

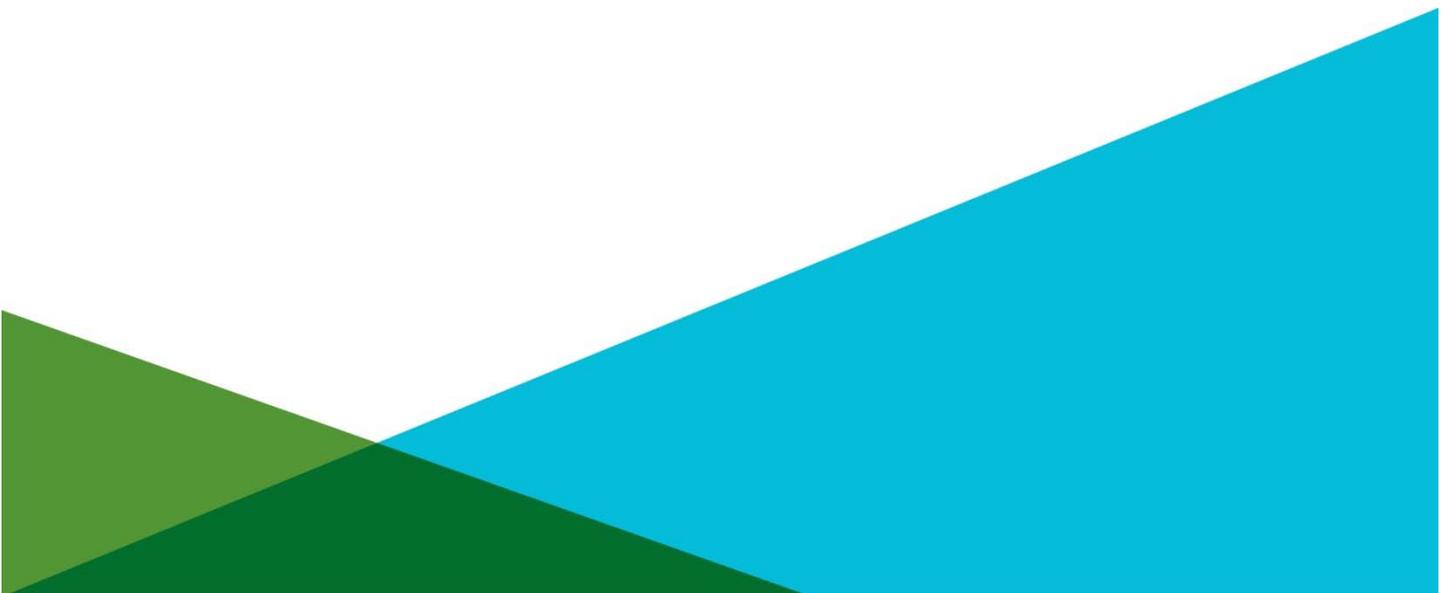
CONFIDENTIAL INFORMATION

**DRAFT REPORT ON
LIMITED PHASE II ENVIRONMENTAL
SITE ASSESSMENT
59 SOUTH AUTUMN STREET
SAN JOSE, CALIFORNIA**

By Haley & Aldrich, Inc.
Walnut Creek, California

for Trammell Crow Company
San Francisco, California
&
TC Agoge Associates, LLC
Dallas, Texas

File No. 128730-004
March 2017





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21 March 2017
File No. 128730-004

CONFIDENTIAL INFORMATION

Trammell Crow Company
101 California Street, 22nd Floor
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Attention: Mr. Tom Jodry
Senior Vice President

TC Agoge Associates, LLC
2100 McKinney Avenue, Suite 800
Dallas, Texas 75201

Attention: Mr. Will Parker
Senior Vice President

Subject: Limited Phase II Environmental Site Assessment
59 South Autumn Street
San Jose, California

Ladies and Gentlemen:

The enclosed report presents the results of a Limited Phase II Environmental Site Assessment (Phase II) conducted at the above-referenced property, located at 59 South Autumn Street, Santa Clara County Assessor Parcel Number (APN) 259-38-141, in San Jose, California, (herein referred to as the "subject site" or "site"; Figure 1). This work was performed by Haley & Aldrich, Inc. (Haley & Aldrich), in accordance with our proposals to Trammell Crow Company (Trammell Crow) and TC Agoge Associates, LLC (TC Agoge), dated 23 February 2017 ("Agreement"). The goal of this Limited Phase II was to identify potential environmental concerns for the site that could affect its future redevelopment.

Field Investigation

On 2 March 2017, Haley & Aldrich conducted environmental sampling activities in accessible areas of the site to characterize existing subsurface conditions. Prior to conducting subsurface work, the boring locations were marked on the ground using white spray paint and Underground Service Alert (USA) was notified. In addition, drilling locations were scanned by a private utility firm, Coast Wide Utility Locators, to identify subsurface utilities prior to the start of work.

Haley & Aldrich subcontracted Gregg Drilling and Testing (Gregg) to provide direct push drilling services for the collection of soil and grab groundwater samples at three locations, HA01, HA02 and HA03. Two other boring locations, HA04 and HA05, were sampled for surface soil only. These boring locations are

shown on Figure 2. At each boring location, Gregg cored through existing hardscapes (asphalt or concrete). Following surface coring, a soil sample was collected from the soil directly beneath the hardscape, at approximately 6 to 12 inches below ground surface (bgs). Borings were then hand augured to a depth of 5 feet bgs in accordance with the Health and Safety Plan. A direct push drill bit was advanced to the approximate target depth of 25 feet bgs at each boring. Continuous soil cores were collected in 4-foot intervals. The soil cores were screened for volatile organic compounds (VOCs) using a photo-ionization detector (PID) approximately every 4 feet, and basic geologic properties and observations were continuously logged (Appendix A). Following sampling at each location, the borings were backfilled with grout and completed with asphalt or concrete to match surrounding conditions.

Boring HA01 was located in the driveway area, south of the main building, near the approximate center of the property and in a location situated between two of the site's previously removed underground storage tanks (USTs). The boring was drilled to 30 feet bgs. No signs of impact were observed, and PID readings were consistently 0.0 parts per million (ppm). Soils encountered in this boring consisted of clay, with several layers of silt and clayey sand. Groundwater was encountered at 28 feet bgs, and the saturated zone from 28 to 30 feet bgs consisted of clayey sand. Soil samples were collected at 0.5 feet bgs and 28 feet bgs, and a grab groundwater sample was collected using a temporary PVC casing.

Boring HA02 was located adjacent to an equipment storage area situated at the western edge of the site. The boring was drilled to 30 feet bgs. PID readings ranged from 15.3 to 47.3 ppm, generally increasing with depth, with the maximum PID reading measured at 24 feet bgs. No visible signs of impacted soil were observed. Soils encountered in this boring consisted of clay, with several layers of silt and clayey sand. No saturated soil was encountered during drilling, but a groundwater grab sample was still able to be collected using a temporary PVC casing. Soil samples were collected at 0.5 feet bgs, 24 feet bgs, and 30 feet bgs.

Boring HA03 was located in the southwest corner of the site, in an area used for equipment storage. The boring was drilled to 30 feet bgs. Trace brick fragments were observed at 3 feet bgs. PID readings ranged from 0.0 to 66.7 ppm, with the highest being at 10 feet bgs. Soils encountered in this boring consisted of clay, with several layers of silt and clayey sand. Groundwater was encountered at 21 feet bgs, and the saturated zone from 24 to 30 feet bgs consisted of clay and sand. Soil samples were collected at 1 foot bgs and 20 feet bgs, and a groundwater grab sample was collected using a temporary PVC casing.

Borings HA04 and HA05 were located along the northern edge of the site, outside of the building. The surface was cored through, and a soil sample from 0.5 feet bgs was collected from each location.

Investigation-derived waste (IDW) generated through the drilling activities included one 55-gallon drum of soil cuttings. This drum is labeled and stored in a secure location. Haley & Aldrich collected a waste characterization sample of this IDW and is currently coordinating its waste profiling and offsite transportation and disposal.

Laboratory Analysis

The nine soil samples collected were analyzed for the following:

- total petroleum hydrocarbons as diesel-range organics (TPH-DRO) and as motor oil (TPH-MO) using United States Environmental Protection Agency (USEPA) Method 8015B;
- total petroleum hydrocarbons as gasoline range organics (TPH-GRO) and VOCs using USEPA Method 8260B;
- polynuclear aromatic hydrocarbons (PAHs) using USEPA Method 8270C(SIM); and
- California Title 22 metals using USEPA Method 6010B/7471A.

The five near-surface (0.5 to 1 foot bgs) soil samples were additionally analyzed for the following:

- Polychlorinated biphenyls (PCBs) using USEPA Method 8082;

The three groundwater grab samples were analyzed for the following:

- TPH-DRO and TPH-MO using USEPA Method 8015B;
- TPH-GRO and VOCs using USEPA Method 8260B;
- PAHs using USEPA Method 8270C(SIM); and
- California Title 22 metals (dissolved) using USEPA Method 6010B/7470A.

Analytical Results

Analytical laboratory reports are included in Appendix B. Results of the analysis were evaluated using the San Francisco Bay Regional Water Quality Control Board (RWQCB) Tier 1 Environmental Screening Levels (ESLs), dated February 2016 (Revision 3). The ESLs provide a tiered approach to environmental risk assessments. Under Tier 1, sample data are directly compared to ESLs for a more conservative conceptual site model (e.g., residential land use and potable groundwater). The ESLs are considered to be protective for typical San Francisco Bay Area sites. Under most circumstances, and within the limitations described, the presence of a chemical in soil, or groundwater at concentrations below the corresponding Tier 1 ESL can be assumed to not pose a significant threat to human health, water resources, or the environment.

SOIL SAMPLES

Analytical results for the nine soil samples collected during the Limited Phase II investigation are presented in Table 1. Detected analytes exceeding Tier 1 ESLs include the following:

- Cobalt was detected above the Tier 1 ESL of 23 milligrams per kilogram (mg/kg) in the following samples:
 - HA02 at 0.5 feet bgs (24 mg/kg)
 - HA04 at 0.5 feet bgs (36 mg/kg)
- Lead was detected above the Tier 1 ESL of 80 mg/kg in the following samples:
 - HA03 at 1.0 feet bgs (180 mg/kg)
 - HA04 at 0.5 feet bgs (210 mg/kg)

- HA05 at 0.5 feet bgs (920 mg/kg)

These detected lead concentrations also exceed the industry rules-of-thumb for potential California hazardous waste (50 mg/kg) and Federal Resource Conservation and Recovery Act (RCRA) hazardous waste (100 mg/kg).

- Nickel was detected above the Tier 1 ESL of 86 mg/kg in the following samples:
 - HA04 at 0.5 feet bgs (700 mg/kg)
 - HA05 at 0.5 feet bgs (260 mg/kg)

These detected nickel concentrations also exceed the industry rules-of-thumb for potential California hazardous waste (200 mg/kg).

- Benzo(a)anthracene was detected above the Tier 1 ESL of 160 micrograms per kilogram ($\mu\text{g}/\text{kg}$) in the following samples:
 - HA02 at 0.5 feet bgs (480 $\mu\text{g}/\text{kg}$)
 - HA04 at 0.5 feet bgs (550 $\mu\text{g}/\text{kg}$)
- Benzo(a)pyrene was detected above the Tier 1 ESL of 16 $\mu\text{g}/\text{kg}$ in the following samples:
 - HA01 at 0.5 feet bgs (230 $\mu\text{g}/\text{kg}$)
 - HA02 at 0.5 feet bgs (510 $\mu\text{g}/\text{kg}$)
 - HA02 at 24 feet bgs (140 $\mu\text{g}/\text{kg}$)
 - HA03 at 1.0 feet bgs (95 $\mu\text{g}/\text{kg}$)
 - HA04 at 0.5 feet bgs (800 $\mu\text{g}/\text{kg}$)
 - HA05 at 0.5 feet bgs (130 $\mu\text{g}/\text{kg}$)
- Benzo(b)fluoranthene was detected above the Tier 1 ESL of 160 $\mu\text{g}/\text{kg}$ in the following samples:
 - HA01 at 0.5 feet bgs (320 $\mu\text{g}/\text{kg}$)
 - HA02 at 0.5 feet bgs (560 $\mu\text{g}/\text{kg}$)
 - HA04 at 0.5 feet bgs (1200 $\mu\text{g}/\text{kg}$)
 - HA05 at 0.5 feet bgs (370 $\mu\text{g}/\text{kg}$)
- Dibenz(a,h)anthracene was detected above the Tier 1 ESL of 16 $\mu\text{g}/\text{kg}$ in the following samples:
 - HA02 at 0.5 feet bgs (79 $\mu\text{g}/\text{kg}$)
 - HA02 at 24 feet bgs (28 $\mu\text{g}/\text{kg}$)
 - HA04 at 0.5 feet bgs (150 $\mu\text{g}/\text{kg}$)
- Indeno(1,2,3-cd)pyrene was detected above the Tier 1 ESL of 160 $\mu\text{g}/\text{kg}$ in the following samples:
 - HA02 at 0.5 feet bgs (220 $\mu\text{g}/\text{kg}$)
 - HA04 at 0.5 feet bgs (540 $\mu\text{g}/\text{kg}$)
 - HA05 at 0.5 feet bgs (210 $\mu\text{g}/\text{kg}$)
- Naphthalene was detected above the Tier 1 ESL of 33 $\mu\text{g}/\text{kg}$ in the following samples:
 - HA02 at 0.5 feet bgs (54 $\mu\text{g}/\text{kg}$)
- TPH-DRO was detected above the Tier 1 ESL of 230 $\mu\text{g}/\text{kg}$ in the following samples:
 - HA01 at 0.5 feet bgs (590 $\mu\text{g}/\text{kg}$)

- HA04 at 0.5 feet bgs (580 µg/kg)
- HA05 at 0.5 feet bgs (510 µg/kg)

GROUNDWATER SAMPLE

Analytical results for the three grab groundwater samples collected during the Limited Phase II investigation are presented in Table 2. Detected analytes exceeding Tier 1 ESLs include the following:

- 1,2-Dichloroethane (DCA) was detected at a concentration of 1.3 micrograms per liter (µg/L) in Boring HA01, and at 1.5 µg/L in Boring HA02, exceeding its Tier 1 ESL of 0.50 µg/L.
- Lead was detected in concentrations ranging from 0.012 to 0.019 milligrams per liter (mg/L) in the three samples, exceeding its Tier 1 ESL of 0.0025 mg/L.

Discussion of Results

SOIL

Several metals, PAHs, and TPH-DRO were detected at concentrations exceeding Tier 1 ESLs. Given these Tier 1 exceedances, a Tier 2 evaluation was conducted to determine whether the detected concentration would also represent a potential concern for commercial/industrial land use. The Tier 2 evaluation did not include leaching to groundwater as the shallow groundwater unit encountered below the site is not a current or likely future drinking water resource.

- Cobalt: The Tier 1 ESL (23 mg/kg) for cobalt is based on direct exposure to residential shallow soil. Detected concentrations did not exceed the ESL established by the RWQCB for direct exposure to commercial/industrial shallow soil (350 mg/kg).
- Lead: The Tier 1 ESL (80 mg/kg) for lead is based on direct exposure to residential shallow soil. Detected concentrations in HA05 also exceeded the ESL established by the RWQCB for direct exposure to commercial/industrial shallow soil (320 mg/kg).
- Nickel: The Tier 1 ESL (86 mg/kg) for nickel is based on direct exposure to soil for construction workers. Detected concentrations did not exceed the ESL established by the RWQCB for direct exposure to residential shallow soil (820 mg/kg) or commercial/industrial shallow soil (11,000 mg/kg).
- Benzo(a)anthracene: The Tier 1 ESL (160 µg/kg) for benzo(a)anthracene is based on direct exposure to residential shallow soil. Detected concentrations did not exceed the ESL established by the RWQCB for direct exposure to commercial/industrial shallow soil (2,900 µg/kg).
- Benzo(a)pyrene: The Tier 1 ESL (16 µg/kg) for benzo(a)pyrene is based on direct exposure to residential shallow soil. Detected concentrations in HA02 and HA04 also exceeded the ESL established by the RWQCB for direct exposure to commercial/industrial shallow soil (290 µg/kg).

- Benzo(b)fluoranthene: The Tier 1 ESL (160 µg/kg) for benzo(b)fluoranthene is based on direct exposure to residential shallow soil. Detected concentrations did not exceed the ESL established by the RWQCB for direct exposure to commercial/industrial shallow soil (2,900 µg/kg).
- Dibenz(a,h)anthracene: The Tier 1 ESL (16 µg/kg) for dibenz(a,h)anthracene is based on direct exposure to residential shallow soil. Detected concentrations did not exceed the ESL established by the RWQCB for direct exposure to commercial/industrial shallow soil (290 µg/kg).
- Indeno(1,2,3-cd)pyrene: The Tier 1 ESL (160 µg/kg) for indeno(1,2,3-cd)pyrene is based on direct exposure to residential shallow soil. Detected concentrations did not exceed the ESL established by the RWQCB for direct exposure to commercial/industrial shallow soil (2,900 µg/kg).
- Naphthalene: The Tier 1 ESL (33 µg/kg) for naphthalene is based on potential leaching to groundwater, where groundwater is a drinking water source. Groundwater at the site is not a drinking water source. Detected concentrations did not exceed the ESL established by the RWQCB for direct exposure to residential shallow soil (3,300 µg/kg).
- TPH-DRO: The Tier 1 ESL (230 mg/kg) for TPH-DRO is based on direct exposure to residential shallow soil. Detected concentrations did not exceed the ESL established by the RWQCB for direct exposure to commercial/industrial shallow soil (1,100 mg/kg).

Concentrations of lead and benzo(a)pyrene exceeded ESLs for both residential and commercial/industrial shallow soils, while the other eight analytes listed above only exceeded residential ESLs. Therefore, depending on the site's redevelopment plans, mitigation measures will be warranted to address these areas of impacted soil that is primarily present in surface soil.

Detected lead and nickel concentrations also exceeded the industry rule-of-thumb for assessing whether this soil would be characterized as California hazardous waste should it be excavated as part of the redevelopment plans. As the lead and nickel concentrations exceeded 10 times the California Soluble Threshold Limit Concentration (STLC), and the lead concentration additionally exceeded 20 times the Toxicity Characteristic Leaching Procedure (TCLP), further testing may be required should this soil be excavated and transported offsite for disposal. This characterization would determine whether this soil would require special handling as California hazardous or RCRA hazardous waste.

GROUNDWATER

The majority of the groundwater results were non-detect for the analyzed parameters. The concentrations of two analytes, 1,2-DCA and lead, exceeded their respective Tier 1 ESLs. The Tier 1 ESL for 1,2-DCA is based on groundwater being used as a drinking water source, which is not a relevant exposure concern for the site. The concentration of 1,2-DCA was less than the next highest relevant ESL established by the RWQCB of 90 µg/L for assessing vapor intrusion risk from deep groundwater (i.e., greater than 10 feet bgs). The Tier 1 ESLs for lead is based on fresh water ecotoxicity, which is not applicable to onsite receptors or activities. The detected lead concentrations are below the gross

contamination level ESLs established by the RWQCB, 50 mg/L.¹ Therefore, the groundwater underlying the site does not appear to present an environmental concern to future redevelopment.

Conclusions and Recommendations

The results of the Limited Phase II conducted for the site identified surface soil with minor environmental concerns should either residential or commercial/industrial redevelopment be considered. The potential generation of California or RCRA hazardous waste was also noted. No environmental concerns were identified for the underlying shallow groundwater as this groundwater is not considered a current or potential future source of drinking water.

Given the surface soil impacts identified to be present at the site, Haley & Aldrich recommends Trammell Crow/TC Agoge conduct a more invasive subsurface investigation following the cessation of this site's truck repair operations and removal of its aboveground features. The information obtained from this investigation will assist in the preparation of a Soil Management Plan to be followed should the site undergo redevelopment. This Soil Management Plan would specify the areas of concern identified from the site investigation findings and include special handling and management procedures for the impacted soil conditions. Haley & Aldrich notes that should Trammell Crow/TC Agoge seek a regulatory "no further action" determination following the removal of the impacted soil conditions, the site would be required to enter in to the Santa Clara County Department of Environmental Health's Voluntary Cleanup Program.

¹ The detected lead concentration was not compared against the California Maximum Contaminant Level of 0.015 mg/L as this shallow groundwater unit is not likely considered a drinking water resource.

We appreciate the opportunity to perform these services for you on this project. Please do not hesitate to call if you have any questions or comments.

Sincerely yours,
HALEY & ALDRICH, INC.

Edison Ticken, P.E.
Assistant Project Manager

Voytek Bajsarowicz
Senior Associate

Enclosures:

- References
- Table 1 – Summary of Soil Analytical Results
- Table 2 – Summary of Groundwater Analytical Results
- Figure 1 – Project Locus
- Figure 2 – Site Plan
- Appendix A – Soil Boring Logs and Field Reports
- Appendix B – Laboratory Reports

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REFERENCES

San Francisco Bay Regional Water Quality Control Board (SFBRWQCB), 2013. User's Guide: Derivation and Application of Environmental Screening Levels, Interim Final. Oakland, CA.

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TABLES

Location	Tier 1 Soil ESLs ¹	HA01	HA01	HA02	HA02	HA02	HA03	HA03	HA04	HA05
Sample Date		03/02/2017	03/02/2017	03/02/2017	03/02/2017	03/02/2017	03/02/2017	03/02/2017	03/03/2017	03/03/2017
Sample Depth (ft bgs)		0.5	28	0.5	24	30	1.0	20	0.5	0.5
Metal Compounds (mg/kg)										
Antimony	31	< 0.20 J	< 0.21 J	1.7 J	< 0.29 J	< 0.17 J	1.2 J	< 0.24 J	1.2	< 0.18
Arsenic	11 ²	4.3	4.5	< 0.24	3.8	6.8	4.4	3.9	< 0.19	< 0.18
Barium	3000	130 J	110 J	31 J	95 J	130 J	180 J	100 J	95	59
Beryllium	42	< 0.078	0.31	< 0.092	< 0.11	0.25	< 0.076	< 0.092	0.30	0.22
Cadmium	39	0.42	< 0.031	< 0.035	< 0.043	< 0.026	0.36	< 0.035	2.8	1.1
Chromium	120000	35	44	56	44	40	110	58	540	130
Cobalt	23	9.2	9.7	24	11	7.9	16	12	36	15
Copper	3100	27	19	68	23	20	51	27	82	48
Lead	80	48 J	4.4 J	2.3 J	4.9 J	4.5 J	180 J	5.6 J	210	920
Mercury	13	< 0.0086	0.052 J	< 0.0079	0.044 J	< 0.0082	0.17 J	< 0.0075	0.21	0.15
Molybdenum	390	< 0.15	< 0.16	< 0.18	< 0.22	< 0.13	< 0.15	< 0.18	< 0.15	< 0.14
Nickel	86	46	49	40	59	49	170	85	700	260
Selenium	390	< 0.36	< 0.38	< 0.42	< 0.52	< 0.31	< 0.35	< 0.43	< 0.34	< 0.32
Silver	390	< 0.12	< 0.13	< 0.14	< 0.17	< 0.11	< 0.12	< 0.14	< 0.11	< 0.11
Thallium	0.78	< 0.35	< 0.36	< 0.41	< 0.50	< 0.30	< 0.34	< 0.41	< 0.33	< 0.31
Vanadium	390	38	32	130	39	38	40	43	26	16
Zinc	23000	98	57	70	56	47	190	59	3,400	430
Polychlorinated Biphenyls (PCBs) (µg/kg)										
Aroclor-1016 (PCB-1016)	250 ³	< 1.8	-	< 1.8	-	-	< 1.8	-	< 1.8	< 1.8
Aroclor-1221 (PCB-1221)	250 ³	< 1.8	-	< 1.8	-	-	< 1.8	-	< 1.8	< 1.8
Aroclor-1232 (PCB-1232)	250 ³	< 1.8	-	< 1.8	-	-	< 1.8	-	< 1.8	< 1.8
Aroclor-1242 (PCB-1242)	250 ³	< 1.8	-	< 1.8	-	-	< 1.8	-	< 1.8	< 1.8
Aroclor-1248 (PCB-1248)	250 ³	< 1.8	-	< 1.8	-	-	< 1.8	-	< 1.8	< 1.8
Aroclor-1254 (PCB-1254)	250 ³	< 1.8	-	< 1.8	-	-	< 1.8	-	< 1.8	< 1.8
Aroclor-1260 (PCB-1260)	250 ³	< 5.2	-	< 5.3	-	-	63	-	58 J	110 J
Polynuclear Aromatic Hydrocarbons (PAHs) (µg/kg)										
Acenaphthene	16000	< 14	< 1.4	190	46	< 1.4	< 7.0	< 1.4	< 14	< 14
Acenaphthylene	13000	< 12	< 1.2	< 6.0	< 1.2	< 1.2	< 5.9	< 1.2	< 12	< 12
Anthracene	2800	< 9.7	< 0.96	430	140	< 0.97	< 4.8	< 0.97	140	< 9.7
Benzo(a)anthracene	160	160	< 0.73	480	160	< 0.74	83	< 0.74	550	72
Benzo(a)pyrene	16	230	< 0.91	510	140	< 0.92	95	< 0.92	800	130
Benzo(b)fluoranthene	160	320	< 1.1	560	150	< 1.1	150	5.3	1,200	370
Benzo(g,h,i)perylene	2500	140	< 2.1	200	76	< 2.1	59	7.2	570	640
Benzo(k)fluoranthene	1600	130	< 1.0	250	61	< 1.0	52	< 1.0	470	< 10
Chrysene	3800	210	< 0.70	530	160	< 0.71	110	< 0.70	790	93
Dibenz(a,h)anthracene	16	< 18	< 1.7	79	28	< 1.8	< 8.8	< 1.8	150	< 18
Fluoranthene	60000	360	< 0.70	1,300	410	< 0.70	130	< 0.70	1,400	100
Fluorene	8900	< 11	< 1.1	170	41	< 1.1	< 5.5	< 1.1	< 11	< 11
Indeno(1,2,3-cd)pyrene	160	140	< 2.1	220	76	< 2.1	59	< 2.1	540	210
Naphthalene	33	< 18	< 1.7	54	7.2	< 1.8	< 8.8	< 1.8	< 17	< 18
Phenanthrene	11000	170	< 0.91	1,400	400	< 0.92	54	8.2	680	57
Pyrene	85000	310	< 0.82	1,100	370	< 0.83	120	< 0.83	1,100	94
Total Petroleum Hydrocarbons (mg/kg)										
Total Petroleum Hydrocarbons (C10-C28) DRO	230	590	1.6	51	4.8	1.5	110	2.8	580	510
Total Petroleum Hydrocarbons (C24-C36) Motor Oil	5100	1,600	< 0.57	220	< 0.58	< 0.58	470	< 0.57	1,400	1,400
Volatile Organic Compounds (VOCs) (µg/kg)										
1,1,1,2-Tetrachloroethane	10	< 0.75	< 0.76	< 0.76	< 0.74	< 0.76	< 0.74	< 0.76	< 0.73	< 0.75
1,1,1-Trichloroethane	7800	< 0.60	< 0.61	< 0.61	< 0.59	< 0.61	< 0.59	< 0.61	< 0.59	< 0.60
1,1,2,2-Tetrachloroethane	18	< 0.74	< 0.75	< 0.75	< 0.73	< 0.75	< 0.73	< 0.75	< 0.72	< 0.74
1,1,2-Trichloroethane	70	< 0.69	< 0.70	< 0.70	< 0.68	< 0.70	< 0.68	< 0.70	< 0.67	< 0.69
1,1-Dichloroethane	200	< 0.67	< 0.68	< 0.68	< 0.66	< 0.68	< 0.66	< 0.68	< 0.65	< 0.67
1,1-Dichloroethene	550	< 0.61	< 0.62	< 0.62	< 0.60	< 0.62	< 0.60	< 0.62	< 0.60	< 0.61
1,1-Dichloropropene	--	< 0.68	< 0.69	< 0.69	< 0.67	< 0.69	< 0.67	< 0.69	< 0.66	< 0.68
1,2,3-Trichlorobenzene	--	< 0.73	< 0.74	< 0.74	< 0.72	< 0.74	< 0.72	< 0.74	< 0.71	< 0.73
1,2,3-Trichloropropane	--	< 0.75	< 0.77	< 0.77	< 0.75	< 0.77	< 0.74	< 0.77	< 0.74	< 0.75
1,2,4-Trichlorobenzene	1500	< 0.70	< 0.71	< 0.71	< 0.69	< 0.71	< 0.69	< 0.71	< 0.68	< 0.70
1,2,4-Trimethylbenzene	--	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
1,2-Dibromo-3-chloropropane (DBCP)	4.5	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.6	< 1.7	< 1.6	< 1.7
1,2-Dibromoethane (Ethylene Dibromide)	0.33	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
1,2-Dichlorobenzene	1600	< 0.67	< 0.68	< 0.68	< 0.66	< 0.68	< 0.66	< 0.68	< 0.65	< 0.67
1,2-Dichloroethane	4.5	< 0.75	< 0.76	< 0.76	< 0.74	< 0.76	< 0.74	< 0.76	< 0.73	< 0.75
1,2-Dichloropropane	120	< 0.62	< 0.63	< 0.63	< 0.61	< 0.63	< 0.61	< 0.63	< 0.61	< 0.62
1,3,5-Trimethylbenzene	--	< 0.64	< 0.65	< 0.65	< 0.63	< 0.65	< 0.63	< 0.65	< 0.62	< 0.64
1,3-Dichlorobenzene	7400	< 0.71	< 0.72	< 0.72	< 0.70	< 0.72	< 0.70	< 0.72	< 0.69	< 0.71
1,3-Dichloropropane	--	< 0.72	< 0.73	< 0.73	< 0.71	< 0.73	< 0.71	< 0.73	< 0.70	< 0.72
1,4-Dichlorobenzene	590	< 0.70	< 0.71	< 0.71	< 0.69	< 0.71	< 0.69	< 0.71	< 0.68	< 0.70
2,2-Dichloropropane	--	< 2.0	< 2.0	< 2.0	< 1.9	< 2.0	< 1.9	< 2.0	< 1.9	< 2.0
2-Butanone (Methyl Ethyl Ketone)	5100	< 21	< 21	< 21	< 20	< 21	< 20	< 21	< 20	< 21
2-Chlorotoluene	--	< 0.64	< 0.65	< 0.65	< 0.63	< 0.65	< 0.63	< 0.65	< 0.62	< 0.64
2-Hexanone	--	< 9.8	< 10	< 10	< 9.7	< 10	< 9.7	< 9.9	< 9.6	< 9.8
2-Phenylbutane (sec-Butylbenzene)	--	< 0.71	< 0.72	< 0.72	< 0.70	< 0.72	< 0.70	< 0.72	< 0.69	< 0.71
4-Chlorotoluene	--	< 0.67	< 0.68	< 0.68	< 0.66	< 0.68	< 0.66	< 0.68	< 0.65	< 0.67
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	2800	< 9.8	< 10	< 10	< 9.7	< 10	< 9.7	< 9.9	< 9.6	< 9.8
Acetone	500	< 37	< 38	< 38	< 37	< 38	< 37	< 38	< 37	< 37
Benzene	44	< 0.64	< 0.65	< 0.65	< 0.63	< 0.65	< 0.63	< 0.65	< 0.62	< 0.64
Bromobenzene	--	< 0.77	< 0.79	< 0.79	< 0.77	< 0.79	< 0.76	< 0.79	< 0.76	< 0.77
Bromodichloromethane	520	< 0.71	< 0.72	< 0.72	< 0.70	< 0.72	< 0.70	< 0.72	< 0.69	< 0.71
Bromoform	1700	< 2.0	< 2.0	< 2.0	< 1.9	< 2.0	< 1.9	< 2.0	< 1.9	< 2.0
Bromomethane (Methyl Bromide)	300	< 0.77	< 0.79	< 0.79	< 0.77	< 0.79	< 0.76	< 0.79	< 0.76	< 0.77
Carbon disulfide	--	< 2.0	< 2.0	< 2.0	< 1.9	< 2.0	< 1.9	< 2.0	< 1.9	< 2.0
Carbon tetrachloride	48	< 0.61	< 0.62	< 0.62	< 0.60	< 0.62	< 0.60	< 0.62	< 0.60	< 0.61
Chlorobenzene	1500	< 0.68	< 0.69	< 0.69	< 0.67	< 0.69	< 0.67	< 0.69	< 0.66	< 0.68
Chlorobromomethane	--	< 0.71	< 0.72	< 0.72	< 0.70	< 0.72	< 0.70	< 0.72	< 0.69	< 0.71
Chloroethane	1100	< 0.55	< 0.56	< 0.56	< 0.55	< 0.56	< 0.54	< 0.56	< 0.54	< 0.55
Chloroform (Trichloromethane)	68	< 0.65	< 0.66	< 0.66	< 0.64	< 0.66	< 0.64	< 0.66	< 0.63	< 0.65
Chloromethane (Methyl Chloride)	29000	< 0.71	< 0.72	< 0.72	< 0.70	< 0.72	< 0.70	< 0.72	< 0.69	< 0.71

Location		HA01	HA01	HA02	HA02	HA02	HA03	HA03	HA04	HA05
Sample Date	Tier 1 Soil ESLs ¹	03/02/2017	03/02/2017	03/02/2017	03/02/2017	03/02/2017	03/02/2017	03/02/2017	03/03/2017	03/03/2017
Sample Depth (ft bgs)		0.5	28	0.5	24	30	1.0	20	0.5	0.5
cis-1,2-Dichloroethene	190	< 0.67	< 0.68	< 0.68	< 0.66	< 0.68	< 0.66	< 0.68	< 0.65	< 0.67
cis-1,3-Dichloropropene	--	< 0.68	< 0.69	< 0.69	< 0.67	< 0.69	< 0.67	< 0.69	< 0.66	< 0.68
Cymene (p-Isopropyltoluene)	--	< 2.5	< 2.5	< 2.5	< 2.4	< 2.5	< 2.4	< 2.5	< 2.4	< 2.5
Dibromochloromethane	3800	< 0.70	< 0.71	< 0.71	< 0.69	< 0.71	< 0.69	< 0.71	< 0.68	< 0.70
Dibromomethane	--	< 0.84	< 0.86	< 0.86	< 0.84	< 0.86	< 0.83	< 0.85	< 0.83	< 0.84
Dichlorodifluoromethane (CFC-12)	--	< 0.77	< 0.79	< 0.79	< 0.77	< 0.79	< 0.76	< 0.79	< 0.76	< 0.77
Ethylbenzene	1400	< 0.74	< 0.75	< 0.75	< 0.73	< 0.75	< 0.73	< 0.75	< 0.72	< 0.74
Hexachlorobutadiene	680	< 0.88	< 0.90	< 0.90	< 0.88	< 0.90	< 0.87	< 0.89	< 0.87	< 0.88
Isopropylbenzene (Cumene)	--	< 0.67	< 0.68	< 0.68	< 0.66	< 0.68	< 0.66	< 0.68	< 0.65	< 0.67
Methyl Tert Butyl Ether	23	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Methylene chloride	77	< 3.9	< 4.0	< 4.0	< 3.9	< 4.0	< 3.9	< 4.0	< 3.8	< 3.9
Naphthalene	33	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.4	< 1.5
n-Butylbenzene	--	< 0.98	< 1.0	< 1.0	< 0.97	< 1.0	< 0.97	< 0.99	< 0.96	< 0.98
n-Propylbenzene	--	< 0.65	< 0.66	< 0.66	< 0.64	< 0.66	< 0.64	< 0.66	< 0.63	< 0.65
Styrene	1500	< 0.62	< 0.63	< 0.63	< 0.61	< 0.63	< 0.61	< 0.63	< 0.61	< 0.62
tert-Butylbenzene	--	< 0.72	< 0.73	< 0.73	< 0.71	< 0.73	< 0.71	< 0.73	< 0.70	< 0.72
Tetrachloroethene	420	< 0.66	< 0.67	< 0.67	< 0.65	< 0.67	< 0.65	< 0.67	< 0.64	< 0.66
Toluene	2900	< 0.70	< 0.71	< 0.71	< 0.69	< 0.71	< 0.69	< 0.71	< 0.68	< 0.70
Total Petroleum Hydrocarbons (C5-C12) GRO	100000	< 98	< 98	< 94	< 97	< 99	< 97	< 99	< 96	< 98
trans-1,2-Dichloroethene	670	< 0.74	< 0.75	< 0.75	< 0.73	< 0.75	< 0.73	< 0.75	< 0.72	< 0.74
trans-1,3-Dichloropropene	--	< 0.66	< 0.67	< 0.67	< 0.65	< 0.67	< 0.65	< 0.67	< 0.64	< 0.66
Trichloroethene	460	< 0.62	< 0.63	< 0.63	< 0.61	< 0.63	< 0.61	< 0.63	< 0.61	< 0.62
Trichlorofluoromethane (CFC-11)	--	< 0.55	< 0.56	< 0.56	< 0.55	< 0.56	< 0.54	< 0.56	< 0.54	< 0.55
Trifluorotrchloroethane (Freon 113)	--	< 2.0	< 2.1	< 2.1	< 2.0	< 2.1	< 2.0	< 2.1	< 2.0	< 2.0
Vinyl acetate	--	< 4.9	< 5.0	< 5.0	< 4.9	< 5.0	< 4.8	< 5.0	< 4.8	< 4.9
Vinyl chloride	8.2	< 0.72	< 0.73	< 0.73	< 0.71	< 0.73	< 0.71	< 0.73	< 0.70	< 0.72
Xylene (total)	2300	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2

1. Tier 1 Environmental Screening Level (ESL) established for soil by the San Francisco Bay Regional Water Quality Control Board (RWQCB), dated February 2016 (Rev 3)
 2. Arsenic concentrations compared to the regional background level of 11 mg/kg as established by: Duvergé, D.J., 2011. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region. Master's thesis, San Francisco State University
 3. PCB Tier 1 ESL is for total PCBs
- Bold** = Concentration exceeds Tier 1 Soil ESL
ft bgs: feet below ground surface
DRO: Diesel Range Organics
GRO: Gasoline Range Organics
mg/kg: milligrams per kilogram
µg/kg: micrograms per kilogram
< X: analyte not detected at a concentration greater than or equal to laboratory reporting limit of X
J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
59 SOUTH AUTUMN STREET
SAN JOSE, CALIFORNIA

Location Sample Date	Tier 1 Groundwater ESLs ¹	HA01-GW	HA02-GW	HA03-GW
		03/02/2017	03/02/2017	03/02/2017
Metal Compounds (mg/L)				
Antimony, Dissolved	0.0060	< 0.0041	< 0.0041	< 0.0041
Arsenic, Dissolved	0.010	< 0.0029	< 0.0029	< 0.0029
Barium, Dissolved	1.0	0.16	0.14	0.094
Beryllium, Dissolved	0.0027	< 0.00059	< 0.00059	< 0.00059
Cadmium, Dissolved	0.00025	< 0.00021	< 0.00021	< 0.00021
Chromium, Dissolved	0.050	< 0.00070	< 0.00070	< 0.00070
Cobalt, Dissolved	0.0030	< 0.00068	0.0027	0.0030
Copper, Dissolved	0.0031	< 0.0037	< 0.0037	< 0.0037
Lead, Dissolved	0.0025	0.012	0.019	0.018
Mercury, Dissolved	0.000051	< 0.00010	< 0.00010	< 0.00010
Molybdenum, Dissolved	0.10	< 0.0029	< 0.0029	< 0.0029
Nickel, Dissolved	0.0082	< 0.0010	< 0.0010	< 0.0010
Selenium, Dissolved	0.0050	< 0.0046	< 0.0046	< 0.0046
Silver, Dissolved	0.00019	< 0.0020	< 0.0020	< 0.0020
Thallium, Dissolved	0.0020	< 0.0035	< 0.0035	< 0.0035
Vanadium, Dissolved	0.019	< 0.00087	< 0.00087	< 0.00087
Zinc, Dissolved	0.081	0.049	0.055	0.042

Polynuclear Aromatic Hydrocarbons (PAHs) (µg/L)				
Acenaphthene	20	< 0.042	< 0.032	< 0.044
Acenaphthylene	30	< 0.042	< 0.032	< 0.044
Anthracene	0.73	< 0.035	< 0.026	< 0.036
Benzo(a)anthracene	0.027	< 0.032	< 0.025	< 0.034
Benzo(a)pyrene	0.012	< 0.028	< 0.021	< 0.029
Benzo(b)fluoranthene	0.017	< 0.036	< 0.027	< 0.038
Benzo(g,h,i)perylene	0.10	< 0.026	< 0.020	< 0.028
Benzo(k)fluoranthene	0.014	< 0.041	< 0.031	< 0.043
Chrysene	0.049	< 0.037	< 0.028	< 0.039
Dibenz(a,h)anthracene	0.0034	< 0.031	< 0.024	< 0.033
Fluoranthene	8.0	< 0.036	< 0.027	< 0.038
Fluorene	3.9	< 0.037	< 0.028	< 0.039
Indeno(1,2,3-cd)pyrene	0.034	< 0.032	< 0.025	< 0.034
Naphthalene	0.17	< 0.036	< 0.027	< 0.038
Phenanthrene	4.6	< 0.036	< 0.027	< 0.038
Pyrene	2.0	< 0.042	< 0.032	< 0.044

Total Petroleum Hydrocarbons (µg/L)				
Total Petroleum Hydrocarbons (C10-C28) DRO	100	< 19	< 23	< 22
Total Petroleum Hydrocarbons (C24-C36) Motor Oil	--	140	< 43	< 43

Volatile Organic Compounds (VOCs) (µg/L)				
1,1,1,2-Tetrachloroethane	0.57	< 0.067	< 0.067	< 0.067
1,1,1-Trichloroethane	62	< 0.20	< 0.20	< 0.20
1,1,2,2-Tetrachloroethane	1.0	< 0.074	< 0.074	< 0.074
1,1,2-Trichloroethane	5.0	< 0.11	< 0.11	< 0.11
1,1-Dichloroethane	5.0	< 0.11	< 0.11	< 0.11
1,1-Dichloroethene	3.2	< 0.20	< 0.20	< 0.20
1,1-Dichloropropene	--	< 0.20	< 0.20	< 0.20
1,2,3-Trichlorobenzene	--	< 0.21	< 0.21	< 0.21
1,2,3-Trichloropropane	--	< 0.087	< 0.087	< 0.087
1,2,4-Trichlorobenzene	--	< 0.13	< 0.13	< 0.13
1,2,4-Trimethylbenzene	--	< 0.20	< 0.20	< 0.20
1,2-Dibromo-3-chloropropane (DBCP)	--	< 0.30	< 0.30	< 0.30
1,2-Dibromoethane (Ethylene Dibromide)	0.20	< 0.075	< 0.075	< 0.075
1,2-Dichlorobenzene	14	< 0.21	< 0.21	< 0.21
1,2-Dichloroethane	0.50	1.3	1.5	< 0.077
1,2-Dichloropropane	5.0	< 0.20	< 0.20	< 0.20
1,3,5-Trimethylbenzene	--	< 0.17	< 0.17	< 0.17
1,3-Dichlorobenzene	65	< 0.20	< 0.20	< 0.20
1,3-Dichloropropane	--	< 0.17	< 0.17	< 0.17
1,4-Dichlorobenzene	--	< 0.16	< 0.16	< 0.16
2,2-Dichloropropane	--	< 0.17	< 0.17	< 0.17
2-Butanone (Methyl Ethyl Ketone)	5600	< 8.4	< 8.4	< 8.4
2-Chlorotoluene	--	< 0.20	< 0.20	< 0.20
2-Hexanone	--	< 3.0	< 3.0	< 3.0
2-Phenylbutane (sec-Butylbenzene)	--	< 0.17	< 0.17	< 0.17
4-Chlorotoluene	--	< 0.20	< 0.20	< 0.20
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	120	< 4.5	< 4.5	< 4.5
Acetone	1500	< 20	< 20	< 20
Benzene	1.0	< 0.25	< 0.25	< 0.25
Bromobenzene	--	< 0.20	< 0.20	< 0.20
Bromodichloromethane	80	< 0.20	< 0.20	< 0.20
Bromoform	80	< 0.50	< 0.50	< 0.50
Bromomethane (Methyl Bromide)	75	< 0.49	< 0.49	< 0.49
Carbon disulfide	--	< 0.78	< 0.78	< 0.78
Carbon tetrachloride	0.22	< 0.11	< 0.11	< 0.11
Chlorobenzene	25	< 0.13	< 0.13	< 0.13
Chlorobromomethane	--	< 0.25	< 0.25	< 0.25
Chloroethane	16	< 0.17	< 0.17	< 0.17
Chloroform (Trichloromethane)	2.3	< 0.40	< 0.40	< 0.40

Location Sample Date	Tier 1 Groundwater ESLs ¹	HA01-GW	HA02-GW	HA03-GW
		03/02/2017	03/02/2017	03/02/2017
Chloromethane (Methyl Chloride)	190	< 0.19	< 0.19	< 0.19
cis-1,2-Dichloroethene	6.0	< 0.076	< 0.076	< 0.076
cis-1,3-Dichloropropene	--	< 0.10	< 0.10	< 0.10
Cymene (p-Isopropyltoluene)	--	< 0.20	< 0.20	< 0.20
Dibromochloromethane	46	< 0.10	< 0.10	< 0.10
Dibromomethane	--	< 0.30	< 0.30	< 0.30
Dichlorodifluoromethane (CFC-12)	--	< 0.10	< 0.10	< 0.10
Ethylbenzene	13	< 0.13	< 0.13	< 0.13
Hexachlorobutadiene	0.14	< 0.27	< 0.27	< 0.27
Isopropylbenzene (Cumene)	--	< 0.20	< 0.20	< 0.20
Methyl Tert Butyl Ether	5.0	< 0.069	< 0.069	< 0.069
Methylene chloride	5.0	< 1.5	< 1.5	< 1.5
Naphthalene	0.17	< 0.22	< 0.22	< 0.22
n-Butylbenzene	--	< 0.30	< 0.30	< 0.30
n-Propylbenzene	--	< 0.20	< 0.20	< 0.20
Styrene	10	< 0.075	< 0.075	< 0.075
tert-Butylbenzene	--	< 0.20	< 0.20	< 0.20
Tetrachloroethene	3.0	< 0.20	< 0.20	< 0.20
Toluene	40	< 0.17	< 0.17	< 0.17
Total Petroleum Hydrocarbons (C5-C12) GRO	100	< 21	< 21	< 21
trans-1,2-Dichloroethene	10	< 0.13	< 0.13	< 0.13
trans-1,3-Dichloropropene	--	< 0.17	< 0.17	< 0.17
Trichloroethene	5.0	< 0.20	< 0.20	< 0.20
Trichlorofluoromethane (CFC-11)	--	< 0.30	< 0.30	< 0.30
Trifluorotrchloroethane (Freon 113)	--	< 0.091	< 0.091	< 0.091
Vinyl acetate	--	< 0.60	< 0.60	< 0.60
Vinyl chloride	0.061	< 0.20	< 0.20	< 0.20
Xylene (total)	20	< 0.40	< 0.40	< 0.40

Notes:

1. Tier 1 Environmental Screening Levels (ESLs) for Groundwater Screening Levels established by the San Francisco Bay Regional Water Quality Control Board (RWQCB), dated February 2016 (Rev 3)

Data qualified with a "J" indicated a low surrogate recovery, and the concentration is estimated.

