



June 19, 2018

Mr. Randolph Brown  
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**Subject: Phase II Targeted Brownfields Assessment  
Fashions R Boutique Site  
Dellwood, St. Louis County, Missouri  
EPA Region 7, START 4, Contract No. EP-S7-13-06, Task Order No. 0002.051  
Task Monitors: Todd Davis, Site Assessment Manager  
Randolph Brown, On-Scene Coordinator**

Dear Mr. Brown:

Tetra Tech, Inc. (Tetra Tech) is submitting the attached Phase II Targeted Brownfields Assessment report regarding the Fashions R Boutique site in Dellwood, Missouri. If you have any questions or comments pertaining to this submittal, please call the START Project Manager at (618) 925-7761.

Sincerely,

A handwritten signature in black ink that reads 'April Halley'.

April Halley  
START Project Manager

A handwritten signature in blue ink that reads 'Ted Faile'.

Ted Faile, PG, CHMM  
START Program Manager

Enclosures

cc: Debra Dorsey, START Project Officer (cover letter only)  
Whitney Bynum, EPA Brownfields and Land Revitalization Branch

**PHASE II TARGETED BROWNFIELDS ASSESSMENT**

**FASHIONS R BOUTIQUE SITE  
DELLWOOD, ST. LOUIS COUNTY, MISSOURI**

**Superfund Technical Assessment and Response Team (START) 4 Contract**

**Contract No. EP-S7-13-06, Task Order No. 0002.051**

Prepared For:

U.S. Environmental Protection Agency  
Region 7  
11201 Renner Blvd.  
Lenexa, Kansas 66219

June 19, 2018

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## EXECUTIVE SUMMARY

Tetra Tech, Inc. (Tetra Tech) was tasked by the U.S. Environmental Protection Agency (EPA) under the Superfund Technical Assessment and Response Team (START) Contract (EP-S7-13-06) to conduct a Phase II Targeted Brownfields Assessment (TBA), Phase I TBA Update, and Analysis of Brownfields Cleanup Alternatives (ABCA) at the Fashions R Boutique site (the site), an approximately 0.55-acre property at 9844 West Florissant Avenue in Dellwood, Missouri. Activities proceeded as specified in a site-specific Quality Assurance Project Plan (QAPP) for the Phase II TBA developed by START and submitted to EPA in February 2018 (Tetra Tech 2018).

In June 2017, Terracon Consultants, Inc. (Terracon) conducted a Phase I TBA of the site on behalf of the Missouri Department of Natural Resources (MDNR). The Phase I TBA identified a recognized environmental condition (REC) associated with historical use of the site as an auto service and machine shop (Terracon 2017). Also, the adjoining property to the north was listed in the Underground Storage Tank (UST) and Leaking Underground Storage Tank (LUST) databases. USTs had been removed from that property in the 2000s, and impacts on soil and groundwater had been detected at the northern portion of the property (north of the site). Additional investigations occurred, and a No Further Action Letter was issued in 2016; therefore, this was not considered a REC (Terracon 2017).

Purposes of this Phase II TBA were to determine (1) if historical activities at the subject property had impacted soils and groundwater, and (2) if historical activities at surrounding properties had impacted groundwater. During this investigation at the subject property, soil and groundwater samples were collected for laboratory analysis. All sampling results were compared to (1) Missouri Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels (LDTL), and (2) MRBCA Tier 1 Risk-based Target Levels (RBTL) for non-residential land use, soil type 3, indoor inhalation of vapor emissions.

Findings and conclusions are as follows:

- All soil samples were found to contain at least one volatile organic compound (VOC) at a concentration above the laboratory reporting limit, and four soil samples contained VOCs at levels above LDTLs, including methylene chloride, naphthalene, and n-propylbenzene. No soil sample contained polycyclic aromatic hydrocarbons (PAH) above laboratory reporting limits. Six soil samples contained at least one “type” of total petroleum hydrocarbons (TPH) (“types” of TPH differentiated by range of number of carbons in the molecule) at a concentration above the laboratory reporting limit, and one sample contained TPH – gasoline-range organics (GRO) at a concentration above the LDTL. All soil samples contained arsenic, barium, chromium, and lead at levels above respective laboratory reporting limits. Additionally, in all soil samples, lead concentrations exceeded the LDTL, and in 13 soil samples, arsenic concentrations exceeded the LDTL; however, those concentrations were comparable to naturally occurring surface soil

concentrations within St. Louis County, Missouri (USGS 2018). In no soil sample did an analyte concentration exceed an RBTL.

- All groundwater samples contained at least one VOC at a concentration above the laboratory reporting limit, and three groundwater samples contained VOCs at concentrations above LDTLs, including n-propylbenzene, n-butylbenzene, benzene, and methylene chloride. Two groundwater samples contained at least one PAH at a concentration above the laboratory reporting limit, and one sample contained naphthalene at a concentration above the LDTL. Six groundwater samples contained at least one type of TPH at a concentration above the laboratory reporting limit, and two samples contained TPH concentrations above the LDTL, including TPH-GRO and TPH - diesel-range organics (DRO). All groundwater samples contained most Resource Conservation and Recovery Act (RCRA) total metals at concentrations above laboratory reporting limits, and all samples contained at least one RCRA metal at concentrations above LDTLs, including arsenic, barium, cadmium, lead, and chromium. In no groundwater sample did an analyte concentration exceed an RBTL.

Based on analytical results that include detections of analytes within the former building's footprint, a release of solvents, gasoline, and diesel may have occurred due to historical use of the site as an auto service and machine shop. However, follow-up action appears unwarranted to address soil and groundwater contamination that might preclude future non-residential recreational use of the property because (1) private water wells identified during the Phase I TBA are greater than one half mile north and upgradient from the subject property (Terracon 2017), therefore; groundwater will not be used as drinking water, and (2) no analyte concentration in soil and groundwater exceeded an RBTL.

## **1.0 INTRODUCTION**

Tetra Tech, Inc. (Tetra Tech) was tasked by the U.S. Environmental Protection Agency (EPA) under the Superfund Technical Assessment and Response Team (START) Contract (EP-S7-13-06) to conduct a Phase II Targeted Brownfields Assessment (TBA), Phase I TBA Update, and Analysis of Brownfields Cleanup Alternatives (ABCA) at the Fashions R Boutique site (the site), an approximately 0.55-acre property at 9844 West Florissant Avenue in Dellwood, Missouri. The site currently hosts no structures and is a partially paved vacant lot. The foundation of a former building is still present at the site. Historical documentation and information indicate that the site hosted an auto parts store and machine shop from at least as early as 1986 to 2001. A building at the site that was later used as a clothing boutique burned in 2014 (Terracon Consultants, Inc. [Terracon] 2017). Intended future use of the site is recreational, including a community garden.

In June 2017, Terracon conducted a Phase I TBA of the site on behalf of the Missouri Department of Natural Resources (MDNR). The Phase I TBA identified a recognized environmental condition (REC) associated with historical use of the site as an auto service and machine shop (Terracon 2017). Also, the adjoining property to the north was listed in the Underground Storage Tank (UST) and Leaking Underground Storage Tank (LUST) databases. USTs had been removed from that property in the 2000s, and impacts on soil and groundwater had been detected at the northern portion of the property (north of the site). Additional investigations occurred, and a No Further Action Letter was issued in 2016; therefore, this was not considered a REC (Terracon 2017). The following sections address the background and site history, describe Phase II TBA activities, present and evaluate analytical results, discuss findings, and offer conclusions.

### **1.1 PURPOSES**

Purposes of this Phase II TBA included a determination on whether historical activities at the subject property and at adjacent properties had impacted soil and groundwater at the subject property. During this Phase II TBA, sampling of soil and groundwater occurred to confirm or eliminate the REC to the subject property (i.e., possible historical releases of contaminants) identified during a Phase I TBA of the subject property in June 2017.

### **1.2 SPECIAL TERMS AND CONDITIONS**

No special terms or conditions were identified during the Phase II TBA.

## **2.0 BACKGROUND AND SITE HISTORY**

This section briefly describes the site (physical setting, site location and land use, and adjacent land use), and summarizes previous assessments.

### **2.1 PHYSICAL SETTING**

The Fishpot - Urban Land Complex (Fishpot series) is the most prevalent soil association in the area. Urban land is characterized by extensive development where at least 80 percent (%) of the surface is covered by pavement or structures, and where the underlying soil type has been rendered unidentifiable (Terracon 2017). The Fishpot series consists of very deep, somewhat poorly drained soils formed in silty and loamy material that has been disturbed to depth exceeding 30 inches over alluvial or terrace soils. Non-soil material (such as cinders, broken bricks, broken concrete) is mixed with the disturbed soil in most places. The buried soil is variable in color, and typically is silty loam or silty clay loam. Slopes range from 0 to 5%. The typical soil profile consists of stratified silty loam to a depth of 60 inches below ground surface (bgs) (U.S. Department of Agriculture [USDA] 1999).

Uppermost bedrock in the area includes the Marmaton Group, which consists of cyclic deposits of shale and limestone with some sandstone and clay. This group also contains several workable coal beds. Beneath the Marmaton Group lies the Cherokee Group, which consists of cyclic deposits of shale, sandstone, clay, and several workable coal beds (United States Geological Survey [USGS] 2017).

The site is within the northern portion of the Ozark Plateaus Aquifer system, which consists of three main aquifers. From shallowest to deepest, the three aquifers are the Springfield Plateau aquifer, which consists almost entirely of Mississippian-age limestone; the Ozark aquifer, which mostly consists of Devonian- to Cambrian-age limestone and high-yielding dolomite; and the St. Francois aquifer, which mostly consists of Cambrian-age dolomite and sandstone (USGS 1997). A tributary of Maline Creek is approximately 450 feet south of the site.

In the Phase I TBA prepared by Terracon, EDR extracted no data on groundwater flow and velocity. In the absence of site-specific data or other indicators, direction of groundwater flow may be inferred from the regional topographic gradient. Therefore, groundwater flow is inferred to the south in the direction of the topographic gradient (Terracon 2017).

There are three wells located within a one-mile radius of the site. Two of the wells are private water wells and one is a USGS Water Science well. However, all three wells are located greater than one half mile north and upgradient of the site (Terracon 2017).



