed the recovery criteria low for the MS/MSD of sample 0171-051617-1400MS/MSD (460-133539-2) in batch 460-438817.

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

PH

Sample 0171-051617-1400 (460-133539-2) was analyzed for pH in accordance with EPA SW-846 Method 9045D. The sample was analyzed on 05/30/2017.

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

ANIONS, ION CHROMATOGRAPHY

Sample 0171-051617-1330 (460-133539-1) was analyzed for Anions, Ion Chromatography in accordance with SW-846 Method 9056A_OrgFM. The sample was analyzed on 05/28/2017.

Chloride and Sulfate failed the recovery criteria high for the MS/MSD of sample 0171-051617-1330MS/MSD (460-133539-1) in batch 460-439827.

Sample 0171-051617-1330 (460-133539-1)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method(s) 9056A: The following samples were diluted to bring the concentration of target analytes within the calibration range: 0171-051617-1330 (460-133539-1), (460-133539-A-1 DU), (460-133539-A-1 MS) and (460-133539-A-1 MSD) at 10.0, 10.0, 10.0 and 10.0. Elevated reporting limits (RLs) are provided.

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

SPECIFIC GRAVITY

Sample 0171-051617-1400 (460-133539-2) was analyzed for specific gravity in accordance with ASTM Method D854. The sample was analyzed on 05/20/2017.

Density: The density (or specific gravity) of the samples was determined using SOP number KNOX-WC-0015, based on ASTM Methods D1475 (replaced D1963) and D854. A Hubbard-Carmick type pycnometer is tared on a four-place analytical balance. The pycnometer filled with water is weighed to calibrate the volume at the desired temperature. The pycnometer filled with sample is weighed to determine the weight of the sample at the calibrated volume. The standard temperature for this procedure is 25°C. The density and specific gravity of the material are calculated using the following equations:

$$d(\text{SAMP}) = [C(T) - A] / V(T)$$

Where:

d(SAMP) = Density of the liquid sample at temperature T, g/cm³
C(T) = Weight of pycnometer filled with sample at temperature T, g
A = Weight of pycnometer, g
V(T) = Volume of pycnometer at temperature T, cm³

$$d(\text{SAMP}) = [C(T) - A] / [V(T) - [(D(T) - C(T)) / dH_2O(T)]]$$

Where:

Case Narrative

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Project/Site: Racer - Elyria, Ohio

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Laboratory: TestAmerica Edison (Continued)

d(SAMP) = Density of the solid sample at temperature T, g/cm³

D(T) = Weight of pycnometer filled with water and an aliquot of the sample at temperature T, g

C(T) = Weight of pycnometer partially filled with an aliquot of the sample at temperature T, g

A = Weight of pycnometer, g

dH₂O(T) = Density of pure water at temperature T, g/cm³

V(T) = Volume of pycnometer at temperature T, cm³

$$S(T) = d(\text{SAMP}) / d\text{H}_2\text{O}(T)$$

Where:

S(T) = Specific gravity of the sample at temperature T, unitless

d(SAMP) = Density of the sample at temperature T, g/cm³

dH₂O(T) = Density of pure water at temperature T, g/cm³

T = Temperature of analysis

Conversion factors:

1 lb/gal = 0.1198 g/cm³

1 Kg/cu. m = 0.001 g/cm³

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

Detection Summary

Client: Haley & Aldrich, Inc.
 Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Client Sample ID: 0171-051617-1330

Lab Sample ID: 460-133539-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	27	F1	1.2	0.31	mg/L	10		9056A	Total/NA
Sulfate - DL	56	F1	6.0	1.3	mg/L	10		9056A	Total/NA
Barium	37	J	200	8.6	ug/L	1		6010C	Total/NA
Calcium	36000		5000	350	ug/L	1		6010C	Total/NA
Chromium	7.6	J	10	3.3	ug/L	1		6010C	Total/NA
Iron	1300		150	92	ug/L	1		6010C	Total/NA
Magnesium	9200		5000	310	ug/L	1		6010C	Total/NA
Manganese	40		15	3.1	ug/L	1		6010C	Total/NA
Potassium	16000		5000	170	ug/L	1		6010C	Total/NA
Sodium	14000		5000	410	ug/L	1		6010C	Total/NA
Cyanide, Total	0.024		0.010	0.0020	mg/L	1		9012B	Total/NA

Client Sample ID: 0171-051617-1400

Lab Sample ID: 460-133539-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	170	J	1000	43	ug/L	5		6010C	TCLP
pH	8.5	HF			SU	1		9045D	Total/NA
Corrosivity	8.5	HF			SU	1		9045D	Total/NA
Density	2.36		0.0100	0.0100	g/cm3	1		D854	Total/NA
Specific Gravity	2.37		0.0100	0.0100	NONE	1		D854	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Client Sample ID: 0171-051617-1330

Lab Sample ID: 460-133539-1

Date Collected: 05/16/17 13:30

Matrix: Water

Date Received: 05/17/17 09:30

Method: 9056A - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27	F1	1.2	0.31	mg/L			05/28/17 00:23	10
Sulfate	56	F1	6.0	1.3	mg/L			05/28/17 00:23	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	37	J	200	8.6	ug/L		05/31/17 08:26	05/31/17 14:00	1
Calcium	36000		5000	350	ug/L		05/31/17 08:26	05/31/17 14:00	1
Chromium	7.6	J	10	3.3	ug/L		05/31/17 08:26	05/31/17 14:00	1
Iron	1300		150	92	ug/L		05/31/17 08:26	05/31/17 14:00	1
Magnesium	9200		5000	310	ug/L		05/31/17 08:26	05/31/17 14:00	1
Manganese	40		15	3.1	ug/L		05/31/17 08:26	05/31/17 14:00	1
Nickel	40	U	40	9.0	ug/L		05/31/17 08:26	05/31/17 14:00	1
Potassium	16000		5000	170	ug/L		05/31/17 08:26	05/31/17 14:00	1
Sodium	14000		5000	410	ug/L		05/31/17 08:26	05/31/17 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.024		0.010	0.0020	mg/L		05/30/17 07:00	05/30/17 12:32	1

Client Sample ID: 0171-051617-1400

Lab Sample ID: 460-133539-2

Date Collected: 05/16/17 14:00

Matrix: Solid

Date Received: 05/17/17 09:30

Method: 8260B - TCLP Volatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.010	U	0.010	0.0019	mg/L			05/25/17 07:31	10
2-Butanone	0.050	U	0.050	0.022	mg/L			05/25/17 07:31	10
Carbon tetrachloride	0.010	U	0.010	0.0033	mg/L			05/25/17 07:31	10
Chlorobenzene	0.010	U	0.010	0.0024	mg/L			05/25/17 07:31	10
Chloroform	0.010	U	0.010	0.0022	mg/L			05/25/17 07:31	10
1,2-Dichloroethane	0.010	U	0.010	0.0025	mg/L			05/25/17 07:31	10
1,1-Dichloroethene	0.010	U	0.010	0.0034	mg/L			05/25/17 07:31	10
Tetrachloroethene	0.010	U	0.010	0.0036	mg/L			05/25/17 07:31	10
Trichloroethene	0.010	U	0.010	0.0022	mg/L			05/25/17 07:31	10
Vinyl chloride	0.010	U	0.010	0.0020	mg/L			05/25/17 07:31	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Bromofluorobenzene	93		77 - 124		05/25/17 07:31	10
Dibromofluoromethane (Surr)	107		72 - 131		05/25/17 07:31	10
1,2-Dichloroethane-d4 (Surr)	117		74 - 132		05/25/17 07:31	10
Toluene-d8 (Surr)	96		80 - 120		05/25/17 07:31	10

Method: 8270C - TCLP Semivolatiles - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	0.010	U	0.010	0.00088	mg/L		05/19/17 10:34	05/26/17 13:28	1
Phenol	0.010	U	0.010	0.00041	mg/L		05/19/17 10:34	05/26/17 13:28	1
Pyridine	0.010	U	0.010	0.00094	mg/L		05/19/17 10:34	05/26/17 13:28	1
1,4-Dichlorobenzene	0.010	U	0.010	0.00066	mg/L		05/19/17 10:34	05/26/17 13:28	1
2-Methylphenol	0.010	U	0.010	0.0013	mg/L		05/19/17 10:34	05/26/17 13:28	1
Hexachloroethane	0.0010	U *	0.0010	0.000090	mg/L		05/19/17 10:34	05/26/17 13:28	1

TestAmerica Edison

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Client Sample ID: 0171-051617-1400