Bold = Exceeds screening level.

DRO: Diesel Range Organics

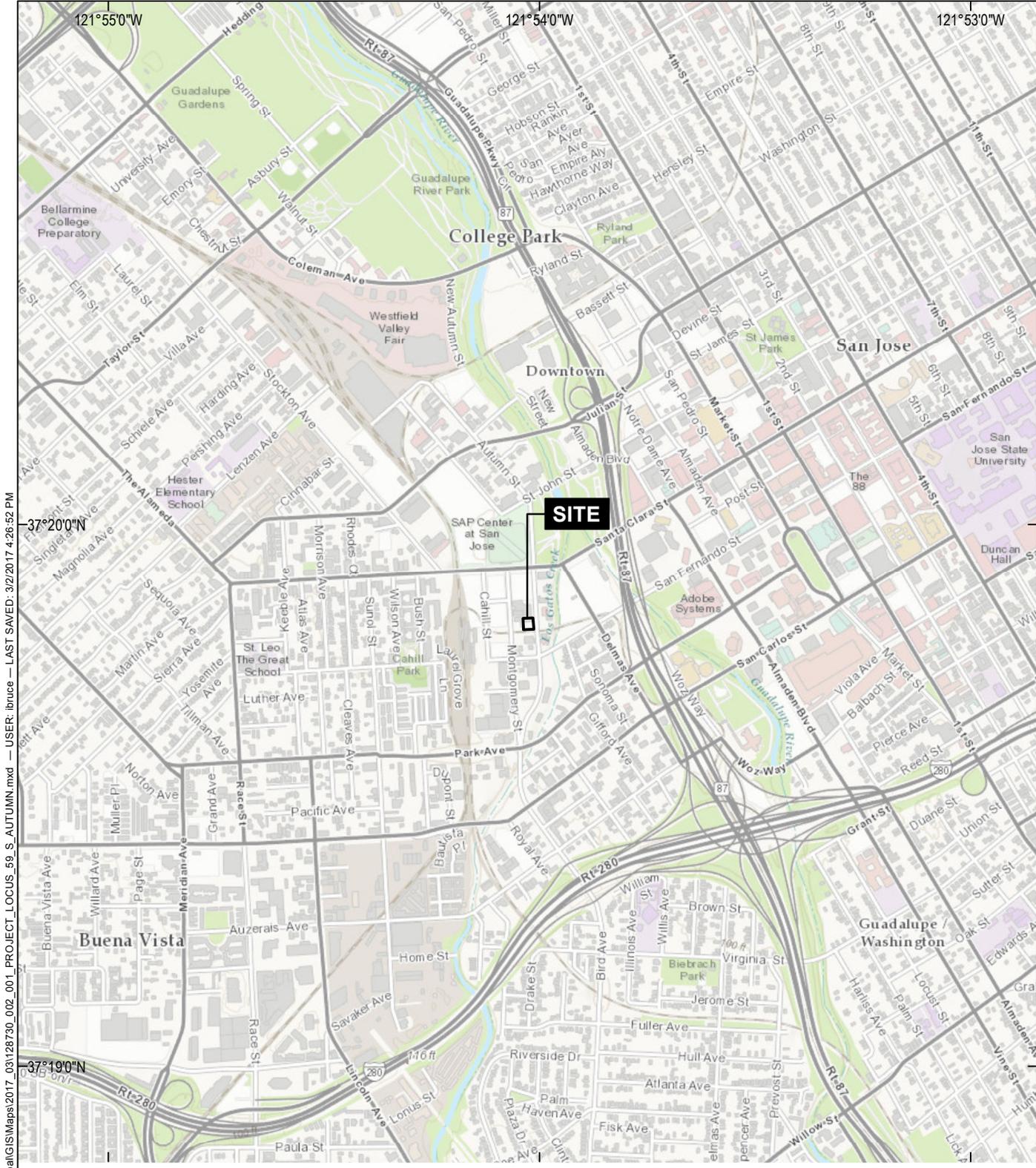
GRO: Gasoline Range Organics

mg/L: milligrams per liter

µg/L: micrograms per liter

< X: analyte not detected at a concentration greater than or equal to laboratory reporting limit of X

FIGURES



GIS FILE PATH: G:\128730_TCC_Assemblage\Global\GIS\Maps\2017_03\128730_002_001_PROJECT_LOCUS_59_S_AUTUMN.mxd — USER: ibruce — LAST SAVED: 3/2/2017 4:26:52 PM



BASE MAP SOURCE: ESRI
 USGS QUAD: SAN JOSE WEST
 SITE COORDINATES: 37°19'49"N 121°54'2"W

CONFIDENTIAL INFORMATION



LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT
 59 SOUTH AUTUMN STREET
 SAN JOSE, CALIFORNIA

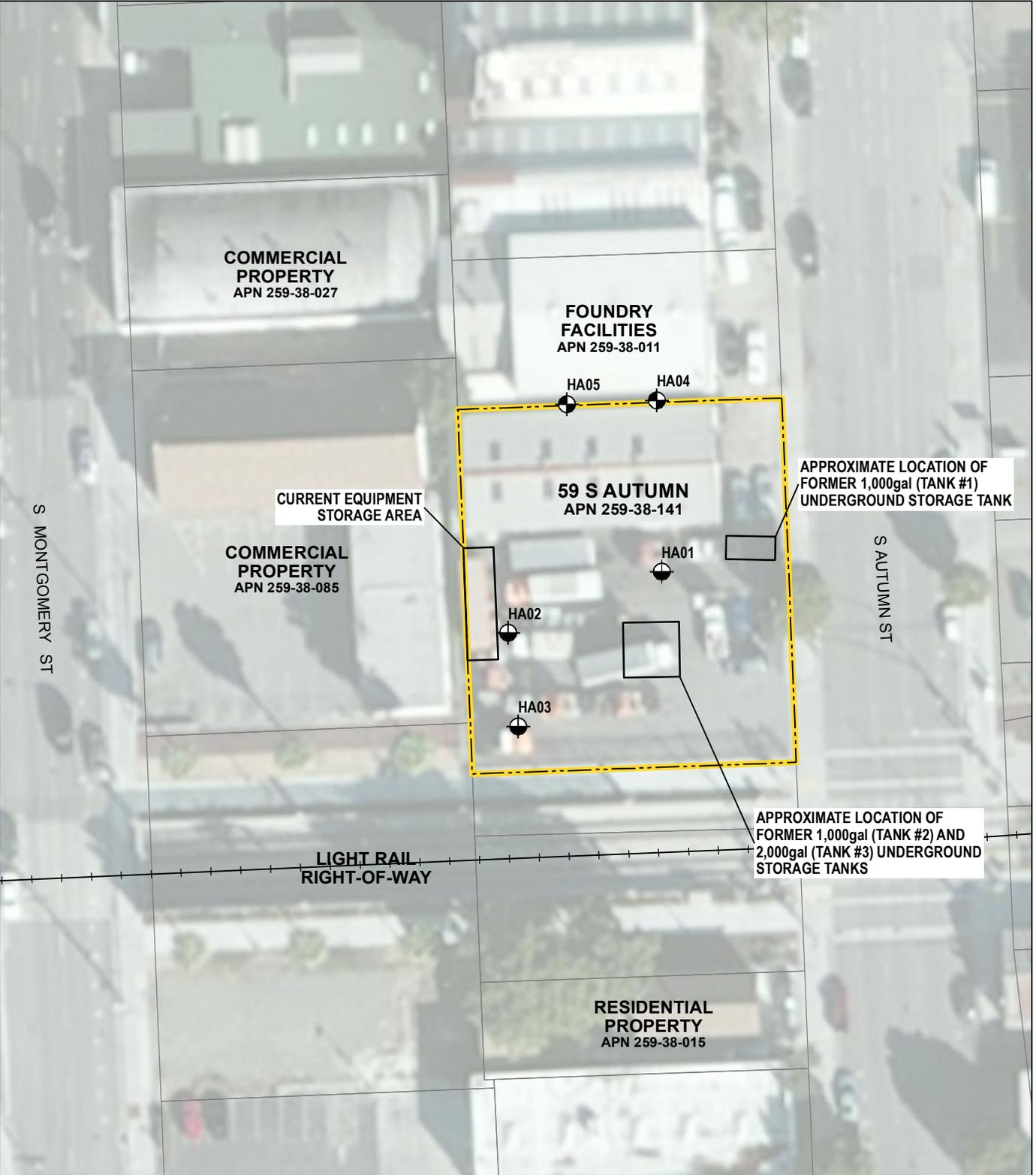
PROJECT LOCUS

APPROXIMATE SCALE: 1 IN = 2000 FT
 MARCH 2017

FIGURE 1

DRAFT

GIS FILE PATH: C:\ajosppe\projects\128730\Global\GIS\Maps\2017_0311\28730_002_002_SITE_PLAN_59_S_AUTUMN.mxd — USER: ajosppe — LAST SAVED: 3/14/2017 7:47:04 PM



LEGEND

-  BORING (SHALLOW SOIL SAMPLE)
-  BORING (SOIL AND GROUNDWATER SAMPLE)
-  LIGHT RAIL
-  SITE BOUNDARY
-  PARCEL BOUNDARY



NOTES

1. AERIAL IMAGERY SOURCE: ESRI
2. PARCEL SOURCE: SANTA CLARA COUNTY

CONFIDENTIAL INFORMATION



LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT
 59 SOUTH AUTUMN STREET
 SAN JOSE, CALIFORNIA

SITE PLAN

MARCH 2017

FIGURE 2

APPENDIX A

Soil Boring Logs and Field Reports

PROJECT: TCC Assemblage - 59 S. Autumn
 LOCATION: San Jose, CA
 CLIENT: Trammell Crow Company
 CONTRACTOR: Gregg Drilling
 DRILLER: Leo Santos

H&A FILE NO.: 128730-004
 PROJECT MGR.: J. Grant
 FIELD REP.: B. Rumley
 DATE STARTED: 03/02/17
 DATE FINISHED: 03/02/17

Elevation	ft.	Datum	Boring Location				
Item	Casing	Sampler	Core Barrel	Rig Make & Model	Hammer Type	Drilling Mud	Casing Advance
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> Cat-Head <input type="checkbox"/> Winch <input type="checkbox"/> Roller Bit <input type="checkbox"/> Cutting Head	<input type="checkbox"/> Safety <input type="checkbox"/> Doughnut <input type="checkbox"/> Automatic	<input type="checkbox"/> Bentonite <input type="checkbox"/> Polymer <input type="checkbox"/> None	Type Method Depth
Inside Diameter (in.)				<input type="checkbox"/> ATV <input type="checkbox"/> Track <input type="checkbox"/> Skid	<input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Air Track		direct push
Hammer Weight (lb.)							
Hammer Fall (in.)							

Depth (ft.)	Sample Recovery	Sample No.	PID (ppmv)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test							
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength			
0	Hand auger					SC	Parasphatic concrete ~3" brown clayey SAND, moist													
5		15.4				CL	dark brown lean CLAY, moist													
10		20.4					↓ olive brown mottled w/ brown													
15		23.6			15	SC	olive brown mottled w/ brown sandy lean CLAY, moist													
					16.5	CL	↓ decreasing sand													
							brown clayey SAND, moist													
							brown lean CLAY w/ sand, moist + sand w/ clay lenses													
20		26.0																		
							clayey sand lense													
							↓ lean CLAY, trace sand													
							↓ sandy lean CLAY													
25		47.3																		
30		5.3																		

Water Level Data			Depth in feet to:			Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	Open End Rod		Riser Pipe	Overburden (Linear ft.) _____	
						T	Thin Wall Tube		Screen	Rock Cored (Linear ft.) _____	
						U	Undisturbed Sample		Filter Sand	Number of Samples _____	
						S	Split Spoon Sample		Cuttings		
						G	Geoprobe		Grout		
									Concrete		
									Bentonite Seal		
Field Tests			Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High		
			Toughness: L - Low M - Medium H - High								

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	TCC Assemblage - 59 S. Autumn	H&A FILE NO.	128730-004
LOCATION	San Jose, CA	PROJECT MGR.	J. Grant
CLIENT	Trammell Crow Company	FIELD REP.	B. Rumley
CONTRACTOR	Gregg Drilling	DATE STARTED	03/02/17
DRILLER	Leo Santos	DATE FINISHED	03/02/17

Elevation	ft.	Datum		Boring Location	
Item	Casing	Sampler	Core Barrel	Rig Make & Model	Hammer Type
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> ATV <input type="checkbox"/> Track <input type="checkbox"/> Skid	<input type="checkbox"/> Tripod <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Air Track <input type="checkbox"/>
Inside Diameter (in.)				<input type="checkbox"/> Cat-Head <input type="checkbox"/> Winch <input type="checkbox"/> Roller Bit <input type="checkbox"/> Cutting Head	<input type="checkbox"/> Safety <input type="checkbox"/> Doughnut <input type="checkbox"/> Automatic
Hammer Weight (lb.)					<input type="checkbox"/> Bentonite <input type="checkbox"/> Polymer <input type="checkbox"/> None
Hammer Fall (in.)					Drilling Notes: <u>direct push</u>

Depth (ft.)	Sample Recovery	Sample No.	PID (ppmv)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel			Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	↑ hand auger ↓					SP-SM	asphaltic concrete ~3" brown sand w/ silt & gravel												
						SC	brown fine SAND like clayey @ 3.0 ft, trace brick frags					60	40						
5							CL	dark brown lean CLAY, trace sand							100				
10		0.0					↓ olive brown mottled w/ brown, increased sand							5	95				
15		46.7					brown sandy lean CLAY, moist							40	60				
20		45.0																	
25		0.0					1st GW encountered @ 21 ft (SP lense)												
						SC	brown clayey SAND, wet							70	30				
						CL	brown lean CLAY w/ sand							10	90				

Water Level Data			Sample ID			Well Diagram			Summary											
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	Riser Pipe	Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal	Overburden (Linear ft.)	Rock Cored (Linear ft.)	Number of Samples
			Bottom of Casing	Bottom of Hole	Water															
Field Tests																	BORING NO. HA03			
Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High											
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.																				
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.																				

PROJECT	<u>TCC Assemblage</u>	H&A FILE NO.	<u>128730-004</u>
LOCATION	<u>San Jose, CA</u>	PROJECT MGR.	<u>J. Grant</u>
CLIENT	<u>Trammel Crow Company</u>	REPORT NO.	
CONTRACTOR	<u>Gregg</u>	DATE	<u>3/2/17</u>
WEATHER		TEMPERATURE	

0800 meet Gregg on site, tenants at 59 and 74 S. Autumn are not there yet, w/ locked gates

0825 tenant (George S.) @ 59 S. Autumn to open gate, walk locations, will have to move cars/trucks

0840 begin @ HAO1

0845 collected sample @ 0.5 ft, just below asphalt

0930 collect sample @ 28 ft, just before hitting GW on next run (28-30 ft)

1000 collect GW sample

1010 low amount of water in boring, move to HAO2 and let recharge

1020 begin @ HAO2

1025 collected sample @ 0.5 ft

1115 collected sample @ 30 ft (no wet soil encountered)

1120 collected sample @ 24 ft due to high PID reading (47.3 ppm), return to HAO1 to finish collecting GW sample

1200 grate up HAO1

1215 collect GW sample @ HAO2 (only filled some bottles, will return later)

1220 break for lunch

1240 begin @ HAO3

1245 collect soil sample @ HAO3 @ 1 ft

1315 collect sample @ 20 ft, just above 1st encountered GW

1345 finish collecting GW sample @ HAO3

1400 begin collecting GW sample @ HAO3

1435 finished collecting " "

1445 begin grating HAO2 and HAO3

1500 Gregg onsite

1630 T. A. pickup

Field Representative(s)	Time on site	Report/Travel/Other	Total hours

Distribution:

PROJECT	ICC Assemblage - 74 S. Autumn	H&A FILE NO.	128730-004
LOCATION	San Jose, CA	PROJECT MGR.	J. Grant
CLIENT	Trammell Crow Company	REPORT NO.	
CONTRACTOR	Gregg	DATE	3/3/17
WEATHER	Sunny	TEMPERATURE	

0750 meet Gregg @ 59 S Autumn to collect shallow soil samples

0810 collect sample @ HA04

0815 collect sample @ HA05

0830 walk location @ HA06 (74 S. Autumn)

0845 begin drilling through concrete @ HA06

0905 collected sample @ 1.0 ft

0930 sample collected @ 15 ft just above encountered GW @ 16 ft

0935 will stop drilling @ 24 ft due to encountered GW and interaction w/ woman working @ 74 S Autumn - wanted us to finish ASAP

0945 begin collecting GW sample

0955 water recharging slowly

1105 finished collecting GW sample w/ missing 2 (1L) bottles (no PAH analysis)

grout up boring

1135 offsite

1140 T.A. pickup

1030 collect IDW sample, drum @ 59 S. Autumn

Field Representative(s)	Time on site	Report/Travel/Other	Total hours

Distribution:

APPENDIX B

Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-78016-1
Client Project/Site: TCC Assemblages

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Jason Grant



Authorized for release by:
3/13/2017 10:29:08 AM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



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: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Job ID: 720-78016-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-78016-1

Comments

No additional comments.

Receipt

The samples were received on 3/2/2017 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

Receipt Exceptions

The following samples were collected in an improper container for TPH-diesel/MO by 8015, PAH's by 8270 : HA01-GW, HA02-GW and HA03-GW. These Extractable analyses need to be collected in amber glass 1L's. The lab received 4-poly 1L's per sample for these two analyses.

The client was contacted regarding this issue, and the laboratory was instructed to proceed with/cancel analysis.

All soil Terra Core DI vials are missing the preweight labels, except HA01-SO-0.5 one DI vial has the preweight label. Also all three Terra Core vials for HA03-SO-1.0 have their preweight labels. Note all Methanol vials have their preweight labels. The sample for VOCs will be analyzed from the jar per client.

GC/MS VOA

Method 8260B: The continuing calibration verification (CCV) associated with batch 720-219053 recovered above the upper control limit for Methylene Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: HA01-SO-0.5 (720-78016-1), HA02-SO-24 (720-78016-6), HA03-SO-20 (720-78016-7) and HA03-SO-1.0 (720-78016-9).

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

GC/MS Semi VOA

Method 8270C SIM: The following samples was diluted due to the abundance of non-target analytes: HA01-SO-0.5 (720-78016-1), HA02-SO-0.5 (720-78016-4) and HA03-SO-1.0 (720-78016-9). 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.

GC Semi VOA

Method 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: HA01-SO-0.5 (720-78016-1), HA02-SO-0.5 (720-78016-4), HA03-SO-1.0 (720-78016-9), (LCS 720-218810/2-A), (MB 720-218810/1-A), (720-78016-D-4-F MS) and (720-78016-D-4-G MSD).

Method 8015B: The following sample required a dilution due to the nature of the sample matrix: HA01-SO-0.5 (720-78016-1), HA03-SO-1.0 (720-78016-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Metals

Method 6010B: The serial dilution performed for the following sample associated with batch 720-218845 was outside control limits: (720-78016-D-1-C SD ^)

Method 6010B: The following samples was diluted due to the abundance of non-target analytes: HA01-SO-0.5 (720-78016-1), HA01-SO-28 (720-78016-2), HA02-SO-0.5 (720-78016-4), HA02-SO-30 (720-78016-5), HA03-SO-20 (720-78016-7) and HA03-SO-1.0 (720-78016-9). 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.

Case Narrative

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Job ID: 720-78016-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

General Chemistry

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

Organic Prep

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

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Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA01-SO-0.5

Lab Sample ID: 720-78016-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	160		50	7.4	ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	230		50	9.2	ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	320		50	11	ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	140		50	21	ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	130		50	10	ug/Kg	10		8270C SIM	Total/NA
Chrysene	210		50	7.1	ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	360		50	7.0	ug/Kg	10		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	140		50	21	ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	170		50	9.1	ug/Kg	10		8270C SIM	Total/NA
Pyrene	310		50	8.3	ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	590		9.9	3.4	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1600		500	5.7	mg/Kg	10		8015B	Total/NA
Arsenic	4.3		2.4	0.20	mg/Kg	4		6010B	Total/NA
Barium	130	F1	1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.42		0.30	0.030	mg/Kg	4		6010B	Total/NA
Chromium	35		1.2	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.2		0.48	0.048	mg/Kg	4		6010B	Total/NA
Copper	27		3.6	1.7	mg/Kg	4		6010B	Total/NA
Lead	48	F1	1.2	0.25	mg/Kg	4		6010B	Total/NA
Nickel	46		1.2	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	98		3.6	1.5	mg/Kg	4		6010B	Total/NA

Client Sample ID: HA01-SO-28

Lab Sample ID: 720-78016-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.6		0.99	0.34	mg/Kg	1		8015B	Total/NA
Arsenic	4.5		2.5	0.21	mg/Kg	4		6010B	Total/NA
Barium	110		1.3	0.18	mg/Kg	4		6010B	Total/NA
Beryllium	0.31		0.25	0.081	mg/Kg	4		6010B	Total/NA
Chromium	44		1.3	0.13	mg/Kg	4		6010B	Total/NA
Cobalt	9.7		0.50	0.050	mg/Kg	4		6010B	Total/NA
Copper	19		3.8	1.8	mg/Kg	4		6010B	Total/NA
Lead	4.4		1.3	0.26	mg/Kg	4		6010B	Total/NA
Nickel	49		1.3	0.13	mg/Kg	4		6010B	Total/NA
Vanadium	32		1.3	0.17	mg/Kg	4		6010B	Total/NA
Zinc	57		3.8	1.6	mg/Kg	4		6010B	Total/NA
Mercury	0.052		0.039	0.0083	mg/Kg	1		7471A	Total/NA

Client Sample ID: HA01-GW

Lab Sample ID: 720-78016-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.3		0.50	0.077	ug/L	1		8260B/CA_LUFT MS	Total/NA
Motor Oil Range Organics [C24-C36]	140		88	37	ug/L	1		8015B	Total/NA
Barium	0.16		0.050	0.0016	mg/L	1		6010B	Dissolved
Lead	0.012		0.0050	0.0022	mg/L	1		6010B	Dissolved
Zinc	0.049		0.020	0.0074	mg/L	1		6010B	Dissolved

Client Sample ID: HA02-SO-0.5

Lab Sample ID: 720-78016-4

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-SO-0.5 (Continued)

Lab Sample ID: 720-78016-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	190		25	7.0	ug/Kg	5		8270C SIM	Total/NA
Anthracene	430	F1 F2	25	4.8	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	480	F1 F2	25	3.7	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	510	F1 F2	25	4.6	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	560	F2	25	5.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	200	F2	25	11	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	250	F2	25	5.1	ug/Kg	5		8270C SIM	Total/NA
Chrysene	530	F1 F2	25	3.5	ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	79		25	8.8	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	1300	F1 F2	25	3.5	ug/Kg	5		8270C SIM	Total/NA
Fluorene	170		25	5.5	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	220	F2	25	11	ug/Kg	5		8270C SIM	Total/NA
Naphthalene	54		25	8.8	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	1400	F2	25	4.6	ug/Kg	5		8270C SIM	Total/NA
Pyrene	1100	F1 F2	25	4.1	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	51		2.0	0.67	mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	220		99	1.1	mg/Kg	2		8015B	Total/NA
Antimony	1.7		1.4	0.23	mg/Kg	4		6010B	Total/NA
Barium	31		1.4	0.20	mg/Kg	4		6010B	Total/NA
Chromium	56		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	24		0.56	0.056	mg/Kg	4		6010B	Total/NA
Copper	68		4.2	2.0	mg/Kg	4		6010B	Total/NA
Lead	2.3		1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	40		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	130		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	70		4.2	1.8	mg/Kg	4		6010B	Total/NA

Client Sample ID: HA02-SO-30

Lab Sample ID: 720-78016-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.5		1.0	0.34	mg/Kg	1		8015B	Total/NA
Arsenic	6.8		2.1	0.18	mg/Kg	4		6010B	Total/NA
Barium	130		1.0	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.25		0.21	0.068	mg/Kg	4		6010B	Total/NA
Chromium	40		1.0	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	7.9		0.42	0.042	mg/Kg	4		6010B	Total/NA
Copper	20		3.1	1.5	mg/Kg	4		6010B	Total/NA
Lead	4.5		1.0	0.22	mg/Kg	4		6010B	Total/NA
Nickel	49		1.0	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	38		1.0	0.14	mg/Kg	4		6010B	Total/NA
Zinc	47		3.1	1.3	mg/Kg	4		6010B	Total/NA

Client Sample ID: HA02-SO-24

Lab Sample ID: 720-78016-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	46		5.0	1.4	ug/Kg	1		8270C SIM	Total/NA
Anthracene	140		5.0	0.97	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	160		5.0	0.74	ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	140		5.0	0.92	ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	150		5.0	1.1	ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-SO-24 (Continued)

Lab Sample ID: 720-78016-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	76		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	61		5.0	1.0	ug/Kg	1		8270C SIM	Total/NA
Chrysene	160		5.0	0.70	ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	28		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	410		5.0	0.70	ug/Kg	1		8270C SIM	Total/NA
Fluorene	41		5.0	1.1	ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	76		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Naphthalene	7.2		5.0	1.8	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	400		5.0	0.91	ug/Kg	1		8270C SIM	Total/NA
Pyrene	370		5.0	0.83	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	4.8		1.0	0.34	mg/Kg	1		8015B	Total/NA
Arsenic	3.8		3.4	0.29	mg/Kg	4		6010B	Total/NA
Barium	95		1.7	0.24	mg/Kg	4		6010B	Total/NA
Chromium	44		1.7	0.18	mg/Kg	4		6010B	Total/NA
Cobalt	11		0.69	0.069	mg/Kg	4		6010B	Total/NA
Copper	23		5.2	2.5	mg/Kg	4		6010B	Total/NA
Lead	4.9		1.7	0.36	mg/Kg	4		6010B	Total/NA
Nickel	59		1.7	0.18	mg/Kg	4		6010B	Total/NA
Vanadium	39		1.7	0.23	mg/Kg	4		6010B	Total/NA
Zinc	56		5.2	2.2	mg/Kg	4		6010B	Total/NA
Mercury	0.044		0.039	0.0085	mg/Kg	1		7471A	Total/NA

Client Sample ID: HA03-SO-20

Lab Sample ID: 720-78016-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	5.3		5.0	1.1	ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	7.2		5.0	2.1	ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	8.2		5.0	0.91	ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	2.8		0.99	0.34	mg/Kg	1		8015B	Total/NA
Arsenic	3.9		2.8	0.24	mg/Kg	4		6010B	Total/NA
Barium	100		1.4	0.20	mg/Kg	4		6010B	Total/NA
Chromium	58		1.4	0.15	mg/Kg	4		6010B	Total/NA
Cobalt	12		0.57	0.057	mg/Kg	4		6010B	Total/NA
Copper	27		4.3	2.0	mg/Kg	4		6010B	Total/NA
Lead	5.6		1.4	0.30	mg/Kg	4		6010B	Total/NA
Nickel	85		1.4	0.14	mg/Kg	4		6010B	Total/NA
Vanadium	43		1.4	0.19	mg/Kg	4		6010B	Total/NA
Zinc	59		4.3	1.8	mg/Kg	4		6010B	Total/NA

Client Sample ID: HA02-GW

Lab Sample ID: 720-78016-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.5		0.50	0.077	ug/L	1		8260B/CA_LUFT MS	Total/NA
Barium	0.14		0.050	0.0016	mg/L	1		6010B	Dissolved
Cobalt	0.0027		0.0020	0.00068	mg/L	1		6010B	Dissolved
Lead	0.019		0.0050	0.0022	mg/L	1		6010B	Dissolved
Zinc	0.055		0.020	0.0074	mg/L	1		6010B	Dissolved

Client Sample ID: HA03-SO-1.0

Lab Sample ID: 720-78016-9

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA03-SO-1.0 (Continued)

Lab Sample ID: 720-78016-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	83		25	3.7	ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	95		25	4.6	ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	150		25	5.3	ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	59		25	11	ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	52		25	5.1	ug/Kg	5		8270C SIM	Total/NA
Chrysene	110		25	3.5	ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	130		25	3.5	ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	59		25	11	ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	54		25	4.6	ug/Kg	5		8270C SIM	Total/NA
Pyrene	120		25	4.1	ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	110		5.0	1.7	mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	470		250	2.9	mg/Kg	5		8015B	Total/NA
PCB-1260	63		49	5.2	ug/Kg	1		8082	Total/NA
Antimony	1.2		1.2	0.19	mg/Kg	4		6010B	Total/NA
Arsenic	4.4		2.3	0.20	mg/Kg	4		6010B	Total/NA
Barium	180		1.2	0.17	mg/Kg	4		6010B	Total/NA
Cadmium	0.36		0.29	0.029	mg/Kg	4		6010B	Total/NA
Chromium	110		1.2	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	16		0.47	0.047	mg/Kg	4		6010B	Total/NA
Copper	51		3.5	1.7	mg/Kg	4		6010B	Total/NA
Lead	180		1.2	0.24	mg/Kg	4		6010B	Total/NA
Nickel	170		1.2	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	40		1.2	0.16	mg/Kg	4		6010B	Total/NA
Zinc	190		3.5	1.5	mg/Kg	4		6010B	Total/NA
Mercury	0.17		0.036	0.0077	mg/Kg	1		7471A	Total/NA

Client Sample ID: TB

Lab Sample ID: 720-78016-10

No Detections.

Client Sample ID: HA03-GW

Lab Sample ID: 720-78016-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.094		0.050	0.0016	mg/L	1		6010B	Dissolved
Cobalt	0.0030		0.0020	0.00068	mg/L	1		6010B	Dissolved
Lead	0.018		0.0050	0.0022	mg/L	1		6010B	Dissolved
Zinc	0.042		0.020	0.0074	mg/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA01-SO-0.5

Lab Sample ID: 720-78016-1

Date Collected: 03/02/17 08:45

Matrix: Solid

Date Received: 03/02/17 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9	1.2	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Acetone	ND		49	37	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Benzene	ND		4.9	0.64	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Dichlorobromomethane	ND		4.9	0.71	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Bromobenzene	ND		4.9	0.77	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Chlorobromomethane	ND		20	0.71	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Bromoform	ND		4.9	2.0	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Bromomethane	ND		9.8	0.77	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
2-Butanone (MEK)	ND		49	21	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
n-Butylbenzene	ND		4.9	0.98	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
sec-Butylbenzene	ND		4.9	0.71	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
tert-Butylbenzene	ND		4.9	0.72	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Carbon disulfide	ND		4.9	2.0	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Carbon tetrachloride	ND		4.9	0.61	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Chlorobenzene	ND		4.9	0.68	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Chloroethane	ND		9.8	0.55	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Chloroform	ND		4.9	0.65	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Chloromethane	ND		9.8	0.71	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
2-Chlorotoluene	ND		4.9	0.64	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
4-Chlorotoluene	ND		4.9	0.67	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Chlorodibromomethane	ND		4.9	0.70	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,2-Dichlorobenzene	ND		4.9	0.67	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,3-Dichlorobenzene	ND		4.9	0.71	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,4-Dichlorobenzene	ND		4.9	0.70	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,3-Dichloropropane	ND		4.9	0.72	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,1-Dichloropropane	ND		4.9	0.68	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,2-Dibromo-3-Chloropropane	ND		9.8	1.7	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Ethylene Dibromide	ND		4.9	1.4	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Dibromomethane	ND		9.8	0.84	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Dichlorodifluoromethane	ND		9.8	0.77	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,1-Dichloroethane	ND		4.9	0.67	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,2-Dichloroethane	ND		4.9	0.75	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,1-Dichloroethene	ND		4.9	0.61	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
cis-1,2-Dichloroethene	ND		4.9	0.67	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
trans-1,2-Dichloroethene	ND		4.9	0.74	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,2-Dichloropropane	ND		4.9	0.62	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
cis-1,3-Dichloropropene	ND		4.9	0.68	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
trans-1,3-Dichloropropene	ND		4.9	0.66	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Ethylbenzene	ND		4.9	0.74	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Hexachlorobutadiene	ND		4.9	0.88	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
2-Hexanone	ND		49	9.8	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Isopropylbenzene	ND		4.9	0.67	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
4-Isopropyltoluene	ND		4.9	2.5	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Methylene Chloride	ND		9.8	3.9	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
4-Methyl-2-pentanone (MIBK)	ND		49	9.8	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Naphthalene	ND		9.8	1.5	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
N-Propylbenzene	ND		4.9	0.65	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Styrene	ND		4.9	0.62	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,1,1,2-Tetrachloroethane	ND		4.9	0.75	ug/Kg		03/09/17 20:29	03/09/17 22:46	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA01-SO-0.5

Lab Sample ID: 720-78016-1

Date Collected: 03/02/17 08:45

Matrix: Solid

Date Received: 03/02/17 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9	0.74	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Tetrachloroethene	ND		4.9	0.66	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Toluene	ND		4.9	0.70	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,2,3-Trichlorobenzene	ND		4.9	0.73	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,2,4-Trichlorobenzene	ND		4.9	0.70	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,1,1-Trichloroethane	ND		4.9	0.60	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,1,2-Trichloroethane	ND		4.9	0.69	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Trichloroethene	ND		4.9	0.62	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Trichlorofluoromethane	ND		4.9	0.55	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,2,3-Trichloropropane	ND		4.9	0.75	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	2.0	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,2,4-Trimethylbenzene	ND		4.9	1.6	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
1,3,5-Trimethylbenzene	ND		4.9	0.64	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Vinyl acetate	ND		20	4.9	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Vinyl chloride	ND		4.9	0.72	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Xylenes, Total	ND		9.8	1.2	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
2,2-Dichloropropane	ND		4.9	2.0	ug/Kg		03/09/17 20:29	03/09/17 22:46	1
Gasoline Range Organics (GRO) -C5-C12	ND		250	98	ug/Kg		03/09/17 20:29	03/09/17 22:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	107		45 - 131	03/09/17 20:29	03/09/17 22:46	1
1,2-Dichloroethane-d4 (Surr)	120		60 - 140	03/09/17 20:29	03/09/17 22:46	1
Toluene-d8 (Surr)	111		58 - 140	03/09/17 20:29	03/09/17 22:46	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		50	14	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Acenaphthylene	ND		50	12	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Anthracene	ND		50	9.7	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Benzo[a]anthracene	160		50	7.4	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Benzo[a]pyrene	230		50	9.2	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Benzo[b]fluoranthene	320		50	11	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Benzo[g,h,i]perylene	140		50	21	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Benzo[k]fluoranthene	130		50	10	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Chrysene	210		50	7.1	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Dibenz(a,h)anthracene	ND		50	18	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Fluoranthene	360		50	7.0	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Fluorene	ND		50	11	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Indeno[1,2,3-cd]pyrene	140		50	21	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Naphthalene	ND		50	18	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Phenanthrene	170		50	9.1	ug/Kg		03/06/17 13:41	03/07/17 09:35	10
Pyrene	310		50	8.3	ug/Kg		03/06/17 13:41	03/07/17 09:35	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		33 - 120	03/06/17 13:41	03/07/17 09:35	10
Terphenyl-d14	74		35 - 146	03/06/17 13:41	03/07/17 09:35	10

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	590		9.9	3.4	mg/Kg		03/06/17 13:26	03/06/17 22:42	10

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA01-SO-0.5

Lab Sample ID: 720-78016-1

Date Collected: 03/02/17 08:45

Matrix: Solid

Date Received: 03/02/17 18:30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	1600		500	5.7	mg/Kg		03/06/17 13:26	03/06/17 22:42	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130				03/06/17 13:26	03/06/17 22:42	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:36	1
PCB-1221	ND		49	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:36	1
PCB-1232	ND		49	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:36	1
PCB-1242	ND		49	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:36	1
PCB-1248	ND		49	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:36	1
PCB-1254	ND		49	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:36	1
PCB-1260	ND		49	5.2	ug/Kg		03/06/17 13:49	03/07/17 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		45 - 132				03/06/17 13:49	03/07/17 03:36	1
DCB Decachlorobiphenyl	111		42 - 146				03/06/17 13:49	03/07/17 03:36	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	1.2	0.20	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Arsenic	4.3		2.4	0.20	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Barium	130	F1	1.2	0.17	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Beryllium	ND		0.24	0.078	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Cadmium	0.42		0.30	0.030	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Chromium	35		1.2	0.13	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Cobalt	9.2		0.48	0.048	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Copper	27		3.6	1.7	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Lead	48	F1	1.2	0.25	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Molybdenum	ND		1.2	0.15	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Nickel	46		1.2	0.12	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Selenium	ND		2.4	0.36	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Silver	ND		0.60	0.12	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Thallium	ND		1.2	0.35	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Vanadium	38		1.2	0.16	mg/Kg		03/06/17 12:12	03/07/17 01:46	4
Zinc	98		3.6	1.5	mg/Kg		03/06/17 12:12	03/07/17 01:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	F1 F2	0.040	0.0086	mg/Kg		03/07/17 11:45	03/07/17 16:02	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA01-SO-28