## **2.2 SITE DESCRIPTION AND FEATURES**

The site is at 9844 West Florissant Avenue in Dellwood, Missouri. The site is depicted on the Clayton, Missouri, USGS 7.5-minute topographic series map (USGS 1975) and is just south of the Florissant, Missouri, USGS 7.5-minute topographic series map (USGS 1982) (see Appendix A, Figure 1).

Coordinates at the approximate center of the site are 38.7468600 degrees north latitude and 90.2790240 degrees west longitude. The approximately 0.55-acre site currently hosts no structures and is a partially paved vacant lot. The foundation of a former building is still present at the site. Figure 2 in Appendix A illustrates the approximate footprint of the former building and the site boundaries.

## **2.3 SITE HISTORY AND LAND USE**

The site currently hosts no structures and is a partially paved vacant lot. The foundation of a former building is still present at the site. Historical documentation and information indicate that the site hosted an auto parts store and machine shop from at least as early as 1986 to 2001. A building at the site that was later used as a clothing boutique burned in 2014 during civil unrest (Terracon 2017). Intended future use of the site is recreational, including a community garden.

## **2.4 ADJACENT PROPERTY USE**

The subject property is bounded on the north by Auto Spa Speedy Wash, a car wash; east by residential housing; south by a vacant lot; and west by West Florissant Avenue, with commercial and retail buildings beyond.

## **2.5 SUMMARY OF PREVIOUS ASSESSMENTS**

This section summarizes a Phase I TBA, the only known previous environmental investigation at the subject property. In June 2017, Terracon conducted the Phase I TBA of the site on behalf of MDNR. Historical documentation in the Phase I TBA report indicates that the subject property was identified as Dellwood Automotive in the Historical Auto Service database from approximately 1986 to 1989. The facility was listed as a gasoline service station and motor vehicle supplies and parts store, although a building at the site was subsequently used as a clothing boutique (it burned in 2014 during civil unrest) (Terracon 2017). The Phase I TBA identified a REC associated with historical use of the site as an auto service and machine shop (Terracon 2017). However, the property was not listed as a Resource Conservation and Recovery Act (RCRA) hazardous waste generator, and no registered USTs, spills, or releases were indicated at the property.

The adjoining property to the north was listed in the UST and LUST databases. USTs had been removed from that property in the 2000s, and impacts on soil and groundwater had been detected at the northern portion of the property (north of the site). Additional investigations occurred, and a No Further Action Letter was issued in 2016; therefore, this was not considered a REC (Terracon 2017).

### **3.0 PHASE II TARGETED BROWNFIELDS ASSESSMENT ACTIVITIES**

The following sections describe the scope of the Phase II TBA, field exploration and methods, and associated quality assurance (QA)/quality control (QC) activities. START members April Halley, Dave Kinroth, and Tetra Tech subcontractor, Plains Environmental Services, Inc. (PES), performed sampling from April 11 through 12, 2018. Photographic documentation is in Appendix B. A copy of the site logbook with documented site activities is in Appendix C. Soil and groundwater samples were collected to identify contamination possibly present at the subject property. An objective was to characterize possible historical releases to the environment. Activities proceeded as specified in a site-specific Quality Assurance Project Plan (QAPP) for the Phase II TBA developed by START and submitted to EPA in February 2018 (Tetra Tech 2018).

#### **3.1 SUBSURFACE SOIL SAMPLING**

PES advanced eight direct-push technology (DPT) soil borings to groundwater, or to geologic refusal, whichever occurred first (approximately 20 to 29 feet bgs). Three borings were along the northern edge of the property, three borings were within the former building footprint, one boring was along the eastern edge of the property, and one boring was at the southwest corner of the property (see Appendix A, Figure 2). Continuous soil borings were collected at 5-foot depth intervals and screened by use of a photoionization detector (PID). PID readings and soil classifications such as color, type, and moisture content were documented in boring logs (see Appendix D). At each boring location, two soil samples were collected and submitted for laboratory analysis. Soil samples were collected within depth intervals inducing the highest PID readings. If no elevated readings were observed, collection occurred within intervals where visual impacts appeared or odors were detected. If no indications of contamination were found, the soil samples were collected within depth intervals selected by the START field team, including intervals within the capillary fringe (if groundwater was encountered) or within the bottom portion of the boring (if refusal was encountered). A duplicate sample was collected at boring location SB-4 (18-20 feet bgs) to be used as a QA/QC measure of total method precision.

At each sampling interval, a grab sample for analysis for volatile organic compounds (VOC) and total petroleum hydrocarbons (TPH) – gasoline range organics (GRO) was collected in accordance with EPA SW-846 Method 5035; approximately 5-gram plugs of soil (one plug per sample container) were collected by use of a disposable, tipless, plastic syringe, and transferred to two 40-milliliter (mL) vials preserved with sodium bisulfate, and one 40-mL vial preserved with methanol. Remaining soil was placed into two 8-ounce jars for analysis for TPH – diesel range organics (DRO), TPH – oil range

organics (ORO), polynuclear aromatic hydrocarbons (PAH), RCRA total metals (excluding mercury), and percent solids. Table 1 below lists soil sample information, including sample depths, coordinates, and collection dates and times.

**TABLE 1**  
**SOIL SAMPLE SUMMARY**  
**FASHIONS R BOUTIQUE, DELLWOOD, MISSOURI**

Sample No.	Latitude (°N)	Longitude (°W)	Sample Date	Sample Time	Analyses
SB-1 (12.5-14.5)	38.746979	90.279367	4/11/2018	0918	VOCs, TPH-GRO, TPH-DRO, TPH-ORO, PAHs, RCRA total metals (excluding mercury)
SB-1 (20-22)			4/11/2018	0945	
SB-2 (6-8)	38.747000	90.279094	4/11/2018	1135	
SB-2 (18-20)			4/11/2018	1140	
SB-3 (5-7)	38.747026	90.278890	4/11/2018	1408	
SB-3 (15-17)			4/11/2018	1418	
SB-4 (10-12)	38.746828	90.278833	4/11/2018	1518	
SB-4 (18-20)			4/11/2018	1529	
SB-4 (18-20)-FD					
SB-5 (13-15)	38.746783	90.278939	4/11/2018	1620	
SB-5 (16-18)			4/11/2018	1634	
SB-6 (6-8)	38.746864	90.279009	4/12/2018	0819	
SB-6 (13-15)			4/12/2018	0825	
SB-7 (11-13)	38.746854	90.279153	4/12/2018	0919	
SB-7 (18-20)			4/12/2018	0936	
SB-8 (11-13)	38.746737	90.279242	4/12/2018	1028	
SB-8 (21-23)			4/12/2018	1035	

Notes:

Number in parentheses for each sample number indicates depth interval (feet) of sample collection. Latitude and longitude are based on North American Datum (NAD) 83.

DRO Diesel-range organics  
FD Field duplicate  
GRO Gasoline-range organics  
ORO Oil-range organics  
PAH Polynuclear aromatic hydrocarbon  
RCRA Resource Conservation and Recovery Act  
TPH Total petroleum hydrocarbons  
VOC Volatile organic compound  
°N Degrees north  
°W Degrees west

### 3.2 GROUNDWATER SAMPLING

In the Phase I TBA prepared by Terracon, EDR extracted no data on groundwater flow and velocity. In the absence of site-specific data or other indicators, direction of groundwater flow may be inferred from the regional topographic gradient. Therefore, groundwater flow is inferred to the south in the direction of the topographic gradient (Terracon 2017).

Groundwater samples were collected at six of the eight boring locations (see Appendix A, Figure 2). No groundwater sample was collected at SB-6 or SB-8. Groundwater was encountered at SB-6, and a temporary well was installed; however, no groundwater could be recovered. No groundwater was collected at SB-8 due to geologic refusal.

Groundwater samples were collected by use of a Geoprobe® Screen Point 16 sampling apparatus. At each location, the sampler was advanced to approximately 4-5 feet below the water table, and then the screen was exposed to the aquifer. After the screen was deployed at the bottom of the boring, about 1 gallon of water was purged through disposable polyethylene tubing, utilizing a check valve placed at the bottom of the tubing.

Samples for analysis for VOCs and TPH-GRO via SW-846 Method 8260 were collected into three 40-mL vials preserved with hydrochloric acid (HCl). Samples for analysis for TPH-DRO, TPH-ORO and PAHs via SW-846 Method 8270 were collected in two unpreserved 1-liter (L) amber glass bottles. Samples for total RCRA total metals analysis via SW-846 Method 6020 were collected in 1-L plastic bottles preserved with nitric acid (one container per sample).

Each sample was labeled and packaged accordingly, and placed in a cooler maintained at or below a temperature of 4 degrees Celsius (°C) from time of collection until submittal for laboratory analyses. After completion of sampling, soil cores were placed back in their respective boreholes, which were then plugged with bentonite. A duplicate sample was collected at boring location SB-7 (GW7-FD) to be used as a QA/QC measure of total method precision. To evaluate effectiveness of decontamination procedures for the Geoprobe sampling equipment, an equipment rinsate blank sample was collected. To assess field- or laboratory-introduced contamination, a field blank sample was collected. Table 2 below summarizes groundwater and aqueous QC samples collected during this Phase II TBA.

**TABLE 2**

**GROUNDWATER SAMPLE SUMMARY**  
**FASHIONS R BOUTIQUE, DELLWOOD, MISSOURI**

Boring ID	Sample No.	Latitude (°N)	Longitude (°W)	Analyses
SB-1	GW1	38.746979	90.279367	VOCs, TPH-GRO, TPH-DRO, TPH-ORO, PAHs, total RCRA total metals (excluding mercury)
SB-2	GW2	38.747000	90.279094	
SB-3	GW3	38.747026	90.278890	
SB-4	GW4	38.746828	90.278833	
SB-5	GW5	38.746783	90.278939	
SB-7	GW7	38.746854	90.279153	
	GW7-FD			
Equipment Blank	Equipment Blank	NA	NA	
Field Blank	Field Blank	NA	NA	

Notes:

Latitude and longitude are based on North American Datum (NAD) 83.

DRO	Diesel-range organics	PAH	Polynuclear aromatic hydrocarbon
FD	Field duplicate	RCRA	Resource Conservation and Recovery Act
GRO	Gasoline-range organics	TPH	Total petroleum hydrocarbons
ID	Identification	VOC	Volatile organic compound
NA	Not applicable	°N	Degrees north
ORO	Oil-range organics	°W	Degrees west

On April 12, 2018, 17 soil samples (including one field duplicate), seven groundwater samples (including one field duplicate), one equipment rinsate blank, and one field blank were submitted via FedEx to the Test America laboratory in Nashville, Tennessee, for arrival on April 13, 2018.