Lab Sample ID: 460-133539-2

Date Collected: 05/16/17 14:00

Matrix: Solid

Date Received: 05/17/17 09:30

Method: 8270C - TCLP Semivolatiles - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	0.010	U	0.010	0.00087	mg/L		05/19/17 10:34	05/26/17 13:28	1
Nitrobenzene	0.0010	U	0.0010	0.00049	mg/L		05/19/17 10:34	05/26/17 13:28	1
Hexachlorobutadiene	0.0020	U	0.0020	0.00076	mg/L		05/19/17 10:34	05/26/17 13:28	1
2,4,6-Trichlorophenol	0.010	U	0.010	0.00053	mg/L		05/19/17 10:34	05/26/17 13:28	1
2,4,5-Trichlorophenol	0.010	U	0.010	0.00049	mg/L		05/19/17 10:34	05/26/17 13:28	1
2,4-Dinitrotoluene	0.0020	U	0.0020	0.0010	mg/L		05/19/17 10:34	05/26/17 13:28	1
Hexachlorobenzene	0.0010	U	0.0010	0.00047	mg/L		05/19/17 10:34	05/26/17 13:28	1
Pentachlorophenol	0.030	U	0.030	0.0022	mg/L		05/19/17 10:34	05/26/17 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	100		51 - 108	05/19/17 10:34	05/26/17 13:28	1
Phenol-d5	23		14 - 39	05/19/17 10:34	05/26/17 13:28	1
Terphenyl-d14	90		40 - 148	05/19/17 10:34	05/26/17 13:28	1
2,4,6-Tribromophenol	96		26 - 139	05/19/17 10:34	05/26/17 13:28	1
2-Fluorophenol	38		25 - 58	05/19/17 10:34	05/26/17 13:28	1
2-Fluorobiphenyl	98		45 - 107	05/19/17 10:34	05/26/17 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	50	U	50	9.0	ug/L		05/19/17 22:40	05/20/17 21:15	5
Arsenic	75	U	75	22	ug/L		05/19/17 22:40	05/20/17 21:15	5
Barium	170	J	1000	43	ug/L		05/19/17 22:40	05/20/17 21:15	5
Cadmium	20	U	20	9.2	ug/L		05/19/17 22:40	05/20/17 21:15	5
Chromium	50	U	50	17	ug/L		05/19/17 22:40	05/23/17 11:06	5
Lead	50	U	50	20	ug/L		05/19/17 22:40	05/20/17 21:15	5
Selenium	100	U	100	22	ug/L		05/19/17 22:40	05/20/17 21:15	5

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.17	ug/L		05/23/17 11:34	05/23/17 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Burn Rate	2.20	U	2.20	2.20	mm/sec			05/30/17 15:46	1
Cyanide, Total	0.10	U F2 F1	0.10	0.027	mg/Kg		05/30/17 07:00	05/30/17 12:12	1
Sulfide	8.7	U F1	8.7	3.4	mg/Kg		05/21/17 11:00	05/21/17 16:00	1
pH	8.5	HF			SU			05/30/17 13:51	1
Corrosivity	8.5	HF			SU			05/30/17 13:51	1

Method: D854 - Specific Gravity

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Density	2.36		0.0100	0.0100	g/cm3			05/20/17 00:00	1
Specific Gravity	2.37		0.0100	0.0100	NONE			05/20/17 00:00	1

Surrogate Summary

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method: 8260B - TCLP Volatiles

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(77-124)	(72-131)	(74-132)	(80-120)
LCS 460-439167/3	Lab Control Sample	97	102	112	100
LCS 460-439597/4	Lab Control Sample	96	94	103	95
LCSD 460-439167/4	Lab Control Sample Dup	96	99	107	97
LCSD 460-439597/5	Lab Control Sample Dup	97	94	100	98
MB 460-439167/6	Method Blank	92	102	109	95
MB 460-439597/8	Method Blank	91	93	104	98

Surrogate Legend

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

Method: 8260B - TCLP Volatiles

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	12DCE	TOL
		(77-124)	(72-131)	(74-132)	(80-120)
460-133539-2	0171-051617-1400	93	107	117	96
LB 460-437906/1-A	Method Blank	93	99	107	98

Surrogate Legend

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

Method: 8270C - TCLP Semivolatiles

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ	PHL	TPH	TBP	2FP	FBP
		(51-108)	(14-39)	(40-148)	(26-139)	(25-58)	(45-107)
LCS 460-438125/2-A	Lab Control Sample	92	25	94	118	43	97
LCSD 460-438125/3-A	Lab Control Sample Dup	84	29	105	111	46	89
MB 460-438125/1-A	Method Blank	96	26	89	113	42	92

Surrogate Legend

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

TestAmerica Edison

Surrogate Summary

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method: 8270C - TCLP Semivolatiles

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (51-108)	PHL (14-39)	TPH (40-148)	TBP (26-139)	2FP (25-58)	FBP (45-107)
460-133539-2	0171-051617-1400	100	23	90	96	38	98
LB 460-437940/1-B	Method Blank	101	29	98	109	48	98

Surrogate Legend

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

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method: 8260B - TCLP Volatiles

Lab Sample ID: MB 460-439167/6
Matrix: Solid
Analysis Batch: 439167

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0010	U	0.0010	0.00019	mg/L			05/24/17 22:45	1
2-Butanone	0.0050	U	0.0050	0.0022	mg/L			05/24/17 22:45	1
Carbon tetrachloride	0.0010	U	0.0010	0.00033	mg/L			05/24/17 22:45	1
Chlorobenzene	0.0010	U	0.0010	0.00024	mg/L			05/24/17 22:45	1
Chloroform	0.0010	U	0.0010	0.00022	mg/L			05/24/17 22:45	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00025	mg/L			05/24/17 22:45	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00034	mg/L			05/24/17 22:45	1
Tetrachloroethene	0.0010	U	0.0010	0.00036	mg/L			05/24/17 22:45	1
Trichloroethene	0.0010	U	0.0010	0.00022	mg/L			05/24/17 22:45	1
Vinyl chloride	0.0010	U	0.0010	0.00020	mg/L			05/24/17 22:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Bromofluorobenzene	92		77 - 124		05/24/17 22:45	1
Dibromofluoromethane (Surr)	102		72 - 131		05/24/17 22:45	1
1,2-Dichloroethane-d4 (Surr)	109		74 - 132		05/24/17 22:45	1
Toluene-d8 (Surr)	95		80 - 120		05/24/17 22:45	1

Lab Sample ID: LCS 460-439167/3
Matrix: Solid
Analysis Batch: 439167

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0200	0.0230		mg/L		115	77 - 121
2-Butanone	0.100	0.0955		mg/L		95	64 - 120
Carbon tetrachloride	0.0200	0.0219		mg/L		110	70 - 132
Chlorobenzene	0.0200	0.0201		mg/L		100	80 - 120
Chloroform	0.0200	0.0228		mg/L		114	80 - 120
1,2-Dichloroethane	0.0200	0.0224		mg/L		112	76 - 121
1,1-Dichloroethene	0.0200	0.0228		mg/L		114	74 - 123
Tetrachloroethene	0.0200	0.0209		mg/L		104	78 - 122
Trichloroethene	0.0200	0.0191		mg/L		96	77 - 120
Vinyl chloride	0.0200	0.0225		mg/L		112	62 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Bromofluorobenzene	97		77 - 124
Dibromofluoromethane (Surr)	102		72 - 131
1,2-Dichloroethane-d4 (Surr)	112		74 - 132
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 460-439167/4
Matrix: Solid
Analysis Batch: 439167

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0200	0.0215		mg/L		108	77 - 121	7	30
2-Butanone	0.100	0.101		mg/L		101	64 - 120	5	30
Carbon tetrachloride	0.0200	0.0218		mg/L		109	70 - 132	1	30

TestAmerica Edison

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method: 8260B - TCLP Volatiles (Continued)

Lab Sample ID: LCSD 460-439167/4
Matrix: Solid
Analysis Batch: 439167

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	0.0200	0.0197		mg/L		98	80 - 120	2	30
Chloroform	0.0200	0.0220		mg/L		110	80 - 120	3	30
1,2-Dichloroethane	0.0200	0.0224		mg/L		112	76 - 121	0	30
1,1-Dichloroethene	0.0200	0.0215		mg/L		107	74 - 123	6	30
Tetrachloroethene	0.0200	0.0194		mg/L		97	78 - 122	7	30
Trichloroethene	0.0200	0.0186		mg/L		93	77 - 120	3	30
Vinyl chloride	0.0200	0.0202		mg/L		101	62 - 138	11	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Bromofluorobenzene	96		77 - 124
Dibromofluoromethane (Surr)	99		72 - 131
1,2-Dichloroethane-d4 (Surr)	107		74 - 132
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: MB 460-439597/8
Matrix: Solid
Analysis Batch: 439597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0010	U	0.0010	0.00019	mg/L			05/19/17 10:47	1
2-Butanone	0.0050	U	0.0050	0.0022	mg/L			05/19/17 10:47	1
Carbon tetrachloride	0.0010	U	0.0010	0.00033	mg/L			05/19/17 10:47	1
Chlorobenzene	0.0010	U	0.0010	0.00024	mg/L			05/19/17 10:47	1
Chloroform	0.0010	U	0.0010	0.00022	mg/L			05/19/17 10:47	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00025	mg/L			05/19/17 10:47	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00034	mg/L			05/19/17 10:47	1
Tetrachloroethene	0.0010	U	0.0010	0.00036	mg/L			05/19/17 10:47	1
Trichloroethene	0.0010	U	0.0010	0.00022	mg/L			05/19/17 10:47	1
Vinyl chloride	0.0010	U	0.0010	0.00020	mg/L			05/19/17 10:47	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
Bromofluorobenzene	91		77 - 124		05/19/17 10:47	1
Dibromofluoromethane (Surr)	93		72 - 131		05/19/17 10:47	1
1,2-Dichloroethane-d4 (Surr)	104		74 - 132		05/19/17 10:47	1
Toluene-d8 (Surr)	98		80 - 120		05/19/17 10:47	1