Lab Sample ID: 720-78016-2

Date Collected: 03/02/17 09:30

Matrix: Solid

Date Received: 03/02/17 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0	1.2	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Acetone	ND		50	38	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Benzene	ND		5.0	0.65	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Dichlorobromomethane	ND		5.0	0.72	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Bromobenzene	ND		5.0	0.79	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Chlorobromomethane	ND		20	0.72	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Bromoform	ND		5.0	2.0	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Bromomethane	ND		10	0.79	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
2-Butanone (MEK)	ND		50	21	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
sec-Butylbenzene	ND		5.0	0.72	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
tert-Butylbenzene	ND		5.0	0.73	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Carbon disulfide	ND		5.0	2.0	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Carbon tetrachloride	ND		5.0	0.62	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Chlorobenzene	ND		5.0	0.69	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Chloroethane	ND		10	0.56	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Chloroform	ND		5.0	0.66	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Chloromethane	ND		10	0.72	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
2-Chlorotoluene	ND		5.0	0.65	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
4-Chlorotoluene	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Chlorodibromomethane	ND		5.0	0.71	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,2-Dichlorobenzene	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,3-Dichlorobenzene	ND		5.0	0.72	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,4-Dichlorobenzene	ND		5.0	0.71	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,3-Dichloropropane	ND		5.0	0.73	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,1-Dichloropropene	ND		5.0	0.69	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,2-Dibromo-3-Chloropropane	ND		10	1.7	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Ethylene Dibromide	ND		5.0	1.4	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Dibromomethane	ND		10	0.86	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Dichlorodifluoromethane	ND		10	0.79	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,1-Dichloroethane	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,2-Dichloroethane	ND		5.0	0.76	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,1-Dichloroethene	ND		5.0	0.62	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
cis-1,2-Dichloroethene	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,2-Dichloropropane	ND		5.0	0.63	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
cis-1,3-Dichloropropene	ND		5.0	0.69	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Ethylbenzene	ND		5.0	0.75	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Hexachlorobutadiene	ND		5.0	0.90	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
2-Hexanone	ND		50	10	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Isopropylbenzene	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
4-Isopropyltoluene	ND		5.0	2.5	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Methylene Chloride	ND		10	4.0	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
4-Methyl-2-pentanone (MIBK)	ND		50	10	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Naphthalene	ND		10	1.5	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
N-Propylbenzene	ND		5.0	0.66	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Styrene	ND		5.0	0.63	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.76	ug/Kg		03/08/17 19:57	03/08/17 21:07	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA01-SO-28

Lab Sample ID: 720-78016-2

Date Collected: 03/02/17 09:30

Matrix: Solid

Date Received: 03/02/17 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0	0.75	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Toluene	ND		5.0	0.71	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,2,3-Trichlorobenzene	ND		5.0	0.74	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,2,4-Trichlorobenzene	ND		5.0	0.71	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,1,1-Trichloroethane	ND		5.0	0.61	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,1,2-Trichloroethane	ND		5.0	0.70	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Trichloroethene	ND		5.0	0.63	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Trichlorofluoromethane	ND		5.0	0.56	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,2,3-Trichloropropane	ND		5.0	0.77	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	2.1	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,2,4-Trimethylbenzene	ND		5.0	1.6	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
1,3,5-Trimethylbenzene	ND		5.0	0.65	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Vinyl acetate	ND		20	5.0	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Vinyl chloride	ND		5.0	0.73	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Xylenes, Total	ND		10	1.2	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
2,2-Dichloropropane	ND		5.0	2.0	ug/Kg		03/08/17 19:57	03/08/17 21:07	1
Gasoline Range Organics (GRO) -C5-C12	ND		250	98	ug/Kg		03/09/17 18:50	03/09/17 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		45 - 131	03/08/17 19:57	03/08/17 21:07	1
4-Bromofluorobenzene	85		45 - 131	03/09/17 18:50	03/09/17 20:41	1
1,2-Dichloroethane-d4 (Surr)	108		60 - 140	03/08/17 19:57	03/08/17 21:07	1
1,2-Dichloroethane-d4 (Surr)	107		60 - 140	03/09/17 18:50	03/09/17 20:41	1
Toluene-d8 (Surr)	109		58 - 140	03/08/17 19:57	03/08/17 21:07	1
Toluene-d8 (Surr)	99		58 - 140	03/09/17 18:50	03/09/17 20:41	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9	1.4	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Acenaphthylene	ND		4.9	1.2	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Anthracene	ND		4.9	0.96	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Benzo[a]anthracene	ND		4.9	0.73	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Benzo[a]pyrene	ND		4.9	0.91	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Benzo[b]fluoranthene	ND		4.9	1.1	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Benzo[g,h,i]perylene	ND		4.9	2.1	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Benzo[k]fluoranthene	ND		4.9	1.0	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Chrysene	ND		4.9	0.70	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Dibenz(a,h)anthracene	ND		4.9	1.7	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Fluoranthene	ND		4.9	0.70	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Fluorene	ND		4.9	1.1	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Indeno[1,2,3-cd]pyrene	ND		4.9	2.1	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Naphthalene	ND		4.9	1.7	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Phenanthrene	ND		4.9	0.91	ug/Kg		03/06/17 13:41	03/07/17 04:53	1
Pyrene	ND		4.9	0.82	ug/Kg		03/06/17 13:41	03/07/17 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		33 - 120	03/06/17 13:41	03/07/17 04:53	1
Terphenyl-d14	73		35 - 146	03/06/17 13:41	03/07/17 04:53	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA01-SO-28

Lab Sample ID: 720-78016-2

Date Collected: 03/02/17 09:30

Matrix: Solid

Date Received: 03/02/17 18:30

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.6		0.99	0.34	mg/Kg		03/06/17 13:26	03/06/17 22:18	1
Motor Oil Range Organics [C24-C36]	ND		49	0.57	mg/Kg		03/06/17 13:26	03/06/17 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	97		40 - 130				03/06/17 13:26	03/06/17 22:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.3	0.21	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Arsenic	4.5		2.5	0.21	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Barium	110		1.3	0.18	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Beryllium	0.31		0.25	0.081	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Cadmium	ND		0.31	0.031	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Chromium	44		1.3	0.13	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Cobalt	9.7		0.50	0.050	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Copper	19		3.8	1.8	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Lead	4.4		1.3	0.26	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Molybdenum	ND		1.3	0.16	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Nickel	49		1.3	0.13	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Selenium	ND		2.5	0.38	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Silver	ND		0.63	0.13	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Thallium	ND		1.3	0.36	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Vanadium	32		1.3	0.17	mg/Kg		03/06/17 12:12	03/07/17 01:50	4
Zinc	57		3.8	1.6	mg/Kg		03/06/17 12:12	03/07/17 01:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.052		0.039	0.0083	mg/Kg		03/07/17 11:45	03/07/17 16:12	1

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA01-GW

Lab Sample ID: 720-78016-3

Date Collected: 03/02/17 10:00

Matrix: Water

Date Received: 03/02/17 18:30

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.069	ug/L			03/08/17 03:37	1
Acetone	ND		50	20	ug/L			03/08/17 03:37	1
Benzene	ND		0.50	0.25	ug/L			03/08/17 03:37	1
Dichlorobromomethane	ND		0.50	0.20	ug/L			03/08/17 03:37	1
Bromobenzene	ND		1.0	0.20	ug/L			03/08/17 03:37	1
Chlorobromomethane	ND		1.0	0.25	ug/L			03/08/17 03:37	1
Bromoform	ND		1.0	0.50	ug/L			03/08/17 03:37	1
Bromomethane	ND		1.0	0.49	ug/L			03/08/17 03:37	1
2-Butanone (MEK)	ND		50	8.4	ug/L			03/08/17 03:37	1
n-Butylbenzene	ND		1.0	0.30	ug/L			03/08/17 03:37	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			03/08/17 03:37	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			03/08/17 03:37	1
Carbon disulfide	ND		5.0	0.78	ug/L			03/08/17 03:37	1
Carbon tetrachloride	ND		0.50	0.11	ug/L			03/08/17 03:37	1
Chlorobenzene	ND		0.50	0.13	ug/L			03/08/17 03:37	1
Chloroethane	ND		1.0	0.17	ug/L			03/08/17 03:37	1
Chloroform	ND		1.0	0.40	ug/L			03/08/17 03:37	1
Chloromethane	ND		1.0	0.19	ug/L			03/08/17 03:37	1
2-Chlorotoluene	ND		0.50	0.20	ug/L			03/08/17 03:37	1
4-Chlorotoluene	ND		0.50	0.20	ug/L			03/08/17 03:37	1
Chlorodibromomethane	ND		0.50	0.10	ug/L			03/08/17 03:37	1
1,2-Dichlorobenzene	ND		0.50	0.21	ug/L			03/08/17 03:37	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			03/08/17 03:37	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			03/08/17 03:37	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			03/08/17 03:37	1
1,1-Dichloropropene	ND		0.50	0.20	ug/L			03/08/17 03:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.30	ug/L			03/08/17 03:37	1
Ethylene Dibromide	ND		0.50	0.075	ug/L			03/08/17 03:37	1
Dibromomethane	ND		0.50	0.30	ug/L			03/08/17 03:37	1
Dichlorodifluoromethane	ND		0.50	0.10	ug/L			03/08/17 03:37	1
1,1-Dichloroethane	ND		0.50	0.11	ug/L			03/08/17 03:37	1
1,2-Dichloroethane	1.3		0.50	0.077	ug/L			03/08/17 03:37	1
1,1-Dichloroethene	ND		0.50	0.20	ug/L			03/08/17 03:37	1
cis-1,2-Dichloroethene	ND		0.50	0.076	ug/L			03/08/17 03:37	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			03/08/17 03:37	1
1,2-Dichloropropane	ND		0.50	0.20	ug/L			03/08/17 03:37	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			03/08/17 03:37	1
trans-1,3-Dichloropropene	ND		0.50	0.17	ug/L			03/08/17 03:37	1
Ethylbenzene	ND		0.50	0.13	ug/L			03/08/17 03:37	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L			03/08/17 03:37	1
2-Hexanone	ND		50	3.0	ug/L			03/08/17 03:37	1
Isopropylbenzene	ND		0.50	0.20	ug/L			03/08/17 03:37	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			03/08/17 03:37	1
Methylene Chloride	ND		5.0	1.5	ug/L			03/08/17 03:37	1
4-Methyl-2-pentanone (MIBK)	ND		50	4.5	ug/L			03/08/17 03:37	1
Naphthalene	ND		1.0	0.22	ug/L			03/08/17 03:37	1
N-Propylbenzene	ND		1.0	0.20	ug/L			03/08/17 03:37	1
Styrene	ND		0.50	0.075	ug/L			03/08/17 03:37	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.067	ug/L			03/08/17 03:37	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA01-GW

Lab Sample ID: 720-78016-3

Date Collected: 03/02/17 10:00

Matrix: Water

Date Received: 03/02/17 18:30

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50	0.074	ug/L			03/08/17 03:37	1
Tetrachloroethene	ND		0.50	0.20	ug/L			03/08/17 03:37	1
Toluene	ND		0.50	0.17	ug/L			03/08/17 03:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/08/17 03:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L			03/08/17 03:37	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/08/17 03:37	1
1,1,2-Trichloroethane	ND		0.50	0.11	ug/L			03/08/17 03:37	1
Trichloroethene	ND		0.50	0.20	ug/L			03/08/17 03:37	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			03/08/17 03:37	1
1,2,3-Trichloropropane	ND		0.50	0.087	ug/L			03/08/17 03:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.091	ug/L			03/08/17 03:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.20	ug/L			03/08/17 03:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.17	ug/L			03/08/17 03:37	1
Vinyl acetate	ND		10	0.60	ug/L			03/08/17 03:37	1
Vinyl chloride	ND		0.50	0.20	ug/L			03/08/17 03:37	1
Xylenes, Total	ND		1.0	0.40	ug/L			03/08/17 03:37	1
2,2-Dichloropropane	ND		0.50	0.17	ug/L			03/08/17 03:37	1
Gasoline Range Organics (GRO) -C5-C12	ND		50	21	ug/L			03/08/17 03:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	107		67 - 130					03/08/17 03:37	1
1,2-Dichloroethane-d4 (Surr)	119		72 - 130					03/08/17 03:37	1
Toluene-d8 (Surr)	112		70 - 130					03/08/17 03:37	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.12	0.036	ug/L		03/07/17 10:03	03/07/17 21:22	1
Acenaphthene	ND		0.12	0.042	ug/L		03/07/17 10:03	03/07/17 21:22	1
Acenaphthylene	ND		0.12	0.042	ug/L		03/07/17 10:03	03/07/17 21:22	1
Fluorene	ND		0.12	0.037	ug/L		03/07/17 10:03	03/07/17 21:22	1
Phenanthrene	ND		0.12	0.036	ug/L		03/07/17 10:03	03/07/17 21:22	1
Anthracene	ND		0.12	0.035	ug/L		03/07/17 10:03	03/07/17 21:22	1
Benzo[a]anthracene	ND		0.12	0.032	ug/L		03/07/17 10:03	03/07/17 21:22	1
Chrysene	ND		0.12	0.037	ug/L		03/07/17 10:03	03/07/17 21:22	1
Benzo[a]pyrene	ND		0.12	0.028	ug/L		03/07/17 10:03	03/07/17 21:22	1
Benzo[b]fluoranthene	ND		0.12	0.036	ug/L		03/07/17 10:03	03/07/17 21:22	1
Benzo[k]fluoranthene	ND		0.12	0.041	ug/L		03/07/17 10:03	03/07/17 21:22	1
Benzo[g,h,i]perylene	ND		0.12	0.026	ug/L		03/07/17 10:03	03/07/17 21:22	1
Indeno[1,2,3-cd]pyrene	ND		0.12	0.032	ug/L		03/07/17 10:03	03/07/17 21:22	1
Fluoranthene	ND		0.12	0.036	ug/L		03/07/17 10:03	03/07/17 21:22	1
Pyrene	ND		0.12	0.042	ug/L		03/07/17 10:03	03/07/17 21:22	1
Dibenz(a,h)anthracene	ND		0.12	0.031	ug/L		03/07/17 10:03	03/07/17 21:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		29 - 120				03/07/17 10:03	03/07/17 21:22	1
Terphenyl-d14	65		45 - 120				03/07/17 10:03	03/07/17 21:22	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		44	19	ug/L		03/04/17 07:52	03/07/17 10:44	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA01-GW

Lab Sample ID: 720-78016-3

Date Collected: 03/02/17 10:00

Matrix: Water

Date Received: 03/02/17 18:30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	140		88	37	ug/L		03/04/17 07:52	03/07/17 10:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	75		23 - 156				03/04/17 07:52	03/07/17 10:44	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010	0.0041	mg/L		03/06/17 09:23	03/06/17 20:19	1
Arsenic	ND		0.010	0.0029	mg/L		03/06/17 09:23	03/06/17 20:19	1
Barium	0.16		0.050	0.0016	mg/L		03/06/17 09:23	03/06/17 20:19	1
Beryllium	ND		0.0020	0.00059	mg/L		03/06/17 09:23	03/06/17 20:19	1
Cadmium	ND		0.0020	0.00021	mg/L		03/06/17 09:23	03/06/17 20:19	1
Chromium	ND		0.010	0.00070	mg/L		03/06/17 09:23	03/06/17 20:19	1
Cobalt	ND		0.0020	0.00068	mg/L		03/06/17 09:23	03/06/17 20:19	1
Copper	ND		0.020	0.0037	mg/L		03/06/17 09:23	03/06/17 20:19	1
Lead	0.012		0.0050	0.0022	mg/L		03/06/17 09:23	03/06/17 20:19	1
Molybdenum	ND		0.010	0.0029	mg/L		03/06/17 09:23	03/06/17 20:19	1
Nickel	ND		0.010	0.0010	mg/L		03/06/17 09:23	03/06/17 20:19	1
Selenium	ND		0.020	0.0046	mg/L		03/06/17 09:23	03/06/17 20:19	1
Silver	ND		0.0050	0.0020	mg/L		03/06/17 09:23	03/06/17 20:19	1
Thallium	ND		0.010	0.0035	mg/L		03/06/17 09:23	03/06/17 20:19	1
Vanadium	ND		0.010	0.00087	mg/L		03/06/17 09:23	03/06/17 20:19	1
Zinc	0.049		0.020	0.0074	mg/L		03/06/17 09:23	03/06/17 20:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		03/08/17 13:36	03/09/17 09:41	1

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-SO-0.5

Lab Sample ID: 720-78016-4

Date Collected: 03/02/17 10:25

Matrix: Solid

Date Received: 03/02/17 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0	1.2	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Acetone	ND		50	38	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Benzene	ND		5.0	0.65	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Dichlorobromomethane	ND		5.0	0.72	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Bromobenzene	ND		5.0	0.79	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Chlorobromomethane	ND		20	0.72	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Bromoform	ND		5.0	2.0	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Bromomethane	ND		10	0.79	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
2-Butanone (MEK)	ND		50	21	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
sec-Butylbenzene	ND		5.0	0.72	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
tert-Butylbenzene	ND		5.0	0.73	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Carbon disulfide	ND		5.0	2.0	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Carbon tetrachloride	ND		5.0	0.62	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Chlorobenzene	ND		5.0	0.69	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Chloroethane	ND		10	0.56	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Chloroform	ND		5.0	0.66	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Chloromethane	ND		10	0.72	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
2-Chlorotoluene	ND		5.0	0.65	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
4-Chlorotoluene	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Chlorodibromomethane	ND		5.0	0.71	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,2-Dichlorobenzene	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,3-Dichlorobenzene	ND		5.0	0.72	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,4-Dichlorobenzene	ND		5.0	0.71	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,3-Dichloropropane	ND		5.0	0.73	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,1-Dichloropropane	ND		5.0	0.69	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,2-Dibromo-3-Chloropropane	ND		10	1.7	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Ethylene Dibromide	ND		5.0	1.4	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Dibromomethane	ND		10	0.86	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Dichlorodifluoromethane	ND		10	0.79	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,1-Dichloroethane	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,2-Dichloroethane	ND		5.0	0.76	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,1-Dichloroethene	ND		5.0	0.62	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
cis-1,2-Dichloroethene	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,2-Dichloropropane	ND		5.0	0.63	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
cis-1,3-Dichloropropene	ND		5.0	0.69	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Ethylbenzene	ND		5.0	0.75	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Hexachlorobutadiene	ND		5.0	0.90	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
2-Hexanone	ND		50	10	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Isopropylbenzene	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
4-Isopropyltoluene	ND		5.0	2.5	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Methylene Chloride	ND		10	4.0	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
4-Methyl-2-pentanone (MIBK)	ND		50	10	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Naphthalene	ND		10	1.5	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
N-Propylbenzene	ND		5.0	0.66	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Styrene	ND		5.0	0.63	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.76	ug/Kg		03/08/17 19:57	03/08/17 21:35	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-SO-0.5

Lab Sample ID: 720-78016-4

Date Collected: 03/02/17 10:25

Matrix: Solid

Date Received: 03/02/17 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0	0.75	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Toluene	ND		5.0	0.71	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,2,3-Trichlorobenzene	ND		5.0	0.74	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,2,4-Trichlorobenzene	ND		5.0	0.71	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,1,1-Trichloroethane	ND		5.0	0.61	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,1,2-Trichloroethane	ND		5.0	0.70	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Trichloroethene	ND		5.0	0.63	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Trichlorofluoromethane	ND		5.0	0.56	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,2,3-Trichloropropane	ND		5.0	0.77	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	2.1	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,2,4-Trimethylbenzene	ND		5.0	1.6	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
1,3,5-Trimethylbenzene	ND		5.0	0.65	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Vinyl acetate	ND		20	5.0	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Vinyl chloride	ND		5.0	0.73	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Xylenes, Total	ND		10	1.2	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
2,2-Dichloropropane	ND		5.0	2.0	ug/Kg		03/08/17 19:57	03/08/17 21:35	1
Gasoline Range Organics (GRO) -C5-C12	ND		230	94	ug/Kg		03/09/17 18:50	03/09/17 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	107		45 - 131	03/08/17 19:57	03/08/17 21:35	1
4-Bromofluorobenzene	108		45 - 131	03/09/17 18:50	03/09/17 21:11	1
1,2-Dichloroethane-d4 (Surr)	104		60 - 140	03/08/17 19:57	03/08/17 21:35	1
1,2-Dichloroethane-d4 (Surr)	119		60 - 140	03/09/17 18:50	03/09/17 21:11	1
Toluene-d8 (Surr)	110		58 - 140	03/08/17 19:57	03/08/17 21:35	1
Toluene-d8 (Surr)	100		58 - 140	03/09/17 18:50	03/09/17 21:11	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	190		25	7.0	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Acenaphthylene	ND		25	6.0	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Anthracene	430	F1 F2	25	4.8	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Benzo[a]anthracene	480	F1 F2	25	3.7	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Benzo[a]pyrene	510	F1 F2	25	4.6	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Benzo[b]fluoranthene	560	F2	25	5.3	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Benzo[g,h,i]perylene	200	F2	25	11	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Benzo[k]fluoranthene	250	F2	25	5.1	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Chrysene	530	F1 F2	25	3.5	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Dibenz(a,h)anthracene	79		25	8.8	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Fluoranthene	1300	F1 F2	25	3.5	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Fluorene	170		25	5.5	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Indeno[1,2,3-cd]pyrene	220	F2	25	11	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Naphthalene	54		25	8.8	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Phenanthrene	1400	F2	25	4.6	ug/Kg		03/06/17 13:41	03/07/17 09:12	5
Pyrene	1100	F1 F2	25	4.1	ug/Kg		03/06/17 13:41	03/07/17 09:12	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		33 - 120	03/06/17 13:41	03/07/17 09:12	5
Terphenyl-d14	64		35 - 146	03/06/17 13:41	03/07/17 09:12	5

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-SO-0.5

Lab Sample ID: 720-78016-4

Date Collected: 03/02/17 10:25

Matrix: Solid

Date Received: 03/02/17 18:30

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	51		2.0	0.67	mg/Kg		03/06/17 13:26	03/06/17 23:06	2
Motor Oil Range Organics [C24-C36]	220		99	1.1	mg/Kg		03/06/17 13:26	03/06/17 23:06	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	106		40 - 130				03/06/17 13:26	03/06/17 23:06	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:19	1
PCB-1221	ND		50	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:19	1
PCB-1232	ND		50	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:19	1
PCB-1242	ND		50	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:19	1
PCB-1248	ND		50	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:19	1
PCB-1254	ND		50	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:19	1
PCB-1260	ND		50	5.3	ug/Kg		03/06/17 13:49	03/07/17 03:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		45 - 132				03/06/17 13:49	03/07/17 03:19	1
DCB Decachlorobiphenyl	92		42 - 146				03/06/17 13:49	03/07/17 03:19	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.7		1.4	0.23	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Arsenic	ND		2.8	0.24	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Barium	31		1.4	0.20	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Beryllium	ND		0.28	0.092	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Cadmium	ND		0.35	0.035	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Chromium	56		1.4	0.15	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Cobalt	24		0.56	0.056	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Copper	68		4.2	2.0	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Lead	2.3		1.4	0.30	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Molybdenum	ND		1.4	0.18	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Nickel	40		1.4	0.14	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Selenium	ND		2.8	0.42	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Silver	ND		0.70	0.14	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Thallium	ND		1.4	0.41	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Vanadium	130		1.4	0.19	mg/Kg		03/06/17 12:12	03/07/17 01:55	4
Zinc	70		4.2	1.8	mg/Kg		03/06/17 12:12	03/07/17 01:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.037	0.0079	mg/Kg		03/07/17 11:45	03/07/17 16:14	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-SO-30

Lab Sample ID: 720-78016-5

Date Collected: 03/02/17 11:15

Matrix: Solid

Date Received: 03/02/17 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0	1.2	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Acetone	ND		50	38	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Benzene	ND		5.0	0.65	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Dichlorobromomethane	ND		5.0	0.72	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Bromobenzene	ND		5.0	0.79	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Chlorobromomethane	ND		20	0.72	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Bromoform	ND		5.0	2.0	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Bromomethane	ND		10	0.79	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
2-Butanone (MEK)	ND		50	21	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
sec-Butylbenzene	ND		5.0	0.72	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
tert-Butylbenzene	ND		5.0	0.73	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Carbon disulfide	ND		5.0	2.0	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Carbon tetrachloride	ND		5.0	0.62	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Chlorobenzene	ND		5.0	0.69	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Chloroethane	ND		10	0.56	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Chloroform	ND		5.0	0.66	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Chloromethane	ND		10	0.72	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
2-Chlorotoluene	ND		5.0	0.65	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
4-Chlorotoluene	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Chlorodibromomethane	ND		5.0	0.71	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,2-Dichlorobenzene	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,3-Dichlorobenzene	ND		5.0	0.72	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,4-Dichlorobenzene	ND		5.0	0.71	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,3-Dichloropropane	ND		5.0	0.73	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,1-Dichloropropane	ND		5.0	0.69	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,2-Dibromo-3-Chloropropane	ND		10	1.7	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Ethylene Dibromide	ND		5.0	1.4	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Dibromomethane	ND		10	0.86	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Dichlorodifluoromethane	ND		10	0.79	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,1-Dichloroethane	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,2-Dichloroethane	ND		5.0	0.76	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,1-Dichloroethene	ND		5.0	0.62	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
cis-1,2-Dichloroethene	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,2-Dichloropropane	ND		5.0	0.63	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
cis-1,3-Dichloropropene	ND		5.0	0.69	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Ethylbenzene	ND		5.0	0.75	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Hexachlorobutadiene	ND		5.0	0.90	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
2-Hexanone	ND		50	10	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Isopropylbenzene	ND		5.0	0.68	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
4-Isopropyltoluene	ND		5.0	2.5	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Methylene Chloride	ND		10	4.0	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
4-Methyl-2-pentanone (MIBK)	ND		50	10	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Naphthalene	ND		10	1.5	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
N-Propylbenzene	ND		5.0	0.66	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Styrene	ND		5.0	0.63	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.76	ug/Kg		03/08/17 19:57	03/08/17 22:03	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-SO-30

Lab Sample ID: 720-78016-5

Date Collected: 03/02/17 11:15

Matrix: Solid

Date Received: 03/02/17 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0	0.75	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Toluene	ND		5.0	0.71	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,2,3-Trichlorobenzene	ND		5.0	0.74	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,2,4-Trichlorobenzene	ND		5.0	0.71	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,1,1-Trichloroethane	ND		5.0	0.61	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,1,2-Trichloroethane	ND		5.0	0.70	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Trichloroethene	ND		5.0	0.63	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Trichlorofluoromethane	ND		5.0	0.56	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,2,3-Trichloropropane	ND		5.0	0.77	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	2.1	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,2,4-Trimethylbenzene	ND		5.0	1.6	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
1,3,5-Trimethylbenzene	ND		5.0	0.65	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Vinyl acetate	ND		20	5.0	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Vinyl chloride	ND		5.0	0.73	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Xylenes, Total	ND		10	1.2	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
2,2-Dichloropropane	ND		5.0	2.0	ug/Kg		03/08/17 19:57	03/08/17 22:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		250	99	ug/Kg		03/09/17 18:50	03/09/17 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	106		45 - 131	03/08/17 19:57	03/08/17 22:03	1
4-Bromofluorobenzene	92		45 - 131	03/09/17 18:50	03/09/17 21:41	1
1,2-Dichloroethane-d4 (Surr)	102		60 - 140	03/08/17 19:57	03/08/17 22:03	1
1,2-Dichloroethane-d4 (Surr)	108		60 - 140	03/09/17 18:50	03/09/17 21:41	1
Toluene-d8 (Surr)	109		58 - 140	03/08/17 19:57	03/08/17 22:03	1
Toluene-d8 (Surr)	102		58 - 140	03/09/17 18:50	03/09/17 21:41	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	1.4	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Acenaphthylene	ND		5.0	1.2	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Anthracene	ND		5.0	0.97	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Benzo[a]anthracene	ND		5.0	0.74	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Benzo[a]pyrene	ND		5.0	0.92	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Benzo[b]fluoranthene	ND		5.0	1.1	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Benzo[g,h,i]perylene	ND		5.0	2.1	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Benzo[k]fluoranthene	ND		5.0	1.0	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Chrysene	ND		5.0	0.71	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Dibenz(a,h)anthracene	ND		5.0	1.8	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Fluoranthene	ND		5.0	0.70	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Fluorene	ND		5.0	1.1	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Indeno[1,2,3-cd]pyrene	ND		5.0	2.1	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Naphthalene	ND		5.0	1.8	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Phenanthrene	ND		5.0	0.92	ug/Kg		03/06/17 13:41	03/07/17 05:17	1
Pyrene	ND		5.0	0.83	ug/Kg		03/06/17 13:41	03/07/17 05:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		33 - 120	03/06/17 13:41	03/07/17 05:17	1
Terphenyl-d14	79		35 - 146	03/06/17 13:41	03/07/17 05:17	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-SO-30

Lab Sample ID: 720-78016-5

Date Collected: 03/02/17 11:15

Matrix: Solid

Date Received: 03/02/17 18:30

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.5		1.0	0.34	mg/Kg		03/06/17 13:26	03/06/17 22:18	1
Motor Oil Range Organics [C24-C36]	ND		50	0.58	mg/Kg		03/06/17 13:26	03/06/17 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	99		40 - 130				03/06/17 13:26	03/06/17 22:18	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.17	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Arsenic	6.8		2.1	0.18	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Barium	130		1.0	0.15	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Beryllium	0.25		0.21	0.068	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Cadmium	ND		0.26	0.026	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Chromium	40		1.0	0.11	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Cobalt	7.9		0.42	0.042	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Copper	20		3.1	1.5	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Lead	4.5		1.0	0.22	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Molybdenum	ND		1.0	0.13	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Nickel	49		1.0	0.11	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Selenium	ND		2.1	0.31	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Silver	ND		0.52	0.11	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Thallium	ND		1.0	0.30	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Vanadium	38		1.0	0.14	mg/Kg		03/06/17 12:12	03/07/17 02:00	4
Zinc	47		3.1	1.3	mg/Kg		03/06/17 12:12	03/07/17 02:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.038	0.0082	mg/Kg		03/07/17 11:45	03/07/17 16:16	1

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-SO-24

Lab Sample ID: 720-78016-6

Date Collected: 03/02/17 11:20

Matrix: Solid

Date Received: 03/02/17 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9	1.2	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Acetone	ND		49	37	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Benzene	ND		4.9	0.63	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Dichlorobromomethane	ND		4.9	0.70	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Bromobenzene	ND		4.9	0.77	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Chlorobromomethane	ND		19	0.70	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Bromoform	ND		4.9	1.9	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Bromomethane	ND		9.7	0.77	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
2-Butanone (MEK)	ND		49	20	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
n-Butylbenzene	ND		4.9	0.97	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
sec-Butylbenzene	ND		4.9	0.70	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
tert-Butylbenzene	ND		4.9	0.71	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Carbon disulfide	ND		4.9	1.9	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Carbon tetrachloride	ND		4.9	0.60	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Chlorobenzene	ND		4.9	0.67	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Chloroethane	ND		9.7	0.55	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Chloroform	ND		4.9	0.64	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Chloromethane	ND		9.7	0.70	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
2-Chlorotoluene	ND		4.9	0.63	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
4-Chlorotoluene	ND		4.9	0.66	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Chlorodibromomethane	ND		4.9	0.69	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,2-Dichlorobenzene	ND		4.9	0.66	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,3-Dichlorobenzene	ND		4.9	0.70	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,4-Dichlorobenzene	ND		4.9	0.69	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,3-Dichloropropane	ND		4.9	0.71	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,1-Dichloropropene	ND		4.9	0.67	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,2-Dibromo-3-Chloropropane	ND		9.7	1.7	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Ethylene Dibromide	ND		4.9	1.4	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Dibromomethane	ND		9.7	0.84	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Dichlorodifluoromethane	ND		9.7	0.77	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,1-Dichloroethane	ND		4.9	0.66	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,2-Dichloroethane	ND		4.9	0.74	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
cis-1,2-Dichloroethene	ND		4.9	0.66	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
trans-1,2-Dichloroethene	ND		4.9	0.73	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,2-Dichloropropane	ND		4.9	0.61	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
cis-1,3-Dichloropropene	ND		4.9	0.67	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
trans-1,3-Dichloropropene	ND		4.9	0.65	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Ethylbenzene	ND		4.9	0.73	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Hexachlorobutadiene	ND		4.9	0.88	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
2-Hexanone	ND		49	9.7	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Isopropylbenzene	ND		4.9	0.66	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
4-Isopropyltoluene	ND		4.9	2.4	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Methylene Chloride	ND		9.7	3.9	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
4-Methyl-2-pentanone (MIBK)	ND		49	9.7	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Naphthalene	ND		9.7	1.5	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
N-Propylbenzene	ND		4.9	0.64	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Styrene	ND		4.9	0.61	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,1,1,2-Tetrachloroethane	ND		4.9	0.74	ug/Kg		03/09/17 20:29	03/09/17 23:14	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-SO-24

Lab Sample ID: 720-78016-6

Date Collected: 03/02/17 11:20

Matrix: Solid

Date Received: 03/02/17 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9	0.73	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Tetrachloroethene	ND		4.9	0.65	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Toluene	ND		4.9	0.69	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,2,3-Trichlorobenzene	ND		4.9	0.72	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,2,4-Trichlorobenzene	ND		4.9	0.69	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,1,1-Trichloroethane	ND		4.9	0.59	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,1,2-Trichloroethane	ND		4.9	0.68	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Trichloroethene	ND		4.9	0.61	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Trichlorofluoromethane	ND		4.9	0.55	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,2,3-Trichloropropane	ND		4.9	0.75	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	2.0	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,2,4-Trimethylbenzene	ND		4.9	1.6	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
1,3,5-Trimethylbenzene	ND		4.9	0.63	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Vinyl acetate	ND		19	4.9	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Vinyl chloride	ND		4.9	0.71	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Xylenes, Total	ND		9.7	1.2	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
2,2-Dichloropropane	ND		4.9	1.9	ug/Kg		03/09/17 20:29	03/09/17 23:14	1
Gasoline Range Organics (GRO) -C5-C12	ND		240	97	ug/Kg		03/09/17 20:29	03/09/17 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	105		45 - 131	03/09/17 20:29	03/09/17 23:14	1
1,2-Dichloroethane-d4 (Surr)	119		60 - 140	03/09/17 20:29	03/09/17 23:14	1
Toluene-d8 (Surr)	109		58 - 140	03/09/17 20:29	03/09/17 23:14	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	46		5.0	1.4	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Acenaphthylene	ND		5.0	1.2	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Anthracene	140		5.0	0.97	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Benzo[a]anthracene	160		5.0	0.74	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Benzo[a]pyrene	140		5.0	0.92	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Benzo[b]fluoranthene	150		5.0	1.1	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Benzo[g,h,i]perylene	76		5.0	2.1	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Benzo[k]fluoranthene	61		5.0	1.0	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Chrysene	160		5.0	0.70	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Dibenz(a,h)anthracene	28		5.0	1.8	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Fluoranthene	410		5.0	0.70	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Fluorene	41		5.0	1.1	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Indeno[1,2,3-cd]pyrene	76		5.0	2.1	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Naphthalene	7.2		5.0	1.8	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Phenanthrene	400		5.0	0.91	ug/Kg		03/06/17 13:41	03/07/17 05:40	1
Pyrene	370		5.0	0.83	ug/Kg		03/06/17 13:41	03/07/17 05:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		33 - 120	03/06/17 13:41	03/07/17 05:40	1
Terphenyl-d14	72		35 - 146	03/06/17 13:41	03/07/17 05:40	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.8		1.0	0.34	mg/Kg		03/06/17 13:26	03/06/17 23:06	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-SO-24

Lab Sample ID: 720-78016-6

Date Collected: 03/02/17 11:20

Matrix: Solid

Date Received: 03/02/17 18:30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		50	0.58	mg/Kg		03/06/17 13:26	03/06/17 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	101		40 - 130	03/06/17 13:26	03/06/17 23:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7	0.29	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Arsenic	3.8		3.4	0.29	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Barium	95		1.7	0.24	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Beryllium	ND		0.34	0.11	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Cadmium	ND		0.43	0.043	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Chromium	44		1.7	0.18	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Cobalt	11		0.69	0.069	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Copper	23		5.2	2.5	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Lead	4.9		1.7	0.36	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Molybdenum	ND		1.7	0.22	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Nickel	59		1.7	0.18	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Selenium	ND		3.4	0.52	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Silver	ND		0.86	0.17	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Thallium	ND		1.7	0.50	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Vanadium	39		1.7	0.23	mg/Kg		03/06/17 12:12	03/07/17 02:06	4
Zinc	56		5.2	2.2	mg/Kg		03/06/17 12:12	03/07/17 02:06	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.039	0.0085	mg/Kg		03/07/17 11:45	03/07/17 16:19	1

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA03-SO-20

Lab Sample ID: 720-78016-7

Date Collected: 03/02/17 13:15

Matrix: Solid

Date Received: 03/02/17 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0	1.2	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Acetone	ND		50	38	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Benzene	ND		5.0	0.65	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Dichlorobromomethane	ND		5.0	0.72	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Bromobenzene	ND		5.0	0.79	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Chlorobromomethane	ND		20	0.72	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Bromoform	ND		5.0	2.0	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Bromomethane	ND		9.9	0.79	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
2-Butanone (MEK)	ND		50	21	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
n-Butylbenzene	ND		5.0	0.99	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
sec-Butylbenzene	ND		5.0	0.72	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
tert-Butylbenzene	ND		5.0	0.73	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Carbon disulfide	ND		5.0	2.0	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Carbon tetrachloride	ND		5.0	0.62	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Chlorobenzene	ND		5.0	0.69	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Chloroethane	ND		9.9	0.56	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Chloroform	ND		5.0	0.66	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Chloromethane	ND		9.9	0.72	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
2-Chlorotoluene	ND		5.0	0.65	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
4-Chlorotoluene	ND		5.0	0.68	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Chlorodibromomethane	ND		5.0	0.71	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,2-Dichlorobenzene	ND		5.0	0.68	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,3-Dichlorobenzene	ND		5.0	0.72	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,4-Dichlorobenzene	ND		5.0	0.71	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,3-Dichloropropane	ND		5.0	0.73	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,1-Dichloropropane	ND		5.0	0.69	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,2-Dibromo-3-Chloropropane	ND		9.9	1.7	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Ethylene Dibromide	ND		5.0	1.4	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Dibromomethane	ND		9.9	0.85	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Dichlorodifluoromethane	ND		9.9	0.79	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,1-Dichloroethane	ND		5.0	0.68	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,2-Dichloroethane	ND		5.0	0.76	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,1-Dichloroethene	ND		5.0	0.62	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
cis-1,2-Dichloroethene	ND		5.0	0.68	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,2-Dichloropropane	ND		5.0	0.63	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
cis-1,3-Dichloropropene	ND		5.0	0.69	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Ethylbenzene	ND		5.0	0.75	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Hexachlorobutadiene	ND		5.0	0.89	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
2-Hexanone	ND		50	9.9	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Isopropylbenzene	ND		5.0	0.68	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
4-Isopropyltoluene	ND		5.0	2.5	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Methylene Chloride	ND		9.9	4.0	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
4-Methyl-2-pentanone (MIBK)	ND		50	9.9	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Naphthalene	ND		9.9	1.5	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
N-Propylbenzene	ND		5.0	0.66	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Styrene	ND		5.0	0.63	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.76	ug/Kg		03/09/17 20:29	03/09/17 23:43	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA03-SO-20

Lab Sample ID: 720-78016-7

Date Collected: 03/02/17 13:15

Matrix: Solid

Date Received: 03/02/17 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0	0.75	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Toluene	ND		5.0	0.71	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,2,3-Trichlorobenzene	ND		5.0	0.74	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,2,4-Trichlorobenzene	ND		5.0	0.71	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,1,1-Trichloroethane	ND		5.0	0.61	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,1,2-Trichloroethane	ND		5.0	0.70	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Trichloroethene	ND		5.0	0.63	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Trichlorofluoromethane	ND		5.0	0.56	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,2,3-Trichloropropane	ND		5.0	0.77	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	2.1	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,2,4-Trimethylbenzene	ND		5.0	1.6	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
1,3,5-Trimethylbenzene	ND		5.0	0.65	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Vinyl acetate	ND		20	5.0	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Vinyl chloride	ND		5.0	0.73	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Xylenes, Total	ND		9.9	1.2	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
2,2-Dichloropropane	ND		5.0	2.0	ug/Kg		03/09/17 20:29	03/09/17 23:43	1
Gasoline Range Organics (GRO) -C5-C12	ND		250	99	ug/Kg		03/09/17 20:29	03/09/17 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		45 - 131	03/09/17 20:29	03/09/17 23:43	1
1,2-Dichloroethane-d4 (Surr)	118		60 - 140	03/09/17 20:29	03/09/17 23:43	1
Toluene-d8 (Surr)	109		58 - 140	03/09/17 20:29	03/09/17 23:43	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	1.4	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Acenaphthylene	ND		5.0	1.2	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Anthracene	ND		5.0	0.97	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Benzo[a]anthracene	ND		5.0	0.74	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Benzo[a]pyrene	ND		5.0	0.92	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Benzo[b]fluoranthene	5.3		5.0	1.1	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Benzo[g,h,i]perylene	7.2		5.0	2.1	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Benzo[k]fluoranthene	ND		5.0	1.0	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Chrysene	ND		5.0	0.70	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Dibenz(a,h)anthracene	ND		5.0	1.8	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Fluoranthene	ND		5.0	0.70	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Fluorene	ND		5.0	1.1	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Indeno[1,2,3-cd]pyrene	ND		5.0	2.1	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Naphthalene	ND		5.0	1.8	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Phenanthrene	8.2		5.0	0.91	ug/Kg		03/06/17 13:41	03/07/17 06:03	1
Pyrene	ND		5.0	0.83	ug/Kg		03/06/17 13:41	03/07/17 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	78		33 - 120	03/06/17 13:41	03/07/17 06:03	1
Terphenyl-d14	82		35 - 146	03/06/17 13:41	03/07/17 06:03	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.8		0.99	0.34	mg/Kg		03/06/17 13:26	03/06/17 22:42	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA03-SO-20