### 3.3 DEVIATIONS FROM THE QAPP

The approved QAPP specified collection of groundwater samples in addition to soil samples at each boring location. However, no groundwater samples were collected at SB-6 or SB-8. Groundwater was encountered at SB-6, and a temporary well was installed; however, no groundwater could be recovered. No groundwater was collected at SB-8 due to geologic refusal. This deviation is not expected to adversely affect results of the investigation.

## **4.0 PRESENTATION AND EVALUATION OF RESULTS**

Section 4.0 discusses analytical results from samples collected during Phase II activities in April 2018. A copy of the analytical report provided by Test America, the associated chain-of-custody record, and a data validation report prepared by START are in Appendix E.

### **4.1 SOIL SAMPLES**

In Appendix F, Table F-1 summarizes laboratory results from soil samples analyzed for this investigation, and compares the data to MDNR Risk-Based Corrective Action (MRBCA) Lowest Default Target Levels (LDTL), and MRBCA Tier 1 non-residential land use, soil type 3, Risk-based Target Levels for indoor inhalation of vapor emissions (RBTL). All soil samples contained at least one VOC at a concentration above the laboratory reporting limit, and four of the 17 samples contained at least one VOC at a concentration above the LDTL. These four samples included SB-4 (18-20)-FD, SB-5 (16-18), SB-6 (6-8), and SB-8 (11-13)—all containing methylene chloride at concentrations above the LDTL; moreover, sample SB-5 (16-18) also contained naphthalene and n-propylbenzene at concentrations above LDTLs. No soil sample contained a PAH at a concentration above a laboratory reporting limit.

Six of the 17 soil samples contained TPH levels above the laboratory reporting limit, and one sample— SB-5 (16-18)—contained TPH-GRO at a concentration above the LDTL.

All soil samples contained concentrations of arsenic, barium, chromium, and lead above laboratory reporting limits. Additionally, all results for lead exceeded the LDTL, and 13 of the 17 sample results for arsenic exceeded the LDTL; however, those concentrations were comparable to naturally occurring surface soil concentrations within St. Louis County, Missouri. Arsenic concentrations in the subject property soil samples ranged from 1.46 to 13.1 milligrams per kilogram (mg/kg); the LDTL for arsenic is 3.89 mg/kg, and USGS reports typical arsenic concentrations in St. Louis County soils range from 4.091 to 17.435 mg/kg, with a mean of 10.561 mg/kg. Lead concentrations in the subject property soil samples ranged from 7.11 to 26.9 mg/kg; the LDTL for lead is 3.74 mg/kg, and USGS reports typical lead concentrations in St. Louis County soils range from 15.241 to 118.770 mg/kg, with a mean of 40.950 mg/kg (USGS 2018). No other metal was detected at concentration exceeding an LDTL.

No soil sample analyte concentration exceeded an RBTL. A full analytical report of all soil sample results is in Appendix E.

## 4.2 GROUNDWATER SAMPLES

In Appendix F, Table F-2 summarizes laboratory results for groundwater samples analyzed for this investigation, and compares the data to MRBCA LDTLs and RBTLs. All groundwater samples contained at least one VOC at a concentration above the laboratory reporting limit, and three of the seven groundwater samples contained at least one VOC at a concentration above the LDTL. These three samples included SB-1 (GW1) with n-propylbenzene and n-butylbenzene above LDTLs; SB-3 (GW3) with benzene, n-propylbenzene, and n-butylbenzene above LDTLs; and SB-5 (GW5) with methylene chloride, n-propylbenzene, and n-butylbenzene above LDTLs.

Two of the seven groundwater samples contained at least one PAH at a concentration above the laboratory reporting limit. One sample contained at least one PAH at a concentration above the LDTL—SB-3 (GW3) with a naphthalene concentration above the LDTL.

Six of the seven groundwater samples contained TPH at concentrations above the laboratory reporting limit, and two of the samples contained TPH at concentrations above the LDTL. These two samples included SB-3 (GW3) with TPH-GRO and TPH-DRO above the LDTL, and SB-5 (GW5) with TPH-DRO above the LDTL.

All groundwater samples contained most RCRA total metals at concentrations above laboratory reporting limits, and all samples contained at least one RCRA metal at a concentration above the LDTL. These samples included SB-1 (GW1) with arsenic above the LDTL; SB-(GW2) with arsenic and cadmium above the LDTL; SB-3 (GW3) with arsenic, barium, and lead above the LDTL; SB-4 (GW4) with arsenic, barium, cadmium, chromium, and lead above the LDTL; SB-5 (GW5) with arsenic, cadmium, and lead above the LDTL; and SB-7 (GW7) and SB-7(GW7-FD) with arsenic, barium, cadmium, and lead above the LDTL.

In no groundwater sample did an analyte concentration exceed an RBTL. A full analytical report is in Appendix E.



### **4.3      QUALITY CONTROL SAMPLES**

Results from soil and groundwater duplicate samples listed in Appendix F, Tables F-1 and F-2, indicated no major variances in method precision. Acetone, TPH-DRO, TPH-ORO, and barium were detected in the equipment rinsate blank and field blank at concentrations greater than method detection limits but less than laboratory reporting limits. Chromium was detected in both blanks at concentrations above the laboratory reporting limit, at 4.01 micrograms per liter ( $\mu\text{g/L}$ ) in the equipment rinsate blank and 2.31  $\mu\text{g/L}$  in the field blank. Chromium results from both blanks were well below the LDTL of 100  $\mu\text{g/L}$ .

## **5.0 DISCUSSION OF FINDINGS AND CONCLUSIONS**

In April 2018, START conducted a Phase II TBA at the subject property after a Phase I TBA by Terracon in June 2017 had identified a REC to the subject property due to historical use of the site as an auto service and machine shop. The Phase II TBA included collection of subsurface soil samples from DPT borings and groundwater samples from temporary wells.

START members April Halley and Dave Kinroth completed Phase II TBA sampling activities during April 11 and 12, 2018. Eight soil borings were advanced by Tetra Tech subcontractor, Plains Environmental Services, Inc. Soil borings were screened by use of a PID, and two soil samples were collected from each boring based on screening results and judgment of field personnel. Groundwater samples were collected at six of the eight boring locations. Samples were submitted to Test America via FedEx (on April 12, 2018), and analyzed for VOCs, TPH-GRO, TPH-DRO, TPH-ORO, PAHs, and RCRA total metals (excluding mercury).

All samples contained at least one VOC at a concentration above the laboratory reporting limit, and four soil samples contained VOCs at concentrations above the LDTL, including methylene chloride, naphthalene, and n-propylbenzene. No soil sample contained a PAH at a concentration above a laboratory reporting limit. Six soil samples contained at least one “type” of TPH (“types” of TPH differentiated by range of number of carbons in the molecule) at a concentration above a laboratory reporting limit, and one sample contained TPH-GRO at concentration above the LDTL. All soil samples contained arsenic, barium, chromium, and lead at levels above laboratory reporting limits. Additionally, all soil sample results exceeded the LDTL for lead, and 13 soil sample results exceeded the LDTL for arsenic; however, those concentrations were comparable to naturally occurring surface soil concentrations within St. Louis County, Missouri.

All groundwater samples contained at least one VOC at a concentration above a laboratory reporting limit, and three of the groundwater samples contained VOCs at concentrations above LDTLs, including n-propylbenzene, n-butylbenzene, benzene, and methylene chloride. Two groundwater samples contained at least one PAH at a concentration above a laboratory reporting limit, and one sample contained naphthalene at a concentration above the LDTL. Six groundwater samples contained at least one type of TPH at a concentration above laboratory reporting limit, and two of the samples contained at least one type of TPH at a concentration above LDTL, including TPH-GRO and TPH-DRO. All groundwater samples contained most RCRA total metals at concentrations above laboratory reporting limits, and all

samples contained at least one RCRA metal at concentration above an LDTL, including arsenic, barium, cadmium, lead, and chromium.

In no soil or groundwater sample did an analyte concentration exceed a MRBCA Tier 1 Risk-based Target Level (RBTL) for non-residential land use, soil type 3, indoor inhalation of vapor emissions.

Based on analytical results that indicate detections of analytes within the former building's footprint, a release of solvents, gasoline, and diesel may have occurred due to historical use of the site as an auto service and machine shop. However, follow-up action appears unwarranted to address soil and groundwater contamination that would preclude future non-residential recreational use of the property because (1) private water wells identified during the Phase I TBA are greater than one half mile north and upgradient from the subject property (Terracon 2017), therefore; groundwater will not be used as drinking water, and (2) no analyte concentration in soil and groundwater samples exceeded an RBTL.