Lab Sample ID: LCS 460-439597/4
Matrix: Solid
Analysis Batch: 439597

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0200	0.0210		mg/L		105	77 - 121
2-Butanone	0.100	0.0807		mg/L		81	64 - 120
Carbon tetrachloride	0.0200	0.0215		mg/L		108	70 - 132
Chlorobenzene	0.0200	0.0200		mg/L		100	80 - 120
Chloroform	0.0200	0.0211		mg/L		106	80 - 120
1,2-Dichloroethane	0.0200	0.0218		mg/L		109	76 - 121
1,1-Dichloroethene	0.0200	0.0205		mg/L		103	74 - 123

TestAmerica Edison

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method: 8260B - TCLP Volatiles (Continued)

Lab Sample ID: LCS 460-439597/4
Matrix: Solid
Analysis Batch: 439597

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	0.0200	0.0192		mg/L		96	78 - 122
Trichloroethene	0.0200	0.0174		mg/L		87	77 - 120
Vinyl chloride	0.0200	0.0241		mg/L		120	62 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Bromofluorobenzene	96		77 - 124
Dibromofluoromethane (Surr)	94		72 - 131
1,2-Dichloroethane-d4 (Surr)	103		74 - 132
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: LCSD 460-439597/5
Matrix: Solid
Analysis Batch: 439597

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0200	0.0215		mg/L		108	77 - 121	2	30
2-Butanone	0.100	0.0834		mg/L		83	64 - 120	3	30
Carbon tetrachloride	0.0200	0.0206		mg/L		103	70 - 132	5	30
Chlorobenzene	0.0200	0.0197		mg/L		99	80 - 120	2	30
Chloroform	0.0200	0.0207		mg/L		103	80 - 120	2	30
1,2-Dichloroethane	0.0200	0.0212		mg/L		106	76 - 121	2	30
1,1-Dichloroethene	0.0200	0.0198		mg/L		99	74 - 123	4	30
Tetrachloroethene	0.0200	0.0201		mg/L		101	78 - 122	5	30
Trichloroethene	0.0200	0.0182		mg/L		91	77 - 120	4	30
Vinyl chloride	0.0200	0.0252		mg/L		126	62 - 138	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Bromofluorobenzene	97		77 - 124
Dibromofluoromethane (Surr)	94		72 - 131
1,2-Dichloroethane-d4 (Surr)	100		74 - 132
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LB 460-437906/1-A
Matrix: Solid
Analysis Batch: 439597

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.010	U	0.010	0.0019	mg/L			05/19/17 11:40	10
2-Butanone	0.050	U	0.050	0.022	mg/L			05/19/17 11:40	10
Carbon tetrachloride	0.010	U	0.010	0.0033	mg/L			05/19/17 11:40	10
Chlorobenzene	0.010	U	0.010	0.0024	mg/L			05/19/17 11:40	10
Chloroform	0.010	U	0.010	0.0022	mg/L			05/19/17 11:40	10
1,2-Dichloroethane	0.010	U	0.010	0.0025	mg/L			05/19/17 11:40	10
1,1-Dichloroethene	0.010	U	0.010	0.0034	mg/L			05/19/17 11:40	10
Tetrachloroethene	0.010	U	0.010	0.0036	mg/L			05/19/17 11:40	10
Trichloroethene	0.010	U	0.010	0.0022	mg/L			05/19/17 11:40	10
Vinyl chloride	0.010	U	0.010	0.0020	mg/L			05/19/17 11:40	10

TestAmerica Edison

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method: 8260B - TCLP Volatiles (Continued)

Lab Sample ID: LB 460-437906/1-A
Matrix: Solid
Analysis Batch: 439597

Client Sample ID: Method Blank
Prep Type: TCLP

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Bromofluorobenzene	93		77 - 124		05/19/17 11:40	10
Dibromofluoromethane (Surr)	99		72 - 131		05/19/17 11:40	10
1,2-Dichloroethane-d4 (Surr)	107		74 - 132		05/19/17 11:40	10
Toluene-d8 (Surr)	98		80 - 120		05/19/17 11:40	10

Method: 8270C - TCLP Semivolatiles

Lab Sample ID: MB 460-438125/1-A
Matrix: Solid
Analysis Batch: 438659

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438125

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
3 & 4 Methylphenol	0.010	U	0.010	0.00088	mg/L		05/19/17 10:34	05/23/17 10:33	1
Phenol	0.010	U	0.010	0.00041	mg/L		05/19/17 10:34	05/23/17 10:33	1
Pyridine	0.010	U	0.010	0.00094	mg/L		05/19/17 10:34	05/23/17 10:33	1
1,4-Dichlorobenzene	0.010	U	0.010	0.00066	mg/L		05/19/17 10:34	05/23/17 10:33	1
2-Methylphenol	0.010	U	0.010	0.0013	mg/L		05/19/17 10:34	05/23/17 10:33	1
Hexachloroethane	0.0010	U	0.0010	0.000090	mg/L		05/19/17 10:34	05/23/17 10:33	1
4-Methylphenol	0.010	U	0.010	0.00087	mg/L		05/19/17 10:34	05/23/17 10:33	1
Nitrobenzene	0.0010	U	0.0010	0.00049	mg/L		05/19/17 10:34	05/23/17 10:33	1
Hexachlorobutadiene	0.0020	U	0.0020	0.00076	mg/L		05/19/17 10:34	05/23/17 10:33	1
2,4,6-Trichlorophenol	0.010	U	0.010	0.00053	mg/L		05/19/17 10:34	05/23/17 10:33	1
2,4,5-Trichlorophenol	0.010	U	0.010	0.00049	mg/L		05/19/17 10:34	05/23/17 10:33	1
2,4-Dinitrotoluene	0.0020	U	0.0020	0.0010	mg/L		05/19/17 10:34	05/23/17 10:33	1
Hexachlorobenzene	0.0010	U	0.0010	0.00047	mg/L		05/19/17 10:34	05/23/17 10:33	1
Pentachlorophenol	0.030	U	0.030	0.0022	mg/L		05/19/17 10:34	05/23/17 10:33	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	96		51 - 108	05/19/17 10:34	05/23/17 10:33	1
Phenol-d5	26		14 - 39	05/19/17 10:34	05/23/17 10:33	1
Terphenyl-d14	89		40 - 148	05/19/17 10:34	05/23/17 10:33	1
2,4,6-Tribromophenol	113		26 - 139	05/19/17 10:34	05/23/17 10:33	1
2-Fluorophenol	42		25 - 58	05/19/17 10:34	05/23/17 10:33	1
2-Fluorobiphenyl	92		45 - 107	05/19/17 10:34	05/23/17 10:33	1

Lab Sample ID: LCS 460-438125/2-A
Matrix: Solid
Analysis Batch: 438659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	0.0800	0.0266		mg/L		33	16 - 43
Pyridine	0.160	0.0787		mg/L		49	16 - 70
1,4-Dichlorobenzene	0.0800	0.0730		mg/L		91	42 - 94
2-Methylphenol	0.0800	0.0470		mg/L		59	43 - 80
Hexachloroethane	0.0800	0.0760	*	mg/L		95	39 - 92
4-Methylphenol	0.0800	0.0430		mg/L		54	34 - 78
Nitrobenzene	0.0800	0.0707		mg/L		88	56 - 106

TestAmerica Edison

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method: 8270C - TCLP Semivolatiles (Continued)

Lab Sample ID: LCS 460-438125/2-A
Matrix: Solid
Analysis Batch: 438659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	0.0800	0.0770		mg/L		96	34 - 99
2,4,6-Trichlorophenol	0.0800	0.0770		mg/L		96	62 - 120
2,4,5-Trichlorophenol	0.0800	0.0753		mg/L		94	59 - 117
2,4-Dinitrotoluene	0.0800	0.0985		mg/L		123	70 - 123
Hexachlorobenzene	0.0800	0.0817		mg/L		102	63 - 125
Pentachlorophenol	0.160	0.150		mg/L		94	54 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	92		51 - 108
Phenol-d5	25		14 - 39
Terphenyl-d14	94		40 - 148
2,4,6-Tribromophenol	118		26 - 139
2-Fluorophenol	43		25 - 58
2-Fluorobiphenyl	97		45 - 107