Lab Sample ID: 720-78016-7

Date Collected: 03/02/17 13:15

Matrix: Solid

Date Received: 03/02/17 18:30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		49	0.57	mg/Kg		03/06/17 13:26	03/06/17 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	97		40 - 130	03/06/17 13:26	03/06/17 22:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4	0.24	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Arsenic	3.9		2.8	0.24	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Barium	100		1.4	0.20	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Beryllium	ND		0.28	0.092	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Cadmium	ND		0.35	0.035	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Chromium	58		1.4	0.15	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Cobalt	12		0.57	0.057	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Copper	27		4.3	2.0	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Lead	5.6		1.4	0.30	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Molybdenum	ND		1.4	0.18	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Nickel	85		1.4	0.14	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Selenium	ND		2.8	0.43	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Silver	ND		0.71	0.14	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Thallium	ND		1.4	0.41	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Vanadium	43		1.4	0.19	mg/Kg		03/06/17 12:12	03/07/17 02:11	4
Zinc	59		4.3	1.8	mg/Kg		03/06/17 12:12	03/07/17 02:11	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.035	0.0075	mg/Kg		03/07/17 11:45	03/07/17 16:21	1

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-GW

Lab Sample ID: 720-78016-8

Date Collected: 03/02/17 12:15

Matrix: Water

Date Received: 03/02/17 18:30

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.069	ug/L			03/08/17 04:06	1
Acetone	ND		50	20	ug/L			03/08/17 04:06	1
Benzene	ND		0.50	0.25	ug/L			03/08/17 04:06	1
Dichlorobromomethane	ND		0.50	0.20	ug/L			03/08/17 04:06	1
Bromobenzene	ND		1.0	0.20	ug/L			03/08/17 04:06	1
Chlorobromomethane	ND		1.0	0.25	ug/L			03/08/17 04:06	1
Bromoform	ND		1.0	0.50	ug/L			03/08/17 04:06	1
Bromomethane	ND		1.0	0.49	ug/L			03/08/17 04:06	1
2-Butanone (MEK)	ND		50	8.4	ug/L			03/08/17 04:06	1
n-Butylbenzene	ND		1.0	0.30	ug/L			03/08/17 04:06	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			03/08/17 04:06	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			03/08/17 04:06	1
Carbon disulfide	ND		5.0	0.78	ug/L			03/08/17 04:06	1
Carbon tetrachloride	ND		0.50	0.11	ug/L			03/08/17 04:06	1
Chlorobenzene	ND		0.50	0.13	ug/L			03/08/17 04:06	1
Chloroethane	ND		1.0	0.17	ug/L			03/08/17 04:06	1
Chloroform	ND		1.0	0.40	ug/L			03/08/17 04:06	1
Chloromethane	ND		1.0	0.19	ug/L			03/08/17 04:06	1
2-Chlorotoluene	ND		0.50	0.20	ug/L			03/08/17 04:06	1
4-Chlorotoluene	ND		0.50	0.20	ug/L			03/08/17 04:06	1
Chlorodibromomethane	ND		0.50	0.10	ug/L			03/08/17 04:06	1
1,2-Dichlorobenzene	ND		0.50	0.21	ug/L			03/08/17 04:06	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			03/08/17 04:06	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			03/08/17 04:06	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			03/08/17 04:06	1
1,1-Dichloropropene	ND		0.50	0.20	ug/L			03/08/17 04:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.30	ug/L			03/08/17 04:06	1
Ethylene Dibromide	ND		0.50	0.075	ug/L			03/08/17 04:06	1
Dibromomethane	ND		0.50	0.30	ug/L			03/08/17 04:06	1
Dichlorodifluoromethane	ND		0.50	0.10	ug/L			03/08/17 04:06	1
1,1-Dichloroethane	ND		0.50	0.11	ug/L			03/08/17 04:06	1
1,2-Dichloroethane	1.5		0.50	0.077	ug/L			03/08/17 04:06	1
1,1-Dichloroethene	ND		0.50	0.20	ug/L			03/08/17 04:06	1
cis-1,2-Dichloroethene	ND		0.50	0.076	ug/L			03/08/17 04:06	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			03/08/17 04:06	1
1,2-Dichloropropane	ND		0.50	0.20	ug/L			03/08/17 04:06	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			03/08/17 04:06	1
trans-1,3-Dichloropropene	ND		0.50	0.17	ug/L			03/08/17 04:06	1
Ethylbenzene	ND		0.50	0.13	ug/L			03/08/17 04:06	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L			03/08/17 04:06	1
2-Hexanone	ND		50	3.0	ug/L			03/08/17 04:06	1
Isopropylbenzene	ND		0.50	0.20	ug/L			03/08/17 04:06	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			03/08/17 04:06	1
Methylene Chloride	ND		5.0	1.5	ug/L			03/08/17 04:06	1
4-Methyl-2-pentanone (MIBK)	ND		50	4.5	ug/L			03/08/17 04:06	1
Naphthalene	ND		1.0	0.22	ug/L			03/08/17 04:06	1
N-Propylbenzene	ND		1.0	0.20	ug/L			03/08/17 04:06	1
Styrene	ND		0.50	0.075	ug/L			03/08/17 04:06	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.067	ug/L			03/08/17 04:06	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-GW

Lab Sample ID: 720-78016-8

Date Collected: 03/02/17 12:15

Matrix: Water

Date Received: 03/02/17 18:30

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50	0.074	ug/L			03/08/17 04:06	1
Tetrachloroethene	ND		0.50	0.20	ug/L			03/08/17 04:06	1
Toluene	ND		0.50	0.17	ug/L			03/08/17 04:06	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/08/17 04:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L			03/08/17 04:06	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/08/17 04:06	1
1,1,2-Trichloroethane	ND		0.50	0.11	ug/L			03/08/17 04:06	1
Trichloroethene	ND		0.50	0.20	ug/L			03/08/17 04:06	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			03/08/17 04:06	1
1,2,3-Trichloropropane	ND		0.50	0.087	ug/L			03/08/17 04:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.091	ug/L			03/08/17 04:06	1
1,2,4-Trimethylbenzene	ND		0.50	0.20	ug/L			03/08/17 04:06	1
1,3,5-Trimethylbenzene	ND		0.50	0.17	ug/L			03/08/17 04:06	1
Vinyl acetate	ND		10	0.60	ug/L			03/08/17 04:06	1
Vinyl chloride	ND		0.50	0.20	ug/L			03/08/17 04:06	1
Xylenes, Total	ND		1.0	0.40	ug/L			03/08/17 04:06	1
2,2-Dichloropropane	ND		0.50	0.17	ug/L			03/08/17 04:06	1
Gasoline Range Organics (GRO) -C5-C12	ND		50	21	ug/L			03/08/17 04:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	106		67 - 130					03/08/17 04:06	1
1,2-Dichloroethane-d4 (Surr)	119		72 - 130					03/08/17 04:06	1
Toluene-d8 (Surr)	110		70 - 130					03/08/17 04:06	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.091	0.027	ug/L		03/07/17 10:03	03/07/17 21:46	1
Acenaphthene	ND		0.091	0.032	ug/L		03/07/17 10:03	03/07/17 21:46	1
Acenaphthylene	ND		0.091	0.032	ug/L		03/07/17 10:03	03/07/17 21:46	1
Fluorene	ND		0.091	0.028	ug/L		03/07/17 10:03	03/07/17 21:46	1
Phenanthrene	ND		0.091	0.027	ug/L		03/07/17 10:03	03/07/17 21:46	1
Anthracene	ND		0.091	0.026	ug/L		03/07/17 10:03	03/07/17 21:46	1
Benzo[a]anthracene	ND		0.091	0.025	ug/L		03/07/17 10:03	03/07/17 21:46	1
Chrysene	ND		0.091	0.028	ug/L		03/07/17 10:03	03/07/17 21:46	1
Benzo[a]pyrene	ND		0.091	0.021	ug/L		03/07/17 10:03	03/07/17 21:46	1
Benzo[b]fluoranthene	ND		0.091	0.027	ug/L		03/07/17 10:03	03/07/17 21:46	1
Benzo[k]fluoranthene	ND		0.091	0.031	ug/L		03/07/17 10:03	03/07/17 21:46	1
Benzo[g,h,i]perylene	ND		0.091	0.020	ug/L		03/07/17 10:03	03/07/17 21:46	1
Indeno[1,2,3-cd]pyrene	ND		0.091	0.025	ug/L		03/07/17 10:03	03/07/17 21:46	1
Fluoranthene	ND		0.091	0.027	ug/L		03/07/17 10:03	03/07/17 21:46	1
Pyrene	ND		0.091	0.032	ug/L		03/07/17 10:03	03/07/17 21:46	1
Dibenz(a,h)anthracene	ND		0.091	0.024	ug/L		03/07/17 10:03	03/07/17 21:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		29 - 120				03/07/17 10:03	03/07/17 21:46	1
Terphenyl-d14	75		45 - 120				03/07/17 10:03	03/07/17 21:46	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		51	23	ug/L		03/04/17 07:52	03/06/17 18:07	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-GW

Lab Sample ID: 720-78016-8

Date Collected: 03/02/17 12:15

Matrix: Water

Date Received: 03/02/17 18:30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		100	43	ug/L		03/04/17 07:52	03/06/17 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	99		23 - 156	03/04/17 07:52	03/06/17 18:07	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010	0.0041	mg/L		03/06/17 09:23	03/06/17 20:14	1
Arsenic	ND		0.010	0.0029	mg/L		03/06/17 09:23	03/06/17 20:14	1
Barium	0.14		0.050	0.0016	mg/L		03/06/17 09:23	03/06/17 20:14	1
Beryllium	ND		0.0020	0.00059	mg/L		03/06/17 09:23	03/06/17 20:14	1
Cadmium	ND		0.0020	0.00021	mg/L		03/06/17 09:23	03/06/17 20:14	1
Chromium	ND		0.010	0.00070	mg/L		03/06/17 09:23	03/06/17 20:14	1
Cobalt	0.0027		0.0020	0.00068	mg/L		03/06/17 09:23	03/06/17 20:14	1
Copper	ND		0.020	0.0037	mg/L		03/06/17 09:23	03/06/17 20:14	1
Lead	0.019		0.0050	0.0022	mg/L		03/06/17 09:23	03/06/17 20:14	1
Molybdenum	ND		0.010	0.0029	mg/L		03/06/17 09:23	03/06/17 20:14	1
Nickel	ND		0.010	0.0010	mg/L		03/06/17 09:23	03/06/17 20:14	1
Selenium	ND		0.020	0.0046	mg/L		03/06/17 09:23	03/06/17 20:14	1
Silver	ND		0.0050	0.0020	mg/L		03/06/17 09:23	03/06/17 20:14	1
Thallium	ND		0.010	0.0035	mg/L		03/06/17 09:23	03/06/17 20:14	1
Vanadium	ND		0.010	0.00087	mg/L		03/06/17 09:23	03/06/17 20:14	1
Zinc	0.055		0.020	0.0074	mg/L		03/06/17 09:23	03/06/17 20:14	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		03/08/17 13:36	03/09/17 09:51	1

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA03-SO-1.0

Lab Sample ID: 720-78016-9

Date Collected: 03/02/17 12:45

Matrix: Solid

Date Received: 03/02/17 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8	1.2	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Acetone	ND		48	37	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Benzene	ND		4.8	0.63	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Dichlorobromomethane	ND		4.8	0.70	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Bromobenzene	ND		4.8	0.76	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Chlorobromomethane	ND		19	0.70	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Bromoform	ND		4.8	1.9	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Bromomethane	ND		9.7	0.76	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
2-Butanone (MEK)	ND		48	20	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
n-Butylbenzene	ND		4.8	0.97	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
sec-Butylbenzene	ND		4.8	0.70	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
tert-Butylbenzene	ND		4.8	0.71	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Carbon disulfide	ND		4.8	1.9	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Carbon tetrachloride	ND		4.8	0.60	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Chlorobenzene	ND		4.8	0.67	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Chloroethane	ND		9.7	0.54	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Chloroform	ND		4.8	0.64	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Chloromethane	ND		9.7	0.70	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
2-Chlorotoluene	ND		4.8	0.63	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
4-Chlorotoluene	ND		4.8	0.66	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Chlorodibromomethane	ND		4.8	0.69	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,2-Dichlorobenzene	ND		4.8	0.66	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,3-Dichlorobenzene	ND		4.8	0.70	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,4-Dichlorobenzene	ND		4.8	0.69	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,3-Dichloropropane	ND		4.8	0.71	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,1-Dichloropropene	ND		4.8	0.67	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,2-Dibromo-3-Chloropropane	ND		9.7	1.6	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Ethylene Dibromide	ND		4.8	1.4	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Dibromomethane	ND		9.7	0.83	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Dichlorodifluoromethane	ND		9.7	0.76	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,1-Dichloroethane	ND		4.8	0.66	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,2-Dichloroethane	ND		4.8	0.74	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,1-Dichloroethene	ND		4.8	0.60	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
cis-1,2-Dichloroethene	ND		4.8	0.66	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
trans-1,2-Dichloroethene	ND		4.8	0.73	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,2-Dichloropropane	ND		4.8	0.61	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
cis-1,3-Dichloropropene	ND		4.8	0.67	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
trans-1,3-Dichloropropene	ND		4.8	0.65	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Ethylbenzene	ND		4.8	0.73	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Hexachlorobutadiene	ND		4.8	0.87	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
2-Hexanone	ND		48	9.7	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Isopropylbenzene	ND		4.8	0.66	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
4-Isopropyltoluene	ND		4.8	2.4	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Methylene Chloride	ND		9.7	3.9	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
4-Methyl-2-pentanone (MIBK)	ND		48	9.7	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Naphthalene	ND		9.7	1.5	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
N-Propylbenzene	ND		4.8	0.64	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Styrene	ND		4.8	0.61	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,1,1,2-Tetrachloroethane	ND		4.8	0.74	ug/Kg		03/09/17 20:29	03/10/17 00:11	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA03-SO-1.0

Lab Sample ID: 720-78016-9

Date Collected: 03/02/17 12:45

Matrix: Solid

Date Received: 03/02/17 18:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8	0.73	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Tetrachloroethene	ND		4.8	0.65	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Toluene	ND		4.8	0.69	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,2,3-Trichlorobenzene	ND		4.8	0.72	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,2,4-Trichlorobenzene	ND		4.8	0.69	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,1,1-Trichloroethane	ND		4.8	0.59	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,1,2-Trichloroethane	ND		4.8	0.68	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Trichloroethene	ND		4.8	0.61	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Trichlorofluoromethane	ND		4.8	0.54	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,2,3-Trichloropropane	ND		4.8	0.74	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8	2.0	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,2,4-Trimethylbenzene	ND		4.8	1.6	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
1,3,5-Trimethylbenzene	ND		4.8	0.63	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Vinyl acetate	ND		19	4.8	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Vinyl chloride	ND		4.8	0.71	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Xylenes, Total	ND		9.7	1.2	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
2,2-Dichloropropane	ND		4.8	1.9	ug/Kg		03/09/17 20:29	03/10/17 00:11	1
Gasoline Range Organics (GRO) -C5-C12	ND		240	97	ug/Kg		03/09/17 20:29	03/10/17 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	103		45 - 131	03/09/17 20:29	03/10/17 00:11	1
1,2-Dichloroethane-d4 (Surr)	120		60 - 140	03/09/17 20:29	03/10/17 00:11	1
Toluene-d8 (Surr)	110		58 - 140	03/09/17 20:29	03/10/17 00:11	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		25	7.0	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Acenaphthylene	ND		25	5.9	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Anthracene	ND		25	4.8	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Benzo[a]anthracene	83		25	3.7	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Benzo[a]pyrene	95		25	4.6	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Benzo[b]fluoranthene	150		25	5.3	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Benzo[g,h,i]perylene	59		25	11	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Benzo[k]fluoranthene	52		25	5.1	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Chrysene	110		25	3.5	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Dibenz(a,h)anthracene	ND		25	8.8	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Fluoranthene	130		25	3.5	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Fluorene	ND		25	5.5	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Indeno[1,2,3-cd]pyrene	59		25	11	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Naphthalene	ND		25	8.8	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Phenanthrene	54		25	4.6	ug/Kg		03/06/17 13:41	03/07/17 09:59	5
Pyrene	120		25	4.1	ug/Kg		03/06/17 13:41	03/07/17 09:59	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		33 - 120	03/06/17 13:41	03/07/17 09:59	5
Terphenyl-d14	76		35 - 146	03/06/17 13:41	03/07/17 09:59	5

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110		5.0	1.7	mg/Kg		03/06/17 13:26	03/06/17 23:54	5

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA03-SO-1.0

Lab Sample ID: 720-78016-9

Date Collected: 03/02/17 12:45

Matrix: Solid

Date Received: 03/02/17 18:30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	470		250	2.9	mg/Kg		03/06/17 13:26	03/06/17 23:54	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130				03/06/17 13:26	03/06/17 23:54	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:52	1
PCB-1221	ND		49	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:52	1
PCB-1232	ND		49	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:52	1
PCB-1242	ND		49	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:52	1
PCB-1248	ND		49	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:52	1
PCB-1254	ND		49	1.8	ug/Kg		03/06/17 13:49	03/07/17 03:52	1
PCB-1260	63		49	5.2	ug/Kg		03/06/17 13:49	03/07/17 03:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		45 - 132				03/06/17 13:49	03/07/17 03:52	1
DCB Decachlorobiphenyl	96		42 - 146				03/06/17 13:49	03/07/17 03:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.2	0.19	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Arsenic	4.4		2.3	0.20	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Barium	180		1.2	0.17	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Beryllium	ND		0.23	0.076	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Cadmium	0.36		0.29	0.029	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Chromium	110		1.2	0.12	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Cobalt	16		0.47	0.047	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Copper	51		3.5	1.7	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Lead	180		1.2	0.24	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Molybdenum	ND		1.2	0.15	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Nickel	170		1.2	0.12	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Selenium	ND		2.3	0.35	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Silver	ND		0.58	0.12	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Thallium	ND		1.2	0.34	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Vanadium	40		1.2	0.16	mg/Kg		03/06/17 12:12	03/07/17 02:15	4
Zinc	190		3.5	1.5	mg/Kg		03/06/17 12:12	03/07/17 02:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.036	0.0077	mg/Kg		03/07/17 11:45	03/07/17 16:29	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: TB
Date Collected: 03/02/17 00:00
Date Received: 03/02/17 18:30

Lab Sample ID: 720-78016-10
Matrix: Water

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.069	ug/L			03/07/17 23:24	1
Acetone	ND		50	20	ug/L			03/07/17 23:24	1
Benzene	ND		0.50	0.25	ug/L			03/07/17 23:24	1
Dichlorobromomethane	ND		0.50	0.20	ug/L			03/07/17 23:24	1
Bromobenzene	ND		1.0	0.20	ug/L			03/07/17 23:24	1
Chlorobromomethane	ND		1.0	0.25	ug/L			03/07/17 23:24	1
Bromoform	ND		1.0	0.50	ug/L			03/07/17 23:24	1
Bromomethane	ND		1.0	0.49	ug/L			03/07/17 23:24	1
2-Butanone (MEK)	ND		50	8.4	ug/L			03/07/17 23:24	1
n-Butylbenzene	ND		1.0	0.30	ug/L			03/07/17 23:24	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			03/07/17 23:24	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			03/07/17 23:24	1
Carbon disulfide	ND		5.0	0.78	ug/L			03/07/17 23:24	1
Carbon tetrachloride	ND		0.50	0.11	ug/L			03/07/17 23:24	1
Chlorobenzene	ND		0.50	0.13	ug/L			03/07/17 23:24	1
Chloroethane	ND		1.0	0.17	ug/L			03/07/17 23:24	1
Chloroform	ND		1.0	0.40	ug/L			03/07/17 23:24	1
Chloromethane	ND		1.0	0.19	ug/L			03/07/17 23:24	1
2-Chlorotoluene	ND		0.50	0.20	ug/L			03/07/17 23:24	1
4-Chlorotoluene	ND		0.50	0.20	ug/L			03/07/17 23:24	1
Chlorodibromomethane	ND		0.50	0.10	ug/L			03/07/17 23:24	1
1,2-Dichlorobenzene	ND		0.50	0.21	ug/L			03/07/17 23:24	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			03/07/17 23:24	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			03/07/17 23:24	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			03/07/17 23:24	1
1,1-Dichloropropene	ND		0.50	0.20	ug/L			03/07/17 23:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.30	ug/L			03/07/17 23:24	1
Ethylene Dibromide	ND		0.50	0.075	ug/L			03/07/17 23:24	1
Dibromomethane	ND		0.50	0.30	ug/L			03/07/17 23:24	1
Dichlorodifluoromethane	ND		0.50	0.10	ug/L			03/07/17 23:24	1
1,1-Dichloroethane	ND		0.50	0.11	ug/L			03/07/17 23:24	1
1,2-Dichloroethane	ND		0.50	0.077	ug/L			03/07/17 23:24	1
1,1-Dichloroethene	ND		0.50	0.20	ug/L			03/07/17 23:24	1
cis-1,2-Dichloroethene	ND		0.50	0.076	ug/L			03/07/17 23:24	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			03/07/17 23:24	1
1,2-Dichloropropane	ND		0.50	0.20	ug/L			03/07/17 23:24	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			03/07/17 23:24	1
trans-1,3-Dichloropropene	ND		0.50	0.17	ug/L			03/07/17 23:24	1
Ethylbenzene	ND		0.50	0.13	ug/L			03/07/17 23:24	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L			03/07/17 23:24	1
2-Hexanone	ND		50	3.0	ug/L			03/07/17 23:24	1
Isopropylbenzene	ND		0.50	0.20	ug/L			03/07/17 23:24	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			03/07/17 23:24	1
Methylene Chloride	ND		5.0	1.5	ug/L			03/07/17 23:24	1
4-Methyl-2-pentanone (MIBK)	ND		50	4.5	ug/L			03/07/17 23:24	1
Naphthalene	ND		1.0	0.22	ug/L			03/07/17 23:24	1
N-Propylbenzene	ND		1.0	0.20	ug/L			03/07/17 23:24	1
Styrene	ND		0.50	0.075	ug/L			03/07/17 23:24	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.067	ug/L			03/07/17 23:24	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: TB

Lab Sample ID: 720-78016-10

Date Collected: 03/02/17 00:00

Matrix: Water

Date Received: 03/02/17 18:30

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50	0.074	ug/L			03/07/17 23:24	1
Tetrachloroethene	ND		0.50	0.20	ug/L			03/07/17 23:24	1
Toluene	ND		0.50	0.17	ug/L			03/07/17 23:24	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/07/17 23:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L			03/07/17 23:24	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/07/17 23:24	1
1,1,2-Trichloroethane	ND		0.50	0.11	ug/L			03/07/17 23:24	1
Trichloroethene	ND		0.50	0.20	ug/L			03/07/17 23:24	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			03/07/17 23:24	1
1,2,3-Trichloropropane	ND		0.50	0.087	ug/L			03/07/17 23:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.091	ug/L			03/07/17 23:24	1
1,2,4-Trimethylbenzene	ND		0.50	0.20	ug/L			03/07/17 23:24	1
1,3,5-Trimethylbenzene	ND		0.50	0.17	ug/L			03/07/17 23:24	1
Vinyl acetate	ND		10	0.60	ug/L			03/07/17 23:24	1
Vinyl chloride	ND		0.50	0.20	ug/L			03/07/17 23:24	1
Xylenes, Total	ND		1.0	0.40	ug/L			03/07/17 23:24	1
2,2-Dichloropropane	ND		0.50	0.17	ug/L			03/07/17 23:24	1
Gasoline Range Organics (GRO) -C5-C12	ND		50	21	ug/L			03/07/17 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	108		67 - 130					03/07/17 23:24	1
1,2-Dichloroethane-d4 (Surr)	115		72 - 130					03/07/17 23:24	1
Toluene-d8 (Surr)	111		70 - 130					03/07/17 23:24	1

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA03-GW

Lab Sample ID: 720-78016-11

Date Collected: 03/02/17 14:00

Matrix: Water

Date Received: 03/02/17 18:30

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.069	ug/L			03/08/17 04:34	1
Acetone	ND		50	20	ug/L			03/08/17 04:34	1
Benzene	ND		0.50	0.25	ug/L			03/08/17 04:34	1
Dichlorobromomethane	ND		0.50	0.20	ug/L			03/08/17 04:34	1
Bromobenzene	ND		1.0	0.20	ug/L			03/08/17 04:34	1
Chlorobromomethane	ND		1.0	0.25	ug/L			03/08/17 04:34	1
Bromoform	ND		1.0	0.50	ug/L			03/08/17 04:34	1
Bromomethane	ND		1.0	0.49	ug/L			03/08/17 04:34	1
2-Butanone (MEK)	ND		50	8.4	ug/L			03/08/17 04:34	1
n-Butylbenzene	ND		1.0	0.30	ug/L			03/08/17 04:34	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			03/08/17 04:34	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			03/08/17 04:34	1
Carbon disulfide	ND		5.0	0.78	ug/L			03/08/17 04:34	1
Carbon tetrachloride	ND		0.50	0.11	ug/L			03/08/17 04:34	1
Chlorobenzene	ND		0.50	0.13	ug/L			03/08/17 04:34	1
Chloroethane	ND		1.0	0.17	ug/L			03/08/17 04:34	1
Chloroform	ND		1.0	0.40	ug/L			03/08/17 04:34	1
Chloromethane	ND		1.0	0.19	ug/L			03/08/17 04:34	1
2-Chlorotoluene	ND		0.50	0.20	ug/L			03/08/17 04:34	1
4-Chlorotoluene	ND		0.50	0.20	ug/L			03/08/17 04:34	1
Chlorodibromomethane	ND		0.50	0.10	ug/L			03/08/17 04:34	1
1,2-Dichlorobenzene	ND		0.50	0.21	ug/L			03/08/17 04:34	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			03/08/17 04:34	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			03/08/17 04:34	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			03/08/17 04:34	1
1,1-Dichloropropene	ND		0.50	0.20	ug/L			03/08/17 04:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.30	ug/L			03/08/17 04:34	1
Ethylene Dibromide	ND		0.50	0.075	ug/L			03/08/17 04:34	1
Dibromomethane	ND		0.50	0.30	ug/L			03/08/17 04:34	1
Dichlorodifluoromethane	ND		0.50	0.10	ug/L			03/08/17 04:34	1
1,1-Dichloroethane	ND		0.50	0.11	ug/L			03/08/17 04:34	1
1,2-Dichloroethane	ND		0.50	0.077	ug/L			03/08/17 04:34	1
1,1-Dichloroethene	ND		0.50	0.20	ug/L			03/08/17 04:34	1
cis-1,2-Dichloroethene	ND		0.50	0.076	ug/L			03/08/17 04:34	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			03/08/17 04:34	1
1,2-Dichloropropane	ND		0.50	0.20	ug/L			03/08/17 04:34	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			03/08/17 04:34	1
trans-1,3-Dichloropropene	ND		0.50	0.17	ug/L			03/08/17 04:34	1
Ethylbenzene	ND		0.50	0.13	ug/L			03/08/17 04:34	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L			03/08/17 04:34	1
2-Hexanone	ND		50	3.0	ug/L			03/08/17 04:34	1
Isopropylbenzene	ND		0.50	0.20	ug/L			03/08/17 04:34	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			03/08/17 04:34	1
Methylene Chloride	ND		5.0	1.5	ug/L			03/08/17 04:34	1
4-Methyl-2-pentanone (MIBK)	ND		50	4.5	ug/L			03/08/17 04:34	1
Naphthalene	ND		1.0	0.22	ug/L			03/08/17 04:34	1
N-Propylbenzene	ND		1.0	0.20	ug/L			03/08/17 04:34	1
Styrene	ND		0.50	0.075	ug/L			03/08/17 04:34	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.067	ug/L			03/08/17 04:34	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA03-GW

Lab Sample ID: 720-78016-11

Date Collected: 03/02/17 14:00

Matrix: Water

Date Received: 03/02/17 18:30

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50	0.074	ug/L			03/08/17 04:34	1
Tetrachloroethene	ND		0.50	0.20	ug/L			03/08/17 04:34	1
Toluene	ND		0.50	0.17	ug/L			03/08/17 04:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/08/17 04:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L			03/08/17 04:34	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/08/17 04:34	1
1,1,2-Trichloroethane	ND		0.50	0.11	ug/L			03/08/17 04:34	1
Trichloroethene	ND		0.50	0.20	ug/L			03/08/17 04:34	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			03/08/17 04:34	1
1,2,3-Trichloropropane	ND		0.50	0.087	ug/L			03/08/17 04:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.091	ug/L			03/08/17 04:34	1
1,2,4-Trimethylbenzene	ND		0.50	0.20	ug/L			03/08/17 04:34	1
1,3,5-Trimethylbenzene	ND		0.50	0.17	ug/L			03/08/17 04:34	1
Vinyl acetate	ND		10	0.60	ug/L			03/08/17 04:34	1
Vinyl chloride	ND		0.50	0.20	ug/L			03/08/17 04:34	1
Xylenes, Total	ND		1.0	0.40	ug/L			03/08/17 04:34	1
2,2-Dichloropropane	ND		0.50	0.17	ug/L			03/08/17 04:34	1
Gasoline Range Organics (GRO) -C5-C12	ND		50	21	ug/L			03/08/17 04:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	104		67 - 130					03/08/17 04:34	1
1,2-Dichloroethane-d4 (Surr)	116		72 - 130					03/08/17 04:34	1
Toluene-d8 (Surr)	110		70 - 130					03/08/17 04:34	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.13	0.038	ug/L		03/07/17 10:03	03/07/17 22:09	1
Acenaphthene	ND		0.13	0.044	ug/L		03/07/17 10:03	03/07/17 22:09	1
Acenaphthylene	ND		0.13	0.044	ug/L		03/07/17 10:03	03/07/17 22:09	1
Fluorene	ND		0.13	0.039	ug/L		03/07/17 10:03	03/07/17 22:09	1
Phenanthrene	ND		0.13	0.038	ug/L		03/07/17 10:03	03/07/17 22:09	1
Anthracene	ND		0.13	0.036	ug/L		03/07/17 10:03	03/07/17 22:09	1
Benzo[a]anthracene	ND		0.13	0.034	ug/L		03/07/17 10:03	03/07/17 22:09	1
Chrysene	ND		0.13	0.039	ug/L		03/07/17 10:03	03/07/17 22:09	1
Benzo[a]pyrene	ND		0.13	0.029	ug/L		03/07/17 10:03	03/07/17 22:09	1
Benzo[b]fluoranthene	ND		0.13	0.038	ug/L		03/07/17 10:03	03/07/17 22:09	1
Benzo[k]fluoranthene	ND		0.13	0.043	ug/L		03/07/17 10:03	03/07/17 22:09	1
Benzo[g,h,i]perylene	ND		0.13	0.028	ug/L		03/07/17 10:03	03/07/17 22:09	1
Indeno[1,2,3-cd]pyrene	ND		0.13	0.034	ug/L		03/07/17 10:03	03/07/17 22:09	1
Fluoranthene	ND		0.13	0.038	ug/L		03/07/17 10:03	03/07/17 22:09	1
Pyrene	ND		0.13	0.044	ug/L		03/07/17 10:03	03/07/17 22:09	1
Dibenz(a,h)anthracene	ND		0.13	0.033	ug/L		03/07/17 10:03	03/07/17 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	67		29 - 120				03/07/17 10:03	03/07/17 22:09	1
Terphenyl-d14	54		45 - 120				03/07/17 10:03	03/07/17 22:09	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		51	22	ug/L		03/04/17 07:52	03/06/17 18:36	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA03-GW

Lab Sample ID: 720-78016-11

Date Collected: 03/02/17 14:00

Matrix: Water

Date Received: 03/02/17 18:30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		100	43	ug/L		03/04/17 07:52	03/06/17 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	97		23 - 156	03/04/17 07:52	03/06/17 18:36	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010	0.0041	mg/L		03/06/17 09:23	03/06/17 20:09	1
Arsenic	ND		0.010	0.0029	mg/L		03/06/17 09:23	03/06/17 20:09	1
Barium	0.094		0.050	0.0016	mg/L		03/06/17 09:23	03/06/17 20:09	1
Beryllium	ND		0.0020	0.00059	mg/L		03/06/17 09:23	03/06/17 20:09	1
Cadmium	ND		0.0020	0.00021	mg/L		03/06/17 09:23	03/06/17 20:09	1
Chromium	ND		0.010	0.00070	mg/L		03/06/17 09:23	03/06/17 20:09	1
Cobalt	0.0030		0.0020	0.00068	mg/L		03/06/17 09:23	03/06/17 20:09	1
Copper	ND		0.020	0.0037	mg/L		03/06/17 09:23	03/06/17 20:09	1
Lead	0.018		0.0050	0.0022	mg/L		03/06/17 09:23	03/06/17 20:09	1
Molybdenum	ND		0.010	0.0029	mg/L		03/06/17 09:23	03/06/17 20:09	1
Nickel	ND		0.010	0.0010	mg/L		03/06/17 09:23	03/06/17 20:09	1
Selenium	ND		0.020	0.0046	mg/L		03/06/17 09:23	03/06/17 20:09	1
Silver	ND		0.0050	0.0020	mg/L		03/06/17 09:23	03/06/17 20:09	1
Thallium	ND		0.010	0.0035	mg/L		03/06/17 09:23	03/06/17 20:09	1
Vanadium	ND		0.010	0.00087	mg/L		03/06/17 09:23	03/06/17 20:09	1
Zinc	0.042		0.020	0.0074	mg/L		03/06/17 09:23	03/06/17 20:09	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		03/08/17 13:36	03/09/17 09:53	1

Surrogate Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (45-131)	12DCE (60-140)	TOL (58-140)
720-78016-1	HA01-SO-0.5	107	120	111
720-78016-2	HA01-SO-28	104	108	109
720-78016-2	HA01-SO-28	85	107	99
720-78016-4	HA02-SO-0.5	107	104	110
720-78016-4	HA02-SO-0.5	108	119	100
720-78016-5	HA02-SO-30	106	102	109
720-78016-5	HA02-SO-30	92	108	102
720-78016-6	HA02-SO-24	105	119	109
720-78016-7	HA03-SO-20	103	118	109
720-78016-9	HA03-SO-1.0	103	120	110
LCS 720-218943/5	Lab Control Sample	108	99	112
LCS 720-219016/7	Lab Control Sample	104	97	109
LCS 720-219053/6	Lab Control Sample	109	117	113
LCS 720-219053/8	Lab Control Sample	110	118	113
LCSD 720-218943/6	Lab Control Sample Dup	107	102	112
LCSD 720-219016/8	Lab Control Sample Dup	101	99	108
LCSD 720-219053/7	Lab Control Sample Dup	107	113	113
LCSD 720-219053/9	Lab Control Sample Dup	110	113	113
MB 720-218943/4	Method Blank	108	105	112
MB 720-219016/4	Method Blank	98	99	106
MB 720-219053/5	Method Blank	107	118	112

Surrogate Legend

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

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (67-130)	12DCE (72-130)	TOL (70-130)
720-78016-3	HA01-GW	107	119	112
720-78016-8	HA02-GW	106	119	110
720-78016-10	TB	108	115	111
720-78016-11	HA03-GW	104	116	110
LCS 720-218887/5	Lab Control Sample	109	109	112
LCS 720-218887/7	Lab Control Sample	110	111	111
LCSD 720-218887/6	Lab Control Sample Dup	108	109	112
LCSD 720-218887/8	Lab Control Sample Dup	110	112	112
MB 720-218887/4	Method Blank	110	112	111

Surrogate Legend

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

Surrogate Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Method: 8270C SIM - PAHs by GCMS (SIM)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (33-120)	TPH (35-146)
720-78016-1	HA01-SO-0.5	85	74
720-78016-2	HA01-SO-28	68	73
720-78016-4	HA02-SO-0.5	72	64
720-78016-4 MS	HA02-SO-0.5	102	95
720-78016-4 MSD	HA02-SO-0.5	102	88
720-78016-5	HA02-SO-30	72	79
720-78016-6	HA02-SO-24	74	72
720-78016-7	HA03-SO-20	78	82
720-78016-9	HA03-SO-1.0	83	76
LCS 720-218806/2-A	Lab Control Sample	88	92
MB 720-218806/1-A	Method Blank	93	100

Surrogate Legend

FBP = 2-Fluorobiphenyl

TPH = Terphenyl-d14

Method: 8270C SIM - PAHs by GCMS (SIM)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (29-120)	TPH (45-120)
720-78016-3	HA01-GW	74	65
720-78016-8	HA02-GW	71	75
720-78016-11	HA03-GW	67	54
LCS 720-218855/2-A	Lab Control Sample	54	80
LCS 720-218855/3-A	Lab Control Sample Dup	69	86
MB 720-218855/1-A	Method Blank	84	98

Surrogate Legend

FBP = 2-Fluorobiphenyl

TPH = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PTP1 (40-130)
720-78016-1	HA01-SO-0.5	0 X D
720-78016-2	HA01-SO-28	91
720-78016-4	HA02-SO-0.5	106
720-78016-5	HA02-SO-30	99
720-78016-6	HA02-SO-24	101
720-78016-7	HA03-SO-20	97
720-78016-9	HA03-SO-1.0	0 X D
LCS 720-218792/2-A	Lab Control Sample	108
MB 720-218792/1-A	Method Blank	118

Surrogate Legend

TestAmerica Pleasanton

Surrogate Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

PTP = p-Terphenyl

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PTP1 (23-156)
720-78016-3	HA01-GW	75
720-78016-8	HA02-GW	99
720-78016-11	HA03-GW	97
LCS 720-218764/2-A	Lab Control Sample	107
LCSD 720-218764/3-A	Lab Control Sample Dup	107
MB 720-218764/1-A	Method Blank	94

Surrogate Legend

PTP = p-Terphenyl

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (45-132)	DCB1 (42-146)
720-78016-1	HA01-SO-0.5	86	111
720-78016-4	HA02-SO-0.5	80	92
720-78016-4 MS	HA02-SO-0.5	83	95
720-78016-4 MSD	HA02-SO-0.5	87	91
720-78016-9	HA03-SO-1.0	79	96
LCS 720-218810/2-A	Lab Control Sample	74	83
MB 720-218810/1-A	Method Blank	74	85

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: MB 720-218943/4
Matrix: Solid
Analysis Batch: 218943

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0	1.2	ug/Kg			03/08/17 13:58	1
Acetone	ND		50	38	ug/Kg			03/08/17 13:58	1
Benzene	ND		5.0	0.65	ug/Kg			03/08/17 13:58	1
Dichlorobromomethane	ND		5.0	0.72	ug/Kg			03/08/17 13:58	1
Bromobenzene	ND		5.0	0.79	ug/Kg			03/08/17 13:58	1
Chlorobromomethane	ND		20	0.72	ug/Kg			03/08/17 13:58	1
Bromoform	ND		5.0	2.0	ug/Kg			03/08/17 13:58	1
Bromomethane	ND		10	0.79	ug/Kg			03/08/17 13:58	1
2-Butanone (MEK)	ND		50	21	ug/Kg			03/08/17 13:58	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			03/08/17 13:58	1
sec-Butylbenzene	ND		5.0	0.72	ug/Kg			03/08/17 13:58	1
tert-Butylbenzene	ND		5.0	0.73	ug/Kg			03/08/17 13:58	1
Carbon disulfide	ND		5.0	2.0	ug/Kg			03/08/17 13:58	1
Carbon tetrachloride	ND		5.0	0.62	ug/Kg			03/08/17 13:58	1
Chlorobenzene	ND		5.0	0.69	ug/Kg			03/08/17 13:58	1
Chloroethane	ND		10	0.56	ug/Kg			03/08/17 13:58	1
Chloroform	ND		5.0	0.66	ug/Kg			03/08/17 13:58	1
Chloromethane	ND		10	0.72	ug/Kg			03/08/17 13:58	1
2-Chlorotoluene	ND		5.0	0.65	ug/Kg			03/08/17 13:58	1
4-Chlorotoluene	ND		5.0	0.68	ug/Kg			03/08/17 13:58	1
Chlorodibromomethane	ND		5.0	0.71	ug/Kg			03/08/17 13:58	1
1,2-Dichlorobenzene	ND		5.0	0.68	ug/Kg			03/08/17 13:58	1
1,3-Dichlorobenzene	ND		5.0	0.72	ug/Kg			03/08/17 13:58	1
1,4-Dichlorobenzene	ND		5.0	0.71	ug/Kg			03/08/17 13:58	1
1,3-Dichloropropane	ND		5.0	0.73	ug/Kg			03/08/17 13:58	1
1,1-Dichloropropene	ND		5.0	0.69	ug/Kg			03/08/17 13:58	1
1,2-Dibromo-3-Chloropropane	ND		10	1.7	ug/Kg			03/08/17 13:58	1
Ethylene Dibromide	ND		5.0	1.4	ug/Kg			03/08/17 13:58	1
Dibromomethane	ND		10	0.86	ug/Kg			03/08/17 13:58	1
Dichlorodifluoromethane	ND		10	0.79	ug/Kg			03/08/17 13:58	1
1,1-Dichloroethane	ND		5.0	0.68	ug/Kg			03/08/17 13:58	1
1,2-Dichloroethane	ND		5.0	0.76	ug/Kg			03/08/17 13:58	1
1,1-Dichloroethene	ND		5.0	0.62	ug/Kg			03/08/17 13:58	1
cis-1,2-Dichloroethene	ND		5.0	0.68	ug/Kg			03/08/17 13:58	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/Kg			03/08/17 13:58	1
1,2-Dichloropropane	ND		5.0	0.63	ug/Kg			03/08/17 13:58	1
cis-1,3-Dichloropropene	ND		5.0	0.69	ug/Kg			03/08/17 13:58	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg			03/08/17 13:58	1
Ethylbenzene	ND		5.0	0.75	ug/Kg			03/08/17 13:58	1
Hexachlorobutadiene	ND		5.0	0.90	ug/Kg			03/08/17 13:58	1
2-Hexanone	ND		50	10	ug/Kg			03/08/17 13:58	1
Isopropylbenzene	ND		5.0	0.68	ug/Kg			03/08/17 13:58	1
4-Isopropyltoluene	ND		5.0	2.5	ug/Kg			03/08/17 13:58	1
Methylene Chloride	ND		10	4.0	ug/Kg			03/08/17 13:58	1
4-Methyl-2-pentanone (MIBK)	ND		50	10	ug/Kg			03/08/17 13:58	1
Naphthalene	ND		10	1.5	ug/Kg			03/08/17 13:58	1
N-Propylbenzene	ND		5.0	0.66	ug/Kg			03/08/17 13:58	1
Styrene	ND		5.0	0.63	ug/Kg			03/08/17 13:58	1