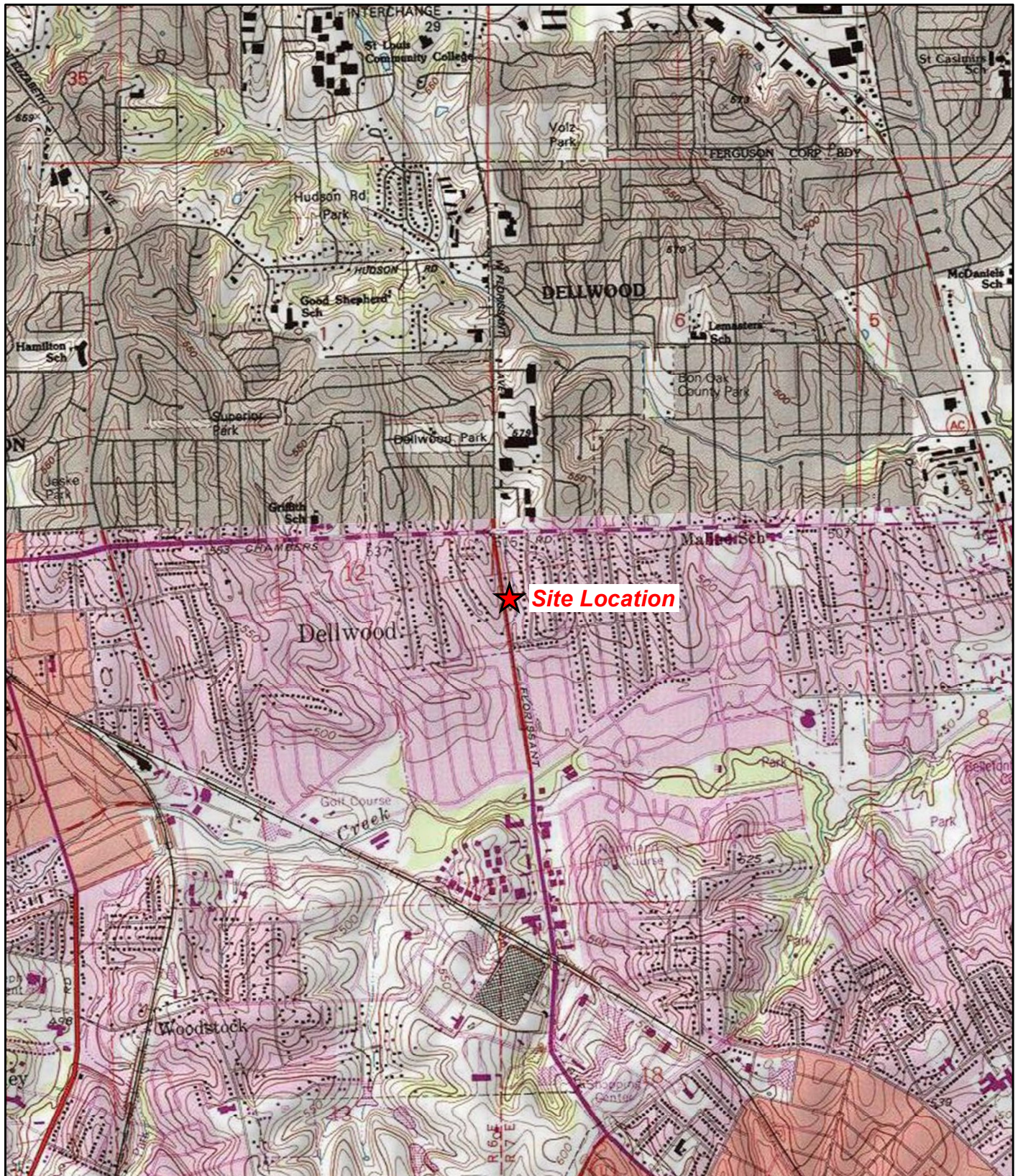
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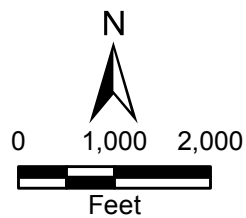
## **APPENDIX A**

### **FIGURES**





St. Louis County



Fashions R Boutique Site  
Dellwood, St. Louis County, Missouri

**Figure 1**  
Site Location Map



Source: USGS Clayton, MO 7.5 Minute Topo Quad, 1975;  
USGS Florissant, MO 7.5 Minute Topo Quad, 1982

Date: 2/8/2018

Drawn By: Nick Wiederholt

Project No: X9025.14.0002.051

X:\G\9025.000\2018\1P\project\mxd\Figure1.mxd





#### Legend

- DPT soil sample location
- DPT soil/groundwater sample location
- Approximate site boundary
- Former pump islands
- Former site building footprint
- Former tank pit area
- DPT Direct push technology

Fashions R Boutique Site  
Dellwood, St. Louis County, Missouri

**Figure 2**  
**Sample Location Map**



X:\G\9025.0002\051\Project\mxd\Figure2\_050418.mxd

Source: ESRI, ArcGIS Online, World Imagery, 2015; Terracon, Phase I Environmental Site Assessment, Fashions R Boutique, Site Diagram, 2017

Date: 5/4/2018

Drawn By: Nick Wiederholt

Project No: X9025.14.0002.051

**APPENDIX B**  
**PHOTOGRAPHIC DOCUMENTATION**



**Fashions R Boutique Site  
Dellwood, Missouri**



<p>TETRA TECH PROJECT NO. X9025.14.0002.051</p> <p>DIRECTION: West</p>	DESCRIPTION	This photograph shows the former building's footprint and surrounding asphalt at the Fashions R Boutique Site (the site), with Florissant Avenue beyond.	1
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/12/18
	PHOTOGRAPHER	April Halley	



<p>TETRA TECH PROJECT NO. X9025.14.0002.051</p> <p>DIRECTION: East</p>	DESCRIPTION	This photograph of the site shows the former building's footprint and surrounding debris on broken asphalt, with residential properties beyond.	2
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/12/18
	PHOTOGRAPHER	April Halley	

**Fashions R Boutique Site  
Dellwood, Missouri**



<p>TETRA TECH PROJECT NO. X9025.14.0002.051</p> <p>DIRECTION: Southwest</p>	DESCRIPTION	This photograph shows collection of groundwater sample GW1 at SB-1.	3
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/11/18
	PHOTOGRAPHER	April Halley	



<p>TETRA TECH PROJECT NO. X9025.14.0002.051</p> <p>DIRECTION: Northeast</p>	DESCRIPTION	This photograph shows sampling at SB-2, with a car wash north of the site.	4
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/11/18
	PHOTOGRAPHER	April Halley	



**Fashions R Boutique Site  
Dellwood, Missouri**



TETRA TECH PROJECT NO. X9025.14.0002.051  DIRECTION: South	DESCRIPTION	This photograph shows purging of groundwater prior to collection of sample GW2.	5
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/11/18
	PHOTOGRAPHER	April Halley	



TETRA TECH PROJECT NO. X9025.14.0002.051  DIRECTION: East	DESCRIPTION	This photograph shows the borehole at SB-3, surrounded by debris at the northeast corner of the site.	6
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/11/18
	PHOTOGRAPHER	April Halley	

**Fashions R Boutique Site  
Dellwood, Missouri**



<p>TETRA TECH PROJECT NO. X9025.14.0002.051</p> <p>DIRECTION: East</p>	DESCRIPTION	This photograph shows sampling at SB-4.	7
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/11/18
	PHOTOGRAPHER	April Halley	



<p>TETRA TECH PROJECT NO. X9025.14.0002.051</p> <p>DIRECTION: Southwest</p>	DESCRIPTION	This photograph shows sampling at SB-5, within the former building's footprint.	8
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/11/18
	PHOTOGRAPHER	April Halley	



**Fashions R Boutique Site  
Dellwood, Missouri**



<p>TETRA TECH PROJECT NO. X9025.14.0002.051</p> <p>DIRECTION: North</p>	DESCRIPTION	This photograph shows sampling at SB-7, within the former building's footprint.	9
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/12/18
	PHOTOGRAPHER	April Halley	



<p>TETRA TECH PROJECT NO. X9025.14.0002.051</p> <p>DIRECTION: West</p>	DESCRIPTION	This photograph shows sampling at SB-8.	10
	CLIENT	Environmental Protection Agency - Region 7	DATE 4/12/18
	PHOTOGRAPHER	April Halley	

**APPENDIX C**  
**SITE LOGBOOK**



**GENIUS NOTES**

Fashions R Boutique

Phase II TBA

103X9025140002.051

## Fashions R. Boutique

4/11/18

- 0645 STM Halley head to site.  
 0730 On site, unload supplies.  
 0745 STM Kilneth & Plains Environmental  
 on site. H+S meeting.  
 0800 Calibrate PID.  
 0815 Begin SB1 38.74699, -90.279367  
 0918 Collect SB1 (12.5-14.5).  
 0945 Collect SB1 (20-22).  
 0947 Boring terminated @ 22'  
 - set temp well. screen interval = 17'-22'  
 DTW = 17' bgs  
 1005 Collect GW1 from SB1  
 1051 Begin SB2 38.747066, -90.279094  
 1135 Collect SB2 (6-8).  
 1140 Collect SB2 (18-20).  
 Boring terminated @ 18.20'  
 set temp well. screen interval = 13'-18'  
 DTW = 6.4' (38.747086, -90.278990)  
 1200 Collect GW2 from SB2  
 1409 Begin SB3, Get ice for samples.

## Fashions R. Boutique

4/11/18

- 1245-1300 Lunch  
 1408 Collect SB3 (5-7).  
 1418 Collect SB3 (15-17).  
 1419 Boring terminated @ 29'  
 set temp well screen interval = 24-29  
 DTW = 14' bgs  
 1430 Collect GW3 from SB3.  
 1443 Begin SB4 38.746828, -90.278833  
 1518 Collect SB4 (10-12).  
 1529 Collect SB4 (18-20) & FO.  
 1530 Boring terminated @ 20'  
 set temp well screen interval = 15-20  
 DTW = 8.3'  
 1536 Collect GW4 from SB4.  
 1525 Begin SB5 38.746783, -90.278939  
 1620 Collect SB5 (13-15).  
 1634 Collect SB5 (16-18).  
 1630 Boring terminated @ 20'  
 set Temp well screen interval = 15-20  
 DTW = 9.5' bgs  
 1645 Collect GW5 at SB5.



# Fashions R Boutique

4/11/18

1705 Head ~~off~~ site to get ice & by bags.

1808 write labels times, Pack up van.

1900 End day

AWH

4/11/18

# Fashions R. Boutique

4/12/18

0630 STM Halley head to site.

0715 STM Halley on site, Get GPS, mark  
next borings locations. Calibrak

0720 STM Rurata on site <sup>CH</sup> H & S meeting

0747 Begin SB6 38.74689, -90.279009

0819 Collect SB6 (6-8)

0825 Collect SB6 (13-15)

0830 Boring terminated at 20 bgs

Set temp well. Screen interval = 15-20

DTW = 17' bgs

0834 Having trouble getting Gw sample.

will let it sit and try later.

0841 Begin SB7 38.74689, -90.279170 <sup>54 AM</sup> <sup>53 AM</sup>

0914 Collect SB7 (11-13)

0936 Collect SB7 (18-20) terminated @ 20

set temp well, partial collapse in  
bottom of boring, screen interval =

12-17" DTW = 10.7' bgs

0944 Collect Gw from SB7 + FD

Fashions R. Bouligny

4/12/18

0946 Begin SB8 38.716737, -90.279242

1028 Collect SB8 (11-13)

1035 Collect SB8 (21-23)

1040 Terminated @ 23' due to refusal

~~Set temp well, screen Interat.~~  
~~DFW~~

No Temp well set b/c no water.