Lab Sample ID: LCSD 460-438125/3-A
Matrix: Solid
Analysis Batch: 438659

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 438125

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	0.0800	0.0290		mg/L		36	16 - 43	9	30
Pyridine	0.160	0.0814		mg/L		51	16 - 70	3	30
1,4-Dichlorobenzene	0.0800	0.0722		mg/L		90	42 - 94	1	30
2-Methylphenol	0.0800	0.0498		mg/L		62	43 - 80	6	30
Hexachloroethane	0.0800	0.0778	*	mg/L		97	39 - 92	2	30
4-Methylphenol	0.0800	0.0485		mg/L		61	34 - 78	12	30
Nitrobenzene	0.0800	0.0630		mg/L		79	56 - 106	12	30
Hexachlorobutadiene	0.0800	0.0718		mg/L		90	34 - 99	7	30
2,4,6-Trichlorophenol	0.0800	0.0713		mg/L		89	62 - 120	8	30
2,4,5-Trichlorophenol	0.0800	0.0730		mg/L		91	59 - 117	3	30
2,4-Dinitrotoluene	0.0800	0.0899		mg/L		112	70 - 123	9	30
Hexachlorobenzene	0.0800	0.0809		mg/L		101	63 - 125	1	30
Pentachlorophenol	0.160	0.151		mg/L		94	54 - 120	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	84		51 - 108
Phenol-d5	29		14 - 39
Terphenyl-d14	105		40 - 148
2,4,6-Tribromophenol	111		26 - 139
2-Fluorophenol	46		25 - 58
2-Fluorobiphenyl	89		45 - 107

Lab Sample ID: LB 460-437940/1-B
Matrix: Solid
Analysis Batch: 438659

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 438125

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	0.010	U	0.010	0.00088	mg/L		05/19/17 10:34	05/23/17 11:39	1

TestAmerica Edison

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method: 8270C - TCLP Semivolatiles (Continued)

Lab Sample ID: LB 460-437940/1-B
Matrix: Solid
Analysis Batch: 438659

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 438125

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Phenol	0.010	U	0.010	0.00041	mg/L		05/19/17 10:34	05/23/17 11:39	1
Pyridine	0.010	U	0.010	0.00094	mg/L		05/19/17 10:34	05/23/17 11:39	1
1,4-Dichlorobenzene	0.010	U	0.010	0.00066	mg/L		05/19/17 10:34	05/23/17 11:39	1
2-Methylphenol	0.010	U	0.010	0.0013	mg/L		05/19/17 10:34	05/23/17 11:39	1
Hexachloroethane	0.0010	U	0.0010	0.000090	mg/L		05/19/17 10:34	05/23/17 11:39	1
4-Methylphenol	0.010	U	0.010	0.00087	mg/L		05/19/17 10:34	05/23/17 11:39	1
Nitrobenzene	0.0010	U	0.0010	0.00049	mg/L		05/19/17 10:34	05/23/17 11:39	1
Hexachlorobutadiene	0.0020	U	0.0020	0.00076	mg/L		05/19/17 10:34	05/23/17 11:39	1
2,4,6-Trichlorophenol	0.010	U	0.010	0.00053	mg/L		05/19/17 10:34	05/23/17 11:39	1
2,4,5-Trichlorophenol	0.010	U	0.010	0.00049	mg/L		05/19/17 10:34	05/23/17 11:39	1
2,4-Dinitrotoluene	0.0020	U	0.0020	0.0010	mg/L		05/19/17 10:34	05/23/17 11:39	1
Hexachlorobenzene	0.0010	U	0.0010	0.00047	mg/L		05/19/17 10:34	05/23/17 11:39	1
Pentachlorophenol	0.030	U	0.030	0.0022	mg/L		05/19/17 10:34	05/23/17 11:39	1

Surrogate	LB	LB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	101		51 - 108	05/19/17 10:34	05/23/17 11:39	1
Phenol-d5	29		14 - 39	05/19/17 10:34	05/23/17 11:39	1
Terphenyl-d14	98		40 - 148	05/19/17 10:34	05/23/17 11:39	1
2,4,6-Tribromophenol	109		26 - 139	05/19/17 10:34	05/23/17 11:39	1
2-Fluorophenol	48		25 - 58	05/19/17 10:34	05/23/17 11:39	1
2-Fluorobiphenyl	98		45 - 107	05/19/17 10:34	05/23/17 11:39	1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 460-439827/3
Matrix: Water
Analysis Batch: 439827

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.12	U	0.12	0.031	mg/L			05/27/17 13:01	1
Sulfate	0.60	U	0.60	0.13	mg/L			05/27/17 13:01	1

Lab Sample ID: LCS 460-439827/5
Matrix: Water
Analysis Batch: 439827

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	7.50	6.92		mg/L		92	90 - 110

Lab Sample ID: LCSD 460-439827/6
Matrix: Water
Analysis Batch: 439827

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Chloride	1.50	1.40		mg/L		94	90 - 110	5	15
Sulfate	7.50	6.77		mg/L		90	90 - 110	2	15

TestAmerica Edison

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method: 9056A - Anions, Ion Chromatography - DL

Lab Sample ID: 460-133539-1 MS
Matrix: Water
Analysis Batch: 439827

Client Sample ID: 0171-051617-1330
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL	27	F1	15.0	45.6	F1	mg/L		122	90 - 110
Sulfate - DL	56	F1	75.0	141	F1	mg/L		113	90 - 110

Lab Sample ID: 460-133539-1 MSD
Matrix: Water
Analysis Batch: 439827

Client Sample ID: 0171-051617-1330
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride - DL	27	F1	15.0	45.8	F1	mg/L		123	90 - 110	0	15
Sulfate - DL	56	F1	75.0	145	F1	mg/L		118	90 - 110	2	15

Lab Sample ID: 460-133539-1 DU
Matrix: Water
Analysis Batch: 439827

Client Sample ID: 0171-051617-1330
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride - DL	27	F1	26.3		mg/L		4	15
Sulfate - DL	56	F1	55.7		mg/L		1	15

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 460-440312/1-A
Matrix: Water
Analysis Batch: 440371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	5000	U	5000	350	ug/L		05/31/17 08:26	05/31/17 13:32	1
Barium	200	U	200	8.6	ug/L		05/31/17 08:26	05/31/17 13:32	1
Iron	150	U	150	92	ug/L		05/31/17 08:26	05/31/17 13:32	1
Chromium	10	U	10	3.3	ug/L		05/31/17 08:26	05/31/17 13:32	1
Magnesium	5000	U	5000	310	ug/L		05/31/17 08:26	05/31/17 13:32	1
Manganese	15	U	15	3.1	ug/L		05/31/17 08:26	05/31/17 13:32	1
Nickel	40	U	40	9.0	ug/L		05/31/17 08:26	05/31/17 13:32	1
Potassium	5000	U	5000	170	ug/L		05/31/17 08:26	05/31/17 13:32	1
Sodium	5000	U	5000	410	ug/L		05/31/17 08:26	05/31/17 13:32	1

Lab Sample ID: LCS 460-440312/2-A
Matrix: Water
Analysis Batch: 440371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	20000	20000		ug/L		100	80 - 120
Barium	2000	2080		ug/L		104	80 - 120
Iron	1000	1020		ug/L		102	80 - 120
Chromium	200	206		ug/L		103	80 - 120
Magnesium	20000	19900		ug/L		100	80 - 120
Manganese	500	522		ug/L		104	80 - 120
Nickel	500	529		ug/L		106	80 - 120
Potassium	20000	18900		ug/L		95	80 - 120

TestAmerica Edison

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 460-440312/2-A
Matrix: Water
Analysis Batch: 440371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440312
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Sodium	20000	19400		ug/L		97	80 - 120

Method: 6010C - TCLP Metals (ICP)

Lab Sample ID: MB 460-438275/1-A
Matrix: Solid
Analysis Batch: 438310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	10	U	10	1.8	ug/L		05/19/17 22:40	05/20/17 20:07	1
Arsenic	15	U	15	4.4	ug/L		05/19/17 22:40	05/20/17 20:07	1
Barium	200	U	200	8.6	ug/L		05/19/17 22:40	05/20/17 20:07	1
Cadmium	4.0	U	4.0	1.8	ug/L		05/19/17 22:40	05/20/17 20:07	1
Lead	10	U	10	4.1	ug/L		05/19/17 22:40	05/20/17 20:07	1
Selenium	20	U	20	4.4	ug/L		05/19/17 22:40	05/20/17 20:07	1

Lab Sample ID: MB 460-438275/1-A
Matrix: Solid
Analysis Batch: 438449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	10	U	10	3.3	ug/L		05/19/17 22:40	05/21/17 14:48	1

Lab Sample ID: LCS 460-438275/2-A ^2
Matrix: Solid
Analysis Batch: 438310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438275
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	500	434		ug/L		87	80 - 120
Arsenic	5000	4710		ug/L		94	80 - 120
Barium	10000	10000		ug/L		100	80 - 120
Cadmium	1000	1030		ug/L		103	80 - 120
Lead	5000	5310		ug/L		106	80 - 120
Selenium	1000	922		ug/L		92	80 - 120

Lab Sample ID: LCS 460-438275/2-A ^2
Matrix: Solid
Analysis Batch: 438449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438275
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chromium	5000	5940		ug/L		119	80 - 120

Lab Sample ID: LB 460-437940/1-E ^5
Matrix: Solid
Analysis Batch: 438310

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 438275

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	50	U	50	9.0	ug/L		05/19/17 22:40	05/20/17 21:28	5
Arsenic	75	U	75	22	ug/L		05/19/17 22:40	05/20/17 21:28	5