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: MB 720-218943/4
Matrix: Solid
Analysis Batch: 218943

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.76	ug/Kg			03/08/17 13:58	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.75	ug/Kg			03/08/17 13:58	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg			03/08/17 13:58	1
Toluene	ND		5.0	0.71	ug/Kg			03/08/17 13:58	1
1,2,3-Trichlorobenzene	ND		5.0	0.74	ug/Kg			03/08/17 13:58	1
1,2,4-Trichlorobenzene	ND		5.0	0.71	ug/Kg			03/08/17 13:58	1
1,1,1-Trichloroethane	ND		5.0	0.61	ug/Kg			03/08/17 13:58	1
1,1,2-Trichloroethane	ND		5.0	0.70	ug/Kg			03/08/17 13:58	1
Trichloroethene	ND		5.0	0.63	ug/Kg			03/08/17 13:58	1
Trichlorofluoromethane	ND		5.0	0.56	ug/Kg			03/08/17 13:58	1
1,2,3-Trichloropropane	ND		5.0	0.77	ug/Kg			03/08/17 13:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	2.1	ug/Kg			03/08/17 13:58	1
1,2,4-Trimethylbenzene	ND		5.0	1.6	ug/Kg			03/08/17 13:58	1
1,3,5-Trimethylbenzene	ND		5.0	0.65	ug/Kg			03/08/17 13:58	1
Vinyl acetate	ND		20	5.0	ug/Kg			03/08/17 13:58	1
Vinyl chloride	ND		5.0	0.73	ug/Kg			03/08/17 13:58	1
Xylenes, Total	ND		10	1.2	ug/Kg			03/08/17 13:58	1
2,2-Dichloropropane	ND		5.0	2.0	ug/Kg			03/08/17 13:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	108		45 - 131		03/08/17 13:58	1
1,2-Dichloroethane-d4 (Surr)	105		60 - 140		03/08/17 13:58	1
Toluene-d8 (Surr)	112		58 - 140		03/08/17 13:58	1

Lab Sample ID: LCS 720-218943/5
Matrix: Solid
Analysis Batch: 218943

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	47.8		ug/Kg		96	70 - 144
Acetone	250	268		ug/Kg		107	30 - 162
Benzene	50.0	53.4		ug/Kg		107	70 - 130
Dichlorobromomethane	50.0	51.6		ug/Kg		103	70 - 140
Bromobenzene	50.0	51.1		ug/Kg		102	70 - 130
Chlorobromomethane	50.0	49.4		ug/Kg		99	70 - 130
Bromoform	50.0	49.4		ug/Kg		99	59 - 158
Bromomethane	50.0	48.8		ug/Kg		98	59 - 132
2-Butanone (MEK)	250	267		ug/Kg		107	59 - 159
n-Butylbenzene	50.0	55.2		ug/Kg		110	70 - 142
sec-Butylbenzene	50.0	54.5		ug/Kg		109	70 - 136
tert-Butylbenzene	50.0	53.7		ug/Kg		107	70 - 130
Carbon disulfide	50.0	48.8		ug/Kg		98	60 - 140
Carbon tetrachloride	50.0	54.2		ug/Kg		108	70 - 142
Chlorobenzene	50.0	52.6		ug/Kg		105	70 - 130
Chloroethane	50.0	50.9		ug/Kg		102	65 - 130
Chloroform	50.0	51.1		ug/Kg		102	77 - 127
Chloromethane	50.0	51.4		ug/Kg		103	55 - 140
2-Chlorotoluene	50.0	51.4		ug/Kg		103	70 - 138

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: LCS 720-218943/5

Matrix: Solid

Analysis Batch: 218943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	50.0	52.9		ug/Kg		106	70 - 136
Chlorodibromomethane	50.0	48.3		ug/Kg		97	70 - 146
1,2-Dichlorobenzene	50.0	51.4		ug/Kg		103	70 - 130
1,3-Dichlorobenzene	50.0	51.8		ug/Kg		104	70 - 131
1,4-Dichlorobenzene	50.0	52.8		ug/Kg		106	70 - 130
1,3-Dichloropropane	50.0	48.9		ug/Kg		98	70 - 140
1,1-Dichloropropene	50.0	54.7		ug/Kg		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.6		ug/Kg		97	60 - 145
Ethylene Dibromide	50.0	49.7		ug/Kg		99	70 - 140
Dibromomethane	50.0	49.5		ug/Kg		99	70 - 139
Dichlorodifluoromethane	50.0	45.1		ug/Kg		90	37 - 158
1,1-Dichloroethane	50.0	50.9		ug/Kg		102	70 - 130
1,2-Dichloroethane	50.0	48.3		ug/Kg		97	70 - 130
1,1-Dichloroethene	50.0	49.0		ug/Kg		98	74 - 122
cis-1,2-Dichloroethene	50.0	51.0		ug/Kg		102	70 - 138
trans-1,2-Dichloroethene	50.0	52.1		ug/Kg		104	67 - 130
1,2-Dichloropropane	50.0	51.1		ug/Kg		102	73 - 127
cis-1,3-Dichloropropene	50.0	52.3		ug/Kg		105	68 - 147
trans-1,3-Dichloropropene	50.0	49.6		ug/Kg		99	70 - 155
Ethylbenzene	50.0	53.9		ug/Kg		108	80 - 137
Hexachlorobutadiene	50.0	57.6		ug/Kg		115	70 - 132
2-Hexanone	250	263		ug/Kg		105	62 - 158
Isopropylbenzene	50.0	55.5		ug/Kg		111	70 - 130
4-Isopropyltoluene	50.0	53.7		ug/Kg		107	70 - 133
Methylene Chloride	50.0	50.5		ug/Kg		101	70 - 134
4-Methyl-2-pentanone (MIBK)	250	264		ug/Kg		105	60 - 160
Naphthalene	50.0	51.3		ug/Kg		103	60 - 147
N-Propylbenzene	50.0	54.5		ug/Kg		109	70 - 130
Styrene	50.0	54.2		ug/Kg		108	70 - 130
1,1,1,2-Tetrachloroethane	50.0	53.8		ug/Kg		108	70 - 130
1,1,1,2,2-Tetrachloroethane	50.0	50.7		ug/Kg		101	70 - 146
Tetrachloroethene	50.0	54.8		ug/Kg		110	70 - 132
Toluene	50.0	53.1		ug/Kg		106	75 - 120
1,2,3-Trichlorobenzene	50.0	53.1		ug/Kg		106	60 - 140
1,2,4-Trichlorobenzene	50.0	53.0		ug/Kg		106	60 - 140
1,1,1-Trichloroethane	50.0	53.3		ug/Kg		107	70 - 130
1,1,2-Trichloroethane	50.0	50.4		ug/Kg		101	70 - 130
Trichloroethene	50.0	53.5		ug/Kg		107	70 - 133
Trichlorofluoromethane	50.0	52.5		ug/Kg		105	60 - 140
1,2,3-Trichloropropane	50.0	50.2		ug/Kg		100	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.3		ug/Kg		103	60 - 140
1,2,4-Trimethylbenzene	50.0	52.8		ug/Kg		106	70 - 130
1,3,5-Trimethylbenzene	50.0	53.2		ug/Kg		106	70 - 131
Vinyl acetate	50.0	48.8		ug/Kg		98	38 - 176
Vinyl chloride	50.0	53.5		ug/Kg		107	58 - 125
m-Xylene & p-Xylene	50.0	53.8		ug/Kg		108	70 - 146
o-Xylene	50.0	54.4		ug/Kg		109	70 - 140

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: LCS 720-218943/5
Matrix: Solid
Analysis Batch: 218943

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	59.3		ug/Kg		119	70 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	108		45 - 131
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	112		58 - 140

Lab Sample ID: LCSD 720-218943/6
Matrix: Solid
Analysis Batch: 218943

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
Methyl tert-butyl ether	50.0	52.8		ug/Kg		106	70 - 144	10	20
Acetone	250	281		ug/Kg		112	30 - 162	5	30
Benzene	50.0	53.8		ug/Kg		108	70 - 130	1	20
Dichlorobromomethane	50.0	54.1		ug/Kg		108	70 - 140	5	20
Bromobenzene	50.0	50.8		ug/Kg		102	70 - 130	1	20
Chlorobromomethane	50.0	51.7		ug/Kg		103	70 - 130	5	20
Bromoform	50.0	51.7		ug/Kg		103	59 - 158	5	20
Bromomethane	50.0	48.5		ug/Kg		97	59 - 132	1	20
2-Butanone (MEK)	250	309		ug/Kg		124	59 - 159	15	20
n-Butylbenzene	50.0	52.3		ug/Kg		105	70 - 142	5	20
sec-Butylbenzene	50.0	51.8		ug/Kg		104	70 - 136	5	20
tert-Butylbenzene	50.0	50.7		ug/Kg		101	70 - 130	6	20
Carbon disulfide	50.0	47.4		ug/Kg		95	60 - 140	3	20
Carbon tetrachloride	50.0	52.9		ug/Kg		106	70 - 142	2	20
Chlorobenzene	50.0	50.5		ug/Kg		101	70 - 130	4	20
Chloroethane	50.0	49.8		ug/Kg		100	65 - 130	2	20
Chloroform	50.0	51.6		ug/Kg		103	77 - 127	1	20
Chloromethane	50.0	49.9		ug/Kg		100	55 - 140	3	20
2-Chlorotoluene	50.0	49.5		ug/Kg		99	70 - 138	4	20
4-Chlorotoluene	50.0	50.9		ug/Kg		102	70 - 136	4	20
Chlorodibromomethane	50.0	51.9		ug/Kg		104	70 - 146	7	20
1,2-Dichlorobenzene	50.0	51.5		ug/Kg		103	70 - 130	0	20
1,3-Dichlorobenzene	50.0	50.5		ug/Kg		101	70 - 131	3	20
1,4-Dichlorobenzene	50.0	52.1		ug/Kg		104	70 - 130	1	20
1,3-Dichloropropane	50.0	52.8		ug/Kg		106	70 - 140	8	20
1,1-Dichloropropene	50.0	54.3		ug/Kg		109	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	54.7		ug/Kg		109	60 - 145	12	20
Ethylene Dibromide	50.0	54.0		ug/Kg		108	70 - 140	8	20
Dibromomethane	50.0	52.5		ug/Kg		105	70 - 139	6	20
Dichlorodifluoromethane	50.0	44.0		ug/Kg		88	37 - 158	2	20
1,1-Dichloroethane	50.0	51.0		ug/Kg		102	70 - 130	0	20
1,2-Dichloroethane	50.0	50.7		ug/Kg		101	70 - 130	5	20
1,1-Dichloroethene	50.0	47.7		ug/Kg		95	74 - 122	3	20
cis-1,2-Dichloroethene	50.0	51.3		ug/Kg		103	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	51.5		ug/Kg		103	67 - 130	1	20
1,2-Dichloropropane	50.0	52.4		ug/Kg		105	73 - 127	2	20

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: LCSD 720-218943/6
Matrix: Solid
Analysis Batch: 218943

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
cis-1,3-Dichloropropene	50.0	54.4		ug/Kg		109	68 - 147	4	20
trans-1,3-Dichloropropene	50.0	53.1		ug/Kg		106	70 - 155	7	20
Ethylbenzene	50.0	51.1		ug/Kg		102	80 - 137	5	20
Hexachlorobutadiene	50.0	54.7		ug/Kg		109	70 - 132	5	20
2-Hexanone	250	308		ug/Kg		123	62 - 158	15	20
Isopropylbenzene	50.0	52.2		ug/Kg		104	70 - 130	6	20
4-Isopropyltoluene	50.0	51.3		ug/Kg		103	70 - 133	5	20
Methylene Chloride	50.0	51.3		ug/Kg		103	70 - 134	2	20
4-Methyl-2-pentanone (MIBK)	250	309		ug/Kg		123	60 - 160	16	20
Naphthalene	50.0	55.0		ug/Kg		110	60 - 147	7	20
N-Propylbenzene	50.0	51.6		ug/Kg		103	70 - 130	6	20
Styrene	50.0	52.4		ug/Kg		105	70 - 130	3	20
1,1,1,2-Tetrachloroethane	50.0	53.0		ug/Kg		106	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	55.0		ug/Kg		110	70 - 146	8	20
Tetrachloroethene	50.0	54.7		ug/Kg		109	70 - 132	0	20
Toluene	50.0	50.3		ug/Kg		101	75 - 120	5	20
1,2,3-Trichlorobenzene	50.0	54.4		ug/Kg		109	60 - 140	2	20
1,2,4-Trichlorobenzene	50.0	52.7		ug/Kg		105	60 - 140	1	20
1,1,1-Trichloroethane	50.0	52.5		ug/Kg		105	70 - 130	1	20
1,1,2-Trichloroethane	50.0	54.5		ug/Kg		109	70 - 130	8	20
Trichloroethene	50.0	53.2		ug/Kg		106	70 - 133	1	20
Trichlorofluoromethane	50.0	51.2		ug/Kg		102	60 - 140	3	20
1,2,3-Trichloropropane	50.0	54.6		ug/Kg		109	70 - 146	8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.9		ug/Kg		100	60 - 140	3	20
1,2,4-Trimethylbenzene	50.0	51.3		ug/Kg		103	70 - 130	3	20
1,3,5-Trimethylbenzene	50.0	51.4		ug/Kg		103	70 - 131	3	20
Vinyl acetate	50.0	54.9		ug/Kg		110	38 - 176	12	20
Vinyl chloride	50.0	50.2		ug/Kg		100	58 - 125	6	20
m-Xylene & p-Xylene	50.0	50.9		ug/Kg		102	70 - 146	6	20
o-Xylene	50.0	51.7		ug/Kg		103	70 - 140	5	20
2,2-Dichloropropane	50.0	56.1		ug/Kg		112	70 - 162	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	107		45 - 131
1,2-Dichloroethane-d4 (Surr)	102		60 - 140
Toluene-d8 (Surr)	112		58 - 140

Lab Sample ID: MB 720-219016/4
Matrix: Solid
Analysis Batch: 219016

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		250	100	ug/Kg			03/09/17 13:03	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		45 - 131		03/09/17 13:03	1

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: MB 720-219016/4
Matrix: Solid
Analysis Batch: 219016

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		60 - 140		03/09/17 13:03	1
Toluene-d8 (Surr)	106		58 - 140		03/09/17 13:03	1

Lab Sample ID: LCS 720-219016/7
Matrix: Solid
Analysis Batch: 219016

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	912		ug/Kg		91	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	104		45 - 131
1,2-Dichloroethane-d4 (Surr)	97		60 - 140
Toluene-d8 (Surr)	109		58 - 140

Lab Sample ID: LCSD 720-219016/8
Matrix: Solid
Analysis Batch: 219016

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
Gasoline Range Organics (GRO) -C5-C12	1000	909		ug/Kg		91	61 - 128	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	101		45 - 131
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	108		58 - 140

Lab Sample ID: MB 720-219053/5
Matrix: Solid
Analysis Batch: 219053

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0	1.2	ug/Kg			03/09/17 19:01	1
Acetone	ND		50	38	ug/Kg			03/09/17 19:01	1
Benzene	ND		5.0	0.65	ug/Kg			03/09/17 19:01	1
Dichlorobromomethane	ND		5.0	0.72	ug/Kg			03/09/17 19:01	1
Bromobenzene	ND		5.0	0.79	ug/Kg			03/09/17 19:01	1
Chlorobromomethane	ND		20	0.72	ug/Kg			03/09/17 19:01	1
Bromoform	ND		5.0	2.0	ug/Kg			03/09/17 19:01	1
Bromomethane	ND		10	0.79	ug/Kg			03/09/17 19:01	1
2-Butanone (MEK)	ND		50	21	ug/Kg			03/09/17 19:01	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			03/09/17 19:01	1
sec-Butylbenzene	ND		5.0	0.72	ug/Kg			03/09/17 19:01	1
tert-Butylbenzene	ND		5.0	0.73	ug/Kg			03/09/17 19:01	1
Carbon disulfide	ND		5.0	2.0	ug/Kg			03/09/17 19:01	1
Carbon tetrachloride	ND		5.0	0.62	ug/Kg			03/09/17 19:01	1

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
 Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: MB 720-219053/5
Matrix: Solid
Analysis Batch: 219053

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		5.0	0.69	ug/Kg			03/09/17 19:01	1
Chloroethane	ND		10	0.56	ug/Kg			03/09/17 19:01	1
Chloroform	ND		5.0	0.66	ug/Kg			03/09/17 19:01	1
Chloromethane	ND		10	0.72	ug/Kg			03/09/17 19:01	1
2-Chlorotoluene	ND		5.0	0.65	ug/Kg			03/09/17 19:01	1
4-Chlorotoluene	ND		5.0	0.68	ug/Kg			03/09/17 19:01	1
Chlorodibromomethane	ND		5.0	0.71	ug/Kg			03/09/17 19:01	1
1,2-Dichlorobenzene	ND		5.0	0.68	ug/Kg			03/09/17 19:01	1
1,3-Dichlorobenzene	ND		5.0	0.72	ug/Kg			03/09/17 19:01	1
1,4-Dichlorobenzene	ND		5.0	0.71	ug/Kg			03/09/17 19:01	1
1,3-Dichloropropane	ND		5.0	0.73	ug/Kg			03/09/17 19:01	1
1,1-Dichloropropene	ND		5.0	0.69	ug/Kg			03/09/17 19:01	1
1,2-Dibromo-3-Chloropropane	ND		10	1.7	ug/Kg			03/09/17 19:01	1
Ethylene Dibromide	ND		5.0	1.4	ug/Kg			03/09/17 19:01	1
Dibromomethane	ND		10	0.86	ug/Kg			03/09/17 19:01	1
Dichlorodifluoromethane	ND		10	0.79	ug/Kg			03/09/17 19:01	1
1,1-Dichloroethane	ND		5.0	0.68	ug/Kg			03/09/17 19:01	1
1,2-Dichloroethane	ND		5.0	0.76	ug/Kg			03/09/17 19:01	1
1,1-Dichloroethene	ND		5.0	0.62	ug/Kg			03/09/17 19:01	1
cis-1,2-Dichloroethene	ND		5.0	0.68	ug/Kg			03/09/17 19:01	1
trans-1,2-Dichloroethene	ND		5.0	0.75	ug/Kg			03/09/17 19:01	1
1,2-Dichloropropane	ND		5.0	0.63	ug/Kg			03/09/17 19:01	1
cis-1,3-Dichloropropene	ND		5.0	0.69	ug/Kg			03/09/17 19:01	1
trans-1,3-Dichloropropene	ND		5.0	0.67	ug/Kg			03/09/17 19:01	1
Ethylbenzene	ND		5.0	0.75	ug/Kg			03/09/17 19:01	1
Hexachlorobutadiene	ND		5.0	0.90	ug/Kg			03/09/17 19:01	1
2-Hexanone	ND		50	10	ug/Kg			03/09/17 19:01	1
Isopropylbenzene	ND		5.0	0.68	ug/Kg			03/09/17 19:01	1
4-Isopropyltoluene	ND		5.0	2.5	ug/Kg			03/09/17 19:01	1
Methylene Chloride	ND		10	4.0	ug/Kg			03/09/17 19:01	1
4-Methyl-2-pentanone (MIBK)	ND		50	10	ug/Kg			03/09/17 19:01	1
Naphthalene	ND		10	1.5	ug/Kg			03/09/17 19:01	1
N-Propylbenzene	ND		5.0	0.66	ug/Kg			03/09/17 19:01	1
Styrene	ND		5.0	0.63	ug/Kg			03/09/17 19:01	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.76	ug/Kg			03/09/17 19:01	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.75	ug/Kg			03/09/17 19:01	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg			03/09/17 19:01	1
Toluene	ND		5.0	0.71	ug/Kg			03/09/17 19:01	1
1,2,3-Trichlorobenzene	ND		5.0	0.74	ug/Kg			03/09/17 19:01	1
1,2,4-Trichlorobenzene	ND		5.0	0.71	ug/Kg			03/09/17 19:01	1
1,1,1-Trichloroethane	ND		5.0	0.61	ug/Kg			03/09/17 19:01	1
1,1,2-Trichloroethane	ND		5.0	0.70	ug/Kg			03/09/17 19:01	1
Trichloroethene	ND		5.0	0.63	ug/Kg			03/09/17 19:01	1
Trichlorofluoromethane	ND		5.0	0.56	ug/Kg			03/09/17 19:01	1
1,2,3-Trichloropropane	ND		5.0	0.77	ug/Kg			03/09/17 19:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	2.1	ug/Kg			03/09/17 19:01	1
1,2,4-Trimethylbenzene	ND		5.0	1.6	ug/Kg			03/09/17 19:01	1
1,3,5-Trimethylbenzene	ND		5.0	0.65	ug/Kg			03/09/17 19:01	1

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: MB 720-219053/5
Matrix: Solid
Analysis Batch: 219053

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		20	5.0	ug/Kg			03/09/17 19:01	1
Vinyl chloride	ND		5.0	0.73	ug/Kg			03/09/17 19:01	1
Xylenes, Total	ND		10	1.2	ug/Kg			03/09/17 19:01	1
2,2-Dichloropropane	ND		5.0	2.0	ug/Kg			03/09/17 19:01	1
Gasoline Range Organics (GRO) -C5-C12	ND		250	100	ug/Kg			03/09/17 19:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	107		45 - 131		03/09/17 19:01	1
1,2-Dichloroethane-d4 (Surr)	118		60 - 140		03/09/17 19:01	1
Toluene-d8 (Surr)	112		58 - 140		03/09/17 19:01	1

Lab Sample ID: LCS 720-219053/6
Matrix: Solid
Analysis Batch: 219053

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	56.9		ug/Kg		114	70 - 144
Acetone	250	327		ug/Kg		131	30 - 162
Benzene	50.0	55.4		ug/Kg		111	70 - 130
Dichlorobromomethane	50.0	61.7		ug/Kg		123	70 - 140
Bromobenzene	50.0	53.1		ug/Kg		106	70 - 130
Chlorobromomethane	50.0	59.7		ug/Kg		119	70 - 130
Bromoform	50.0	57.5		ug/Kg		115	59 - 158
Bromomethane	50.0	57.0		ug/Kg		114	59 - 132
2-Butanone (MEK)	250	302		ug/Kg		121	59 - 159
n-Butylbenzene	50.0	51.1		ug/Kg		102	70 - 142
sec-Butylbenzene	50.0	49.8		ug/Kg		100	70 - 136
tert-Butylbenzene	50.0	50.8		ug/Kg		102	70 - 130
Carbon disulfide	50.0	47.3		ug/Kg		95	60 - 140
Carbon tetrachloride	50.0	54.7		ug/Kg		109	70 - 142
Chlorobenzene	50.0	53.6		ug/Kg		107	70 - 130
Chloroethane	50.0	57.7		ug/Kg		115	65 - 130
Chloroform	50.0	55.6		ug/Kg		111	77 - 127
Chloromethane	50.0	64.0		ug/Kg		128	55 - 140
2-Chlorotoluene	50.0	50.8		ug/Kg		102	70 - 138
4-Chlorotoluene	50.0	51.9		ug/Kg		104	70 - 136
Chlorodibromomethane	50.0	63.2		ug/Kg		126	70 - 146
1,2-Dichlorobenzene	50.0	53.0		ug/Kg		106	70 - 130
1,3-Dichlorobenzene	50.0	52.3		ug/Kg		105	70 - 131
1,4-Dichlorobenzene	50.0	53.5		ug/Kg		107	70 - 130
1,3-Dichloropropane	50.0	58.2		ug/Kg		116	70 - 140
1,1-Dichloropropene	50.0	55.4		ug/Kg		111	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.9		ug/Kg		100	60 - 145
Ethylene Dibromide	50.0	61.8		ug/Kg		124	70 - 140
Dibromomethane	50.0	59.9		ug/Kg		120	70 - 139
Dichlorodifluoromethane	50.0	66.5		ug/Kg		133	37 - 158
1,1-Dichloroethane	50.0	53.9		ug/Kg		108	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: LCS 720-219053/6
Matrix: Solid
Analysis Batch: 219053

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	58.4		ug/Kg		117	70 - 130
1,1-Dichloroethene	50.0	49.1		ug/Kg		98	74 - 122
cis-1,2-Dichloroethene	50.0	55.4		ug/Kg		111	70 - 138
trans-1,2-Dichloroethene	50.0	53.6		ug/Kg		107	67 - 130
1,2-Dichloropropane	50.0	57.3		ug/Kg		115	73 - 127
cis-1,3-Dichloropropene	50.0	59.8		ug/Kg		120	68 - 147
trans-1,3-Dichloropropene	50.0	60.2		ug/Kg		120	70 - 155
Ethylbenzene	50.0	51.4		ug/Kg		103	80 - 137
Hexachlorobutadiene	50.0	47.0		ug/Kg		94	70 - 132
2-Hexanone	250	311		ug/Kg		124	62 - 158
Isopropylbenzene	50.0	52.8		ug/Kg		106	70 - 130
4-Isopropyltoluene	50.0	50.7		ug/Kg		101	70 - 133
Methylene Chloride	50.0	60.1		ug/Kg		120	70 - 134
4-Methyl-2-pentanone (MIBK)	250	326		ug/Kg		130	60 - 160
Naphthalene	50.0	46.3		ug/Kg		93	60 - 147
N-Propylbenzene	50.0	50.8		ug/Kg		102	70 - 130
Styrene	50.0	56.1		ug/Kg		112	70 - 130
1,1,1,2-Tetrachloroethane	50.0	57.2		ug/Kg		114	70 - 130
1,1,1,2,2-Tetrachloroethane	50.0	50.9		ug/Kg		102	70 - 146
Tetrachloroethene	50.0	56.9		ug/Kg		114	70 - 132
Toluene	50.0	51.8		ug/Kg		104	75 - 120
1,2,3-Trichlorobenzene	50.0	47.2		ug/Kg		94	60 - 140
1,2,4-Trichlorobenzene	50.0	49.3		ug/Kg		99	60 - 140
1,1,1-Trichloroethane	50.0	53.5		ug/Kg		107	70 - 130
1,1,2-Trichloroethane	50.0	61.2		ug/Kg		122	70 - 130
Trichloroethene	50.0	57.3		ug/Kg		115	70 - 133
Trichlorofluoromethane	50.0	60.0		ug/Kg		120	60 - 140
1,2,3-Trichloropropane	50.0	55.0		ug/Kg		110	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.6		ug/Kg		101	60 - 140
1,2,4-Trimethylbenzene	50.0	51.9		ug/Kg		104	70 - 130
1,3,5-Trimethylbenzene	50.0	51.9		ug/Kg		104	70 - 131
Vinyl acetate	50.0	58.8		ug/Kg		118	38 - 176
Vinyl chloride	50.0	59.6		ug/Kg		119	58 - 125
m-Xylene & p-Xylene	50.0	52.2		ug/Kg		104	70 - 146
o-Xylene	50.0	53.1		ug/Kg		106	70 - 140
2,2-Dichloropropane	50.0	52.0		ug/Kg		104	70 - 162

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	109		45 - 131
1,2-Dichloroethane-d4 (Surr)	117		60 - 140
Toluene-d8 (Surr)	113		58 - 140

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: LCS 720-219053/8

Matrix: Solid

Analysis Batch: 219053

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	956		ug/Kg		96	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	110		45 - 131
1,2-Dichloroethane-d4 (Surr)	118		60 - 140
Toluene-d8 (Surr)	113		58 - 140

Lab Sample ID: LCSD 720-219053/7

Matrix: Solid

Analysis Batch: 219053

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
Methyl tert-butyl ether	50.0	52.5		ug/Kg		105	70 - 144	8	20
Acetone	250	269		ug/Kg		107	30 - 162	19	30
Benzene	50.0	55.8		ug/Kg		112	70 - 130	1	20
Dichlorobromomethane	50.0	59.1		ug/Kg		118	70 - 140	4	20
Bromobenzene	50.0	54.0		ug/Kg		108	70 - 130	2	20
Chlorobromomethane	50.0	57.3		ug/Kg		115	70 - 130	4	20
Bromoform	50.0	52.6		ug/Kg		105	59 - 158	9	20
Bromomethane	50.0	55.6		ug/Kg		111	59 - 132	3	20
2-Butanone (MEK)	250	257		ug/Kg		103	59 - 159	16	20
n-Butylbenzene	50.0	53.2		ug/Kg		106	70 - 142	4	20
sec-Butylbenzene	50.0	52.4		ug/Kg		105	70 - 136	5	20
tert-Butylbenzene	50.0	53.4		ug/Kg		107	70 - 130	5	20
Carbon disulfide	50.0	48.1		ug/Kg		96	60 - 140	2	20
Carbon tetrachloride	50.0	55.3		ug/Kg		111	70 - 142	1	20
Chlorobenzene	50.0	53.6		ug/Kg		107	70 - 130	0	20
Chloroethane	50.0	58.0		ug/Kg		116	65 - 130	1	20
Chloroform	50.0	55.8		ug/Kg		112	77 - 127	0	20
Chloromethane	50.0	63.1		ug/Kg		126	55 - 140	1	20
2-Chlorotoluene	50.0	52.7		ug/Kg		105	70 - 138	4	20
4-Chlorotoluene	50.0	53.2		ug/Kg		106	70 - 136	2	20
Chlorodibromomethane	50.0	59.5		ug/Kg		119	70 - 146	6	20
1,2-Dichlorobenzene	50.0	52.8		ug/Kg		106	70 - 130	1	20
1,3-Dichlorobenzene	50.0	52.9		ug/Kg		106	70 - 131	1	20
1,4-Dichlorobenzene	50.0	53.8		ug/Kg		108	70 - 130	1	20
1,3-Dichloropropane	50.0	55.3		ug/Kg		111	70 - 140	5	20
1,1-Dichloropropane	50.0	56.2		ug/Kg		112	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	43.2		ug/Kg		86	60 - 145	14	20
Ethylene Dibromide	50.0	57.4		ug/Kg		115	70 - 140	7	20
Dibromomethane	50.0	56.0		ug/Kg		112	70 - 139	7	20
Dichlorodifluoromethane	50.0	65.7		ug/Kg		131	37 - 158	1	20
1,1-Dichloroethane	50.0	54.2		ug/Kg		108	70 - 130	0	20
1,2-Dichloroethane	50.0	55.7		ug/Kg		111	70 - 130	5	20
1,1-Dichloroethene	50.0	50.0		ug/Kg		100	74 - 122	2	20
cis-1,2-Dichloroethene	50.0	54.8		ug/Kg		110	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	53.9		ug/Kg		108	67 - 130	1	20

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: LCSD 720-219053/7

Matrix: Solid

Analysis Batch: 219053

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
1,2-Dichloropropane	50.0	56.8		ug/Kg		114	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	58.5		ug/Kg		117	68 - 147	2	20
trans-1,3-Dichloropropene	50.0	57.3		ug/Kg		115	70 - 155	5	20
Ethylbenzene	50.0	52.2		ug/Kg		104	80 - 137	2	20
Hexachlorobutadiene	50.0	49.0		ug/Kg		98	70 - 132	4	20
2-Hexanone	250	253		ug/Kg		101	62 - 158	20	20
Isopropylbenzene	50.0	53.7		ug/Kg		107	70 - 130	2	20
4-Isopropyltoluene	50.0	52.9		ug/Kg		106	70 - 133	4	20
Methylene Chloride	50.0	60.0		ug/Kg		120	70 - 134	0	20
4-Methyl-2-pentanone (MIBK)	250	272		ug/Kg		109	60 - 160	18	20
Naphthalene	50.0	42.5		ug/Kg		85	60 - 147	8	20
N-Propylbenzene	50.0	53.5		ug/Kg		107	70 - 130	5	20
Styrene	50.0	56.1		ug/Kg		112	70 - 130	0	20
1,1,1,2-Tetrachloroethane	50.0	56.9		ug/Kg		114	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	47.8		ug/Kg		96	70 - 146	6	20
Tetrachloroethene	50.0	57.4		ug/Kg		115	70 - 132	1	20
Toluene	50.0	52.3		ug/Kg		105	75 - 120	1	20
1,2,3-Trichlorobenzene	50.0	45.5		ug/Kg		91	60 - 140	4	20
1,2,4-Trichlorobenzene	50.0	48.1		ug/Kg		96	60 - 140	2	20
1,1,1-Trichloroethane	50.0	54.6		ug/Kg		109	70 - 130	2	20
1,1,2-Trichloroethane	50.0	57.9		ug/Kg		116	70 - 130	6	20
Trichloroethene	50.0	57.6		ug/Kg		115	70 - 133	1	20
Trichlorofluoromethane	50.0	59.9		ug/Kg		120	60 - 140	0	20
1,2,3-Trichloropropane	50.0	50.7		ug/Kg		101	70 - 146	8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/Kg		102	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	53.8		ug/Kg		108	70 - 130	4	20
1,3,5-Trimethylbenzene	50.0	54.2		ug/Kg		108	70 - 131	4	20
Vinyl acetate	50.0	52.9		ug/Kg		106	38 - 176	11	20
Vinyl chloride	50.0	60.8		ug/Kg		122	58 - 125	2	20
m-Xylene & p-Xylene	50.0	53.1		ug/Kg		106	70 - 146	2	20
o-Xylene	50.0	53.5		ug/Kg		107	70 - 140	1	20
2,2-Dichloropropane	50.0	53.8		ug/Kg		108	70 - 162	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	107		45 - 131
1,2-Dichloroethane-d4 (Surr)	113		60 - 140
Toluene-d8 (Surr)	113		58 - 140

Lab Sample ID: LCSD 720-219053/9

Matrix: Solid

Analysis Batch: 219053

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
Gasoline Range Organics (GRO) -C5-C12	1000	926		ug/Kg		93	61 - 128	3	20

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: LCSD 720-219053/9
Matrix: Solid
Analysis Batch: 219053

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	110		45 - 131
1,2-Dichloroethane-d4 (Surr)	113		60 - 140
Toluene-d8 (Surr)	113		58 - 140

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-218887/4
Matrix: Water
Analysis Batch: 218887

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50	0.069	ug/L			03/07/17 19:11	1
Acetone	ND		50	20	ug/L			03/07/17 19:11	1
Benzene	ND		0.50	0.25	ug/L			03/07/17 19:11	1
Dichlorobromomethane	ND		0.50	0.20	ug/L			03/07/17 19:11	1
Bromobenzene	ND		1.0	0.20	ug/L			03/07/17 19:11	1
Chlorobromomethane	ND		1.0	0.25	ug/L			03/07/17 19:11	1
Bromoform	ND		1.0	0.50	ug/L			03/07/17 19:11	1
Bromomethane	ND		1.0	0.49	ug/L			03/07/17 19:11	1
2-Butanone (MEK)	ND		50	8.4	ug/L			03/07/17 19:11	1
n-Butylbenzene	ND		1.0	0.30	ug/L			03/07/17 19:11	1
sec-Butylbenzene	ND		1.0	0.17	ug/L			03/07/17 19:11	1
tert-Butylbenzene	ND		1.0	0.20	ug/L			03/07/17 19:11	1
Carbon disulfide	ND		5.0	0.78	ug/L			03/07/17 19:11	1
Carbon tetrachloride	ND		0.50	0.11	ug/L			03/07/17 19:11	1
Chlorobenzene	ND		0.50	0.13	ug/L			03/07/17 19:11	1
Chloroethane	ND		1.0	0.17	ug/L			03/07/17 19:11	1
Chloroform	ND		1.0	0.40	ug/L			03/07/17 19:11	1
Chloromethane	ND		1.0	0.19	ug/L			03/07/17 19:11	1
2-Chlorotoluene	ND		0.50	0.20	ug/L			03/07/17 19:11	1
4-Chlorotoluene	ND		0.50	0.20	ug/L			03/07/17 19:11	1
Chlorodibromomethane	ND		0.50	0.10	ug/L			03/07/17 19:11	1
1,2-Dichlorobenzene	ND		0.50	0.21	ug/L			03/07/17 19:11	1
1,3-Dichlorobenzene	ND		0.50	0.20	ug/L			03/07/17 19:11	1
1,4-Dichlorobenzene	ND		0.50	0.16	ug/L			03/07/17 19:11	1
1,3-Dichloropropane	ND		1.0	0.17	ug/L			03/07/17 19:11	1
1,1-Dichloropropene	ND		0.50	0.20	ug/L			03/07/17 19:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.30	ug/L			03/07/17 19:11	1
Ethylene Dibromide	ND		0.50	0.075	ug/L			03/07/17 19:11	1
Dibromomethane	ND		0.50	0.30	ug/L			03/07/17 19:11	1
Dichlorodifluoromethane	ND		0.50	0.10	ug/L			03/07/17 19:11	1
1,1-Dichloroethane	ND		0.50	0.11	ug/L			03/07/17 19:11	1
1,2-Dichloroethane	ND		0.50	0.077	ug/L			03/07/17 19:11	1
1,1-Dichloroethene	ND		0.50	0.20	ug/L			03/07/17 19:11	1
cis-1,2-Dichloroethene	ND		0.50	0.076	ug/L			03/07/17 19:11	1
trans-1,2-Dichloroethene	ND		0.50	0.13	ug/L			03/07/17 19:11	1
1,2-Dichloropropane	ND		0.50	0.20	ug/L			03/07/17 19:11	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			03/07/17 19:11	1

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-218887/4
Matrix: Water
Analysis Batch: 218887

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.50	0.17	ug/L			03/07/17 19:11	1
Ethylbenzene	ND		0.50	0.13	ug/L			03/07/17 19:11	1
Hexachlorobutadiene	ND		1.0	0.27	ug/L			03/07/17 19:11	1
2-Hexanone	ND		50	3.0	ug/L			03/07/17 19:11	1
Isopropylbenzene	ND		0.50	0.20	ug/L			03/07/17 19:11	1
4-Isopropyltoluene	ND		1.0	0.20	ug/L			03/07/17 19:11	1
Methylene Chloride	ND		5.0	1.5	ug/L			03/07/17 19:11	1
4-Methyl-2-pentanone (MIBK)	ND		50	4.5	ug/L			03/07/17 19:11	1
Naphthalene	ND		1.0	0.22	ug/L			03/07/17 19:11	1
N-Propylbenzene	ND		1.0	0.20	ug/L			03/07/17 19:11	1
Styrene	ND		0.50	0.075	ug/L			03/07/17 19:11	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.067	ug/L			03/07/17 19:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.074	ug/L			03/07/17 19:11	1
Tetrachloroethene	ND		0.50	0.20	ug/L			03/07/17 19:11	1
Toluene	ND		0.50	0.17	ug/L			03/07/17 19:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.21	ug/L			03/07/17 19:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.13	ug/L			03/07/17 19:11	1
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/07/17 19:11	1
1,1,2-Trichloroethane	ND		0.50	0.11	ug/L			03/07/17 19:11	1
Trichloroethene	ND		0.50	0.20	ug/L			03/07/17 19:11	1
Trichlorofluoromethane	ND		1.0	0.30	ug/L			03/07/17 19:11	1
1,2,3-Trichloropropane	ND		0.50	0.087	ug/L			03/07/17 19:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.091	ug/L			03/07/17 19:11	1
1,2,4-Trimethylbenzene	ND		0.50	0.20	ug/L			03/07/17 19:11	1
1,3,5-Trimethylbenzene	ND		0.50	0.17	ug/L			03/07/17 19:11	1
Vinyl acetate	ND		10	0.60	ug/L			03/07/17 19:11	1
Vinyl chloride	ND		0.50	0.20	ug/L			03/07/17 19:11	1
Xylenes, Total	ND		1.0	0.40	ug/L			03/07/17 19:11	1
2,2-Dichloropropane	ND		0.50	0.17	ug/L			03/07/17 19:11	1
Gasoline Range Organics (GRO) -C5-C12	ND		50	21	ug/L			03/07/17 19:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	110		67 - 130		03/07/17 19:11	1
1,2-Dichloroethane-d4 (Surr)	112		72 - 130		03/07/17 19:11	1
Toluene-d8 (Surr)	111		70 - 130		03/07/17 19:11	1

Lab Sample ID: LCS 720-218887/5
Matrix: Water
Analysis Batch: 218887

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	27.4		ug/L		109	62 - 130
Acetone	125	156		ug/L		125	26 - 180
Benzene	25.0	28.1		ug/L		112	79 - 130
Dichlorobromomethane	25.0	29.6		ug/L		119	70 - 130
Bromobenzene	25.0	26.6		ug/L		106	70 - 130
Chlorobromomethane	25.0	28.1		ug/L		112	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-218887/5