1055 Collect Equipment Rinse.

1112 Collect Field Blank

1117 Clean up + load up supplies

1230 At Fenton office. Unload supplies

Count containers, wrap bottles,

ice samples. Fill out COC

1634 Drop off samples at FedEx.

1645 End day

ANH

4/12/18

**APPENDIX D**  
**BORING LOGS**

# BOREHOLE LOG

<b>Boring ID:</b> SB1			
<b>Monitoring Well ID:</b> GW1			
<b>Project Number:</b> 103X9025140002.051		<b>Project Name:</b> Fashions R Boutique	
<b>Client:</b> EPA R7			
<b>Site:</b> 9844 W Florissant Ave., Dellwood, MO			
<b>Borehole Location:</b> northwest corner of site			
<b>Logged By:</b> April Halley, Tetra Tech, Inc.			
<b>Drilling Contractor:</b> Plains Environmental			
<b>Drill Rig Type/Method:</b> DPT			
<b>Borehole Diameter (inches):</b> 2.0			
<b>Drill Start Date:</b> 4/11/2018		<b>Drill Start Time:</b> 8:15	
<b>Drill Finish Date:</b> 4/11/2018		<b>Drill Finish Time:</b> 9:47	
<b>Total Borehole Depth (feet bgs):</b> 22			
<b>Screen Interval (feet bgs):</b> 17.0		to	22.0
		<b>Total Well Depth (feet bgs):</b> 22.0	
<b>Well Diameter: (inches)</b> 1.0		<b>Well Casing Material:</b> PVC	

	NOTES/REMARKS
	Depth to water: 17.0 feet bgs.

**PROJECT:** Fashions R Boutique  
**SITE:** 9844 W Florissant Ave., Dellwood, MO  
**BORING ID:** SB1 **MW ID:** GW1

**DATE:** 4/11/2018  
**LOGGED BY:** April Halley, Tetra Tech, Inc.  
**Page** 2 **of** 2

Time	Recovered/Driven (in./in.)	PID Reading (ppb)	Sample Interval	Depth (feet bgs)	Soil Description
8:15		0.0		1	Asphalt
					Gravel, debris
				2	CLAY, sandy, slightly stiff
				3	
		0.0		4	CLAY, brown, moist, soft
				5	
				6	
				7	
		0.0		8	
				9	
				10	
				11	
		0.0		12	CLAY, silty, dark brown to gray, soft, moist
				13	Strong odor from 12.5' - 14.0'
		2800	SB1 (12.5-14.5)	14	
		70		15	CLAY, gray to dark brown, very soft, moist
		0.0		16	
				17	Becomes very wet
				18	
				19	
		0.0	SB1 (20-22)	20	
				21	Intermittent CLAY, brown, and SAND, orange to red, very wet
				22	Boring terminated at 22.0 feet bgs. Temporary well set.
9:47					

# BOREHOLE LOG

<b>Boring ID:</b> SB2			
<b>Monitoring Well ID:</b> GW2			
<b>Project Number:</b> 103X9025140002.051		<b>Project Name:</b> Fashions R Boutique	
<b>Client:</b> EPA R7			
<b>Site:</b> 9844 W Florissant Ave., Dellwood, MO			
<b>Borehole Location:</b> along northern edge of site			
<b>Logged By:</b> April Halley, Tetra Tech, Inc.			
<b>Drilling Contractor:</b> Plains Environmental			
<b>Drill Rig Type/Method:</b> DPT			
<b>Borehole Diameter (inches):</b> 2.0			
<b>Drill Start Date:</b> 4/11/2018		<b>Drill Start Time:</b> 10:51	
<b>Drill Finish Date:</b> 4/11/2018		<b>Drill Finish Time:</b> 11:45	
<b>Total Borehole Depth (feet bgs):</b> 20			
<b>Screen Interval (feet bgs):</b> 15.0		to	<b>Total Well Depth (feet bgs):</b> 20.0
<b>Well Diameter (inches)</b> 1.0		<b>Well Casing Material:</b> PVC	

	NOTES/REMARKS  Depth to water: 6.4 feet bgs.
--	--

**PROJECT:** Fashions R Boutique  
**SITE:** 9844 W Florissant Ave., Dellwood, MO  
**BORING ID:** SB2 **MW ID:** GW2

**DATE:** 4/11/2018  
**LOGGED BY:** April Halley  
**Page** 2 **of** 2

Time	Recovered/Driven (in./in.)	PID Reading (ppb)	Sample Interval	Depth (feet bgs)	Soil Description
10:51		0.0			Asphalt
					Gravel
				1	CLAY, silty, gray, stiff
				2	
		0.0			
				3	
				4	Becomes soft
		0.0		5	CLAY, sandy, dark brown, slightly stiff
				6	
			SB2 (6-8)	7	
				8	CLAY, light brown, soft, moist
		0.1			
				9	
				10	CLAY, gray, soft, wet
		0.0		11	
				12	
				13	CLAY, gray/tan, soft, very wet
		0.0			
				14	
				15	
		0.0		16	
				17	
				18	
		0.0			
			SB2 (18-20)	19	
11:45				20	Boring terminated at 20.0 feet bgs. Temporary well set.

# BOREHOLE LOG

<b>Boring ID:</b> SB3			
<b>Monitoring Well ID:</b> GW3			
<b>Project Number:</b> 103X9025140002.051		<b>Project Name:</b> Fashions R Boutique	
<b>Client:</b> EPA R7			
<b>Site:</b> 9844 W Florissant Ave., Dellwood, MO			
<b>Borehole Location:</b> northeast corner of site			
<b>Logged By:</b> April Halley, Tetra Tech, Inc.			
<b>Drilling Contractor:</b> Plains Environmental			
<b>Drill Rig Type/Method:</b> DPT			
<b>Borehole Diameter (inches):</b> 2.0			
<b>Drill Start Date:</b> 4/11/2018		<b>Drill Start Time:</b> 12:09	
<b>Drill Finish Date:</b> 4/11/2018		<b>Drill Finish Time:</b> 14:19	
<b>Total Borehole Depth (feet bgs):</b> 29			
<b>Screen Interval (feet bgs):</b> 24.0		to	<b>Total Well Depth (feet bgs):</b> 29.0
<b>Well Diameter: (inches)</b> 1.0		<b>Well Casing Material:</b> PVC	

	NOTES/REMARKS  Depth to water: 14.0 feet bgs.
--	---



Time	Recovered/Driven (in./in.)	PID Reading (ppb)	Sample Interval	Depth (feet bgs)	Soil Description
1209		0.0			Asphalt, gravel, debris
				1	
				2	CLAY, sandy, brown, stiff
				3	
				4	CLAY, tan, soft
		0.0	SB3 (5-7)	5	
				6	
				7	CLAY, silty, dark gray, soft
				8	
				9	
		0.0		10	
				11	Intermittent gravel from 11' - 11.5'
				12	
				13	CLAY, tan to brown, soft
				14	
		0.0	SB3 (15-17)	15	
				16	
				17	
				18	CLAY, dark gray, soft, moist
				19	
		0.0		20	
				21	
				22	
				23	
				24	
		0.0		25	
				26	
				27	
				28	CLAY, tan to brown, soft, wet
				29	
1419					Boring terminated at 29 feet bgs. Temporary well set.

# BOREHOLE LOG

<b>Boring ID:</b> SB4			
<b>Monitoring Well ID:</b> GW4			
<b>Project Number:</b> 103X9025140002.051		<b>Project Name:</b> Fashions R Boutique	
<b>Client:</b> EPA R7			
<b>Site:</b> 9844 W Florissant Ave., Dellwood, MO			
<b>Borehole Location:</b> eastern edge of site			
<b>Logged By:</b> April Halley, Tetra Tech, Inc.			
<b>Drilling Contractor:</b> Plains Environmental			
<b>Drill Rig Type/Method:</b> DPT			
<b>Borehole Diameter (inches):</b> 2.0			
<b>Drill Start Date:</b> 4/11/2018		<b>Drill Start Time:</b> 14:43	
<b>Drill Finish Date:</b> 4/11/2018		<b>Drill Finish Time:</b> 15:30	
<b>Total Borehole Depth (feet bgs):</b> 20			
<b>Screen Interval (feet bgs):</b> 15.0		to	<b>Total Well Depth (feet bgs):</b> 20.0
<b>Well Diameter (inches)</b> 1.0		<b>Well Casing Material:</b> PVC	

	NOTES/REMARKS  Depth to water: 8.3 feet bgs.
--	--

**PROJECT:** Fashions R Boutique  
**SITE:** 9844 W Florissant Ave., Dellwood, MO  
**BORING ID:** SB4 **MW ID:** GW4

**DATE:** 4/11/2018  
**LOGGED BY:** April Halley  
**Page** 2 **of** 2

Time	Recovered/Driven (in./in.)	PID Reading (ppb)	Sample Interval	Depth (feet bgs)	Soil Description
1443		0.0			Asphalt and gravel
				1	
				2	CLAY, sandy, brown, stiff
				3	Gravel from 3 to 3.5 feet.
				4	CLAY, loamy, tan, slightly soft
		0.0		5	
				6	
				7	
				8	Becomes wet
				9	
		0.0	SB4 (10-12)	10	
				11	CLAY, silty, gray, soft
				12	
				13	
				14	CLAY, tan, soft
		0.0		15	
				16	
				17	CLAY, gray, very soft, very wet
			SB4 (18-20), SB4 (18-20)- FD	18	
				19	
1530				20	Boring terminated at 20.0 feet bgs. Temporary well set.

# BOREHOLE LOG

<b>Boring ID:</b> SB5			
<b>Monitoring Well ID:</b> GW5			
<b>Project Number:</b> 103X9025140002.051		<b>Project Name:</b> Fashions R Boutique	
<b>Client:</b> EPA R7			
<b>Site:</b> 9844 W Florissant Ave., Dellwood, MO			
<b>Borehole Location:</b> near southeast edge of former building footprint			
<b>Logged By:</b> April Halley, Tetra Tech, Inc.			
<b>Drilling Contractor:</b> Plains Environmental			
<b>Drill Rig Type/Method:</b> DPT			
<b>Borehole Diameter (inches):</b> 2.0			
<b>Drill Start Date:</b> 4/11/2018		<b>Drill Start Time:</b> 15:25	
<b>Drill Finish Date:</b> 4/11/2018		<b>Drill Finish Time:</b> 16:30	
<b>Total Borehole Depth (feet bgs):</b> 20			
<b>Screen Interval (feet bgs):</b> 15.0		to	20.0
		<b>Total Well Depth (feet bgs):</b> 20.0	
<b>Well Diameter: (inches)</b> 1.0		<b>Well Casing Material:</b> PVC	

NOTES/REMARKS

Depth to water: 9.5 feet bgs.