TestAmerica Edison

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

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

Lab Sample ID: LB 460-437940/1-E ^3
Matrix: Solid
Analysis Batch: 438310

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 438275

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1000	U	1000	43	ug/L		05/19/17 22:40	05/20/17 21:28	5
Cadmium	20	U	20	9.2	ug/L		05/19/17 22:40	05/20/17 21:28	5
Lead	50	U	50	20	ug/L		05/19/17 22:40	05/20/17 21:28	5
Selenium	100	U	100	22	ug/L		05/19/17 22:40	05/20/17 21:28	5

Lab Sample ID: LB 460-437940/1-E ^5
Matrix: Solid
Analysis Batch: 438449

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 438275

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	50	U	50	17	ug/L		05/19/17 22:40	05/21/17 15:52	5

Lab Sample ID: LB 460-438149/1-B ^5
Matrix: Solid
Analysis Batch: 438310

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 438275

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	50	U	50	9.0	ug/L		05/19/17 22:40	05/20/17 21:32	5
Arsenic	75	U	75	22	ug/L		05/19/17 22:40	05/20/17 21:32	5
Barium	1000	U	1000	43	ug/L		05/19/17 22:40	05/20/17 21:32	5
Cadmium	20	U	20	9.2	ug/L		05/19/17 22:40	05/20/17 21:32	5
Lead	27.3	J	50	20	ug/L		05/19/17 22:40	05/20/17 21:32	5
Selenium	100	U	100	22	ug/L		05/19/17 22:40	05/20/17 21:32	5

Lab Sample ID: LB 460-438149/1-B ^5
Matrix: Solid
Analysis Batch: 438449

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 438275

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	50	U	50	17	ug/L		05/19/17 22:40	05/21/17 15:56	5

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 460-438549/1-A
Matrix: Solid
Analysis Batch: 438632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438549

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.17	ug/L		05/22/17 10:59	05/22/17 13:56	1

Lab Sample ID: LCS 460-438549/2-A
Matrix: Solid
Analysis Batch: 438632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438549
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	5.00	4.76		ug/L		95	80 - 120

TestAmerica Edison

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method: 7470A - TCLP Mercury (Continued)

Lab Sample ID: MB 460-438789/1-A
Matrix: Solid
Analysis Batch: 438858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438789

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.17	ug/L		05/23/17 11:34	05/23/17 15:07	1

Lab Sample ID: LCS 460-438789/2-A
Matrix: Solid
Analysis Batch: 438858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	5.00	5.04		ug/L		101	80 - 120

Lab Sample ID: LB 460-437940/1-F
Matrix: Solid
Analysis Batch: 438632

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 438549

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.17	ug/L		05/22/17 10:59	05/22/17 14:50	1

Lab Sample ID: LB 460-438172/1-E
Matrix: Solid
Analysis Batch: 438632

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 438549

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.17	ug/L		05/22/17 10:59	05/22/17 14:52	1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 460-440062/1-A
Matrix: Solid
Analysis Batch: 440110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.10	U	0.10	0.027	mg/Kg		05/30/17 07:00	05/30/17 12:08	1

Lab Sample ID: HLCS 460-440062/3-A
Matrix: Solid
Analysis Batch: 440110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440062

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	2.00	1.98		mg/Kg		99	90 - 110

Lab Sample ID: LCSSRM 460-440062/4-A ^40
Matrix: Solid
Analysis Batch: 440110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440062

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	159	92.4		mg/Kg		58.1	41.1 - 142.

TestAmerica Edison

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LLCS 460-440062/2-A
Matrix: Solid
Analysis Batch: 440110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440062

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	1.00	1.05		mg/Kg		105	90 - 110

Lab Sample ID: 460-133539-2 MS
Matrix: Solid
Analysis Batch: 440110

Client Sample ID: 0171-051617-1400
Prep Type: Total/NA
Prep Batch: 440062

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.10	U F2 F1	2.00	0.268	F1	mg/Kg		13	47 - 118

Lab Sample ID: 460-133539-2 MSD
Matrix: Solid
Analysis Batch: 440110

Client Sample ID: 0171-051617-1400
Prep Type: Total/NA
Prep Batch: 440062

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	0.10	U F2 F1	2.00	0.0373	J F1 F2	mg/Kg		2	47 - 118	151	35

Lab Sample ID: MB 460-440072/1-A
Matrix: Water
Analysis Batch: 440110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 440072

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.010	U	0.010	0.0020	mg/L		05/30/17 07:00	05/30/17 12:26	1

Lab Sample ID: HLCS 460-440072/3-A
Matrix: Water
Analysis Batch: 440110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440072

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.200	0.207		mg/L		104	90 - 110

Lab Sample ID: LLCS 460-440072/2-A
Matrix: Water
Analysis Batch: 440110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 440072

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.100	0.103		mg/L		103	90 - 110

Lab Sample ID: 460-133539-1 MS
Matrix: Water
Analysis Batch: 440110

Client Sample ID: 0171-051617-1330
Prep Type: Total/NA
Prep Batch: 440072

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.024		0.200	0.242		mg/L		109	90 - 110

Lab Sample ID: 460-133539-1 MSD
Matrix: Water
Analysis Batch: 440110

Client Sample ID: 0171-051617-1330
Prep Type: Total/NA
Prep Batch: 440072

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Cyanide, Total	0.024		0.200	0.233		mg/L		105	90 - 110	4	10

TestAmerica Edison

QC Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 460-438815/1-A
Matrix: Solid
Analysis Batch: 438817

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438815

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	8.7	U	8.7	3.4	mg/Kg		05/21/17 11:00	05/21/17 16:00	1

Lab Sample ID: LCS 460-438815/3-A
Matrix: Solid
Analysis Batch: 438817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438815

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	75.2	55.6		mg/Kg		74	70 - 130

Lab Sample ID: 460-133539-2 MS
Matrix: Solid
Analysis Batch: 438817

Client Sample ID: 0171-051617-1400
Prep Type: Total/NA
Prep Batch: 438815

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	8.7	U F1	55.6	35.4	F1	mg/Kg		64	70 - 130

Lab Sample ID: 460-133539-2 MSD
Matrix: Solid
Analysis Batch: 438817

Client Sample ID: 0171-051617-1400
Prep Type: Total/NA
Prep Batch: 438815

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Sulfide	8.7	U F1	55.6	32.4	F1	mg/Kg		58	70 - 130	9	15

Method: 9045D - Corrosivity as pH

Lab Sample ID: MB 460-440139/2
Matrix: Solid
Analysis Batch: 440139

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.9				SU			05/30/17 13:47	1
Corrosivity	5.9				SU			05/30/17 13:47	1

Lab Sample ID: LCSSRM 460-440139/3
Matrix: Solid
Analysis Batch: 440139

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

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.50	7.5		SU		99.7	97.3 - 102.7
Corrosivity	7.50	7.5		SU		99.7	97.3 - 102.7

QC Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method: D854 - Specific Gravity

Lab Sample ID: LCS 140-11445/3
Matrix: Solid
Analysis Batch: 11445

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Density	0.997	0.9971		g/cm3		100	99 - 101

Lab Sample ID: 460-133539-2 DU
Matrix: Solid
Analysis Batch: 11445

Client Sample ID: 0171-051617-1400
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Density	2.36		2.397		g/cm3		1	10

Lab Sample ID: LCS 140-11481/3
Matrix: Solid
Analysis Batch: 11481

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Gravity	1.00	1.000		NONE		100	99 - 101

Lab Sample ID: 460-133539-2 DU
Matrix: Solid
Analysis Batch: 11481

Client Sample ID: 0171-051617-1400
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Gravity	2.37		2.404		NONE		1	10

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

GC/MS VOA

Leach Batch: 437906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	TCLP	Solid	1311	
LB 460-437906/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 439167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	TCLP	Solid	8260B	437906
MB 460-439167/6	Method Blank	Total/NA	Solid	8260B	
LCS 460-439167/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 460-439167/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 439597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-437906/1-A	Method Blank	TCLP	Solid	8260B	437906
MB 460-439597/8	Method Blank	Total/NA	Solid	8260B	
LCS 460-439597/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 460-439597/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 437940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	TCLP	Solid	1311	
LB 460-437940/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 438125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	TCLP	Solid	3510C	437940
LB 460-437940/1-B	Method Blank	TCLP	Solid	3510C	437940
MB 460-438125/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 460-438125/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 460-438125/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 438659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-437940/1-B	Method Blank	TCLP	Solid	8270C	438125
MB 460-438125/1-A	Method Blank	Total/NA	Solid	8270C	438125
LCS 460-438125/2-A	Lab Control Sample	Total/NA	Solid	8270C	438125
LCSD 460-438125/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C	438125

Analysis Batch: 439465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	TCLP	Solid	8270C	438125

HPLC/IC

Analysis Batch: 439827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-1 - DL	0171-051617-1330	Total/NA	Water	9056A	
MB 460-439827/3	Method Blank	Total/NA	Water	9056A	
LCS 460-439827/5	Lab Control Sample	Total/NA	Water	9056A	