Matrix: Water

Analysis Batch: 218887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	25.0	28.3		ug/L		113	68 - 136
Bromomethane	25.0	26.2		ug/L		105	43 - 151
2-Butanone (MEK)	125	144		ug/L		115	54 - 153
n-Butylbenzene	25.0	27.1		ug/L		108	70 - 142
sec-Butylbenzene	25.0	26.1		ug/L		104	70 - 134
tert-Butylbenzene	25.0	26.3		ug/L		105	70 - 135
Carbon disulfide	25.0	25.7		ug/L		103	68 - 146
Carbon tetrachloride	25.0	27.6		ug/L		110	70 - 146
Chlorobenzene	25.0	27.1		ug/L		108	70 - 130
Chloroethane	25.0	28.0		ug/L		112	62 - 138
Chloroform	25.0	27.8		ug/L		111	70 - 130
Chloromethane	25.0	26.7		ug/L		107	52 - 175
2-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130
4-Chlorotoluene	25.0	26.7		ug/L		107	70 - 130
Chlorodibromomethane	25.0	29.4		ug/L		118	70 - 145
1,2-Dichlorobenzene	25.0	26.9		ug/L		108	70 - 130
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,4-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130
1,3-Dichloropropane	25.0	28.4		ug/L		114	70 - 130
1,1-Dichloropropane	25.0	28.7		ug/L		115	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	27.6		ug/L		110	70 - 136
Ethylene Dibromide	25.0	29.1		ug/L		116	70 - 130
Dibromomethane	25.0	28.4		ug/L		114	70 - 130
Dichlorodifluoromethane	25.0	22.4		ug/L		89	32 - 158
1,1-Dichloroethane	25.0	27.4		ug/L		110	70 - 130
1,2-Dichloroethane	25.0	28.0		ug/L		112	61 - 132
1,1-Dichloroethene	25.0	25.5		ug/L		102	64 - 128
cis-1,2-Dichloroethene	25.0	27.6		ug/L		110	70 - 130
trans-1,2-Dichloroethene	25.0	27.2		ug/L		109	68 - 130
1,2-Dichloropropane	25.0	28.6		ug/L		114	70 - 130
cis-1,3-Dichloropropane	25.0	29.5		ug/L		118	70 - 130
trans-1,3-Dichloropropane	25.0	29.2		ug/L		117	70 - 140
Ethylbenzene	25.0	27.1		ug/L		108	80 - 120
Hexachlorobutadiene	25.0	26.7		ug/L		107	70 - 130
2-Hexanone	125	146		ug/L		117	60 - 164
Isopropylbenzene	25.0	27.3		ug/L		109	70 - 130
4-Isopropyltoluene	25.0	26.2		ug/L		105	70 - 130
Methylene Chloride	25.0	28.1		ug/L		112	70 - 147
4-Methyl-2-pentanone (MIBK)	125	152		ug/L		121	50 - 155
Naphthalene	25.0	27.9		ug/L		111	50 - 130
N-Propylbenzene	25.0	26.7		ug/L		107	70 - 130
Styrene	25.0	28.5		ug/L		114	70 - 130
1,1,1,2-Tetrachloroethane	25.0	28.4		ug/L		114	70 - 130
1,1,2,2-Tetrachloroethane	25.0	27.1		ug/L		108	70 - 130
Tetrachloroethene	25.0	28.2		ug/L		113	70 - 130
Toluene	25.0	26.9		ug/L		108	78 - 120
1,2,3-Trichlorobenzene	25.0	28.4		ug/L		114	70 - 130
1,2,4-Trichlorobenzene	25.0	27.7		ug/L		111	70 - 130

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-218887/5
Matrix: Water
Analysis Batch: 218887

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.6		ug/L		110	70 - 130
1,1,2-Trichloroethane	25.0	29.6		ug/L		118	70 - 130
Trichloroethene	25.0	27.8		ug/L		111	70 - 130
Trichlorofluoromethane	25.0	28.5		ug/L		114	66 - 132
1,2,3-Trichloropropane	25.0	27.2		ug/L		109	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.7		ug/L		103	42 - 162
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 132
1,3,5-Trimethylbenzene	25.0	26.9		ug/L		108	70 - 130
Vinyl acetate	25.0	27.4		ug/L		110	43 - 163
Vinyl chloride	25.0	26.8		ug/L		107	54 - 135
m-Xylene & p-Xylene	25.0	27.4		ug/L		110	70 - 142
o-Xylene	25.0	27.4		ug/L		110	70 - 130
2,2-Dichloropropane	25.0	27.6		ug/L		110	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	109		67 - 130
1,2-Dichloroethane-d4 (Surr)	109		72 - 130
Toluene-d8 (Surr)	112		70 - 130

Lab Sample ID: LCS 720-218887/7
Matrix: Water
Analysis Batch: 218887

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	458		ug/L		92	71 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	110		67 - 130
1,2-Dichloroethane-d4 (Surr)	111		72 - 130
Toluene-d8 (Surr)	111		70 - 130

Lab Sample ID: LCSD 720-218887/6
Matrix: Water
Analysis Batch: 218887

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
Methyl tert-butyl ether	25.0	26.5		ug/L		106	62 - 130	3	20
Acetone	125	142		ug/L		113	26 - 180	10	30
Benzene	25.0	28.2		ug/L		113	79 - 130	0	20
Dichlorobromomethane	25.0	29.6		ug/L		118	70 - 130	0	20
Bromobenzene	25.0	26.9		ug/L		108	70 - 130	1	20
Chlorobromomethane	25.0	27.7		ug/L		111	70 - 130	1	20
Bromoform	25.0	27.2		ug/L		109	68 - 136	4	20
Bromomethane	25.0	25.9		ug/L		104	43 - 151	1	20
2-Butanone (MEK)	125	134		ug/L		107	54 - 153	7	20
n-Butylbenzene	25.0	27.5		ug/L		110	70 - 142	2	20

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-218887/6

Matrix: Water

Analysis Batch: 218887

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
sec-Butylbenzene	25.0	26.9		ug/L		108	70 - 134	3	20
tert-Butylbenzene	25.0	27.3		ug/L		109	70 - 135	4	20
Carbon disulfide	25.0	25.7		ug/L		103	68 - 146	0	20
Carbon tetrachloride	25.0	28.0		ug/L		112	70 - 146	2	20
Chlorobenzene	25.0	27.2		ug/L		109	70 - 130	0	20
Chloroethane	25.0	27.8		ug/L		111	62 - 138	1	20
Chloroform	25.0	27.7		ug/L		111	70 - 130	0	20
Chloromethane	25.0	26.5		ug/L		106	52 - 175	1	20
2-Chlorotoluene	25.0	26.9		ug/L		107	70 - 130	2	20
4-Chlorotoluene	25.0	27.2		ug/L		109	70 - 130	2	20
Chlorodibromomethane	25.0	28.6		ug/L		115	70 - 145	3	20
1,2-Dichlorobenzene	25.0	26.9		ug/L		107	70 - 130	0	20
1,3-Dichlorobenzene	25.0	26.6		ug/L		106	70 - 130	1	20
1,4-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130	0	20
1,3-Dichloropropane	25.0	27.5		ug/L		110	70 - 130	3	20
1,1-Dichloropropane	25.0	29.1		ug/L		116	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	26.5		ug/L		106	70 - 136	4	20
Ethylene Dibromide	25.0	28.1		ug/L		112	70 - 130	4	20
Dibromomethane	25.0	27.8		ug/L		111	70 - 130	2	20
Dichlorodifluoromethane	25.0	22.3		ug/L		89	32 - 158	0	20
1,1-Dichloroethane	25.0	27.7		ug/L		111	70 - 130	1	20
1,2-Dichloroethane	25.0	27.3		ug/L		109	61 - 132	3	20
1,1-Dichloroethene	25.0	25.8		ug/L		103	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	27.6		ug/L		111	70 - 130	0	20
trans-1,2-Dichloroethene	25.0	27.3		ug/L		109	68 - 130	0	20
1,2-Dichloropropane	25.0	28.4		ug/L		114	70 - 130	0	20
cis-1,3-Dichloropropene	25.0	29.1		ug/L		116	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	28.5		ug/L		114	70 - 140	3	20
Ethylbenzene	25.0	27.3		ug/L		109	80 - 120	1	20
Hexachlorobutadiene	25.0	27.0		ug/L		108	70 - 130	1	20
2-Hexanone	125	134		ug/L		107	60 - 164	9	20
Isopropylbenzene	25.0	27.7		ug/L		111	70 - 130	1	20
4-Isopropyltoluene	25.0	26.9		ug/L		108	70 - 130	3	20
Methylene Chloride	25.0	27.6		ug/L		110	70 - 147	2	20
4-Methyl-2-pentanone (MIBK)	125	143		ug/L		114	50 - 155	6	20
Naphthalene	25.0	27.4		ug/L		110	50 - 130	2	20
N-Propylbenzene	25.0	27.5		ug/L		110	70 - 130	3	20
Styrene	25.0	28.3		ug/L		113	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	28.4		ug/L		114	70 - 130	0	20
1,1,2,2-Tetrachloroethane	25.0	26.6		ug/L		106	70 - 130	2	20
Tetrachloroethene	25.0	28.2		ug/L		113	70 - 130	0	20
Toluene	25.0	27.4		ug/L		109	78 - 120	2	20
1,2,3-Trichlorobenzene	25.0	28.3		ug/L		113	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	27.1		ug/L		108	70 - 130	2	20
1,1,1-Trichloroethane	25.0	27.8		ug/L		111	70 - 130	1	20
1,1,2-Trichloroethane	25.0	28.8		ug/L		115	70 - 130	3	20
Trichloroethene	25.0	27.9		ug/L		112	70 - 130	0	20
Trichlorofluoromethane	25.0	28.7		ug/L		115	66 - 132	0	20

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-218887/6
Matrix: Water
Analysis Batch: 218887

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
1,2,3-Trichloropropane	25.0	26.7		ug/L		107	70 - 130	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.8		ug/L		103	42 - 162	0	20
1,2,4-Trimethylbenzene	25.0	27.2		ug/L		109	70 - 132	2	20
1,3,5-Trimethylbenzene	25.0	27.6		ug/L		110	70 - 130	2	20
Vinyl acetate	25.0	26.6		ug/L		106	43 - 163	3	20
Vinyl chloride	25.0	27.2		ug/L		109	54 - 135	2	20
m-Xylene & p-Xylene	25.0	27.6		ug/L		110	70 - 142	1	20
o-Xylene	25.0	27.5		ug/L		110	70 - 130	0	20
2,2-Dichloropropane	25.0	28.0		ug/L		112	70 - 140	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	108		67 - 130
1,2-Dichloroethane-d4 (Surr)	109		72 - 130
Toluene-d8 (Surr)	112		70 - 130

Lab Sample ID: LCSD 720-218887/8
Matrix: Water
Analysis Batch: 218887

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
Gasoline Range Organics (GRO) -C5-C12	500	462		ug/L		92	71 - 125	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene	110		67 - 130
1,2-Dichloroethane-d4 (Surr)	112		72 - 130
Toluene-d8 (Surr)	112		70 - 130

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-218806/1-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	1.4	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Acenaphthylene	ND		5.0	1.2	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Anthracene	ND		5.0	0.98	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Benzo[a]anthracene	ND		5.0	0.74	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Benzo[a]pyrene	ND		5.0	0.93	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Chrysene	ND		5.0	0.71	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Benzo[b]fluoranthene	ND		5.0	1.1	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Benzo[k]fluoranthene	ND		5.0	1.0	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Benzo[g,h,i]perylene	ND		5.0	2.1	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Fluorene	ND		5.0	1.1	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Indeno[1,2,3-cd]pyrene	ND		5.0	2.1	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Fluoranthene	ND		5.0	0.71	ug/Kg		03/06/17 13:41	03/07/17 01:22	1

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: MB 720-218806/1-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218806

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		5.0	1.8	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Phenanthrene	ND		5.0	0.92	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Pyrene	ND		5.0	0.83	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Dibenz(a,h)anthracene	ND		5.0	1.8	ug/Kg		03/06/17 13:41	03/07/17 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	93		33 - 120				03/06/17 13:41	03/07/17 01:22	1
Terphenyl-d14	100		35 - 146				03/06/17 13:41	03/07/17 01:22	1

Lab Sample ID: LCS 720-218806/2-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	333	263		ug/Kg		79	46 - 120
Anthracene	333	276		ug/Kg		83	55 - 120
Benzo[a]anthracene	333	277		ug/Kg		83	65 - 120
Benzo[a]pyrene	333	299		ug/Kg		90	62 - 120
Chrysene	333	271		ug/Kg		81	54 - 120
Benzo[b]fluoranthene	333	274		ug/Kg		82	60 - 120
Benzo[k]fluoranthene	333	316		ug/Kg		95	63 - 120
Benzo[g,h,i]perylene	333	300		ug/Kg		90	42 - 120
Fluorene	333	279		ug/Kg		84	47 - 120
Indeno[1,2,3-cd]pyrene	333	302		ug/Kg		91	50 - 120
Fluoranthene	333	289		ug/Kg		87	59 - 120
Naphthalene	333	237		ug/Kg		71	42 - 120
Phenanthrene	333	252		ug/Kg		75	51 - 120
Pyrene	333	272		ug/Kg		82	58 - 120
Dibenz(a,h)anthracene	333	298		ug/Kg		89	51 - 120
Surrogate	%Recovery	Qualifier	Limits				
2-Fluorobiphenyl	88		33 - 120				
Terphenyl-d14	92		35 - 146				

Lab Sample ID: 720-78016-4 MS
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: HA02-SO-0.5
Prep Type: Total/NA
Prep Batch: 218806

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Acenaphthene	190		332	413		ug/Kg		68	33 - 120
Acenaphthylene	ND		332	337		ug/Kg		99	28 - 120
Anthracene	430	F1 F2	332	468	F1	ug/Kg		11	36 - 120
Benzo[a]anthracene	480	F1 F2	332	545	F1	ug/Kg		19	29 - 120
Benzo[a]pyrene	510	F1 F2	332	576	F1	ug/Kg		21	24 - 120
Chrysene	530	F1 F2	332	550	F1	ug/Kg		6	29 - 120
Benzo[b]fluoranthene	560	F2	332	669		ug/Kg		32	17 - 132
Benzo[k]fluoranthene	250	F2	332	387		ug/Kg		41	35 - 120

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: 720-78016-4 MS

Matrix: Solid

Analysis Batch: 218840

Client Sample ID: HA02-SO-0.5

Prep Type: Total/NA

Prep Batch: 218806

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Benzo[g,h,i]perylene	200	F2	332	397		ug/Kg		59		21 - 120
Fluorene	170		332	388		ug/Kg		67		35 - 120
Indeno[1,2,3-cd]pyrene	220	F2	332	439		ug/Kg		65		20 - 126
Fluoranthene	1300	F1 F2	332	888	F1	ug/Kg		-115		24 - 120
Naphthalene	54		332	314		ug/Kg		78		32 - 120
Phenanthrene	1400	F2	332	770	4	ug/Kg		-175		28 - 120
Pyrene	1100	F1 F2	332	782	F1	ug/Kg		-93		24 - 123
Dibenz(a,h)anthracene	79		332	357		ug/Kg		84		36 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	102		33 - 120
Terphenyl-d14	95		35 - 146

Lab Sample ID: 720-78016-4 MSD

Matrix: Solid

Analysis Batch: 218840

Client Sample ID: HA02-SO-0.5

Prep Type: Total/NA

Prep Batch: 218806

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Acenaphthene	190		331	484		ug/Kg		90		33 - 120	16	20
Acenaphthylene	ND		331	323		ug/Kg		95		28 - 120	4	20
Anthracene	430	F1 F2	331	783	F2	ug/Kg		106		36 - 120	50	20
Benzo[a]anthracene	480	F1 F2	331	959	F1 F2	ug/Kg		144		29 - 120	55	20
Benzo[a]pyrene	510	F1 F2	331	886	F2	ug/Kg		115		24 - 120	42	20
Chrysene	530	F1 F2	331	900	F2	ug/Kg		112		29 - 120	48	20
Benzo[b]fluoranthene	560	F2	331	939	F2	ug/Kg		114		17 - 132	34	20
Benzo[k]fluoranthene	250	F2	331	611	F2	ug/Kg		109		35 - 120	45	20
Benzo[g,h,i]perylene	200	F2	331	490	F2	ug/Kg		87		21 - 120	21	20
Fluorene	170		331	458		ug/Kg		88		35 - 120	16	20
Indeno[1,2,3-cd]pyrene	220	F2	331	557	F2	ug/Kg		100		20 - 126	24	20
Fluoranthene	1300	F1 F2	331	1840	F1 F2	ug/Kg		172		24 - 120	70	20
Naphthalene	54		331	323		ug/Kg		81		32 - 120	3	20
Phenanthrene	1400	F2	331	1640	4 F2	ug/Kg		88		28 - 120	72	20
Pyrene	1100	F1 F2	331	1570	F1 F2	ug/Kg		145		24 - 123	67	20
Dibenz(a,h)anthracene	79		331	406		ug/Kg		99		36 - 120	13	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	102		33 - 120
Terphenyl-d14	88		35 - 146

Lab Sample ID: MB 720-218855/1-A

Matrix: Water

Analysis Batch: 218898

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 218855

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		0.10	0.035	ug/L		03/07/17 10:03	03/07/17 20:59	1
Acenaphthylene	ND		0.10	0.035	ug/L		03/07/17 10:03	03/07/17 20:59	1
Anthracene	ND		0.10	0.029	ug/L		03/07/17 10:03	03/07/17 20:59	1
Benzo[a]anthracene	ND		0.10	0.027	ug/L		03/07/17 10:03	03/07/17 20:59	1

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: MB 720-218855/1-A
Matrix: Water
Analysis Batch: 218898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218855

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[a]pyrene	ND		0.10	0.023	ug/L		03/07/17 10:03	03/07/17 20:59	1
Chrysene	ND		0.10	0.031	ug/L		03/07/17 10:03	03/07/17 20:59	1
Benzo[b]fluoranthene	ND		0.10	0.030	ug/L		03/07/17 10:03	03/07/17 20:59	1
Benzo[k]fluoranthene	ND		0.10	0.034	ug/L		03/07/17 10:03	03/07/17 20:59	1
Benzo[g,h,i]perylene	ND		0.10	0.022	ug/L		03/07/17 10:03	03/07/17 20:59	1
Fluorene	ND		0.10	0.031	ug/L		03/07/17 10:03	03/07/17 20:59	1
Indeno[1,2,3-cd]pyrene	ND		0.10	0.027	ug/L		03/07/17 10:03	03/07/17 20:59	1
Fluoranthene	ND		0.10	0.030	ug/L		03/07/17 10:03	03/07/17 20:59	1
Naphthalene	ND		0.10	0.030	ug/L		03/07/17 10:03	03/07/17 20:59	1
Phenanthrene	ND		0.10	0.030	ug/L		03/07/17 10:03	03/07/17 20:59	1
Pyrene	ND		0.10	0.035	ug/L		03/07/17 10:03	03/07/17 20:59	1
Dibenz(a,h)anthracene	ND		0.10	0.026	ug/L		03/07/17 10:03	03/07/17 20:59	1
Surrogate	MB	MB	Limits			D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
2-Fluorobiphenyl	84		29 - 120				03/07/17 10:03	03/07/17 20:59	1
Terphenyl-d14	98		45 - 120				03/07/17 10:03	03/07/17 20:59	1

Lab Sample ID: LCS 720-218855/2-A
Matrix: Water
Analysis Batch: 218898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits			
								%Rec.	Limits	
Acenaphthene	10.0	7.17		ug/L		72	24 - 120			
Acenaphthylene	10.0	7.01		ug/L		70	24 - 120			
Anthracene	10.0	7.78		ug/L		78	44 - 120			
Benzo[a]anthracene	10.0	7.67		ug/L		77	48 - 120			
Benzo[a]pyrene	10.0	6.93		ug/L		69	43 - 120			
Chrysene	10.0	7.52		ug/L		75	47 - 120			
Benzo[b]fluoranthene	10.0	7.76		ug/L		78	42 - 120			
Benzo[k]fluoranthene	10.0	6.12		ug/L		61	42 - 120			
Benzo[g,h,i]perylene	10.0	5.92		ug/L		59	35 - 120			
Fluorene	10.0	7.20		ug/L		72	27 - 120			
Indeno[1,2,3-cd]pyrene	10.0	6.15		ug/L		62	36 - 120			
Fluoranthene	10.0	8.16		ug/L		82	43 - 120			
Naphthalene	10.0	6.01		ug/L		60	19 - 120			
Phenanthrene	10.0	6.90		ug/L		69	31 - 120			
Pyrene	10.0	8.18		ug/L		82	47 - 120			
Dibenz(a,h)anthracene	10.0	5.92		ug/L		59	33 - 120			
Surrogate	LCS	LCS	Limits			D	%Rec	Limits		
	%Recovery	Qualifier								
2-Fluorobiphenyl	54		29 - 120							
Terphenyl-d14	80		45 - 120							

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-218855/3-A
Matrix: Water
Analysis Batch: 218898

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218855

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthene	10.0	7.59		ug/L		76	24 - 120	6	35
Acenaphthylene	10.0	7.31		ug/L		73	24 - 120	4	35
Anthracene	10.0	7.99		ug/L		80	44 - 120	3	35
Benzo[a]anthracene	10.0	7.73		ug/L		77	48 - 120	1	35
Benzo[a]pyrene	10.0	7.72		ug/L		77	43 - 120	11	35
Chrysene	10.0	8.13		ug/L		81	47 - 120	8	35
Benzo[b]fluoranthene	10.0	7.89		ug/L		79	42 - 120	2	35
Benzo[k]fluoranthene	10.0	7.40		ug/L		74	42 - 120	19	35
Benzo[g,h,i]perylene	10.0	6.73		ug/L		67	35 - 120	13	35
Fluorene	10.0	7.55		ug/L		75	27 - 120	5	35
Indeno[1,2,3-cd]pyrene	10.0	6.97		ug/L		70	36 - 120	13	35
Fluoranthene	10.0	8.45		ug/L		84	43 - 120	3	35
Naphthalene	10.0	6.32		ug/L		63	19 - 120	5	35
Phenanthrene	10.0	7.19		ug/L		72	31 - 120	4	35
Pyrene	10.0	8.17		ug/L		82	47 - 120	0	35
Dibenz(a,h)anthracene	10.0	6.76		ug/L		68	33 - 120	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	69		29 - 120
Terphenyl-d14	86		45 - 120

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-218764/1-A
Matrix: Water
Analysis Batch: 218774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50	22	ug/L		03/04/17 07:52	03/06/17 17:08	1
Motor Oil Range Organics [C24-C36]	ND		99	42	ug/L		03/04/17 07:52	03/06/17 17:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	94		23 - 156	03/04/17 07:52	03/06/17 17:08	1

Lab Sample ID: LCS 720-218764/2-A
Matrix: Water
Analysis Batch: 218774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics [C10-C28]	2500	2160		ug/L		86	34 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	107		23 - 156

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-218764/3-A
Matrix: Water
Analysis Batch: 218774

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218764

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	2030		ug/L		81	34 - 115	6	35
Surrogate		%Recovery	Qualifier	Limits					
<i>p-Terphenyl</i>		107		23 - 156					

Lab Sample ID: MB 720-218792/1-A
Matrix: Solid
Analysis Batch: 218774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218792

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.34	mg/Kg		03/06/17 10:26	03/06/17 13:14	1
Motor Oil Range Organics [C24-C36]	ND		50	0.58	mg/Kg		03/06/17 10:26	03/06/17 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>p-Terphenyl</i>	118		40 - 130				03/06/17 10:26	03/06/17 13:14	1

Lab Sample ID: LCS 720-218792/2-A
Matrix: Solid
Analysis Batch: 218774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.3	90.7		mg/Kg		109	50 - 150
Surrogate		%Recovery	Qualifier	Limits			
<i>p-Terphenyl</i>		108		40 - 130			

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

Lab Sample ID: MB 720-218810/1-A
Matrix: Solid
Analysis Batch: 218776

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218810

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50	1.8	ug/Kg		03/06/17 13:49	03/07/17 00:49	1
PCB-1221	ND		50	1.8	ug/Kg		03/06/17 13:49	03/07/17 00:49	1
PCB-1232	ND		50	1.8	ug/Kg		03/06/17 13:49	03/07/17 00:49	1
PCB-1242	ND		50	1.8	ug/Kg		03/06/17 13:49	03/07/17 00:49	1
PCB-1248	ND		50	1.8	ug/Kg		03/06/17 13:49	03/07/17 00:49	1
PCB-1254	ND		50	1.8	ug/Kg		03/06/17 13:49	03/07/17 00:49	1
PCB-1260	ND		50	5.3	ug/Kg		03/06/17 13:49	03/07/17 00:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	74		45 - 132				03/06/17 13:49	03/07/17 00:49	1
<i>DCB Decachlorobiphenyl</i>	85		42 - 146				03/06/17 13:49	03/07/17 00:49	1

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QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: LCS 720-218810/2-A
Matrix: Solid
Analysis Batch: 218776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218810

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
PCB-1016	133	105		ug/Kg		79	65 - 121
PCB-1260	133	104		ug/Kg		78	68 - 127
Surrogate	LCS		Limits				
	%Recovery	Qualifier					
Tetrachloro-m-xylene	74		45 - 132				
DCB Decachlorobiphenyl	83		42 - 146				

Lab Sample ID: 720-78016-4 MS
Matrix: Solid
Analysis Batch: 218776

Client Sample ID: HA02-SO-0.5
Prep Type: Total/NA
Prep Batch: 218810

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	Limits
				Result	Qualifier				
PCB-1016	ND		131	118		ug/Kg		90	69 - 120
PCB-1260	ND		131	119		ug/Kg		91	73 - 114
Surrogate	MS		Limits						
	%Recovery	Qualifier							
Tetrachloro-m-xylene	83		45 - 132						
DCB Decachlorobiphenyl	95		42 - 146						

Lab Sample ID: 720-78016-4 MSD
Matrix: Solid
Analysis Batch: 218776

Client Sample ID: HA02-SO-0.5
Prep Type: Total/NA
Prep Batch: 218810

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
PCB-1016	ND		133	118		ug/Kg		89	69 - 120	1	20
PCB-1260	ND		133	113		ug/Kg		85	73 - 114	6	20
Surrogate	MSD		Limits								
	%Recovery	Qualifier									
Tetrachloro-m-xylene	87		45 - 132								
DCB Decachlorobiphenyl	91		42 - 146								

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-218793/1-A
Matrix: Solid
Analysis Batch: 218845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218793

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	ND		0.50	0.083	mg/Kg		03/06/17 12:12	03/07/17 01:06	1
Arsenic	ND		1.0	0.085	mg/Kg		03/06/17 12:12	03/07/17 01:06	1
Barium	ND		0.50	0.071	mg/Kg		03/06/17 12:12	03/07/17 01:06	1
Beryllium	ND		0.10	0.033	mg/Kg		03/06/17 12:12	03/07/17 01:06	1
Cadmium	ND		0.13	0.012	mg/Kg		03/06/17 12:12	03/07/17 01:06	1
Chromium	ND		0.50	0.053	mg/Kg		03/06/17 12:12	03/07/17 01:06	1
Cobalt	ND		0.20	0.020	mg/Kg		03/06/17 12:12	03/07/17 01:06	1
Copper	ND		1.5	0.71	mg/Kg		03/06/17 12:12	03/07/17 01:06	1
Lead	ND		0.50	0.11	mg/Kg		03/06/17 12:12	03/07/17 01:06	1

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QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: MB 720-218793/1-A
Matrix: Solid
Analysis Batch: 218845

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218793

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		0.50	0.064	mg/Kg		03/06/17 12:12	03/07/17 01:06	1
Nickel	ND		0.50	0.051	mg/Kg		03/06/17 12:12	03/07/17 01:06	1
Selenium	ND		1.0	0.15	mg/Kg		03/06/17 12:12	03/07/17 01:06	1
Silver	ND		0.25	0.051	mg/Kg		03/06/17 12:12	03/07/17 01:06	1
Thallium	ND		0.50	0.15	mg/Kg		03/06/17 12:12	03/07/17 01:06	1
Vanadium	ND		0.50	0.068	mg/Kg		03/06/17 12:12	03/07/17 01:06	1
Zinc	ND		1.5	0.64	mg/Kg		03/06/17 12:12	03/07/17 01:06	1

Lab Sample ID: LCS 720-218793/2-A
Matrix: Solid
Analysis Batch: 218845

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218793

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	44.9		mg/Kg		90	80 - 120
Arsenic	50.0	47.3		mg/Kg		95	80 - 120
Barium	50.0	48.9		mg/Kg		98	80 - 120
Beryllium	50.0	45.0		mg/Kg		90	80 - 120
Cadmium	50.0	45.8		mg/Kg		92	80 - 120
Chromium	50.0	46.7		mg/Kg		93	80 - 120
Cobalt	50.0	50.8		mg/Kg		102	80 - 120
Copper	50.0	46.7		mg/Kg		93	80 - 120
Lead	50.0	48.7		mg/Kg		97	80 - 120
Molybdenum	50.0	48.9		mg/Kg		98	80 - 120
Nickel	50.0	46.2		mg/Kg		92	80 - 120
Selenium	50.0	46.7		mg/Kg		93	80 - 120
Silver	25.0	23.2		mg/Kg		93	80 - 120
Thallium	50.0	49.0		mg/Kg		98	80 - 120
Vanadium	50.0	52.7		mg/Kg		105	80 - 120
Zinc	50.0	50.5		mg/Kg		101	80 - 120

Lab Sample ID: 720-78016-1 MS
Matrix: Solid
Analysis Batch: 218845

Client Sample ID: HA01-SO-0.5
Prep Type: Total/NA
Prep Batch: 218793

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	ND	F1	33.6	8.83	F1	mg/Kg		24	75 - 125
Arsenic	4.3		33.6	35.6		mg/Kg		93	75 - 125
Barium	130	F1	33.6	197	F1	mg/Kg		188	75 - 125
Beryllium	ND		33.6	30.0		mg/Kg		89	75 - 125
Cadmium	0.42		33.6	29.8		mg/Kg		88	75 - 125
Chromium	35		33.6	64.5		mg/Kg		87	75 - 125
Cobalt	9.2		33.6	41.1		mg/Kg		95	75 - 125
Copper	27		33.6	60.2		mg/Kg		98	75 - 125
Lead	48	F1	33.6	67.9	F1	mg/Kg		60	75 - 125
Molybdenum	ND		33.6	29.0		mg/Kg		85	75 - 125
Nickel	46		33.6	71.7		mg/Kg		77	75 - 125
Selenium	ND		33.6	30.6		mg/Kg		91	75 - 125
Silver	ND		16.8	15.8		mg/Kg		94	75 - 125
Thallium	ND		33.6	30.0		mg/Kg		88	75 - 125

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: 720-78016-1 MS
Matrix: Solid
Analysis Batch: 218845

Client Sample ID: HA01-SO-0.5
Prep Type: Total/NA
Prep Batch: 218793
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Vanadium	38		33.6	79.6		mg/Kg		124	75 - 125
Zinc	98		33.6	127		mg/Kg		88	75 - 125

Lab Sample ID: 720-78016-1 MSD
Matrix: Solid
Analysis Batch: 218845

Client Sample ID: HA01-SO-0.5
Prep Type: Total/NA
Prep Batch: 218793
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	ND	F1	36.8	9.50	F1	mg/Kg		24	75 - 125	7	20
Arsenic	4.3		36.8	39.3		mg/Kg		95	75 - 125	10	20
Barium	130	F1	36.8	230	F1	mg/Kg		260	75 - 125	15	20
Beryllium	ND		36.8	34.0		mg/Kg		92	75 - 125	12	20
Cadmium	0.42		36.8	33.7		mg/Kg		91	75 - 125	12	20
Chromium	35		36.8	75.4		mg/Kg		109	75 - 125	16	20
Cobalt	9.2		36.8	45.2		mg/Kg		98	75 - 125	9	20
Copper	27		36.8	64.0		mg/Kg		100	75 - 125	6	20
Lead	48	F1	36.8	76.6		mg/Kg		78	75 - 125	12	20
Molybdenum	ND		36.8	32.5		mg/Kg		87	75 - 125	11	20
Nickel	46		36.8	82.7		mg/Kg		100	75 - 125	14	20
Selenium	ND		36.8	33.8		mg/Kg		92	75 - 125	10	20
Silver	ND		18.4	17.1		mg/Kg		93	75 - 125	8	20
Thallium	ND		36.8	33.9		mg/Kg		91	75 - 125	12	20
Vanadium	38		36.8	77.5		mg/Kg		108	75 - 125	3	20
Zinc	98		36.8	128		mg/Kg		82	75 - 125	1	20

Lab Sample ID: MB 720-218783/1-A
Matrix: Water
Analysis Batch: 218845

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 218783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010	0.0041	mg/L		03/06/17 09:23	03/06/17 19:34	1
Arsenic	ND		0.010	0.0029	mg/L		03/06/17 09:23	03/06/17 19:34	1
Barium	ND		0.050	0.0016	mg/L		03/06/17 09:23	03/06/17 19:34	1
Beryllium	ND		0.0020	0.00059	mg/L		03/06/17 09:23	03/06/17 19:34	1
Cadmium	ND		0.0020	0.00021	mg/L		03/06/17 09:23	03/06/17 19:34	1
Chromium	ND		0.010	0.00070	mg/L		03/06/17 09:23	03/06/17 19:34	1
Cobalt	ND		0.0020	0.00068	mg/L		03/06/17 09:23	03/06/17 19:34	1
Copper	ND		0.020	0.0037	mg/L		03/06/17 09:23	03/06/17 19:34	1
Lead	ND		0.0050	0.0022	mg/L		03/06/17 09:23	03/06/17 19:34	1
Molybdenum	ND		0.010	0.0029	mg/L		03/06/17 09:23	03/06/17 19:34	1
Nickel	ND		0.010	0.0010	mg/L		03/06/17 09:23	03/06/17 19:34	1
Selenium	ND		0.020	0.0046	mg/L		03/06/17 09:23	03/06/17 19:34	1
Silver	ND		0.0050	0.0020	mg/L		03/06/17 09:23	03/06/17 19:34	1
Thallium	ND		0.010	0.0035	mg/L		03/06/17 09:23	03/06/17 19:34	1
Vanadium	ND		0.010	0.00087	mg/L		03/06/17 09:23	03/06/17 19:34	1
Zinc	ND		0.020	0.0074	mg/L		03/06/17 09:23	03/06/17 19:34	1

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: LCS 720-218783/2-A
Matrix: Water
Analysis Batch: 218845

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 218783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	1.00	0.959		mg/L		96	80 - 120
Arsenic	1.00	0.961		mg/L		96	80 - 120
Barium	1.00	0.967		mg/L		97	80 - 120
Beryllium	1.00	0.955		mg/L		96	80 - 120
Cadmium	1.00	0.959		mg/L		96	80 - 120
Chromium	1.00	0.959		mg/L		96	80 - 120
Cobalt	1.00	0.988		mg/L		99	80 - 120
Copper	1.00	0.962		mg/L		96	80 - 120
Lead	1.00	0.980		mg/L		98	80 - 120
Molybdenum	1.00	0.966		mg/L		97	80 - 120
Nickel	1.00	0.968		mg/L		97	80 - 120
Selenium	1.00	0.964		mg/L		96	80 - 120
Silver	0.500	0.482		mg/L		96	80 - 120
Thallium	1.00	0.994		mg/L		99	80 - 120
Vanadium	1.00	0.981		mg/L		98	80 - 120
Zinc	1.00	0.981		mg/L		98	80 - 120

Lab Sample ID: MB 720-218741/1-B
Matrix: Water
Analysis Batch: 218845

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 218783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010	0.0041	mg/L		03/06/17 09:23	03/06/17 19:39	1
Arsenic	ND		0.010	0.0029	mg/L		03/06/17 09:23	03/06/17 19:39	1
Barium	ND		0.050	0.0016	mg/L		03/06/17 09:23	03/06/17 19:39	1
Beryllium	ND		0.0020	0.00059	mg/L		03/06/17 09:23	03/06/17 19:39	1
Cadmium	ND		0.0020	0.00021	mg/L		03/06/17 09:23	03/06/17 19:39	1
Chromium	ND		0.010	0.00070	mg/L		03/06/17 09:23	03/06/17 19:39	1
Cobalt	ND		0.0020	0.00068	mg/L		03/06/17 09:23	03/06/17 19:39	1
Copper	ND		0.020	0.0037	mg/L		03/06/17 09:23	03/06/17 19:39	1
Lead	ND		0.0050	0.0022	mg/L		03/06/17 09:23	03/06/17 19:39	1
Molybdenum	ND		0.010	0.0029	mg/L		03/06/17 09:23	03/06/17 19:39	1
Nickel	ND		0.010	0.0010	mg/L		03/06/17 09:23	03/06/17 19:39	1
Selenium	ND		0.020	0.0046	mg/L		03/06/17 09:23	03/06/17 19:39	1
Silver	ND		0.0050	0.0020	mg/L		03/06/17 09:23	03/06/17 19:39	1
Thallium	ND		0.010	0.0035	mg/L		03/06/17 09:23	03/06/17 19:39	1
Vanadium	ND		0.010	0.00087	mg/L		03/06/17 09:23	03/06/17 19:39	1
Zinc	ND		0.020	0.0074	mg/L		03/06/17 09:23	03/06/17 19:39	1

Lab Sample ID: 720-78016-11 MS
Matrix: Water
Analysis Batch: 218845

Client Sample ID: HA03-GW
Prep Type: Dissolved
Prep Batch: 218783

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	ND		1.00	0.969		mg/L		97	75 - 125
Arsenic	ND		1.00	0.996		mg/L		100	75 - 125
Barium	0.094		1.00	1.01		mg/L		92	75 - 125
Beryllium	ND		1.00	0.940		mg/L		94	75 - 125

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

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

Lab Sample ID: 720-78016-11 MS
Matrix: Water
Analysis Batch: 218845

Client Sample ID: HA03-GW
Prep Type: Dissolved
Prep Batch: 218783

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Cadmium	ND		1.00	0.931		mg/L		93		75 - 125
Chromium	ND		1.00	0.925		mg/L		92		75 - 125
Cobalt	0.0030		1.00	0.906		mg/L		90		75 - 125
Copper	ND		1.00	0.933		mg/L		93		75 - 125
Lead	0.018		1.00	0.922		mg/L		90		75 - 125
Molybdenum	ND		1.00	0.967		mg/L		96		75 - 125
Nickel	ND		1.00	0.914		mg/L		91		75 - 125
Selenium	ND		1.00	0.964		mg/L		96		75 - 125
Silver	ND		0.500	0.469		mg/L		94		75 - 125
Thallium	ND		1.00	0.873		mg/L		87		75 - 125
Vanadium	ND		1.00	0.935		mg/L		93		75 - 125
Zinc	0.042		1.00	0.952		mg/L		91		75 - 125

Lab Sample ID: 720-78016-11 MSD
Matrix: Water
Analysis Batch: 218845

Client Sample ID: HA03-GW
Prep Type: Dissolved
Prep Batch: 218783

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Antimony	ND		1.00	0.978		mg/L		98		75 - 125	1	20
Arsenic	ND		1.00	1.01		mg/L		101		75 - 125	1	20
Barium	0.094		1.00	1.02		mg/L		93		75 - 125	1	20
Beryllium	ND		1.00	0.946		mg/L		95		75 - 125	1	20
Cadmium	ND		1.00	0.938		mg/L		94		75 - 125	1	20
Chromium	ND		1.00	0.934		mg/L		93		75 - 125	1	20
Cobalt	0.0030		1.00	0.921		mg/L		92		75 - 125	2	20
Copper	ND		1.00	0.936		mg/L		93		75 - 125	0	20
Lead	0.018		1.00	0.935		mg/L		92		75 - 125	1	20
Molybdenum	ND		1.00	0.979		mg/L		98		75 - 125	1	20
Nickel	ND		1.00	0.918		mg/L		92		75 - 125	0	20
Selenium	ND		1.00	0.976		mg/L		98		75 - 125	1	20
Silver	ND		0.500	0.475		mg/L		95		75 - 125	1	20
Thallium	ND		1.00	0.884		mg/L		88		75 - 125	1	20
Vanadium	ND		1.00	0.961		mg/L		96		75 - 125	3	20
Zinc	0.042		1.00	0.974		mg/L		93		75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 320-153932/11-A
Matrix: Water
Analysis Batch: 154137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153932

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.00020	0.00010	mg/L		03/08/17 13:36	03/09/17 08:10	1

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 320-153932/12-A
Matrix: Water
Analysis Batch: 154137

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153932

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00100	0.00103		mg/L		103	82 - 113

Lab Sample ID: LCSD 320-153932/13-A
Matrix: Water
Analysis Batch: 154137

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 153932

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.00100	0.00101		mg/L		101	82 - 113	2	17

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 320-153584/11-A
Matrix: Solid
Analysis Batch: 153752

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.040	0.0086	mg/Kg		03/07/17 11:45	03/07/17 15:12	1

Lab Sample ID: LCS 320-153584/12-A
Matrix: Solid
Analysis Batch: 153752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.167	0.157		mg/Kg		94	86 - 114

Lab Sample ID: 720-78016-1 MS
Matrix: Solid
Analysis Batch: 153752

Client Sample ID: HA01-SO-0.5
Prep Type: Total/NA
Prep Batch: 153584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	ND	F1 F2	0.147	0.147	F1	mg/Kg		79	86 - 114

Lab Sample ID: 720-78016-1 MSD
Matrix: Solid
Analysis Batch: 153752

Client Sample ID: HA01-SO-0.5
Prep Type: Total/NA
Prep Batch: 153584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	ND	F1 F2	0.161	0.208	F2	mg/Kg		110	86 - 114	34	17

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

GC/MS VOA

Analysis Batch: 218887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-3	HA01-GW	Total/NA	Water	8260B/CA_LUFT MS	
720-78016-8	HA02-GW	Total/NA	Water	8260B/CA_LUFT MS	
720-78016-10	TB	Total/NA	Water	8260B/CA_LUFT MS	
720-78016-11	HA03-GW	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-218887/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-218887/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-218887/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-218887/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-218887/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 218943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-2	HA01-SO-28	Total/NA	Solid	8260B	218981
720-78016-4	HA02-SO-0.5	Total/NA	Solid	8260B	218981
720-78016-5	HA02-SO-30	Total/NA	Solid	8260B	218981
MB 720-218943/4	Method Blank	Total/NA	Solid	8260B	
LCS 720-218943/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-218943/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 218981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-2	HA01-SO-28	Total/NA	Solid	5030B	
720-78016-4	HA02-SO-0.5	Total/NA	Solid	5030B	
720-78016-5	HA02-SO-30	Total/NA	Solid	5030B	