PROJECT: Fashions R Boutique  
SITE: 9844 W Florissant Ave., Dellwood, MO  
BORING ID: SB5 MW ID: GW5

DATE: 4/11/2018  
LOGGED BY: April Halley  
Page 2 of 2

Time	Recovered/Driven (in./in.)	PID Reading (ppb)	Sample Interval	Depth (feet bgs)	Soil Description
1525		0.0			Gravel
				1	CLAY, brown, very stiff
				2	
		0.0		3	
				4	
				5	CLAY, dark gray, slightly stiff
		0.0			
				6	Becomes soft
				7	
		0.0		8	
				9	
		0.0			
				10	Becomes very soft and wet
		0.0		11	
				12	
		500			
				13	
		612	SB5 (13-15)	14	
				15	
		498			
				16	
		680	SB5 (16-18)	17	
				18	
		359			
				19	CLAY, tan, soft, moist
		0.0			
				20	Boring terminated at 20.0 feet bgs. Temporary well set.
1630					

# BOREHOLE LOG

<b>Boring ID:</b> SB6			
<b>Monitoring Well ID:</b> NA			
<b>Project Number:</b> 103X9025140002.051		<b>Project Name:</b> Fashions R Boutique	
<b>Client:</b> EPA R7			
<b>Site:</b> 9844 W Florissant Ave., Dellwood, MO			
<b>Borehole Location:</b> near center of former building footprint			
<b>Logged By:</b> April Halley, Tetra Tech, Inc.			
<b>Drilling Contractor:</b> Plains Environmental			
<b>Drill Rig Type/Method:</b> DPT			
<b>Borehole Diameter (inches):</b> 2.0			
<b>Drill Start Date:</b> 4/12/2018		<b>Drill Start Time:</b> 7:47	
<b>Drill Finish Date:</b> 4/12/2018		<b>Drill Finish Time:</b> 8:30	
<b>Total Borehole Depth (feet bgs):</b> 20			
<b>Screen Interval (feet bgs):</b> 15.0		to	<b>Total Well Depth (feet bgs):</b> 20.0
<b>Well Diameter (inches)</b> 1.0		<b>Well Casing Material:</b> PVC	

NOTES/REMARKS	
	Depth to water: 17.0 feet bgs. When temporary well was set, no water could be recovered. There was possibly a void below the screen interval where water seeped through. There was no soil recovery from 15 to 20 ' bgs.

PROJECT: Fashions R Boutique  
SITE: 9844 W Florissant Ave., Dellwood, MO  
BORING ID: SB6 MW ID: NA

DATE: 4/12/2018  
LOGGED BY: April Halley  
Page 2 of 2

Time	Recovered/Driven (in./in.)	PID Reading (ppb)	Sample Interval	Depth (feet bgs)	Soil Description
07:47		0.0		1	Plant debris, gravel
					LOAM, brown, soft
					CLAY, loamy, brown, soft
				2	
		0.0		3	
				4	
				5	
		0.0		6	
			SB6 (6-8)	7	Becomes very soft, moist
				8	
				9	
		0.0		10	
				11	
				12	CLAY, loamy, gray/brown, very soft, moist
		0.0		13	
			SB6 (13-15)	14	
				15	
					No soil recovery from 15 to 20 feet bgs.
		0.0		16	
				17	
				18	
		0.0			
				19	
				20	
08:30					Boring terminated at 20.0 feet bgs. Temporary well set.

# BOREHOLE LOG

<b>Boring ID:</b> SB7			
<b>Monitoring Well ID:</b> GW7			
<b>Project Number:</b> 103X9025140002.051		<b>Project Name:</b> Fashions R Boutique	
<b>Client:</b> EPA R7			
<b>Site:</b> 9844 W Florissant Ave., Dellwood, MO			
<b>Borehole Location:</b> near western edge of former building footprint			
<b>Logged By:</b> April Halley, Tetra Tech, Inc.			
<b>Drilling Contractor:</b> Plains Environmental			
<b>Drill Rig Type/Method:</b> DPT			
<b>Borehole Diameter (inches):</b> 2.0			
<b>Drill Start Date:</b> 4/12/2018		<b>Drill Start Time:</b> 8:41	
<b>Drill Finish Date:</b> 4/12/2018		<b>Drill Finish Time:</b> 9:40	
<b>Total Borehole Depth (feet bgs):</b> 20			
<b>Screen Interval (feet bgs):</b> 15.0		to	20.0
		<b>Total Well Depth (feet bgs):</b> 20.0	
<b>Well Diameter: (inches)</b> 1.0		<b>Well Casing Material:</b> PVC	

<p>NOTES/REMARKS</p> <p>Depth to water: 10.9 feet bgs.</p>
--



**PROJECT:** Fashions R Boutique  
**SITE:** 9844 W Florissant Ave., Dellwood, MO  
**BORING ID:** SB7 **MW ID:** GW7

**DATE:** 4/12/2018  
**LOGGED BY:** April Halley  
**Page** 2 **of** 2

Time	Recovered/Driven (in./in.)	PID Reading (ppb)	Sample Interval	Depth (feet bgs)	Soil Description
08:41		0.0		1	Gravel, debris
					LOAM, brown, soft
					CLAY, loamy, brown/gray, slightly stiff
				2	
				3	
		0.0		4	
				5	
				6	
				7	Becomes soft
				8	
		0.0		9	
				10	
				11	
			SB7 (11-13)	12	CLAY, sandy, brown, very wet. Slight petroleum odor from 12 to 13 feet bgs.
				13	
		0.0		14	
				15	
				16	
				17	
				18	CLAY, brown, soft, slightly moist
			SB7 (18-20)	19	
09:40				20	Boring terminated at 20.0 feet bgs. Temporary well set.

# BOREHOLE LOG

Page 1 of 2

<b>Boring ID:</b> SB8			
<b>Monitoring Well ID:</b> N/A			
<b>Project Number:</b> 103X9025140002.051		<b>Project Name:</b> Fashions R Boutique	
<b>Client:</b> EPA R7			
<b>Site:</b> 9844 W Florissant Ave., Dellwood, MO			
<b>Borehole Location:</b> southwest corner of site			
<b>Logged By:</b> April Halley, Tetra Tech, Inc.			
<b>Drilling Contractor:</b> Plains Environmental			
<b>Drill Rig Type/Method:</b> DPT			
<b>Borehole Diameter (inches):</b> 2.0			
<b>Drill Start Date:</b> 4/12/2018		<b>Drill Start Time:</b> 9:46	
<b>Drill Finish Date:</b> 4/12/2018		<b>Drill Finish Time:</b> 10:40	
<b>Total Borehole Depth (feet bgs):</b> 23			
<b>Screen Interval (feet bgs):</b> N/A		<b>Total Well Depth (feet bgs):</b> N/A	
<b>Well Diameter: (inches)</b> N/A		<b>Well Casing Material:</b> N/A	

<p>NOTES/REMARKS</p> <p>Refusal encountered at 23 feet bgs.</p>
---

**PROJECT:** Fashions R Boutique  
**SITE:** 9844 W Florissant Ave., Dellwood, MO  
**BORING ID:** SB8 **MW ID:** N/A

**DATE:** 4/12/2018  
**LOGGED BY:** April Halley  
**Page** 2 **of** 2

Time	Recovered/Driven (in./in.)	PID Reading (ppb)	Sample Interval	Depth (feet bgs)	Soil Description
09:46		0.0			Asphalt, gravel, debris
				1	
				2	
				3	CLAY, loamy, brown, slightly stiff
				4	
		0.0		5	
				6	
				7	
				8	
				9	
		0.0		10	CLAY, brown, soft
				11	
			SB8 (11-13)	12	
				13	
				14	
		0.0		15	
				16	
				17	
				18	
				19	Becomes slightly stiff
		0.0		20	
				21	
			SB8 (21-23)	22	
1040				23	Refusal encountered at 23 feet bgs.

## **APPENDIX E**

### **ANALYTICAL REPORT AND DATA VALIDATION**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-150020-1

Client Project/Site: Fashions R Boutique

For:

Tetra Tech EM Inc.

415 Oak Street

Kansas City, Missouri 64106

Attn: Ms. Emily Fisher

*Roxanne Cisneros*

Authorized for release by:

4/30/2018 11:16:25 AM

Roxanne Cisneros, Senior Project Manager

(615)301-5761

[roxanne.cisneros@testamericainc.com](mailto:roxanne.cisneros@testamericainc.com)

### LINKS

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

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

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

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# Sample Summary

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-150020-1	GW1	Water	04/11/18 10:05	04/13/18 09:30
490-150020-2	GW2	Water	04/11/18 12:00	04/13/18 09:30
490-150020-3	GW3	Water	04/11/18 14:30	04/13/18 09:30
490-150020-4	GW4	Water	04/11/18 15:36	04/13/18 09:30
490-150020-5	GW5	Water	04/11/18 16:45	04/13/18 09:30
490-150020-6	GW7	Water	04/12/18 09:44	04/13/18 09:30
490-150020-7	GW7-FD	Water	04/12/18 09:44	04/13/18 09:30
490-150020-8	Equipment Blank	Water	04/12/18 10:55	04/13/18 09:30
490-150020-9	Field Blank	Water	04/12/18 11:12	04/13/18 09:30
490-150020-10	SB1 (12.5-14.5)	Solid	04/11/18 09:18	04/13/18 09:30
490-150020-11	SB1 (20-22)	Solid	04/11/18 09:45	04/13/18 09:30
490-150020-12	SB2 (6-8)	Solid	04/11/18 11:35	04/13/18 09:30
490-150020-13	SB2 (18-20)	Solid	04/11/18 11:40	04/13/18 09:30
490-150020-14	SB3 (5-7)	Solid	04/11/18 14:08	04/13/18 09:30
490-150020-15	SB3 (15-17)	Solid	04/11/18 14:18	04/13/18 09:30
490-150020-16	SB4 (10-12)	Solid	04/11/18 15:18	04/13/18 09:30
490-150020-17	SB4 (18-20)	Solid	04/11/18 15:29	04/13/18 09:30
490-150020-18	SB4 (18-20)-FD	Solid	04/11/18 15:29	04/13/18 09:30
490-150020-19	SB5 (13-15)	Solid	04/11/18 16:20	04/13/18 09:30
490-150020-20	SB5 (16-18)	Solid	04/11/18 16:34	04/13/18 09:30
490-150020-21	SB6 (6-8)	Solid	04/12/18 08:19	04/13/18 09:30
490-150020-22	SB6 (13-15)	Solid	04/12/18 08:25	04/13/18 09:30
490-150020-23	SB7 (11-13)	Solid	04/12/18 09:19	04/13/18 09:30
490-150020-24	SB7 (18-20)	Solid	04/12/18 09:36	04/13/18 09:30
490-150020-25	SB8 (11-13)	Solid	04/12/18 10:28	04/13/18 09:30
490-150020-26	SB8 (21-23)	Solid	04/12/18 10:35	04/13/18 09:30

# Case Narrative

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Job ID: 490-150020-1**

**Laboratory: TestAmerica Nashville**

## Narrative

### Job Narrative 490-150020-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/13/2018 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 3.1° C, 3.8° C, 4.2° C, 4.3° C and 5.8° C.