TestAmerica Edison

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

HPLC/IC (Continued)

Analysis Batch: 439827 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 460-439827/6	Lab Control Sample Dup	Total/NA	Water	9056A	
460-133539-1 MS - DL	0171-051617-1330	Total/NA	Water	9056A	
460-133539-1 MSD - DL	0171-051617-1330	Total/NA	Water	9056A	
460-133539-1 DU - DL	0171-051617-1330	Total/NA	Water	9056A	

Metals

Leach Batch: 437940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	TCLP	Solid	1311	
LB 460-437940/1-E ^5	Method Blank	TCLP	Solid	1311	
LB 460-437940/1-F	Method Blank	TCLP	Solid	1311	

Leach Batch: 438149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-438149/1-B ^5	Method Blank	TCLP	Solid	1311	

Leach Batch: 438172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-438172/1-E	Method Blank	TCLP	Solid	1311	

Prep Batch: 438275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	TCLP	Solid	3010A	437940
LB 460-437940/1-E ^5	Method Blank	TCLP	Solid	3010A	437940
LB 460-438149/1-B ^5	Method Blank	TCLP	Solid	3010A	438149
MB 460-438275/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 460-438275/2-A ^2	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 438310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	TCLP	Solid	6010C	438275
LB 460-437940/1-E ^5	Method Blank	TCLP	Solid	6010C	438275
LB 460-438149/1-B ^5	Method Blank	TCLP	Solid	6010C	438275
MB 460-438275/1-A	Method Blank	Total/NA	Solid	6010C	438275
LCS 460-438275/2-A ^2	Lab Control Sample	Total/NA	Solid	6010C	438275

Analysis Batch: 438449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-437940/1-E ^5	Method Blank	TCLP	Solid	6010C	438275
LB 460-438149/1-B ^5	Method Blank	TCLP	Solid	6010C	438275
MB 460-438275/1-A	Method Blank	Total/NA	Solid	6010C	438275
LCS 460-438275/2-A ^2	Lab Control Sample	Total/NA	Solid	6010C	438275

Prep Batch: 438549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-437940/1-F	Method Blank	TCLP	Solid	7470A	437940
LB 460-438172/1-E	Method Blank	TCLP	Solid	7470A	438172
MB 460-438549/1-A	Method Blank	Total/NA	Solid	7470A	
LCS 460-438549/2-A	Lab Control Sample	Total/NA	Solid	7470A	

TestAmerica Edison

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Metals (Continued)

Analysis Batch: 438632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 460-437940/1-F	Method Blank	TCLP	Solid	7470A	438549
LB 460-438172/1-E	Method Blank	TCLP	Solid	7470A	438549
MB 460-438549/1-A	Method Blank	Total/NA	Solid	7470A	438549
LCS 460-438549/2-A	Lab Control Sample	Total/NA	Solid	7470A	438549

Prep Batch: 438789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	TCLP	Solid	7470A	437940
MB 460-438789/1-A	Method Blank	Total/NA	Solid	7470A	
LCS 460-438789/2-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 438790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	TCLP	Solid	6010C	438275

Analysis Batch: 438858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	TCLP	Solid	7470A	438789
MB 460-438789/1-A	Method Blank	Total/NA	Solid	7470A	438789
LCS 460-438789/2-A	Lab Control Sample	Total/NA	Solid	7470A	438789

Prep Batch: 440312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-1	0171-051617-1330	Total/NA	Water	3010A	
MB 460-440312/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-440312/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 440371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-1	0171-051617-1330	Total/NA	Water	6010C	440312
MB 460-440312/1-A	Method Blank	Total/NA	Water	6010C	440312
LCS 460-440312/2-A	Lab Control Sample	Total/NA	Water	6010C	440312

General Chemistry

Prep Batch: 438815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	Total/NA	Solid	9030B	
MB 460-438815/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 460-438815/3-A	Lab Control Sample	Total/NA	Solid	9030B	
460-133539-2 MS	0171-051617-1400	Total/NA	Solid	9030B	
460-133539-2 MSD	0171-051617-1400	Total/NA	Solid	9030B	

Analysis Batch: 438817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	Total/NA	Solid	9034	438815
MB 460-438815/1-A	Method Blank	Total/NA	Solid	9034	438815
LCS 460-438815/3-A	Lab Control Sample	Total/NA	Solid	9034	438815
460-133539-2 MS	0171-051617-1400	Total/NA	Solid	9034	438815
460-133539-2 MSD	0171-051617-1400	Total/NA	Solid	9034	438815

TestAmerica Edison

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

General Chemistry (Continued)

Prep Batch: 440062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	Total/NA	Solid	9012B	
MB 460-440062/1-A	Method Blank	Total/NA	Solid	9012B	
HLCS 460-440062/3-A	Lab Control Sample	Total/NA	Solid	9012B	
LCSSRM 460-440062/4-A ^4	Lab Control Sample	Total/NA	Solid	9012B	
LLCS 460-440062/2-A	Lab Control Sample	Total/NA	Solid	9012B	
460-133539-2 MS	0171-051617-1400	Total/NA	Solid	9012B	
460-133539-2 MSD	0171-051617-1400	Total/NA	Solid	9012B	

Prep Batch: 440072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-1	0171-051617-1330	Total/NA	Water	9012B	
MB 460-440072/1-A	Method Blank	Total/NA	Water	9012B	
HLCS 460-440072/3-A	Lab Control Sample	Total/NA	Water	9012B	
LLCS 460-440072/2-A	Lab Control Sample	Total/NA	Water	9012B	
460-133539-1 MS	0171-051617-1330	Total/NA	Water	9012B	
460-133539-1 MSD	0171-051617-1330	Total/NA	Water	9012B	

Analysis Batch: 440110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-1	0171-051617-1330	Total/NA	Water	9012B	440072
460-133539-2	0171-051617-1400	Total/NA	Solid	9012B	440062
MB 460-440062/1-A	Method Blank	Total/NA	Solid	9012B	440062
MB 460-440072/1-A	Method Blank	Total/NA	Water	9012B	440072
HLCS 460-440062/3-A	Lab Control Sample	Total/NA	Solid	9012B	440062
HLCS 460-440072/3-A	Lab Control Sample	Total/NA	Water	9012B	440072
LCSSRM 460-440062/4-A ^4	Lab Control Sample	Total/NA	Solid	9012B	440062
LLCS 460-440062/2-A	Lab Control Sample	Total/NA	Solid	9012B	440062
LLCS 460-440072/2-A	Lab Control Sample	Total/NA	Water	9012B	440072
460-133539-1 MS	0171-051617-1330	Total/NA	Water	9012B	440072
460-133539-1 MSD	0171-051617-1330	Total/NA	Water	9012B	440072
460-133539-2 MS	0171-051617-1400	Total/NA	Solid	9012B	440062
460-133539-2 MSD	0171-051617-1400	Total/NA	Solid	9012B	440062

Analysis Batch: 440132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	Total/NA	Solid	1030	

Analysis Batch: 440139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	Total/NA	Solid	9045D	
MB 460-440139/2	Method Blank	Total/NA	Solid	9045D	
LCSSRM 460-440139/3	Lab Control Sample	Total/NA	Solid	9045D	

Geotechnical

Analysis Batch: 11445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	Total/NA	Solid	D854	
LCS 140-11445/3	Lab Control Sample	Total/NA	Solid	D854	
460-133539-2 DU	0171-051617-1400	Total/NA	Solid	D854	

TestAmerica Edison

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Geotechnical (Continued)

Analysis Batch: 11481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-133539-2	0171-051617-1400	Total/NA	Solid	D854	
LCS 140-11481/3	Lab Control Sample	Total/NA	Solid	D854	
460-133539-2 DU	0171-051617-1400	Total/NA	Solid	D854	

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Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Client Sample ID: 0171-051617-1330

Lab Sample ID: 460-133539-1

Date Collected: 05/16/17 13:30

Matrix: Water

Date Received: 05/17/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9056A	DL	10	439827	05/28/17 00:23	HXM	TAL EDI
Total/NA	Prep	3010A			440312	05/31/17 08:26	QZY	TAL EDI
Total/NA	Analysis	6010C		1	440371	05/31/17 14:00	CDC	TAL EDI
Total/NA	Prep	9012B			440072	05/30/17 07:00	IAA	TAL EDI
Total/NA	Analysis	9012B		1	440110	05/30/17 12:32	HTV	TAL EDI