Analysis Batch: 219016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-2	HA01-SO-28	Total/NA	Solid	8260B	219048
720-78016-4	HA02-SO-0.5	Total/NA	Solid	8260B	219048
720-78016-5	HA02-SO-30	Total/NA	Solid	8260B	219048
MB 720-219016/4	Method Blank	Total/NA	Solid	8260B	
LCS 720-219016/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-219016/8	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 219048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-2	HA01-SO-28	Total/NA	Solid	5030B	
720-78016-4	HA02-SO-0.5	Total/NA	Solid	5030B	
720-78016-5	HA02-SO-30	Total/NA	Solid	5030B	

Analysis Batch: 219053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-1	HA01-SO-0.5	Total/NA	Solid	8260B	219060
720-78016-6	HA02-SO-24	Total/NA	Solid	8260B	219060

TestAmerica Pleasanton

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

GC/MS VOA (Continued)

Analysis Batch: 219053 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-7	HA03-SO-20	Total/NA	Solid	8260B	219060
720-78016-9	HA03-SO-1.0	Total/NA	Solid	8260B	219060
MB 720-219053/5	Method Blank	Total/NA	Solid	8260B	
LCS 720-219053/6	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-219053/8	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-219053/7	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCS 720-219053/9	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 219060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-1	HA01-SO-0.5	Total/NA	Solid	5030B	
720-78016-6	HA02-SO-24	Total/NA	Solid	5030B	
720-78016-7	HA03-SO-20	Total/NA	Solid	5030B	
720-78016-9	HA03-SO-1.0	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 218806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-1	HA01-SO-0.5	Total/NA	Solid	3546	
720-78016-2	HA01-SO-28	Total/NA	Solid	3546	
720-78016-4	HA02-SO-0.5	Total/NA	Solid	3546	
720-78016-5	HA02-SO-30	Total/NA	Solid	3546	
720-78016-6	HA02-SO-24	Total/NA	Solid	3546	
720-78016-7	HA03-SO-20	Total/NA	Solid	3546	
720-78016-9	HA03-SO-1.0	Total/NA	Solid	3546	
MB 720-218806/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-218806/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-78016-4 MS	HA02-SO-0.5	Total/NA	Solid	3546	
720-78016-4 MSD	HA02-SO-0.5	Total/NA	Solid	3546	

Analysis Batch: 218840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-1	HA01-SO-0.5	Total/NA	Solid	8270C SIM	218806
720-78016-2	HA01-SO-28	Total/NA	Solid	8270C SIM	218806
720-78016-4	HA02-SO-0.5	Total/NA	Solid	8270C SIM	218806
720-78016-5	HA02-SO-30	Total/NA	Solid	8270C SIM	218806
720-78016-6	HA02-SO-24	Total/NA	Solid	8270C SIM	218806
720-78016-7	HA03-SO-20	Total/NA	Solid	8270C SIM	218806
720-78016-9	HA03-SO-1.0	Total/NA	Solid	8270C SIM	218806
MB 720-218806/1-A	Method Blank	Total/NA	Solid	8270C SIM	218806
LCS 720-218806/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	218806
720-78016-4 MS	HA02-SO-0.5	Total/NA	Solid	8270C SIM	218806
720-78016-4 MSD	HA02-SO-0.5	Total/NA	Solid	8270C SIM	218806

Prep Batch: 218855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-3	HA01-GW	Total/NA	Water	3510C	
720-78016-8	HA02-GW	Total/NA	Water	3510C	
720-78016-11	HA03-GW	Total/NA	Water	3510C	

TestAmerica Pleasanton

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

GC/MS Semi VOA (Continued)

Prep Batch: 218855 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-218855/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-218855/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-218855/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 218898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-3	HA01-GW	Total/NA	Water	8270C SIM	218855
720-78016-8	HA02-GW	Total/NA	Water	8270C SIM	218855
720-78016-11	HA03-GW	Total/NA	Water	8270C SIM	218855
MB 720-218855/1-A	Method Blank	Total/NA	Water	8270C SIM	218855
LCS 720-218855/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	218855
LCSD 720-218855/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	218855

GC Semi VOA

Prep Batch: 218764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-3	HA01-GW	Total/NA	Water	3510C	
720-78016-8	HA02-GW	Total/NA	Water	3510C	
720-78016-11	HA03-GW	Total/NA	Water	3510C	
MB 720-218764/1-A	Method Blank	Total/NA	Water	3510C	
LCS 720-218764/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-218764/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 218774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-8	HA02-GW	Total/NA	Water	8015B	218764
720-78016-11	HA03-GW	Total/NA	Water	8015B	218764
MB 720-218764/1-A	Method Blank	Total/NA	Water	8015B	218764
MB 720-218792/1-A	Method Blank	Total/NA	Solid	8015B	218792
LCS 720-218764/2-A	Lab Control Sample	Total/NA	Water	8015B	218764
LCS 720-218792/2-A	Lab Control Sample	Total/NA	Solid	8015B	218792
LCSD 720-218764/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	218764

Analysis Batch: 218776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-1	HA01-SO-0.5	Total/NA	Solid	8082	218810
720-78016-4	HA02-SO-0.5	Total/NA	Solid	8082	218810
720-78016-9	HA03-SO-1.0	Total/NA	Solid	8082	218810
MB 720-218810/1-A	Method Blank	Total/NA	Solid	8082	218810
LCS 720-218810/2-A	Lab Control Sample	Total/NA	Solid	8082	218810
720-78016-4 MS	HA02-SO-0.5	Total/NA	Solid	8082	218810
720-78016-4 MSD	HA02-SO-0.5	Total/NA	Solid	8082	218810

Analysis Batch: 218788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-1	HA01-SO-0.5	Total/NA	Solid	8015B	218792
720-78016-2	HA01-SO-28	Total/NA	Solid	8015B	218792
720-78016-4	HA02-SO-0.5	Total/NA	Solid	8015B	218792

TestAmerica Pleasanton

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

GC Semi VOA (Continued)

Analysis Batch: 218789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-5	HA02-SO-30	Total/NA	Solid	8015B	218792
720-78016-6	HA02-SO-24	Total/NA	Solid	8015B	218792
720-78016-7	HA03-SO-20	Total/NA	Solid	8015B	218792
720-78016-9	HA03-SO-1.0	Total/NA	Solid	8015B	218792

Prep Batch: 218792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-1	HA01-SO-0.5	Total/NA	Solid	3546	
720-78016-2	HA01-SO-28	Total/NA	Solid	3546	
720-78016-4	HA02-SO-0.5	Total/NA	Solid	3546	
720-78016-5	HA02-SO-30	Total/NA	Solid	3546	
720-78016-6	HA02-SO-24	Total/NA	Solid	3546	
720-78016-7	HA03-SO-20	Total/NA	Solid	3546	
720-78016-9	HA03-SO-1.0	Total/NA	Solid	3546	
MB 720-218792/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-218792/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 218810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-1	HA01-SO-0.5	Total/NA	Solid	3546	
720-78016-4	HA02-SO-0.5	Total/NA	Solid	3546	
720-78016-9	HA03-SO-1.0	Total/NA	Solid	3546	
MB 720-218810/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-218810/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-78016-4 MS	HA02-SO-0.5	Total/NA	Solid	3546	
720-78016-4 MSD	HA02-SO-0.5	Total/NA	Solid	3546	

Analysis Batch: 218849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-3	HA01-GW	Total/NA	Water	8015B	218764

Metals

Prep Batch: 153584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-1	HA01-SO-0.5	Total/NA	Solid	7471A	
720-78016-2	HA01-SO-28	Total/NA	Solid	7471A	
720-78016-4	HA02-SO-0.5	Total/NA	Solid	7471A	
720-78016-5	HA02-SO-30	Total/NA	Solid	7471A	
720-78016-6	HA02-SO-24	Total/NA	Solid	7471A	
720-78016-7	HA03-SO-20	Total/NA	Solid	7471A	
720-78016-9	HA03-SO-1.0	Total/NA	Solid	7471A	
MB 320-153584/11-A	Method Blank	Total/NA	Solid	7471A	
LCS 320-153584/12-A	Lab Control Sample	Total/NA	Solid	7471A	
720-78016-1 MS	HA01-SO-0.5	Total/NA	Solid	7471A	
720-78016-1 MSD	HA01-SO-0.5	Total/NA	Solid	7471A	

Analysis Batch: 153752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-1	HA01-SO-0.5	Total/NA	Solid	7471A	153584

TestAmerica Pleasanton

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Metals (Continued)

Analysis Batch: 153752 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-2	HA01-SO-28	Total/NA	Solid	7471A	153584
720-78016-4	HA02-SO-0.5	Total/NA	Solid	7471A	153584
720-78016-5	HA02-SO-30	Total/NA	Solid	7471A	153584
720-78016-6	HA02-SO-24	Total/NA	Solid	7471A	153584
720-78016-7	HA03-SO-20	Total/NA	Solid	7471A	153584
720-78016-9	HA03-SO-1.0	Total/NA	Solid	7471A	153584
MB 320-153584/11-A	Method Blank	Total/NA	Solid	7471A	153584
LCS 320-153584/12-A	Lab Control Sample	Total/NA	Solid	7471A	153584
720-78016-1 MS	HA01-SO-0.5	Total/NA	Solid	7471A	153584
720-78016-1 MSD	HA01-SO-0.5	Total/NA	Solid	7471A	153584

Filtration Batch: 153820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-3	HA01-GW	Dissolved	Water	Filtration	
720-78016-8	HA02-GW	Dissolved	Water	Filtration	
720-78016-11	HA03-GW	Dissolved	Water	Filtration	

Prep Batch: 153932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-3	HA01-GW	Dissolved	Water	7470A	153820
720-78016-8	HA02-GW	Dissolved	Water	7470A	153820
720-78016-11	HA03-GW	Dissolved	Water	7470A	153820
MB 320-153932/11-A	Method Blank	Total/NA	Water	7470A	
LCS 320-153932/12-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 320-153932/13-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Analysis Batch: 154137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-3	HA01-GW	Dissolved	Water	7470A	153932
720-78016-8	HA02-GW	Dissolved	Water	7470A	153932
720-78016-11	HA03-GW	Dissolved	Water	7470A	153932
MB 320-153932/11-A	Method Blank	Total/NA	Water	7470A	153932
LCS 320-153932/12-A	Lab Control Sample	Total/NA	Water	7470A	153932
LCSD 320-153932/13-A	Lab Control Sample Dup	Total/NA	Water	7470A	153932

Filtration Batch: 218741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-3	HA01-GW	Dissolved	Water	FILTRATION	
720-78016-8	HA02-GW	Dissolved	Water	FILTRATION	
720-78016-11	HA03-GW	Dissolved	Water	FILTRATION	
MB 720-218741/1-B	Method Blank	Dissolved	Water	FILTRATION	
720-78016-11 MS	HA03-GW	Dissolved	Water	FILTRATION	
720-78016-11 MSD	HA03-GW	Dissolved	Water	FILTRATION	

Prep Batch: 218783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-3	HA01-GW	Dissolved	Water	3005A	218741
720-78016-8	HA02-GW	Dissolved	Water	3005A	218741
720-78016-11	HA03-GW	Dissolved	Water	3005A	218741
MB 720-218741/1-B	Method Blank	Dissolved	Water	3005A	218741
MB 720-218783/1-A	Method Blank	Total Recoverable	Water	3005A	

TestAmerica Pleasanton

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Metals (Continued)

Prep Batch: 218783 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-218783/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
720-78016-11 MS	HA03-GW	Dissolved	Water	3005A	218741
720-78016-11 MSD	HA03-GW	Dissolved	Water	3005A	218741

Prep Batch: 218793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-1	HA01-SO-0.5	Total/NA	Solid	3050B	
720-78016-2	HA01-SO-28	Total/NA	Solid	3050B	
720-78016-4	HA02-SO-0.5	Total/NA	Solid	3050B	
720-78016-5	HA02-SO-30	Total/NA	Solid	3050B	
720-78016-6	HA02-SO-24	Total/NA	Solid	3050B	
720-78016-7	HA03-SO-20	Total/NA	Solid	3050B	
720-78016-9	HA03-SO-1.0	Total/NA	Solid	3050B	
MB 720-218793/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-218793/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-78016-1 MS	HA01-SO-0.5	Total/NA	Solid	3050B	
720-78016-1 MSD	HA01-SO-0.5	Total/NA	Solid	3050B	

Analysis Batch: 218845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78016-1	HA01-SO-0.5	Total/NA	Solid	6010B	218793
720-78016-2	HA01-SO-28	Total/NA	Solid	6010B	218793
720-78016-3	HA01-GW	Dissolved	Water	6010B	218783
720-78016-4	HA02-SO-0.5	Total/NA	Solid	6010B	218793
720-78016-5	HA02-SO-30	Total/NA	Solid	6010B	218793
720-78016-6	HA02-SO-24	Total/NA	Solid	6010B	218793
720-78016-7	HA03-SO-20	Total/NA	Solid	6010B	218793
720-78016-8	HA02-GW	Dissolved	Water	6010B	218783
720-78016-9	HA03-SO-1.0	Total/NA	Solid	6010B	218793
720-78016-11	HA03-GW	Dissolved	Water	6010B	218783
MB 720-218741/1-B	Method Blank	Dissolved	Water	6010B	218783
MB 720-218783/1-A	Method Blank	Total Recoverable	Water	6010B	218783
MB 720-218793/1-A	Method Blank	Total/NA	Solid	6010B	218793
LCS 720-218783/2-A	Lab Control Sample	Total Recoverable	Water	6010B	218783
LCS 720-218793/2-A	Lab Control Sample	Total/NA	Solid	6010B	218793
720-78016-1 MS	HA01-SO-0.5	Total/NA	Solid	6010B	218793
720-78016-1 MSD	HA01-SO-0.5	Total/NA	Solid	6010B	218793
720-78016-11 MS	HA03-GW	Dissolved	Water	6010B	218783
720-78016-11 MSD	HA03-GW	Dissolved	Water	6010B	218783

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA01-SO-0.5

Date Collected: 03/02/17 08:45

Date Received: 03/02/17 18:30

Lab Sample ID: 720-78016-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			219060	03/09/17 20:29	MJK	TAL PLS
Total/NA	Analysis	8260B		1	219053	03/09/17 22:46	JRM	TAL PLS
Total/NA	Prep	3546			218806	03/06/17 13:41	RAC	TAL PLS
Total/NA	Analysis	8270C SIM		10	218840	03/07/17 09:35	MQL	TAL PLS
Total/NA	Prep	3546			218792	03/06/17 13:26	TTC	TAL PLS
Total/NA	Analysis	8015B		10	218788	03/06/17 22:42	JXL	TAL PLS
Total/NA	Prep	3546			218810	03/06/17 13:49	JEV	TAL PLS
Total/NA	Analysis	8082		1	218776	03/07/17 03:36	DCH	TAL PLS
Total/NA	Prep	3050B			218793	03/06/17 12:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	218845	03/07/17 01:46	ASB	TAL PLS
Total/NA	Prep	7471A			153584	03/07/17 11:45	GSH	TAL SAC
Total/NA	Analysis	7471A		1	153752	03/07/17 16:02	GSH	TAL SAC

Client Sample ID: HA01-SO-28

Date Collected: 03/02/17 09:30

Date Received: 03/02/17 18:30

Lab Sample ID: 720-78016-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			219048	03/09/17 18:50	CAM	TAL PLS
Total/NA	Analysis	8260B		1	219016	03/09/17 20:41	CAM	TAL PLS
Total/NA	Prep	5030B			218981	03/08/17 19:57	CAM	TAL PLS
Total/NA	Analysis	8260B		1	218943	03/08/17 21:07	JRM	TAL PLS
Total/NA	Prep	3546			218806	03/06/17 13:41	RAC	TAL PLS
Total/NA	Analysis	8270C SIM		1	218840	03/07/17 04:53	MQL	TAL PLS
Total/NA	Prep	3546			218792	03/06/17 13:26	TTC	TAL PLS
Total/NA	Analysis	8015B		1	218788	03/06/17 22:18	JXL	TAL PLS
Total/NA	Prep	3050B			218793	03/06/17 12:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	218845	03/07/17 01:50	ASB	TAL PLS
Total/NA	Prep	7471A			153584	03/07/17 11:45	GSH	TAL SAC
Total/NA	Analysis	7471A		1	153752	03/07/17 16:12	GSH	TAL SAC

Client Sample ID: HA01-GW

Date Collected: 03/02/17 10:00

Date Received: 03/02/17 18:30

Lab Sample ID: 720-78016-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	218887	03/08/17 03:37	MJK	TAL PLS
Total/NA	Prep	3510C			218855	03/07/17 10:03	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	218898	03/07/17 21:22	MQL	TAL PLS
Total/NA	Prep	3510C			218764	03/04/17 07:52	NDU	TAL PLS
Total/NA	Analysis	8015B		1	218849	03/07/17 10:44	JXL	TAL PLS
Dissolved	Filtration	FILTRATION			218741	03/03/17 10:07	JNG	TAL PLS
Dissolved	Prep	3005A			218783	03/06/17 09:23	JNG	TAL PLS

TestAmerica Pleasanton

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA01-GW

Date Collected: 03/02/17 10:00

Date Received: 03/02/17 18:30

Lab Sample ID: 720-78016-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010B		1	218845	03/06/17 20:19	ASB	TAL PLS
Dissolved	Filtration	Filtration			153820	03/08/17 09:13	GSH	TAL SAC
Dissolved	Prep	7470A			153932	03/08/17 13:36	GSH	TAL SAC
Dissolved	Analysis	7470A		1	154137	03/09/17 09:41	GSH	TAL SAC

Client Sample ID: HA02-SO-0.5

Date Collected: 03/02/17 10:25

Date Received: 03/02/17 18:30

Lab Sample ID: 720-78016-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			219048	03/09/17 18:50	CAM	TAL PLS
Total/NA	Analysis	8260B		1	219016	03/09/17 21:11	CAM	TAL PLS
Total/NA	Prep	5030B			218981	03/08/17 19:57	CAM	TAL PLS
Total/NA	Analysis	8260B		1	218943	03/08/17 21:35	JRM	TAL PLS
Total/NA	Prep	3546			218806	03/06/17 13:41	RAC	TAL PLS
Total/NA	Analysis	8270C SIM		5	218840	03/07/17 09:12	MQL	TAL PLS
Total/NA	Prep	3546			218792	03/06/17 13:26	TTC	TAL PLS
Total/NA	Analysis	8015B		2	218788	03/06/17 23:06	JXL	TAL PLS
Total/NA	Prep	3546			218810	03/06/17 13:49	JEV	TAL PLS
Total/NA	Analysis	8082		1	218776	03/07/17 03:19	DCH	TAL PLS
Total/NA	Prep	3050B			218793	03/06/17 12:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	218845	03/07/17 01:55	ASB	TAL PLS
Total/NA	Prep	7471A			153584	03/07/17 11:45	GSH	TAL SAC
Total/NA	Analysis	7471A		1	153752	03/07/17 16:14	GSH	TAL SAC

Client Sample ID: HA02-SO-30

Date Collected: 03/02/17 11:15

Date Received: 03/02/17 18:30

Lab Sample ID: 720-78016-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			219048	03/09/17 18:50	CAM	TAL PLS
Total/NA	Analysis	8260B		1	219016	03/09/17 21:41	CAM	TAL PLS
Total/NA	Prep	5030B			218981	03/08/17 19:57	CAM	TAL PLS
Total/NA	Analysis	8260B		1	218943	03/08/17 22:03	JRM	TAL PLS
Total/NA	Prep	3546			218806	03/06/17 13:41	RAC	TAL PLS
Total/NA	Analysis	8270C SIM		1	218840	03/07/17 05:17	MQL	TAL PLS
Total/NA	Prep	3546			218792	03/06/17 13:26	TTC	TAL PLS
Total/NA	Analysis	8015B		1	218789	03/06/17 22:18	JXL	TAL PLS
Total/NA	Prep	3050B			218793	03/06/17 12:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	218845	03/07/17 02:00	ASB	TAL PLS
Total/NA	Prep	7471A			153584	03/07/17 11:45	GSH	TAL SAC
Total/NA	Analysis	7471A		1	153752	03/07/17 16:16	GSH	TAL SAC

TestAmerica Pleasanton

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA02-SO-24

Lab Sample ID: 720-78016-6

Date Collected: 03/02/17 11:20

Matrix: Solid

Date Received: 03/02/17 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			219060	03/09/17 20:29	MJK	TAL PLS
Total/NA	Analysis	8260B		1	219053	03/09/17 23:14	JRM	TAL PLS
Total/NA	Prep	3546			218806	03/06/17 13:41	RAC	TAL PLS
Total/NA	Analysis	8270C SIM		1	218840	03/07/17 05:40	MQL	TAL PLS
Total/NA	Prep	3546			218792	03/06/17 13:26	TTC	TAL PLS
Total/NA	Analysis	8015B		1	218789	03/06/17 23:06	JXL	TAL PLS
Total/NA	Prep	3050B			218793	03/06/17 12:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	218845	03/07/17 02:06	ASB	TAL PLS
Total/NA	Prep	7471A			153584	03/07/17 11:45	GSH	TAL SAC
Total/NA	Analysis	7471A		1	153752	03/07/17 16:19	GSH	TAL SAC

Client Sample ID: HA03-SO-20

Lab Sample ID: 720-78016-7

Date Collected: 03/02/17 13:15

Matrix: Solid

Date Received: 03/02/17 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			219060	03/09/17 20:29	MJK	TAL PLS
Total/NA	Analysis	8260B		1	219053	03/09/17 23:43	JRM	TAL PLS
Total/NA	Prep	3546			218806	03/06/17 13:41	RAC	TAL PLS
Total/NA	Analysis	8270C SIM		1	218840	03/07/17 06:03	MQL	TAL PLS
Total/NA	Prep	3546			218792	03/06/17 13:26	TTC	TAL PLS
Total/NA	Analysis	8015B		1	218789	03/06/17 22:42	JXL	TAL PLS
Total/NA	Prep	3050B			218793	03/06/17 12:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	218845	03/07/17 02:11	ASB	TAL PLS
Total/NA	Prep	7471A			153584	03/07/17 11:45	GSH	TAL SAC
Total/NA	Analysis	7471A		1	153752	03/07/17 16:21	GSH	TAL SAC

Client Sample ID: HA02-GW

Lab Sample ID: 720-78016-8

Date Collected: 03/02/17 12:15

Matrix: Water

Date Received: 03/02/17 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	218887	03/08/17 04:06	MJK	TAL PLS
Total/NA	Prep	3510C			218855	03/07/17 10:03	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	218898	03/07/17 21:46	MQL	TAL PLS
Total/NA	Prep	3510C			218764	03/04/17 07:52	NDU	TAL PLS
Total/NA	Analysis	8015B		1	218774	03/06/17 18:07	JXL	TAL PLS
Dissolved	Filtration	FILTRATION			218741	03/03/17 10:07	JNG	TAL PLS
Dissolved	Prep	3005A			218783	03/06/17 09:23	JNG	TAL PLS
Dissolved	Analysis	6010B		1	218845	03/06/17 20:14	ASB	TAL PLS
Dissolved	Filtration	Filtration			153820	03/08/17 09:14	GSH	TAL SAC
Dissolved	Prep	7470A			153932	03/08/17 13:36	GSH	TAL SAC
Dissolved	Analysis	7470A		1	154137	03/09/17 09:51	GSH	TAL SAC

TestAmerica Pleasanton

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Client Sample ID: HA03-SO-1.0

Lab Sample ID: 720-78016-9

Date Collected: 03/02/17 12:45

Matrix: Solid

Date Received: 03/02/17 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			219060	03/09/17 20:29	MJK	TAL PLS
Total/NA	Analysis	8260B		1	219053	03/10/17 00:11	JRM	TAL PLS
Total/NA	Prep	3546			218806	03/06/17 13:41	RAC	TAL PLS
Total/NA	Analysis	8270C SIM		5	218840	03/07/17 09:59	MQL	TAL PLS
Total/NA	Prep	3546			218792	03/06/17 13:26	TTC	TAL PLS
Total/NA	Analysis	8015B		5	218789	03/06/17 23:54	JXL	TAL PLS
Total/NA	Prep	3546			218810	03/06/17 13:49	JEV	TAL PLS
Total/NA	Analysis	8082		1	218776	03/07/17 03:52	DCH	TAL PLS
Total/NA	Prep	3050B			218793	03/06/17 12:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	218845	03/07/17 02:15	ASB	TAL PLS
Total/NA	Prep	7471A			153584	03/07/17 11:45	GSH	TAL SAC
Total/NA	Analysis	7471A		1	153752	03/07/17 16:29	GSH	TAL SAC

Client Sample ID: TB

Lab Sample ID: 720-78016-10

Date Collected: 03/02/17 00:00

Matrix: Water

Date Received: 03/02/17 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	218887	03/07/17 23:24	MJK	TAL PLS

Client Sample ID: HA03-GW

Lab Sample ID: 720-78016-11

Date Collected: 03/02/17 14:00

Matrix: Water

Date Received: 03/02/17 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	218887	03/08/17 04:34	MJK	TAL PLS
Total/NA	Prep	3510C			218855	03/07/17 10:03	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	218898	03/07/17 22:09	MQL	TAL PLS
Total/NA	Prep	3510C			218764	03/04/17 07:52	NDU	TAL PLS
Total/NA	Analysis	8015B		1	218774	03/06/17 18:36	JXL	TAL PLS
Dissolved	Filtration	FILTRATION			218741	03/03/17 10:07	JNG	TAL PLS
Dissolved	Prep	3005A			218783	03/06/17 09:23	JNG	TAL PLS
Dissolved	Analysis	6010B		1	218845	03/06/17 20:09	ASB	TAL PLS
Dissolved	Filtration	Filtration			153820	03/08/17 09:14	GSH	TAL SAC
Dissolved	Prep	7470A			153932	03/08/17 13:36	GSH	TAL SAC
Dissolved	Analysis	7470A		1	154137	03/09/17 09:53	GSH	TAL SAC

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-18

Laboratory: TestAmerica Sacramento

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-055	12-18-17
Arizona	State Program	9	AZ0708	08-11-17
Arkansas DEQ	State Program	6	88-0691	06-17-17
California	State Program	9	2897	01-31-18
Colorado	State Program	8	CA00044	08-31-17
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-17
Hawaii	State Program	9	N/A	01-29-18
Illinois	NELAP	5	200060	03-17-18
Kansas	NELAP	7	E-10375	10-31-17
L-A-B	DoD ELAP		L2468	01-20-18
Louisiana	NELAP	6	30612	06-30-17
Maine	State Program	1	CA0004	04-18-18
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA00044	07-31-17
New Jersey	NELAP	2	CA005	06-30-17
New York	NELAP	2	11666	04-01-17
Oregon	NELAP	10	4040	01-28-18
Pennsylvania	NELAP	3	68-01272	03-31-17
Texas	NELAP	6	T104704399	07-31-17
US Fish & Wildlife	Federal		LE148388-0	10-31-17
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-18
Utah	NELAP	8	CA00044	02-28-17 *
Virginia	NELAP	3	460278	03-14-18
Washington	State Program	10	C581	05-05-17
West Virginia (DW)	State Program	3	9930C	12-31-17
Wyoming	State Program	8	8TMS-L	01-29-17 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL SAC
7471A	Mercury (CVAA)	SW846	TAL SAC

Protocol References:

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

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78016-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-78016-1	HA01-SO-0.5	Solid	03/02/17 08:45	03/02/17 18:30
720-78016-2	HA01-SO-28	Solid	03/02/17 09:30	03/02/17 18:30
720-78016-3	HA01-GW	Water	03/02/17 10:00	03/02/17 18:30
720-78016-4	HA02-SO-0.5	Solid	03/02/17 10:25	03/02/17 18:30
720-78016-5	HA02-SO-30	Solid	03/02/17 11:15	03/02/17 18:30
720-78016-6	HA02-SO-24	Solid	03/02/17 11:20	03/02/17 18:30
720-78016-7	HA03-SO-20	Solid	03/02/17 13:15	03/02/17 18:30
720-78016-8	HA02-GW	Water	03/02/17 12:15	03/02/17 18:30
720-78016-9	HA03-SO-1.0	Solid	03/02/17 12:45	03/02/17 18:30
720-78016-10	TB	Water	03/02/17 00:00	03/02/17 18:30
720-78016-11	HA03-GW	Water	03/02/17 14:00	03/02/17 18:30

TestAmerica Pleasanton
 1220 Quarry Lane
 Pleasanton, CA 94566-4756
 phone 925-484-1919 fax 925-600-3002

720-78016

Chain of Custody Record for
 Haley & Aldrich, Inc. Blanket Service Agreement #2015-18-TestAmerica

W07114436

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: DW NPDES RCRA Other:

H&A Project Manager: J. Grant
 Tel/Fax: 925-949-4412

TestAmerica Laboratories, Inc.
 COC No. of COCs

Client Contact
 2033 N. Main St. Suite #309
 Walnut Creek, CA 94596
 (925) 949-4412
 H&A Project Number: 128730-004
 Site: TOC Assemblages - 59 S. Autumn

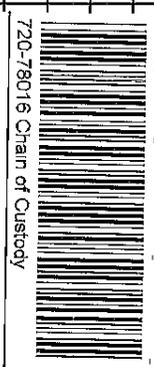
Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
 TAT if different from below: 5 DAY
 2 weeks
 1 week
 2 days
 1 day

Lab Contact: D. Sharma
 H&A Site Contact: B. Rumley
 Date: 3/21/17

Carrier:
 Sampler:
 For Lab Use Only:
 Walk-in Client:
 Lab Sampling:
 Job / SDG No.:

Therm ID No.:
 Date/Time: 3/21/17 1030
 Date/Time: 3/21/17 1830

Sample Identification	Sample Date	Sample Time	Sample Type (G-Comp, G-grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		TPH-g, -d, -mo by 8260B/8015B	VOCs by 8260B	PAHs by 8270C	CA Title 22 Metals by 8010B lab filter	PCBs by 8082
						Y	N	Y	N					
1 HA01-S0-0.5	3/21/17	0845	G	SOIL	4	X	X	X	X	X	X	X	X	X
2 HA01-S0-0.28		0930		SOIL	4	X	X	X	X	X	X	X	X	X
3 HA01-GW		1000		W	8	X	X	X	X	X	X	X	X	X
4 HA02-S0-0.5		1025		SOIL	4	X	X	X	X	X	X	X	X	X
5 HA02-S0-30		1115		SOIL	4	X	X	X	X	X	X	X	X	X
6 HA02-D0-24		1120		SOIL	4	X	X	X	X	X	X	X	X	X
7 HA03-S0-0.20		1315		SOIL	4	X	X	X	X	X	X	X	X	X
8 HA02-B04 GW		1215		W	8	X	X	X	X	X	X	X	X	X
9 HA03-S0-1.0		1345		SOIL	4	X	X	X	X	X	X	X	X	X
10 TB		-		W	3	X	X	X	X	X	X	X	X	X
11 HA03-GW		1400		W	20	X	X	X	X	X	X	X	X	X



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

Possible Hazard Identification:
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Sample Disposal

Return to Client Disposal by lab Archive for Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: Yes No

Cooler Temp. (°C): Obs'd: _____

1.6 °C

Relinquished by: [Signature]
 Relinquished by: [Signature]
 Relinquished by: [Signature]

Company: HHA
 Company: [Signature]
 Company: [Signature]

Date/Time: 3/21/17 1030
 Date/Time: 3/21/17 1830
 Date/Time: 3/21/17 1830

Company: [Signature]
 Company: [Signature]
 Company: [Signature]

Sharma, Dimple

From: Grant, Jason <JGrant@haleyaldrich.com>
Sent: Friday, March 03, 2017 2:11 PM
To: Sharma, Dimple
Cc: Rumley, Brooke
Subject: RE: TCC Assemblage

Dimple,

Please analyze TPHg and VOCs by 8260 without 5035. Also, before we drop Diesel and PAHs from the water analyses, is there no means to analyze diesel and PAHs from the polys? What kind of errors would this generate? Also, as I indicated in my earlier email, these samples are now being requested for a 48 hour TAT.

Thank you,

Jason

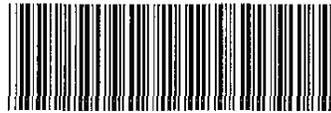
Jason Grant, P.E.
Senior Project Manager

Haley & Aldrich, Inc.
2033 North Main Street | Suite 309
Walnut Creek, California 94596

T: (925) 949.4412
C: (925) 250.1156

www.haleyaldrich.com

RUSH



720-78016 Chain of Custody

From: Sharma, Dimple [mailto:Dimple.Sharma@testamericainc.com]
Sent: Friday, March 03, 2017 1:52 PM
To: Grant, Jason <JGrant@haleyaldrich.com>; Rumley, Brooke <BRumley@haleyaldrich.com>
Subject: TCC Assemblage

Hi Jason,

We received these samples last night and we did not receive ambers for Diesel and PAHs for water samples. Also for the soil samples for VOCs the terracores voas don't have the tare weight stickers on them. It will prevent us to do the calculations for the volatiles.

Thanks.

Dimple Sharma
Senior Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

1220 Quarry Lane
Pleasanton, Ca 94566
Tel 925-484-1919

Sharma, Dimple

From: Grant, Jason <JGrant@haleyaldrich.com>
Sent: Friday, March 03, 2017 2:19 PM
To: Sharma, Dimple
Subject: RE: TCC Assemblage

Dimple,

Brooke does not recall taking off any labels from the VOAs, so I am not sure what happened there. Nonetheless we will try to be more careful next time. As these samples are not for a regulator, the normal 8260 should still be sufficient. (And this is what happens when the client provides last minute, rushed expectations.)

Hope your Friday ends well,

Jason

Jason Grant, P.E.
Senior Project Manager

Haley & Aldrich, Inc.
2033 North Main Street | Suite 309
Walnut Creek, California 94596

T: (925) 949.4412
C: (925) 250.1156

www.haleyaldrich.com

From: Sharma, Dimple [<mailto:Dimple.Sharma@testamericainc.com>]
Sent: Friday, March 03, 2017 1:52 PM
To: Grant, Jason <JGrant@haleyaldrich.com>; Rumley, Brooke <BRumley@haleyaldrich.com>
Subject: TCC Assemblage

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Thanks.

Dimple Sharma
Senior Project Manager

TestAmerica

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1220 Quarry Lane
Pleasanton, Ca 94566
Tel 925-484-1919
Fax 925-600-3002
www.testamericainc.com

720-78016

Sharma, Dimple

From: Grant, Jason <JGrant@haleyaldrich.com>
Sent: Friday, March 03, 2017 3:19 PM
To: Sharma, Dimple
Subject: RE: TCC Assemblage

Dimple,

Let's just go ahead with both diesel and PAHs. Sorry for the many emails, but it's been one of those Fridays...

Jason Grant, P.E.
Senior Project Manager

Haley & Aldrich, Inc.
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Walnut Creek, California 94596

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720-78016 Chain of Custody

From: Grant, Jason
Sent: Friday, March 03, 2017 3:00 PM
To: 'Sharma, Dimple' <Dimple.Sharma@testamericainc.com>
Subject: RE: TCC Assemblage

OK, let's move forward with diesel, but drop PAHs. I may need to just explain in the report what these results mean. As this is not regulatory driven, only an initial assessment, perhaps this may work.

Jason

Jason Grant, P.E.
Senior Project Manager

Haley & Aldrich, Inc.
2033 North Main Street | Suite 309
Walnut Creek, California 94596

T: (925) 949.4412
C: (925) 250.1156

www.haleyaldrich.com

From: Sharma, Dimple [<mailto:Dimple.Sharma@testamericainc.com>]
Sent: Friday, March 03, 2017 2:57 PM
To: Grant, Jason <JGrant@haleyaldrich.com>
Cc: Rumley, Brooke <BRumley@haleyaldrich.com>
Subject: RE: TCC Assemblage

It all depends how much phthalate will leach. It can be as high as 500 or as low as 100ppb in diesel range.

720-78016

Sharma, Dimple

From: Grant, Jason <JGrant@haleyaldrich.com>
Sent: Friday, March 03, 2017 3:19 PM
To: Sharma, Dimple
Subject: RE: TCC Assemblage

Dimple,

Let's just go ahead with both diesel and PAHs. Sorry for the many emails, but it's been one of those Fridays...

Jason Grant, P.E.
Senior Project Manager

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Walnut Creek, California 94596

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720-78016 Chain of Custody

From: Grant, Jason
Sent: Friday, March 03, 2017 3:00 PM
To: 'Sharma, Dimple' <Dimple.Sharma@testamericainc.com>
Subject: RE: TCC Assemblage

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Jason

Jason Grant, P.E.
Senior Project Manager

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T: (925) 949.4412
C: (925) 250.1156

www.haleyaldrich.com

From: Sharma, Dimple [<mailto:Dimple.Sharma@testamericainc.com>]
Sent: Friday, March 03, 2017 2:57 PM
To: Grant, Jason <JGrant@haleyaldrich.com>
Cc: Rumley, Brooke <BRumley@haleyaldrich.com>
Subject: RE: TCC Assemblage

It all depends how much phthalate will leach. It can be as high as 500 or as low as 100ppb in diesel range.

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM:		Carrier Tracking No(s):						
Client Contact: Shipping/Receiving		Sharma, Dimple		720-32866.1						
Company: TestAmerica Laboratories, Inc.		E-Mail: dimple.sharma@testamericainc.com		Page: Page 1 of 2						
Address: 880 Riverside Parkway, West Sacramento, CA, 95605		Phone: 916-373-5600(Tel) 916-372-1059(Fax)		Job #: 720-78016-1						
City: West Sacramento		State: CA		Accreditations Required (See note):						
State: CA		Zip: 95605		Preservation Codes:						
Phone: 916-373-5600(Tel) 916-372-1059(Fax)		Email:		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 M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - HZSO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)						
Project Name: TCC Assemblages		Project #: 72012469		Other:						
Site:		SSOW#:								
*LAB FILTERED IN PLEASANTON										
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=BIOSOL, ASH)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7471A/7471A_Prep Mercury Only	7470A/Filtration_ME Mercury Only	Total Number of Containers	Special Instructions/Note:
HA01-SO-0.5 (720-78016-1)	3/2/17	08:45 Pacific	Solid	Solid	X	X			1	
HA01-SO-28 (720-78016-2)	3/2/17	09:30 Pacific	Solid	Solid	X	X			1	
HA01-GW (720-78016-3)	3/2/17	10:00 Pacific	Water	Water			X		1	
HA02-SO-0.5 (720-78016-4)	3/2/17	10:25 Pacific	Solid	Solid	X	X			1	
HA02-SO-30 (720-78016-5)	3/2/17	11:15 Pacific	Solid	Solid	X	X			1	
HA02-SO-24 (720-78016-6)	3/2/17	11:20 Pacific	Solid	Solid	X	X			1	
HA03-SO-20 (720-78016-7)	3/2/17	13:15 Pacific	Solid	Solid	X	X			1	
HA02-GW (720-78016-8)	3/2/17	12:15 Pacific	Water	Water			X		1	
HA03-SO-1.0 (720-78016-9)	3/2/17	12:45 Pacific	Solid	Solid	X	X			1	

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.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

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/QC Requirements:

Empty Kit Relinquished by:	Date/Time	Company	Method of Shipment:
Relinquished by: [Signature]	3/17/17 15:15	Company	
Relinquished by: [Signature]	3-17-17 9:15	Company	
Relinquished by:		Company	

Cooler Temperature(s) °C and Other Remarks: 5.2



Chain of Custody Record

Client Information (Sub Contract Lab)		Lab PM: Sharma, Dimple		Carrier Tracking No(s): 720-32866.2	
Client Contact: Shipping/Receiving		E-Mail: dimple.sharma@testamericainc.com		State of Origin: California	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 720-78016-1	
Address: 880 Riverside Parkway		Due Date Requested: 3/7/2017		Preservation Codes:	
City: West Sacramento		TAT Requested (days):		M - Hexane	
State/Zip: CA, 95605		PO #:		N - None	
Phone: 916-373-5600(Tel) 916-372-1059(Fax)		WO #:		O - AsNaO2	
Email:		Project #:		D - Nitric Acid	
Project Name: TCC Assemblages		SSOW#:		E - NaHSO4	
Site:		Sample Date		R - Na2SO3	
Sample Identification - Client ID (Lab ID)		Sample Time		S - H2SO4	
HA03-GW (720-78016-11)		3/2/17 14:00 Pacific		T - TSP Dodecahydrate	
Sample Date		Sample Time		U - Acetone	
3/2/17		14:00 Pacific		V - MCAA	
Sample Time		Sample Date		W - pH 4-5	
14:00 Pacific		3/2/17		Z - other (specify)	
Sample Date		Sample Time		Other:	
3/2/17		14:00 Pacific			
Sample Time		Sample Date			
14:00 Pacific		3/2/17			
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Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-78016-1

Login Number: 78016

List Number: 1

Creator: Bullock, Tracy

List Source: TestAmerica Pleasanton

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	
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.	False	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
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	



Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-78016-1

Login Number: 78016
List Number: 2
Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento
List Creation: 03/04/17 10:22 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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	
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?	N/A	
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.	N/A	
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 Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-78050-1
Client Project/Site: TCC Assemblages

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Jason Grant



Authorized for release by:
3/13/2017 8:59:56 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

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results through
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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: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Job ID: 720-78050-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-78050-1

Comments

No additional comments.

Receipt

The samples were received on 3/3/2017 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

Receipt Exceptions

All Terra Core DI vials are missing the preweight labels for HA04-SO-0.5 and HA05-SO-0.5. Note both samples Methanol vials have their preweight labels. The VOCs were analyzed from the field jar per client request.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270C SIM: The following samples was diluted due to the abundance of non-target analytes: HA04-SO-0.5 (720-78050-1) and HA05-SO-0.5 (720-78050-2). 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.

GC Semi VOA

Method 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: HA04-SO-0.5 (720-78050-1), HA05-SO-0.5 (720-78050-2), (LCS 720-219007/2-A) and (MB 720-219007/1-A).

Method 8082: The following sample contained more than one Aroclor with insufficient separation to quantify individually. The PCBs present are quantified as the predominant Aroclor: HA04-SO-0.5 (720-78050-1) and HA05-SO-0.5 (720-78050-2).