#### GC/MS VOA

Method(s) 8260B: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: GW1 (490-150020-1), GW3 (490-150020-3), GW4 (490-150020-4) and GW5 (490-150020-5).

Method(s) 8260B: The following volatile samples were analyzed with significant headspace in the sample container(s): GW4 (490-150020-4) and GW5 (490-150020-5). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method(s) 8260B: The container used for reanalysis of the following samples contained headspace: GW1 (490-150020-1) and GW5 (490-150020-5)

Method(s) 8260B: The method blank for analytical batch 490-510282 contained m-Xylene & p-Xylene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction or re-analysis of samples was not performed.

Method(s) 8260B: The method blank for analytical batch 490-510390 contained Naphthalene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

Method(s) 8260B: The method blank for 490-510907 contained 1,2,4-Trimethylbenzene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound. This analyte was not reported.

Method(s) 8260B: The method blank for analytical batch 490-510907 contained m-Xylene & p-Xylene and Naphthalene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL). This analyte was not reported.

Method(s) 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: SB5 (16-18) (490-150020-20).

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 490-510907 recovered outside control limits for the following analytes: 2-Chlorotoluene. This analyte was not reported.

Method(s) 8260B: Surrogate recovery for the following samples was outside control limits: GW3 (490-150020-3), GW5 (490-150020-5) and SB1 (12.5-14.5) (490-150020-10), SB6 (6-8) (490-150020-21) and SB7 (11-13) (490-150020-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 490-510390 recovered outside control limits for the following analytes: Methyl tert-butyl ether.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-510576, 490-510617, and 490-510643.

Method(s) 8260B: Batch 490-510907 is reported without a matrix spike/matrix spike duplicate (MS/MSD). The batch MS/MSD was originally performed on another client's sample, and this test was canceled at client request. This MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.



## Case Narrative

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

### Job ID: 490-150020-1 (Continued)

#### Laboratory: TestAmerica Nashville (Continued)

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

#### GC/MS Semi VOA

Method(s) 8270C: The following sample was diluted due to the nature of the sample matrix: GW3 (490-150020-3). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: Surrogate recovery for the following sample was outside control limits: GW5 (490-150020-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270C: The method blank for preparation batch 490-508958 and analytical batch 490-509306 contained Diesel Range Organics C10-C21 above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

Method(s) 8270C: The method blank for preparation batch 490-508376 and analytical batch 490-509598 contained Diesel Range Organics C10-C21 and Oil Range Organics C21-C35 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270C: The method blank for preparation batch 490-508958 and analytical batch 490-509306 contained Oil Range Organics C21-C35 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 490-508376 and analytical batch 490-509598.

Method(s) 8270C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 490-508958 and analytical batch 490-509306.

Method(s) 8270C: The following sample was diluted due to the nature of the sample matrix: SB5 (16-18) (490-150020-20). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The following sample was diluted due to the physical nature of the sample matrix: SB3 (5-7) (490-150020-14). 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.

#### Metals

Method(s) 6020A: The method blank for preparation batch 490-509092 and analytical batch 490-509821 contained Barium and Chromium above the method detection limit (MDL). Associated samples were not re-analyzed because results were less than the reporting limit (RL).

Method(s) 6020A: The method blank for preparation batch 490-509820 and analytical batch 490-510598 contained Barium and Selenium above the method detection limit (MDL). Associated samples were not re-analyzed because results were less than the reporting limit (RL).

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.

#### VOA Prep

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

# Definitions/Glossary

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.
*	ISTD response or retention time outside acceptable limits
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
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.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F4	MS/MSD RPD exceeds control limits due to sample size difference.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW1**

**Date Collected: 04/11/18 10:05**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-1**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	8.17	J	25.0	2.66	ug/L			04/24/18 18:50	1
Benzene	1.61		1.00	0.200	ug/L			04/23/18 21:48	1
Bromobenzene	ND		1.00	0.210	ug/L			04/24/18 18:50	1
Bromoform	ND		1.00	0.290	ug/L			04/24/18 18:50	1
Bromomethane	ND		1.00	0.350	ug/L			04/24/18 18:50	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			04/24/18 18:50	1
Carbon disulfide	0.377	J	1.00	0.220	ug/L			04/24/18 18:50	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			04/24/18 18:50	1
Chlorobenzene	ND		1.00	0.180	ug/L			04/24/18 18:50	1
Chlorobromomethane	ND		1.00	0.150	ug/L			04/24/18 18:50	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			04/24/18 18:50	1
Chloroethane	ND		1.00	0.360	ug/L			04/24/18 18:50	1
Chloroform	ND		1.00	0.230	ug/L			04/24/18 18:50	1
Chloromethane	ND		1.00	0.360	ug/L			04/24/18 18:50	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			04/24/18 18:50	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			04/24/18 18:50	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			04/24/18 18:50	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 18:50	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			04/24/18 18:50	1
Dibromomethane	ND		1.00	0.450	ug/L			04/24/18 18:50	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			04/24/18 18:50	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			04/24/18 18:50	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			04/24/18 18:50	1
Dichlorobromomethane	ND		1.00	0.170	ug/L			04/24/18 18:50	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			04/24/18 18:50	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			04/24/18 18:50	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			04/24/18 18:50	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			04/24/18 18:50	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			04/24/18 18:50	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			04/24/18 18:50	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			04/24/18 18:50	1
Diisopropyl ether	ND		2.00	0.170	ug/L			04/23/18 21:48	1
EDB	ND		1.00	0.210	ug/L			04/23/18 21:48	1
EDC	ND		1.00	0.200	ug/L			04/23/18 21:48	1
Ethylbenzene	1.10		1.00	0.190	ug/L			04/23/18 21:48	1
Ethyl tert-butyl ether	ND		1.00	0.210	ug/L			04/23/18 21:48	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			04/24/18 18:50	1
2-Hexanone	ND		10.0	1.28	ug/L			04/24/18 18:50	1
Isopropylbenzene	40.9		1.00	0.330	ug/L			04/23/18 21:48	1
4-Isopropyltoluene	3.75		1.00	0.170	ug/L			04/23/18 21:48	1
Methylene Chloride	ND		5.00	1.00	ug/L			04/24/18 18:50	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			04/24/18 18:50	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			04/23/18 21:48	1
m-Xylene & p-Xylene	0.705	J	2.00	0.380	ug/L			04/23/18 21:48	1
Naphthalene	ND		5.00	0.210	ug/L			04/23/18 21:48	1
n-Butylbenzene	99.6		1.00	0.240	ug/L			04/23/18 21:48	1
N-Propylbenzene	239		10.0	1.70	ug/L			04/24/18 17:55	10
o-Xylene	ND		1.00	0.200	ug/L			04/23/18 21:48	1
sec-Butylbenzene	34.2		1.00	0.170	ug/L			04/23/18 21:48	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW1**

**Date Collected: 04/11/18 10:05**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-1**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.00	0.280	ug/L			04/24/18 18:50	1
Tert-amyl methyl ether	ND		1.00	0.170	ug/L			04/23/18 21:48	1
tert-Butyl alcohol (TBA)	ND		10.0	3.90	ug/L			04/23/18 21:48	1
<b>tert-Butylbenzene</b>	<b>0.597</b>	<b>J</b>	1.00	0.170	ug/L			04/23/18 21:48	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			04/24/18 18:50	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			04/24/18 18:50	1
Tetrachloroethene	ND		1.00	0.140	ug/L			04/24/18 18:50	1
Toluene	ND		1.00	0.170	ug/L			04/23/18 21:48	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			04/24/18 18:50	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 18:50	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			04/24/18 18:50	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			04/24/18 18:50	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 18:50	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 18:50	1
Trichloroethene	ND		1.00	0.200	ug/L			04/24/18 18:50	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			04/24/18 18:50	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			04/24/18 18:50	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.259</b>	<b>J</b>	1.00	0.170	ug/L			04/23/18 21:48	1
<b>1,3,5-Trimethylbenzene</b>	<b>4.81</b>		1.00	0.170	ug/L			04/23/18 21:48	1
Vinyl chloride	ND		1.00	0.180	ug/L			04/24/18 18:50	1
<b>Xylenes, Total</b>	<b>0.705</b>	<b>J</b>	3.00	0.580	ug/L			04/23/18 21:48	1
<b>Gasoline Range Organics [C6 - C10]</b>	<b>2700</b>		400	200	ug/L			04/23/18 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130		04/23/18 21:48	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/24/18 17:55	10
4-Bromofluorobenzene (Surr)	94		70 - 130		04/24/18 18:50	1
Dibromofluoromethane (Surr)	101		70 - 130		04/23/18 21:48	1
Dibromofluoromethane (Surr)	97		70 - 130		04/24/18 17:55	10
Dibromofluoromethane (Surr)	93		70 - 130		04/24/18 18:50	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		04/23/18 21:48	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		04/24/18 17:55	10
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/24/18 18:50	1
Toluene-d8 (Surr)	98		70 - 130		04/23/18 21:48	1
Toluene-d8 (Surr)	97		70 - 130		04/24/18 17:55	10
Toluene-d8 (Surr)	97		70 - 130		04/24/18 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>3080</b>	<b>B</b>	500	139	ug/L		04/17/18 17:09	04/19/18 13:22	1
<b>Oil Range Organics C21-C35</b>	<b>224</b>	<b>J B</b>	500	139	ug/L		04/17/18 17:09	04/19/18 13:22	1
<b>Acenaphthene</b>	<b>1.13</b>	<b>J</b>	2.00	0.526	ug/L		04/17/18 17:09	04/19/18 13:22	1
Acenaphthylene	ND		2.00	0.451	ug/L		04/17/18 17:09	04/19/18 13:22	1
Anthracene	ND		2.00	0.477	ug/L		04/17/18 17:09	04/19/18 13:22	1
Benzo[a]anthracene	ND		2.00	0.483	ug/L		04/17/18 17:09	04/19/18 13:22	1
Benzo[a]pyrene	ND		2.00	0.414	ug/L		04/17/18 17:09	04/19/18 13:22	1
Benzo[b]fluoranthene	ND		2.00	0.258	ug/L		04/17/18 17:09	04/19/18 13:22	1
Benzo[g,h,i]perylene	ND		2.00	0.369	ug/L		04/17/18 17:09	04/19/18 13:22	1
Benzo[k]fluoranthene	ND		2.00	0.618	ug/L		04/17/18 17:09	04/19/18 13:22	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW1**