Client Sample ID: 0171-051617-1400

Lab Sample ID: 460-133539-2

Date Collected: 05/16/17 14:00

Matrix: Solid

Date Received: 05/17/17 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			437906	05/18/17 13:27	JNP	TAL EDI
TCLP	Analysis	8260B		10	439167	05/25/17 07:31	EMM	TAL EDI
TCLP	Leach	1311			437940	05/18/17 17:10	YXG	TAL EDI
TCLP	Prep	3510C			438125	05/19/17 10:34	GRB	TAL EDI
TCLP	Analysis	8270C		1	439465	05/26/17 13:28	CBB	TAL EDI
TCLP	Leach	1311			437940	05/18/17 17:10	YXG	TAL EDI
TCLP	Prep	3010A			438275	05/19/17 22:40	GAE	TAL EDI
TCLP	Analysis	6010C		5	438310	05/20/17 21:15	CDC	TAL EDI
TCLP	Leach	1311			437940	05/18/17 17:10	YXG	TAL EDI
TCLP	Prep	3010A			438275	05/19/17 22:40	GAE	TAL EDI
TCLP	Analysis	6010C		5	438790	05/23/17 11:06	CDC	TAL EDI
TCLP	Leach	1311			437940	05/18/17 17:10	YXG	TAL EDI
TCLP	Prep	7470A			438789	05/23/17 11:34	RBS	TAL EDI
TCLP	Analysis	7470A		1	438858	05/23/17 15:57	RBS	TAL EDI
Total/NA	Analysis	1030		1	440132	05/30/17 15:46	YAH	TAL EDI
Total/NA	Prep	9012B			440062	05/30/17 07:00	IAA	TAL EDI
Total/NA	Analysis	9012B		1	440110	05/30/17 12:12	HTV	TAL EDI
Total/NA	Prep	9030B			438815	05/21/17 11:00	HTV	TAL EDI
Total/NA	Analysis	9034		1	438817	05/21/17 16:00	HTV	TAL EDI
Total/NA	Analysis	9045D		1	440139	05/30/17 13:51	YAH	TAL EDI
Total/NA	Analysis	D854		1	11445	05/20/17 00:00	MDR	TAL KNX
Total/NA	Analysis	D854		1	11481	05/20/17 00:00	MDR	TAL KNX

Laboratory References:

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

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Laboratory: TestAmerica Edison

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-17
New Jersey	NELAP	2	12028	06-30-17
New York	NELAP	2	11452	04-01-18
Pennsylvania	NELAP	3	68-00522	02-28-18
Rhode Island	State Program	1	LAO00132	12-30-17
USDA	Federal		NJCA-003-08	04-04-17 *

Laboratory: TestAmerica Knoxville

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

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-16-17
California	State Program	9	2423	06-30-18
Colorado	State Program	8	TN00009	02-28-18
Connecticut	State Program	1	PH-0223	09-30-17
Florida	NELAP	4	E87177	06-30-17
Georgia	State Program	4	906	04-13-20
Hawaii	State Program	9	N/A	04-13-18
Kansas	NELAP	7	E-10349	10-31-17
Kentucky (DW)	State Program	4	90101	12-31-17
L-A-B	DoD ELAP		L2311	02-13-19
Louisiana	NELAP	6	83979	06-30-17
Louisiana (DW)	NELAP	6	LA160005	12-31-17
Maryland	State Program	3	277	03-31-18
Michigan	State Program	5	9933	04-13-17 *
Nevada	State Program	9	TN00009	07-31-17
New Jersey	NELAP	2	TN001	06-30-17
New York	NELAP	2	10781	03-31-18
North Carolina (DW)	State Program	4	21705	07-31-17
North Carolina (WW/SW)	State Program	4	64	12-31-17
Ohio VAP	State Program	5	CL0059	11-22-18
Oklahoma	State Program	6	9415	08-31-17
Pennsylvania	NELAP	3	68-00576	12-31-17
Tennessee	State Program	4	2014	04-13-20
Texas	NELAP	6	T104704380-16-9	08-31-17
USDA	Federal		P330-13-00262	08-20-19
Utah	NELAP	8	TN00009	07-31-17
Virginia	NELAP	3	460176	09-14-17
Washington	State Program	10	C593	01-19-18
West Virginia (DW)	State Program	3	9955C	12-31-17
West Virginia DEP	State Program	3	345	04-30-18
Wisconsin	State Program	5	998044300	08-31-17

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1

Method	Method Description	Protocol	Laboratory
8260B	TCLP Volatiles	SW846	TAL EDI
8270C	TCLP Semivolatiles	SW846	TAL EDI
9056A	Anions, Ion Chromatography	SW846	TAL EDI
6010C	Metals (ICP)	SW846	TAL EDI
6010C	TCLP Metals (ICP)	SW846	TAL EDI
7470A	TCLP Mercury	SW846	TAL EDI
1030	Ignitability, Solids	SW846	TAL EDI
9012B	Cyanide, Total and/or Amenable	SW846	TAL EDI
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	TAL EDI
9045D	Corrosivity as pH	SW846	TAL EDI
D854	Specific Gravity	ASTM	TAL KNX

Protocol References:

ASTM = ASTM International

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

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Racer - Elyria, Ohio

TestAmerica Job ID: 460-133539-1


Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-133539-1	0171-051617-1330	Water	05/16/17 13:30	05/17/17 09:30
460-133539-2	0171-051617-1400	Solid	05/16/17 14:00	05/17/17 09:30

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TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 460-133539

Client H-A Site Name _____
 Cooler Received on 5.17.17 Opened on 5.17.17
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____


Cooler unpacked by:


Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-8 (CF -0.3 °C) Observed Cooler Temp. 2.5 °C Corrected Cooler Temp. 2.5 °C
 IR GUN #36 (CF +0.8°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 Yes No
 -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No

If yes, Questions 11-15 have been checked at the originating laboratory.

11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC697954
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
15. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: _____

17. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____


Ref: SOP NC-SC-0005, Sample Receiving
 \\tacorp\corp\QA\QA_Facilities\Canton-QA\Document-Management\Work-Instruction\Word Version Work Instructions\WI-NC-099-042717 Cooler Receipt Form.doc djl



North Canton, OH 44720
Phone: 330.497.9396 Fax: 330.497.0772

Regulatory Program: DW NPDES RCRA Other:

Client Contact		Project Manager: B. Aragon		Site Contact: T. Correll		Date: 5/16/17	
Company Name: Holey & Aldrich		Tel/Fax: 734-887-8410		Lab Contact: D. Pohl		Carrier: Fed Ex	
Address: 6500 Rockside Rd Suite 220		Analysis Turnaround Time		COC No.:		of COCs	
City/State/Zip: Independence, OH 44131		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		Sampler:			
Phone: 216-706-1300		TAT if different from Below		For Lab Use Only:			
Fax:		<input type="checkbox"/> 2 weeks		Walk-in Client:			
Project Name: RACER		<input type="checkbox"/> 1 week		Lab Sampling:			
Site: Elyria		<input type="checkbox"/> 2 days		Job / SDG No.:			
P O #: 179862-002		<input type="checkbox"/> 1 day					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes:
0171-051617-1330	5/16/17	1330	G	AG		WN		Final Rinse
0171-051617-1400	↓	1400	G	SO		WN		Solids, Tanks
								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: **Sample 0171-051617-1400 (Not for metals)**

Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Cooler Temp. (°C): Obs'd: _____	Therm ID No.:
Relinquished by: [Signature]	Received by: [Signature]	Date/Time: 5-17-17 930
Relinquished by: [Signature]	Received by: [Signature]	Date/Time:
Relinquished by: [Signature]	Received in Laboratory by: [Signature]	Date/Time:



TestAmerica Canton Sample Receipt Form/Narrative

Login #: 460-133539

Canton Facility

Client H-A Site Name

Cooler unpacked by:

Cooler Received on 5-17-17 Opened on 5-17-17

[Signature]

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other
Packing material used: Bubble Wrap Foam Plastic Bag None Other
COOLANT: Wet Ice Blue Ice Dry Ice Water None

- 1. Cooler temperature upon receipt
IR GUN# IR-8 (CF -0.3 °C) Observed Cooler Temp. 2.9 °C Corrected Cooler Temp. 2.5 °C
IR GUN #36 (CF +0.8 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 Yes No
-Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC697954
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No
15. Was a LL Hg or Me Hg trip blank present? Yes No
Contacted PM Date by via Verbal Voice Mail Other

Concerning

16. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

Blank lines for Chain of Custody and Sample Discrepancies.

17. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

18. SAMPLE PRESERVATION



Sample(s) were further preserved in the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

Ref: SOP NC-SC-0005, Sample Receiving
\\nacorp\corp\QA\QA_Facilities\Canton-QA\Document-Management\Work-Instruction\Word Version Work Instructions\WI-NC-099-042717 Cooler Receipt Form.doc djf

TestAmerica Edison
 777 New Durham Road
 Edison, NJ 08817
 Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Shipping/Receiving		Phone:	Poln, Denise	State of Origin:	460-48434-1
Company: TestAmerica Laboratories, Inc.		E-Mail: denise.pohn@testamericainc.com	denise.pohn@testamericainc.com	Ohio	Page 1 of 1
Address: 5815 Middlebrook Pike, Knoxville		Due Date Requested: 5/30/2017	Accreditations Required (See note): 460-133539-1		
State, Zip: TN, 37921	TAT Requested (days):	Analysis Requested			
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:	Field Filtered Sample (Yes or No)	D84/ Specific Gravity	Perform MS/MSD (Yes or No)	Total Number of Containers
Email:	WO #:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Project Name: Racer - Elyria, Ohio	Project #: 46020356	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater)
Site: Racer - Elyria, Ohio	SSOW#:	5/16/17	14:00 Eastern	Solid	Preservation Code:
Sample Identification - Client ID (Lab ID)		0171-051617-1400 (460-133539-2)			
NO CUSTODY SEALS		RECEIVED AT NT 0.1/CTD-IC			
BKS 5-18-17		1 5000A P40 X17 72597286 UAS1			
460-133539 Chain of Custody					
<p>Special Instructions/Note:</p> <p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>					
<p>Possible Hazard Identification</p> <p>Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p>					
<p>Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____</p>					
Relinquished by: 		Date: 5-17-17 1400		Company: JA KOX	
Relinquished by: _____		Date/Time: _____		Company: _____	
Relinquished by: _____		Date/Time: _____		Company: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____			
Cooler Temperature(s) °C and Other Remarks: _____					



Log In Number:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	
2. Were ambient air containers received intact?			/	<input type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?			/	<input type="checkbox"/> Yes <input type="checkbox"/> NA	
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : _____ Correction factor: _____			/	<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC; Not Received	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> COC; No Date/Time; Client Contacted	Labeling Verified by: _____ Date: _____
10. Was the sampler identified on the COC?	/			<input type="checkbox"/> Sampler Not Listed on COC	
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC No tests on COC	pH test strip lot number: _____
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	Preservative: _____
16. Were samples received with correct chemical preservative (excluding Encore)?	/			<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Lot Number: _____ Exp Date: _____ Analyst: _____
17. Were VOA samples received without headspace?	/			<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	Date: _____ Time: _____
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____	/				
19. For 1613B water samples is pH<9?	/			<input type="checkbox"/> If no, lab will adjust	
20. For rad samples was sample activity info. Provided?	/			<input type="checkbox"/> Project missing info	
Project #: _____ PM Instructions: _____					

QA026R30.doc, 080916

Date: 5-18-17

Sample Receiving Associate: *[Signature]*



APPENDIX C

Waste Manifests

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number OH D004201091	2. Page 1 of 1	3. Emergency Response Phone (937) 620-8524	4. Manifest Tracking Number 008689352 FLE		
5. Generator's Name and Mailing Address RACER TRUST 1400 LOWELL ST ELYRIA OH 44035				Generator's Site Address (if different than mailing address)			
Generator's Phone: (419) 499-1339				U.S. EPA ID Number OHR000103782			
6. Transporter 1 Company Name VICKERY TRANSPORTATION, INC.				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address VICKERY ENVIRONMENTAL, INC. 3956 STATE ROUTE 412 VICKERY OH 43464				U.S. EPA ID Number OH D020273819			
Facility's Phone: (419) 547-7791							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RQ, NA3082, WASTE HAZARDOUS WASTE, LIQUID, N.O.S., 9, III, (F006)	001	TT	143	G	F006	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information WASTE PROFILE #OH894433 EMERGENCY RESPONSE CONTACT: ERG #171 TRIP #: 327775 TAG #: 1820411							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Tony Corcell				Signature <i>[Signature]</i>		Month Day Year 05 16 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: 9th Precinct Transporter signature (for exports only): Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name				Signature		Month Day Year 05 16 17	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)				Signature		Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H134		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name				Signature		Month Day Year	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number OH D 0 0 4 2 0 1 0 9 1	2. Page 1 of 1	3. Emergency Response Phone (937) 620-8524	4. Manifest Tracking Number 008689352 FLE				
5. Generator's Name and Mailing Address RACER TRUST 1400 LOWELL ST ELYRIA OH 44035				Generator's Site Address (if different than mailing address)					
Generator's Phone: (419) 499-1339				6. Transporter 1 Company Name VICKERY TRANSPORTATION, INC.					
				U.S. EPA ID Number OHR000103762					
7. Transporter 2 Company Name				U.S. EPA ID Number					
8. Designated Facility Name and Site Address VICKERY ENVIRONMENTAL, INC. 3956 STATE ROUTE 412 VICKERY OH 43484				U.S. EPA ID Number OH D 0 2 0 2 7 3 8 1 9					
Facility's Phone: (419) 547-7791									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. RQ, NA3082, WASTE HAZARDOUS WASTE, LIQUID, N.O.S., 9,III,(F006)		No.	Type				
		2.		001	TT	175	G	F006	
		3.							
		4.							
14. Special Handling Instructions and Additional Information WASTE PROFILE #OH894433 ERG #171 EMERGENCY RESPONSE CONTACT:									
TRIP #: 327975 TAG #: 186044									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offoror's Printed/Typed Name Tony Correll				Signature <i>[Signature]</i>				Month Day Year 05/16/17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: and properties Date leaving U.S.:									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Buel Nesh: TT				Signature <i>[Signature]</i>				Month Day Year 05/16/17	
Transporter 2 Printed/Typed Name				Signature				Month Day Year	
18. Discrepancy									
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Greater than 10% Seepage discrepancy 143 Actual Fuel oil by Tony Correll									
Manifest Reference Number: U.S. EPA ID Number									
18b. Alternate Facility (or Generator)									
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H134		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name MARILYN BINSACK				Signature <i>[Signature]</i>				Month Day Year 05/16/17	

APPENDIX D

Waste Profile

GENERATOR'S WASTE PROFILE SHEET

VIC OH894759

() Check here if this is a Recertification LOCATION OF ORIGINAL Vickery Environmental, Inc.

A/B WASTE GENERATOR AND CUSTOMER INFORMATION

1. Generator Name: RACER TRUST Generator USEPA ID: OHD004201091
2. Generator Address: 1400 LOWELL ST Billing Address: HALEY & ALDRICH INC
ELYRIA OH 44035 70 BLANCHARD RD, SUITE 204
3. Technical Contact/Phone: PAMELA BARNETT 973/751-8635 BURLINGTON MA 01803
4. Alternate Billing Contact/Phone: BAN ARAGONA (HALEY & ALDRICH) 617/886-7400 Contact/Phone: BAN ARAGONA 617/886-7400

C. WASTE STREAM INFORMATION

1a Process Generating Waste: LEACHATE COLLECTION TANKS BEING STEAM CLEANED
1b Waste Name: (F006) LEACHATE TANK CLEANOUT SOLUTION
1c Color : VARIES
1d Strong Odor: () ; describe:
1e Physical State @ 70F: Solid () Liquid (X) Both () Gas () If Single Layer (X) Multilayer ()
1g Free liq. range: 99 to 100% Gravity: 1.000 to 1.300 Viscosity: LOW BTU/lb: to
1h pH: Range 5.0 to 10.0 or Not applicable ()
1i Liquid Flash Point: < 73F () 73-99F () 100-139F () 140-199F () >= 200F (X) N.A. () Closed Cup (X) Open Cup ()

2a Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No ()
2a Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): F006 State Waste Codes:

2b Do underlying hazardous constituents (UHCs) apply (40CFR268.48)? (N)
2d Is the waste predominantly debris subject to the Alternate Debris Standards(40 CFR268.45)? (N)
2e Is the waste predominantly soil subject to the Alternate Soil Treatment Standards(40 CFR268.49)? (N)
2f Does the waste contain asbestos? (N) If yes, is waste Friable () Non-Friable () or Both ()
2g Waste contains benzene in concentrations ppm. NESHAP? (N)
2h Is waste remediation from a major source of Haz Air Pollutants (Site Remediation NESHAP, 40CFR 63 subpart GGGGG)? (N)
If yes, does the waste contain <500 ppmw VOHAPS at the point of determination? ()
2i Waste contains PCBs (< >) ppm, regulated by 40 CFR 761? (N)
Are PCBs regulated under SIRS Mega Rule (40 CFR 761.61(a))? ()

2j CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis
Table with columns: Constituents, Range, Unit Description. Includes rows for WATER, METAL HYDROXIDES, LEAD, SODIUM CARBONATE, and TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%): 102.100000. See attach2

2k Is the waste: Pyrophoric () Water-Reactive () Shock Sensitive () Oxidizer () Carcinogen () Infectious ()
Other
2l Is waste Group 1 wastewater or residual under Hazardous Organic NESHAP? (N)
2m Does the waste contain radioactive material? (N) Regulated by NRC? () Is radioactive waste NORM? ()
2n Is the waste a CERCLA (40 CFR 300, Appendix B) or state mandated cleanup? (N)
3a This is a Wastewater.
3e Physical Appearance: LOW VISCOSITY, LIQUID
3f If waste subject to the land ban & meets treatment standards, check here: () & supply analytical results where applicable.
3g Tracking Number:

D. DOT Information and Shipping Volume

D1 Anticipated Annual Volume: 18000 Units: GALLONS Shipping Frequency: MONTH
D2 PACKAGING: Bulk Solid () Bulk Liquid (X) Drum () Type/Size: TANK Other SHIPS 1,500 GALLONS PER MONTH

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature Name and Title Date

ATTACHMENT 2

CHEMICAL COMPOSITION: Additional constituents NOT included on page 1 of the Waste Profile
Constituents

	Range	Unit Description
<u>SODIUM GLUCONATE</u>	0 to	0.5 %
<u>NON-TRI CHEMICALS</u>	0 to	1 %
<u>ETHOXYLATED ALCOHOL</u>	to	