Method 8015B: The following sample required a dilution due to the nature of the sample matrix: HA04-SO-0.5 (720-78050-1) and HA05-SO-0.5 (720-78050-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Metals

Method 6010B: The following sample was diluted due to the abundance of non-target analytes: HA04-SO-0.5 (720-78050-1) and HA05-SO-0.5 (720-78050-2). 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.

Organic Prep

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

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Client Sample ID: HA04-SO-0.5

Lab Sample ID: 720-78050-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	140		49	9.6	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	550		49	7.3	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	800		49	9.1	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	1200		49	11	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	570		49	21	ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	470		49	10	ug/Kg	2		8270C SIM	Total/NA
Chrysene	790		49	7.0	ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	150		49	17	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	1400		49	7.0	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	540		49	21	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	680		49	9.1	ug/Kg	2		8270C SIM	Total/NA
Pyrene	1100		49	8.2	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	580		9.9	3.4	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1400		490	5.7	mg/Kg	10		8015B	Total/NA
PCB-1260	58		49	5.2	ug/Kg	1		8082	Total/NA
Antimony	1.2		1.1	0.19	mg/Kg	4		6010B	Total/NA
Barium	95		1.1	0.16	mg/Kg	4		6010B	Total/NA
Beryllium	0.30		0.23	0.074	mg/Kg	4		6010B	Total/NA
Cadmium	2.8		0.28	0.028	mg/Kg	4		6010B	Total/NA
Chromium	540		1.1	0.12	mg/Kg	4		6010B	Total/NA
Cobalt	36		0.45	0.045	mg/Kg	4		6010B	Total/NA
Copper	82		3.4	1.6	mg/Kg	4		6010B	Total/NA
Lead	210		1.1	0.24	mg/Kg	4		6010B	Total/NA
Nickel	700		1.1	0.12	mg/Kg	4		6010B	Total/NA
Vanadium	26		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	3400		3.4	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.21		0.036	0.0078	mg/Kg	1		7471A	Total/NA

Client Sample ID: HA05-SO-0.5

Lab Sample ID: 720-78050-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	72		50	7.4	ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	130		50	9.2	ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	370		50	11	ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	640		50	21	ug/Kg	2		8270C SIM	Total/NA
Chrysene	93		50	7.1	ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	100		50	7.0	ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	210		50	21	ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	57		50	9.2	ug/Kg	2		8270C SIM	Total/NA
Pyrene	94		50	8.3	ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	510		9.9	3.4	mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1400		500	5.7	mg/Kg	10		8015B	Total/NA
PCB-1260	110		49	5.2	ug/Kg	1		8082	Total/NA
Barium	59		1.1	0.15	mg/Kg	4		6010B	Total/NA
Beryllium	0.22		0.22	0.070	mg/Kg	4		6010B	Total/NA
Cadmium	1.1		0.27	0.027	mg/Kg	4		6010B	Total/NA
Chromium	130		1.1	0.11	mg/Kg	4		6010B	Total/NA
Cobalt	15		0.43	0.043	mg/Kg	4		6010B	Total/NA
Copper	48		3.2	1.5	mg/Kg	4		6010B	Total/NA
Lead	920		1.1	0.23	mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Client Sample ID: HA05-SO-0.5 (Continued)

Lab Sample ID: 720-78050-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	260		1.1	0.11	mg/Kg	4		6010B	Total/NA
Vanadium	16		1.1	0.15	mg/Kg	4		6010B	Total/NA
Zinc	430		3.2	1.4	mg/Kg	4		6010B	Total/NA
Mercury	0.15		0.037	0.0079	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

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Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Client Sample ID: HA04-SO-0.5

Lab Sample ID: 720-78050-1

Date Collected: 03/03/17 08:10

Matrix: Solid

Date Received: 03/03/17 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8	1.2	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Acetone	ND		48	37	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Benzene	ND		4.8	0.62	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Dichlorobromomethane	ND		4.8	0.69	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Bromobenzene	ND		4.8	0.76	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Chlorobromomethane	ND		19	0.69	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Bromoform	ND		4.8	1.9	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Bromomethane	ND		9.6	0.76	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
2-Butanone (MEK)	ND		48	20	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
n-Butylbenzene	ND		4.8	0.96	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
sec-Butylbenzene	ND		4.8	0.69	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
tert-Butylbenzene	ND		4.8	0.70	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Carbon disulfide	ND		4.8	1.9	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Carbon tetrachloride	ND		4.8	0.60	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Chlorobenzene	ND		4.8	0.66	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Chloroethane	ND		9.6	0.54	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Chloroform	ND		4.8	0.63	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Chloromethane	ND		9.6	0.69	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
2-Chlorotoluene	ND		4.8	0.62	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
4-Chlorotoluene	ND		4.8	0.65	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Chlorodibromomethane	ND		4.8	0.68	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,2-Dichlorobenzene	ND		4.8	0.65	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,3-Dichlorobenzene	ND		4.8	0.69	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,4-Dichlorobenzene	ND		4.8	0.68	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,3-Dichloropropane	ND		4.8	0.70	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,1-Dichloropropene	ND		4.8	0.66	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,2-Dibromo-3-Chloropropane	ND		9.6	1.6	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Ethylene Dibromide	ND		4.8	1.4	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Dibromomethane	ND		9.6	0.83	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Dichlorodifluoromethane	ND		9.6	0.76	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,1-Dichloroethane	ND		4.8	0.65	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,2-Dichloroethane	ND		4.8	0.73	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,1-Dichloroethene	ND		4.8	0.60	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
cis-1,2-Dichloroethene	ND		4.8	0.65	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
trans-1,2-Dichloroethene	ND		4.8	0.72	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,2-Dichloropropane	ND		4.8	0.61	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
cis-1,3-Dichloropropene	ND		4.8	0.66	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
trans-1,3-Dichloropropene	ND		4.8	0.64	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Ethylbenzene	ND		4.8	0.72	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Hexachlorobutadiene	ND		4.8	0.87	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
2-Hexanone	ND		48	9.6	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Isopropylbenzene	ND		4.8	0.65	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
4-Isopropyltoluene	ND		4.8	2.4	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Methylene Chloride	ND		9.6	3.8	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
4-Methyl-2-pentanone (MIBK)	ND		48	9.6	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Naphthalene	ND		9.6	1.4	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
N-Propylbenzene	ND		4.8	0.63	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Styrene	ND		4.8	0.61	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,1,1,2-Tetrachloroethane	ND		4.8	0.73	ug/Kg		03/06/17 20:42	03/11/17 19:49	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Client Sample ID: HA04-SO-0.5

Lab Sample ID: 720-78050-1

Date Collected: 03/03/17 08:10

Matrix: Solid

Date Received: 03/03/17 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8	0.72	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Tetrachloroethene	ND		4.8	0.64	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Toluene	ND		4.8	0.68	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,2,3-Trichlorobenzene	ND		4.8	0.71	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,2,4-Trichlorobenzene	ND		4.8	0.68	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,1,1-Trichloroethane	ND		4.8	0.59	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,1,2-Trichloroethane	ND		4.8	0.67	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Trichloroethene	ND		4.8	0.61	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Trichlorofluoromethane	ND		4.8	0.54	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,2,3-Trichloropropane	ND		4.8	0.74	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8	2.0	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,2,4-Trimethylbenzene	ND		4.8	1.6	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
1,3,5-Trimethylbenzene	ND		4.8	0.62	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Vinyl acetate	ND		19	4.8	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Vinyl chloride	ND		4.8	0.70	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Xylenes, Total	ND		9.6	1.2	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
2,2-Dichloropropane	ND		4.8	1.9	ug/Kg		03/06/17 20:42	03/11/17 19:49	1
Gasoline Range Organics (GRO) -C5-C12	ND		240	96	ug/Kg		03/06/17 20:42	03/11/17 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	91		45 - 131	03/06/17 20:42	03/11/17 19:49	1
1,2-Dichloroethane-d4 (Surr)	127		60 - 140	03/06/17 20:42	03/11/17 19:49	1
Toluene-d8 (Surr)	105		58 - 140	03/06/17 20:42	03/11/17 19:49	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		49	14	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Acenaphthylene	ND		49	12	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Anthracene	140		49	9.6	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Benzo[a]anthracene	550		49	7.3	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Benzo[a]pyrene	800		49	9.1	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Benzo[b]fluoranthene	1200		49	11	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Benzo[g,h,i]perylene	570		49	21	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Benzo[k]fluoranthene	470		49	10	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Chrysene	790		49	7.0	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Dibenz(a,h)anthracene	150		49	17	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Fluoranthene	1400		49	7.0	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Fluorene	ND		49	11	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Indeno[1,2,3-cd]pyrene	540		49	21	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Naphthalene	ND		49	17	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Phenanthrene	680		49	9.1	ug/Kg		03/09/17 10:27	03/09/17 21:11	2
Pyrene	1100		49	8.2	ug/Kg		03/09/17 10:27	03/09/17 21:11	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		33 - 120	03/09/17 10:27	03/09/17 21:11	2
Terphenyl-d14	75		35 - 146	03/09/17 10:27	03/09/17 21:11	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	580		9.9	3.4	mg/Kg		03/09/17 14:48	03/09/17 23:33	10

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Client Sample ID: HA04-SO-0.5

Lab Sample ID: 720-78050-1

Date Collected: 03/03/17 08:10

Matrix: Solid

Date Received: 03/03/17 15:30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	1400		490	5.7	mg/Kg		03/09/17 14:48	03/09/17 23:33	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>p-Terphenyl</i>	0	X D	40 - 130				03/09/17 14:48	03/09/17 23:33	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49	1.8	ug/Kg		03/09/17 10:30	03/10/17 02:33	1
PCB-1221	ND		49	1.8	ug/Kg		03/09/17 10:30	03/10/17 02:33	1
PCB-1232	ND		49	1.8	ug/Kg		03/09/17 10:30	03/10/17 02:33	1
PCB-1242	ND		49	1.8	ug/Kg		03/09/17 10:30	03/10/17 02:33	1
PCB-1248	ND		49	1.8	ug/Kg		03/09/17 10:30	03/10/17 02:33	1
PCB-1254	ND		49	1.8	ug/Kg		03/09/17 10:30	03/10/17 02:33	1
PCB-1260	58		49	5.2	ug/Kg		03/09/17 10:30	03/10/17 02:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	99		45 - 132				03/09/17 10:30	03/10/17 02:33	1
<i>DCB Decachlorobiphenyl</i>	76		42 - 146				03/09/17 10:30	03/10/17 02:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.1	0.19	mg/Kg		03/07/17 12:08	03/07/17 22:41	4
Arsenic	ND		2.3	0.19	mg/Kg		03/07/17 12:08	03/07/17 22:41	4
Barium	95		1.1	0.16	mg/Kg		03/07/17 12:08	03/07/17 22:41	4
Beryllium	0.30		0.23	0.074	mg/Kg		03/07/17 12:08	03/07/17 22:41	4
Cadmium	2.8		0.28	0.028	mg/Kg		03/07/17 12:08	03/07/17 22:41	4
Chromium	540		1.1	0.12	mg/Kg		03/07/17 12:08	03/07/17 22:41	4
Cobalt	36		0.45	0.045	mg/Kg		03/07/17 12:08	03/07/17 22:41	4
Copper	82		3.4	1.6	mg/Kg		03/07/17 12:08	03/07/17 22:41	4
Lead	210		1.1	0.24	mg/Kg		03/07/17 12:08	03/07/17 22:41	4
Molybdenum	ND		1.1	0.15	mg/Kg		03/07/17 12:08	03/07/17 22:41	4
Nickel	700		1.1	0.12	mg/Kg		03/07/17 12:08	03/07/17 22:41	4
Selenium	ND		2.3	0.34	mg/Kg		03/07/17 12:08	03/07/17 22:41	4
Silver	ND		0.57	0.11	mg/Kg		03/07/17 12:08	03/07/17 22:41	4
Thallium	ND		1.1	0.33	mg/Kg		03/07/17 12:08	03/07/17 22:41	4
Vanadium	26		1.1	0.15	mg/Kg		03/07/17 12:08	03/08/17 19:22	4
Zinc	3400		3.4	1.4	mg/Kg		03/07/17 12:08	03/07/17 22:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.21		0.036	0.0078	mg/Kg		03/09/17 14:50	03/10/17 09:42	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Client Sample ID: HA05-SO-0.5

Lab Sample ID: 720-78050-2

Date Collected: 03/03/17 08:15

Matrix: Solid

Date Received: 03/03/17 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9	1.2	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Acetone	ND		49	37	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Benzene	ND		4.9	0.64	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Dichlorobromomethane	ND		4.9	0.71	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Bromobenzene	ND		4.9	0.77	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Chlorobromomethane	ND		20	0.71	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Bromoform	ND		4.9	2.0	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Bromomethane	ND		9.8	0.77	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
2-Butanone (MEK)	ND		49	21	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
n-Butylbenzene	ND		4.9	0.98	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
sec-Butylbenzene	ND		4.9	0.71	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
tert-Butylbenzene	ND		4.9	0.72	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Carbon disulfide	ND		4.9	2.0	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Carbon tetrachloride	ND		4.9	0.61	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Chlorobenzene	ND		4.9	0.68	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Chloroethane	ND		9.8	0.55	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Chloroform	ND		4.9	0.65	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Chloromethane	ND		9.8	0.71	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
2-Chlorotoluene	ND		4.9	0.64	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
4-Chlorotoluene	ND		4.9	0.67	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Chlorodibromomethane	ND		4.9	0.70	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,2-Dichlorobenzene	ND		4.9	0.67	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,3-Dichlorobenzene	ND		4.9	0.71	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,4-Dichlorobenzene	ND		4.9	0.70	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,3-Dichloropropane	ND		4.9	0.72	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,1-Dichloropropene	ND		4.9	0.68	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,2-Dibromo-3-Chloropropane	ND		9.8	1.7	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Ethylene Dibromide	ND		4.9	1.4	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Dibromomethane	ND		9.8	0.84	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Dichlorodifluoromethane	ND		9.8	0.77	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,1-Dichloroethane	ND		4.9	0.67	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,2-Dichloroethane	ND		4.9	0.75	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,1-Dichloroethene	ND		4.9	0.61	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
cis-1,2-Dichloroethene	ND		4.9	0.67	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
trans-1,2-Dichloroethene	ND		4.9	0.74	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,2-Dichloropropane	ND		4.9	0.62	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
cis-1,3-Dichloropropene	ND		4.9	0.68	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
trans-1,3-Dichloropropene	ND		4.9	0.66	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Ethylbenzene	ND		4.9	0.74	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Hexachlorobutadiene	ND		4.9	0.88	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
2-Hexanone	ND		49	9.8	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Isopropylbenzene	ND		4.9	0.67	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
4-Isopropyltoluene	ND		4.9	2.5	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Methylene Chloride	ND		9.8	3.9	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
4-Methyl-2-pentanone (MIBK)	ND		49	9.8	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Naphthalene	ND		9.8	1.5	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
N-Propylbenzene	ND		4.9	0.65	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Styrene	ND		4.9	0.62	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,1,1,2-Tetrachloroethane	ND		4.9	0.75	ug/Kg		03/06/17 20:42	03/11/17 20:17	1

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Client Sample ID: HA05-SO-0.5

Lab Sample ID: 720-78050-2

Date Collected: 03/03/17 08:15

Matrix: Solid

Date Received: 03/03/17 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9	0.74	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Tetrachloroethene	ND		4.9	0.66	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Toluene	ND		4.9	0.70	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,2,3-Trichlorobenzene	ND		4.9	0.73	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,2,4-Trichlorobenzene	ND		4.9	0.70	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,1,1-Trichloroethane	ND		4.9	0.60	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,1,2-Trichloroethane	ND		4.9	0.69	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Trichloroethene	ND		4.9	0.62	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Trichlorofluoromethane	ND		4.9	0.55	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,2,3-Trichloropropane	ND		4.9	0.75	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	2.0	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,2,4-Trimethylbenzene	ND		4.9	1.6	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
1,3,5-Trimethylbenzene	ND		4.9	0.64	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Vinyl acetate	ND		20	4.9	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Vinyl chloride	ND		4.9	0.72	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Xylenes, Total	ND		9.8	1.2	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
2,2-Dichloropropane	ND		4.9	2.0	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Gasoline Range Organics (GRO) -C5-C12	ND		250	98	ug/Kg		03/06/17 20:42	03/11/17 20:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		45 - 131				03/06/17 20:42	03/11/17 20:17	1
1,2-Dichloroethane-d4 (Surr)	123		60 - 140				03/06/17 20:42	03/11/17 20:17	1
Toluene-d8 (Surr)	105		58 - 140				03/06/17 20:42	03/11/17 20:17	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		50	14	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Acenaphthylene	ND		50	12	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Anthracene	ND		50	9.7	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Benzo[a]anthracene	72		50	7.4	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Benzo[a]pyrene	130		50	9.2	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Benzo[b]fluoranthene	370		50	11	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Benzo[g,h,i]perylene	640		50	21	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Benzo[k]fluoranthene	ND		50	10	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Chrysene	93		50	7.1	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Dibenz(a,h)anthracene	ND		50	18	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Fluoranthene	100		50	7.0	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Fluorene	ND		50	11	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Indeno[1,2,3-cd]pyrene	210		50	21	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Naphthalene	ND		50	18	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Phenanthrene	57		50	9.2	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Pyrene	94		50	8.3	ug/Kg		03/09/17 10:27	03/09/17 21:34	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		33 - 120				03/09/17 10:27	03/09/17 21:34	2
Terphenyl-d14	81		35 - 146				03/09/17 10:27	03/09/17 21:34	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	510		9.9	3.4	mg/Kg		03/09/17 15:00	03/09/17 22:34	10

TestAmerica Pleasanton

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Client Sample ID: HA05-SO-0.5

Lab Sample ID: 720-78050-2

Date Collected: 03/03/17 08:15

Matrix: Solid

Date Received: 03/03/17 15:30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	1400		500	5.7	mg/Kg		03/09/17 15:00	03/09/17 22:34	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>p-Terphenyl</i>	0	X D	40 - 130				03/09/17 15:00	03/09/17 22:34	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49	1.8	ug/Kg		03/09/17 10:30	03/10/17 02:50	1
PCB-1221	ND		49	1.8	ug/Kg		03/09/17 10:30	03/10/17 02:50	1
PCB-1232	ND		49	1.8	ug/Kg		03/09/17 10:30	03/10/17 02:50	1
PCB-1242	ND		49	1.8	ug/Kg		03/09/17 10:30	03/10/17 02:50	1
PCB-1248	ND		49	1.8	ug/Kg		03/09/17 10:30	03/10/17 02:50	1
PCB-1254	ND		49	1.8	ug/Kg		03/09/17 10:30	03/10/17 02:50	1
PCB-1260	110		49	5.2	ug/Kg		03/09/17 10:30	03/10/17 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	110		45 - 132				03/09/17 10:30	03/10/17 02:50	1
<i>DCB Decachlorobiphenyl</i>	74		42 - 146				03/09/17 10:30	03/10/17 02:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.1	0.18	mg/Kg		03/07/17 12:08	03/07/17 22:46	4
Arsenic	ND		2.2	0.18	mg/Kg		03/07/17 12:08	03/07/17 22:46	4
Barium	59		1.1	0.15	mg/Kg		03/07/17 12:08	03/07/17 22:46	4
Beryllium	0.22		0.22	0.070	mg/Kg		03/07/17 12:08	03/07/17 22:46	4
Cadmium	1.1		0.27	0.027	mg/Kg		03/07/17 12:08	03/07/17 22:46	4
Chromium	130		1.1	0.11	mg/Kg		03/07/17 12:08	03/07/17 22:46	4
Cobalt	15		0.43	0.043	mg/Kg		03/07/17 12:08	03/07/17 22:46	4
Copper	48		3.2	1.5	mg/Kg		03/07/17 12:08	03/07/17 22:46	4
Lead	920		1.1	0.23	mg/Kg		03/07/17 12:08	03/07/17 22:46	4
Molybdenum	ND		1.1	0.14	mg/Kg		03/07/17 12:08	03/07/17 22:46	4
Nickel	260		1.1	0.11	mg/Kg		03/07/17 12:08	03/07/17 22:46	4
Selenium	ND		2.2	0.32	mg/Kg		03/07/17 12:08	03/07/17 22:46	4
Silver	ND		0.54	0.11	mg/Kg		03/07/17 12:08	03/07/17 22:46	4
Thallium	ND		1.1	0.31	mg/Kg		03/07/17 12:08	03/07/17 22:46	4
Vanadium	16		1.1	0.15	mg/Kg		03/07/17 12:08	03/08/17 19:27	4
Zinc	430		3.2	1.4	mg/Kg		03/07/17 12:08	03/07/17 22:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.037	0.0079	mg/Kg		03/09/17 14:50	03/10/17 09:44	1

TestAmerica Pleasanton

Surrogate Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (45-131)	12DCE (60-140)	TOL (58-140)
720-78050-1	HA04-SO-0.5	91	127	105
720-78050-2	HA05-SO-0.5	97	123	105

Surrogate Legend

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

Method: 8270C SIM - PAHs by GCMS (SIM)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		FBP (33-120)	TPH (35-146)
720-78050-1	HA04-SO-0.5	84	75
720-78050-2	HA05-SO-0.5	92	81
LCS 720-219006/2-A	Lab Control Sample	88	101
MB 720-219006/1-A	Method Blank	91	109

Surrogate Legend

FBP = 2-Fluorobiphenyl
TPH = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		PTP1 (40-130)
720-78050-1	HA04-SO-0.5	0 X D
720-78050-2	HA05-SO-0.5	0 X D
LCS 720-219000/2-A	Lab Control Sample	115
LCS 720-219035/2-A	Lab Control Sample	103
MB 720-219000/1-A	Method Blank	103
MB 720-219035/1-A	Method Blank	98

Surrogate Legend

PTP = p-Terphenyl

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (45-132)	DCB1 (42-146)
720-78050-1	HA04-SO-0.5	99	76
720-78050-2	HA05-SO-0.5	110	74
LCS 720-219007/2-A	Lab Control Sample	81	99
MB 720-219007/1-A	Method Blank	83	97

Surrogate Legend

TestAmerica Pleasanton

Surrogate Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

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QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-219006/1-A

Matrix: Solid

Analysis Batch: 219057

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 219006

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0	1.4	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Acenaphthylene	ND		5.0	1.2	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Anthracene	ND		5.0	0.98	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Benzo[a]anthracene	ND		5.0	0.74	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Benzo[a]pyrene	ND		5.0	0.93	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Benzo[b]fluoranthene	ND		5.0	1.1	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Benzo[g,h,i]perylene	ND		5.0	2.1	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Benzo[k]fluoranthene	ND		5.0	1.0	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Chrysene	ND		5.0	0.71	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Dibenz(a,h)anthracene	ND		5.0	1.8	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Fluoranthene	ND		5.0	0.71	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Fluorene	ND		5.0	1.1	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Indeno[1,2,3-cd]pyrene	ND		5.0	2.1	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Naphthalene	ND		5.0	1.8	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Phenanthrene	ND		5.0	0.92	ug/Kg		03/09/17 10:27	03/09/17 18:49	1
Pyrene	ND		5.0	0.83	ug/Kg		03/09/17 10:27	03/09/17 18:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		33 - 120	03/09/17 10:27	03/09/17 18:49	1
Terphenyl-d14	109		35 - 146	03/09/17 10:27	03/09/17 18:49	1

Lab Sample ID: LCS 720-219006/2-A

Matrix: Solid

Analysis Batch: 219057

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 219006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	333	310		ug/Kg		93	43 - 120
Acenaphthylene	333	299		ug/Kg		90	46 - 120
Anthracene	333	315		ug/Kg		94	55 - 120
Benzo[a]anthracene	333	292		ug/Kg		88	65 - 120
Benzo[a]pyrene	333	317		ug/Kg		95	62 - 120
Benzo[b]fluoranthene	333	292		ug/Kg		88	60 - 120
Benzo[g,h,i]perylene	333	317		ug/Kg		95	42 - 120
Benzo[k]fluoranthene	333	333		ug/Kg		100	63 - 120
Chrysene	333	301		ug/Kg		90	54 - 120
Dibenz(a,h)anthracene	333	316		ug/Kg		95	51 - 120
Fluoranthene	333	313		ug/Kg		94	59 - 120
Fluorene	333	306		ug/Kg		92	47 - 120
Indeno[1,2,3-cd]pyrene	333	320		ug/Kg		96	50 - 120
Naphthalene	333	267		ug/Kg		80	42 - 120
Phenanthrene	333	280		ug/Kg		84	51 - 120
Pyrene	333	308		ug/Kg		92	58 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	88		33 - 120
Terphenyl-d14	101		35 - 146

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-219000/1-A

Matrix: Solid

Analysis Batch: 218997

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 219000

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.34	mg/Kg		03/09/17 08:40	03/09/17 13:28	1
Motor Oil Range Organics [C24-C36]	ND		50	0.58	mg/Kg		03/09/17 08:40	03/09/17 13:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	103		40 - 130	03/09/17 08:40	03/09/17 13:28	1

Lab Sample ID: LCS 720-219000/2-A

Matrix: Solid

Analysis Batch: 218997

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 219000

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.3	88.4		mg/Kg		106	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	115		40 - 130

Lab Sample ID: MB 720-219035/1-A

Matrix: Solid

Analysis Batch: 218993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 219035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0	0.34	mg/Kg		03/09/17 14:48	03/09/17 22:34	1
Motor Oil Range Organics [C24-C36]	ND		50	0.58	mg/Kg		03/09/17 14:48	03/09/17 22:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	98		40 - 130	03/09/17 14:48	03/09/17 22:34	1

Lab Sample ID: LCS 720-219035/2-A

Matrix: Solid

Analysis Batch: 218993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 219035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.3	75.3		mg/Kg		90	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	103		40 - 130

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

Lab Sample ID: MB 720-219007/1-A

Matrix: Solid

Analysis Batch: 218999

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 219007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50	1.8	ug/Kg		03/09/17 10:30	03/09/17 22:57	1

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

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

Lab Sample ID: MB 720-219007/1-A

Matrix: Solid

Analysis Batch: 218999

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 219007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		50	1.8	ug/Kg		03/09/17 10:30	03/09/17 22:57	1
PCB-1232	ND		50	1.8	ug/Kg		03/09/17 10:30	03/09/17 22:57	1
PCB-1242	ND		50	1.8	ug/Kg		03/09/17 10:30	03/09/17 22:57	1
PCB-1248	ND		50	1.8	ug/Kg		03/09/17 10:30	03/09/17 22:57	1
PCB-1254	ND		50	1.8	ug/Kg		03/09/17 10:30	03/09/17 22:57	1
PCB-1260	ND		50	5.3	ug/Kg		03/09/17 10:30	03/09/17 22:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		45 - 132	03/09/17 10:30	03/09/17 22:57	1
DCB Decachlorobiphenyl	97		42 - 146	03/09/17 10:30	03/09/17 22:57	1

Lab Sample ID: LCS 720-219007/2-A

Matrix: Solid

Analysis Batch: 218999

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 219007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	133	114		ug/Kg		86	65 - 121
PCB-1260	133	122		ug/Kg		91	68 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	81		45 - 132
DCB Decachlorobiphenyl	99		42 - 146

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-218864/1-A

Matrix: Solid

Analysis Batch: 218951

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 218864

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50	0.083	mg/Kg		03/07/17 12:08	03/07/17 21:51	1
Arsenic	ND		1.0	0.085	mg/Kg		03/07/17 12:08	03/07/17 21:51	1
Barium	ND		0.50	0.071	mg/Kg		03/07/17 12:08	03/07/17 21:51	1
Beryllium	ND		0.10	0.033	mg/Kg		03/07/17 12:08	03/07/17 21:51	1
Cadmium	ND		0.13	0.012	mg/Kg		03/07/17 12:08	03/07/17 21:51	1
Chromium	ND		0.50	0.053	mg/Kg		03/07/17 12:08	03/07/17 21:51	1
Cobalt	ND		0.20	0.020	mg/Kg		03/07/17 12:08	03/07/17 21:51	1
Copper	ND		1.5	0.71	mg/Kg		03/07/17 12:08	03/07/17 21:51	1
Lead	ND		0.50	0.11	mg/Kg		03/07/17 12:08	03/07/17 21:51	1
Molybdenum	ND		0.50	0.064	mg/Kg		03/07/17 12:08	03/07/17 21:51	1
Nickel	ND		0.50	0.051	mg/Kg		03/07/17 12:08	03/07/17 21:51	1
Selenium	ND		1.0	0.15	mg/Kg		03/07/17 12:08	03/07/17 21:51	1
Silver	ND		0.25	0.051	mg/Kg		03/07/17 12:08	03/07/17 21:51	1
Thallium	ND		0.50	0.15	mg/Kg		03/07/17 12:08	03/07/17 21:51	1
Zinc	ND		1.5	0.64	mg/Kg		03/07/17 12:08	03/07/17 21:51	1

TestAmerica Pleasanton

QC Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

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

Lab Sample ID: MB 720-218864/1-A
Matrix: Solid
Analysis Batch: 218989

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218864

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.50	0.068	mg/Kg		03/07/17 12:08	03/08/17 18:43	1

Lab Sample ID: LCS 720-218864/2-A
Matrix: Solid
Analysis Batch: 218951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	43.2		mg/Kg		86	80 - 120
Arsenic	50.0	44.2		mg/Kg		88	80 - 120
Barium	50.0	45.1		mg/Kg		90	80 - 120
Beryllium	50.0	45.2		mg/Kg		90	80 - 120
Cadmium	50.0	44.1		mg/Kg		88	80 - 120
Chromium	50.0	44.5		mg/Kg		89	80 - 120
Cobalt	50.0	45.4		mg/Kg		91	80 - 120
Copper	50.0	45.6		mg/Kg		91	80 - 120
Lead	50.0	45.6		mg/Kg		91	80 - 120
Molybdenum	50.0	45.2		mg/Kg		90	80 - 120
Nickel	50.0	45.1		mg/Kg		90	80 - 120
Selenium	50.0	43.4		mg/Kg		87	80 - 120
Silver	25.0	22.1		mg/Kg		88	80 - 120
Thallium	50.0	45.5		mg/Kg		91	80 - 120
Zinc	50.0	44.3		mg/Kg		89	80 - 120

Lab Sample ID: LCS 720-218864/2-A
Matrix: Solid
Analysis Batch: 218989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	50.0	43.3		mg/Kg		87	80 - 120

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 320-154141/11-A
Matrix: Solid
Analysis Batch: 154344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 154141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.040	0.0086	mg/Kg		03/09/17 14:50	03/10/17 08:57	1

Lab Sample ID: LCS 320-154141/12-A
Matrix: Solid
Analysis Batch: 154344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 154141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.169		mg/Kg		101	86 - 114

TestAmerica Pleasanton

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

GC/MS VOA

Prep Batch: 218842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-1	HA04-SO-0.5	Total/NA	Solid	5030B	
720-78050-2	HA05-SO-0.5	Total/NA	Solid	5030B	

Analysis Batch: 219162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-1	HA04-SO-0.5	Total/NA	Solid	8260B	218842
720-78050-2	HA05-SO-0.5	Total/NA	Solid	8260B	218842

GC/MS Semi VOA

Prep Batch: 219006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-1	HA04-SO-0.5	Total/NA	Solid	3546	
720-78050-2	HA05-SO-0.5	Total/NA	Solid	3546	
MB 720-219006/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-219006/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 219057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-1	HA04-SO-0.5	Total/NA	Solid	8270C SIM	219006
720-78050-2	HA05-SO-0.5	Total/NA	Solid	8270C SIM	219006
MB 720-219006/1-A	Method Blank	Total/NA	Solid	8270C SIM	219006
LCS 720-219006/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	219006

GC Semi VOA

Analysis Batch: 218993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-219035/1-A	Method Blank	Total/NA	Solid	8015B	219035
LCS 720-219035/2-A	Lab Control Sample	Total/NA	Solid	8015B	219035

Analysis Batch: 218995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-1	HA04-SO-0.5	Total/NA	Solid	8015B	219035
720-78050-2	HA05-SO-0.5	Total/NA	Solid	8015B	219000

Analysis Batch: 218997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-219000/1-A	Method Blank	Total/NA	Solid	8015B	219000
LCS 720-219000/2-A	Lab Control Sample	Total/NA	Solid	8015B	219000

Analysis Batch: 218999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-1	HA04-SO-0.5	Total/NA	Solid	8082	219007
720-78050-2	HA05-SO-0.5	Total/NA	Solid	8082	219007
MB 720-219007/1-A	Method Blank	Total/NA	Solid	8082	219007
LCS 720-219007/2-A	Lab Control Sample	Total/NA	Solid	8082	219007

TestAmerica Pleasanton

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

GC Semi VOA (Continued)

Prep Batch: 219000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-2	HA05-SO-0.5	Total/NA	Solid	3546	
MB 720-219000/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-219000/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 219007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-1	HA04-SO-0.5	Total/NA	Solid	3546	
720-78050-2	HA05-SO-0.5	Total/NA	Solid	3546	
MB 720-219007/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-219007/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 219035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-1	HA04-SO-0.5	Total/NA	Solid	3546	
MB 720-219035/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-219035/2-A	Lab Control Sample	Total/NA	Solid	3546	

Metals

Prep Batch: 154141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-1	HA04-SO-0.5	Total/NA	Solid	7471A	
720-78050-2	HA05-SO-0.5	Total/NA	Solid	7471A	
MB 320-154141/11-A	Method Blank	Total/NA	Solid	7471A	
LCS 320-154141/12-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 154344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-1	HA04-SO-0.5	Total/NA	Solid	7471A	154141
720-78050-2	HA05-SO-0.5	Total/NA	Solid	7471A	154141
MB 320-154141/11-A	Method Blank	Total/NA	Solid	7471A	154141
LCS 320-154141/12-A	Lab Control Sample	Total/NA	Solid	7471A	154141

Prep Batch: 218864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-1	HA04-SO-0.5	Total/NA	Solid	3050B	
720-78050-2	HA05-SO-0.5	Total/NA	Solid	3050B	
MB 720-218864/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-218864/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 218951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-1	HA04-SO-0.5	Total/NA	Solid	6010B	218864
720-78050-2	HA05-SO-0.5	Total/NA	Solid	6010B	218864
MB 720-218864/1-A	Method Blank	Total/NA	Solid	6010B	218864
LCS 720-218864/2-A	Lab Control Sample	Total/NA	Solid	6010B	218864

Analysis Batch: 218989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-1	HA04-SO-0.5	Total/NA	Solid	6010B	218864

TestAmerica Pleasanton

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Metals (Continued)

Analysis Batch: 218989 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-78050-2	HA05-SO-0.5	Total/NA	Solid	6010B	218864
MB 720-218864/1-A	Method Blank	Total/NA	Solid	6010B	218864
LCS 720-218864/2-A	Lab Control Sample	Total/NA	Solid	6010B	218864

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Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Client Sample ID: HA04-SO-0.5

Lab Sample ID: 720-78050-1

Date Collected: 03/03/17 08:10

Matrix: Solid

Date Received: 03/03/17 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			218842	03/06/17 20:42	CTD	TAL PLS
Total/NA	Analysis	8260B		1	219162	03/11/17 19:49	JRM	TAL PLS
Total/NA	Prep	3546			219006	03/09/17 10:27	RAC	TAL PLS
Total/NA	Analysis	8270C SIM		2	219057	03/09/17 21:11	MQL	TAL PLS
Total/NA	Prep	3546			219035	03/09/17 14:48	NAW	TAL PLS
Total/NA	Analysis	8015B		10	218995	03/09/17 23:33	JXL	TAL PLS
Total/NA	Prep	3546			219007	03/09/17 10:30	JEV	TAL PLS
Total/NA	Analysis	8082		1	218999	03/10/17 02:33	DCH	TAL PLS
Total/NA	Prep	3050B			218864	03/07/17 12:08	BRB	TAL PLS
Total/NA	Analysis	6010B		4	218951	03/07/17 22:41	ASB	TAL PLS
Total/NA	Prep	3050B			218864	03/07/17 12:08	BRB	TAL PLS
Total/NA	Analysis	6010B		4	218989	03/08/17 19:22	ASB	TAL PLS
Total/NA	Prep	7471A			154141	03/09/17 14:50	GSH	TAL SAC
Total/NA	Analysis	7471A		1	154344	03/10/17 09:42	GSH	TAL SAC

Client Sample ID: HA05-SO-0.5

Lab Sample ID: 720-78050-2

Date Collected: 03/03/17 08:15

Matrix: Solid

Date Received: 03/03/17 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			218842	03/06/17 20:42	CTD	TAL PLS
Total/NA	Analysis	8260B		1	219162	03/11/17 20:17	JRM	TAL PLS
Total/NA	Prep	3546			219006	03/09/17 10:27	RAC	TAL PLS
Total/NA	Analysis	8270C SIM		2	219057	03/09/17 21:34	MQL	TAL PLS
Total/NA	Prep	3546			219000	03/09/17 15:00	TTC	TAL PLS
Total/NA	Analysis	8015B		10	218995	03/09/17 22:34	JXL	TAL PLS
Total/NA	Prep	3546			219007	03/09/17 10:30	JEV	TAL PLS
Total/NA	Analysis	8082		1	218999	03/10/17 02:50	DCH	TAL PLS
Total/NA	Prep	3050B			218864	03/07/17 12:08	BRB	TAL PLS
Total/NA	Analysis	6010B		4	218951	03/07/17 22:46	ASB	TAL PLS
Total/NA	Prep	3050B			218864	03/07/17 12:08	BRB	TAL PLS
Total/NA	Analysis	6010B		4	218989	03/08/17 19:27	ASB	TAL PLS
Total/NA	Prep	7471A			154141	03/09/17 14:50	GSH	TAL SAC
Total/NA	Analysis	7471A		1	154344	03/10/17 09:44	GSH	TAL SAC

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Haley & Aldrich, Inc.
 Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Laboratory: TestAmerica Pleasanton

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

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-18

Laboratory: TestAmerica Sacramento

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-055	12-18-17
Arizona	State Program	9	AZ0708	08-11-17
Arkansas DEQ	State Program	6	88-0691	06-17-17
California	State Program	9	2897	01-31-18
Colorado	State Program	8	CA00044	08-31-17
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-17
Hawaii	State Program	9	N/A	01-29-18
Illinois	NELAP	5	200060	03-17-18
Kansas	NELAP	7	E-10375	10-31-17
L-A-B	DoD ELAP		L2468	01-20-18
Louisiana	NELAP	6	30612	06-30-17
Maine	State Program	1	CA0004	04-18-18
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA00044	07-31-17
New Jersey	NELAP	2	CA005	06-30-17
New York	NELAP	2	11666	04-01-17
Oregon	NELAP	10	4040	01-28-18
Pennsylvania	NELAP	3	68-01272	03-31-17
Texas	NELAP	6	T104704399	07-31-17
US Fish & Wildlife	Federal		LE148388-0	10-31-17
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-18
Utah	NELAP	8	CA00044	02-28-17 *
Virginia	NELAP	3	460278	03-14-18
Washington	State Program	10	C581	05-05-17
West Virginia (DW)	State Program	3	9930C	12-31-17
Wyoming	State Program	8	8TMS-L	01-29-17 *

* Certification renewal pending - certification considered valid.

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL SAC

Protocol References:

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

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: TCC Assemblages

TestAmerica Job ID: 720-78050-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-78050-1	HA04-SO-0.5	Solid	03/03/17 08:10	03/03/17 15:30
720-78050-2	HA05-SO-0.5	Solid	03/03/17 08:15	03/03/17 15:30

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TestAmerica Pleasanton
720-78050

Chain of Custody Record for
Haley & Aldrich, Inc. Blanket Service Agreement #2015-18-TestAmerica

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

1220 Quarry Lane
Pleasanton, CA 94566-4756
phone 925.484.1919 fax 925.600.3002

Regulatory Program: DW NPDES RCRA Other:

TestAmerica's services under this COC shall be performed in accordance with the T&Cs within Blanket Service Agreement # 2015-18-TestAmerica by and between Haley & Aldrich, Inc., its subsidiaries and affiliates, and TestAmerica Laboratories Inc.

Client Contact

H&A Project Manager: J. Grant
Tel/Fax: 925-949-4412

H&A Site Contact: B. Runley
Lab Contact: D. Sharma

Date: ~~3/31/17~~ 3/31/17
Carrier:

COC No. of COCs

Haley & Aldrich
2033 N. Main St. Suite #309
Walnut Creek, CA 94596
(925) 949-4412

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below: 5 DAY

Filtered Sample (Y / N)
Perform MS / MSD (Y / N)
TPH-g, -d, -mo by 8260B/8015B
VOCs by 8260B
PAHs by 8270C
CA Title 22 Metals by 8010B lab filter
PCBs by 8082

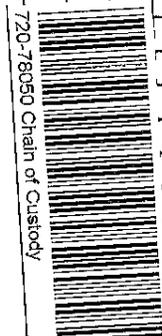
Sampler:
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

H&A Project Number : 128730-004
Site: TOC Assemblages - 595 Auburn

Sample Identification

Sample Date	Sample Time	Sample Type (C=Comp, G=Grain)	Matrix	# of Cont.
HA04-S0-0.5	3/31/17 0810	G	SOIL	4
HA05-S0-0.5	↓ 0815	↓	↓	4

Sample Specific Notes:



Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other
Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Sample Disposal

Non-hazard Flammable Skin Irritant Poison B Unknown

Return to Client Disposal by Lab Archive for Months

Custody Seals Intact: Yes No

Custody Seal No.:

Cooler Temp. (°C): Obs'd:

Corrd:

Therm ID No.:

3.9°C

Relinquished by: [Signature]

Company: H&A

Date/Time: 3/31/17 1140

Received by: [Signature]

Company: TH

Date/Time: 3/31/17 1140

Relinquished by: [Signature]

Company: TH

Date/Time: 3/31/17 1530

Received in Laboratory by: [Signature]

Company: TH

Date/Time: 3/31/17 1530

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-78050-1

Login Number: 78050

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

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	
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.	False	
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.	N/A	
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	



Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-78050-1

Login Number: 78050

List Number: 2

Creator: Edman, Connor M

List Source: TestAmerica Sacramento

List Creation: 03/07/17 10:44 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
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	
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?	N/A	Received project as a subcontract.
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.	N/A	
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	