**Date Collected: 04/11/18 10:05**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-1**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		2.00	0.464	ug/L		04/17/18 17:09	04/19/18 13:22	1
Dibenz(a,h)anthracene	ND		2.00	0.441	ug/L		04/17/18 17:09	04/19/18 13:22	1
Fluoranthene	ND		2.00	0.449	ug/L		04/17/18 17:09	04/19/18 13:22	1
<b>Fluorene</b>	<b>0.844</b>	<b>J</b>	2.00	0.492	ug/L		04/17/18 17:09	04/19/18 13:22	1
Indeno[1,2,3-cd]pyrene	ND		2.00	0.385	ug/L		04/17/18 17:09	04/19/18 13:22	1
Naphthalene	ND		2.00	0.629	ug/L		04/17/18 17:09	04/19/18 13:22	1
<b>Phenanthrene</b>	<b>0.681</b>	<b>J</b>	2.00	0.451	ug/L		04/17/18 17:09	04/19/18 13:22	1
Pyrene	ND		2.00	0.396	ug/L		04/17/18 17:09	04/19/18 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	43		29 - 120				04/17/18 17:09	04/19/18 13:22	1
Nitrobenzene-d5 (Surr)	45		27 - 120				04/17/18 17:09	04/19/18 13:22	1
Terphenyl-d14 (Surr)	37		13 - 120				04/17/18 17:09	04/19/18 13:22	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0156</b>		0.00200	0.000400	mg/L		04/20/18 18:51	04/24/18 17:12	1
<b>Barium</b>	<b>1.14</b>	<b>B</b>	0.00200	0.000100	mg/L		04/20/18 18:51	04/24/18 17:12	1
<b>Cadmium</b>	<b>0.00201</b>		0.00100	0.000100	mg/L		04/20/18 18:51	04/24/18 17:12	1
<b>Chromium</b>	<b>0.0147</b>		0.00200	0.000500	mg/L		04/20/18 18:51	04/24/18 17:12	1
<b>Lead</b>	<b>0.00762</b>		0.00200	0.000100	mg/L		04/20/18 18:51	04/24/18 17:12	1
<b>Selenium</b>	<b>0.000320</b>	<b>J B</b>	0.00200	0.000300	mg/L		04/20/18 18:51	04/24/18 17:12	1
Silver	ND		0.00200	0.000800	mg/L		04/20/18 18:51	04/24/18 17:12	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW2**

**Date Collected: 04/11/18 12:00**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-2**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>3.36</b>	<b>J</b>	25.0	2.66	ug/L			04/24/18 17:28	1
Benzene	ND		1.00	0.200	ug/L			04/23/18 21:21	1
Bromobenzene	ND		1.00	0.210	ug/L			04/24/18 17:28	1
Bromoform	ND		1.00	0.290	ug/L			04/24/18 17:28	1
Bromomethane	ND		1.00	0.350	ug/L			04/24/18 17:28	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			04/24/18 17:28	1
<b>Carbon disulfide</b>	<b>0.612</b>	<b>J</b>	1.00	0.220	ug/L			04/24/18 17:28	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			04/24/18 17:28	1
Chlorobenzene	ND		1.00	0.180	ug/L			04/24/18 17:28	1
Chlorobromomethane	ND		1.00	0.150	ug/L			04/24/18 17:28	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			04/24/18 17:28	1
Chloroethane	ND		1.00	0.360	ug/L			04/24/18 17:28	1
Chloroform	ND		1.00	0.230	ug/L			04/24/18 17:28	1
Chloromethane	ND		1.00	0.360	ug/L			04/24/18 17:28	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			04/24/18 17:28	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			04/24/18 17:28	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			04/24/18 17:28	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 17:28	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			04/24/18 17:28	1
Dibromomethane	ND		1.00	0.450	ug/L			04/24/18 17:28	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			04/24/18 17:28	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			04/24/18 17:28	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			04/24/18 17:28	1
Dichlorobromomethane	ND		1.00	0.170	ug/L			04/24/18 17:28	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			04/24/18 17:28	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			04/24/18 17:28	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			04/24/18 17:28	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			04/24/18 17:28	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			04/24/18 17:28	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			04/24/18 17:28	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			04/24/18 17:28	1
Diisopropyl ether	ND		2.00	0.170	ug/L			04/23/18 21:21	1
EDB	ND		1.00	0.210	ug/L			04/23/18 21:21	1
EDC	ND		1.00	0.200	ug/L			04/23/18 21:21	1
Ethylbenzene	ND		1.00	0.190	ug/L			04/23/18 21:21	1
Ethyl tert-butyl ether	ND		1.00	0.210	ug/L			04/23/18 21:21	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			04/24/18 17:28	1
2-Hexanone	ND		10.0	1.28	ug/L			04/24/18 17:28	1
Isopropylbenzene	ND		1.00	0.330	ug/L			04/23/18 21:21	1
<b>4-Isopropyltoluene</b>	<b>0.221</b>	<b>J</b>	1.00	0.170	ug/L			04/23/18 21:21	1
Methylene Chloride	ND		5.00	1.00	ug/L			04/24/18 17:28	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			04/24/18 17:28	1
<b>Methyl tert-butyl ether</b>	<b>1.80</b>		1.00	0.170	ug/L			04/23/18 21:21	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			04/23/18 21:21	1
<b>Naphthalene</b>	<b>0.250</b>	<b>J B</b>	5.00	0.210	ug/L			04/24/18 17:28	1
<b>n-Butylbenzene</b>	<b>0.244</b>	<b>J</b>	1.00	0.240	ug/L			04/24/18 17:28	1
N-Propylbenzene	ND		1.00	0.170	ug/L			04/24/18 16:36	1
o-Xylene	ND		1.00	0.200	ug/L			04/23/18 21:21	1
<b>sec-Butylbenzene</b>	<b>1.55</b>		1.00	0.170	ug/L			04/23/18 21:21	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW2**

**Date Collected: 04/11/18 12:00**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-2**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.00	0.280	ug/L			04/24/18 17:28	1
Tert-amyl methyl ether	ND		1.00	0.170	ug/L			04/23/18 21:21	1
tert-Butyl alcohol (TBA)	ND		10.0	3.90	ug/L			04/23/18 21:21	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			04/23/18 21:21	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			04/24/18 17:28	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			04/24/18 17:28	1
Tetrachloroethene	ND		1.00	0.140	ug/L			04/24/18 17:28	1
Toluene	ND		1.00	0.170	ug/L			04/23/18 21:21	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			04/24/18 17:28	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 17:28	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			04/24/18 17:28	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			04/24/18 17:28	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 17:28	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 17:28	1
Trichloroethene	ND		1.00	0.200	ug/L			04/24/18 17:28	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			04/24/18 17:28	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			04/24/18 17:28	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 21:21	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 21:21	1
Vinyl chloride	ND		1.00	0.180	ug/L			04/24/18 17:28	1
Xylenes, Total	ND		3.00	0.580	ug/L			04/23/18 21:21	1
Gasoline Range Organics [C6 - C10]	ND		400	200	ug/L			04/24/18 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		04/23/18 21:21	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/24/18 16:36	1
4-Bromofluorobenzene (Surr)	93		70 - 130		04/24/18 17:28	1
Dibromofluoromethane (Surr)	98		70 - 130		04/23/18 21:21	1
Dibromofluoromethane (Surr)	98		70 - 130		04/24/18 16:36	1
Dibromofluoromethane (Surr)	98		70 - 130		04/24/18 17:28	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/23/18 21:21	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		04/24/18 16:36	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/24/18 17:28	1
Toluene-d8 (Surr)	95		70 - 130		04/23/18 21:21	1
Toluene-d8 (Surr)	96		70 - 130		04/24/18 16:36	1
Toluene-d8 (Surr)	99		70 - 130		04/24/18 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>202</b>	<b>J B</b>	488	136	ug/L		04/17/18 17:09	04/19/18 13:43	1
<b>Oil Range Organics C21-C35</b>	<b>252</b>	<b>J B</b>	488	136	ug/L		04/17/18 17:09	04/19/18 13:43	1
Acenaphthene	ND		1.95	0.513	ug/L		04/17/18 17:09	04/19/18 13:43	1
Acenaphthylene	ND		1.95	0.440	ug/L		04/17/18 17:09	04/19/18 13:43	1
Anthracene	ND		1.95	0.465	ug/L		04/17/18 17:09	04/19/18 13:43	1
Benzo[a]anthracene	ND		1.95	0.471	ug/L		04/17/18 17:09	04/19/18 13:43	1
Benzo[a]pyrene	ND		1.95	0.404	ug/L		04/17/18 17:09	04/19/18 13:43	1
Benzo[b]fluoranthene	ND		1.95	0.252	ug/L		04/17/18 17:09	04/19/18 13:43	1
Benzo[g,h,i]perylene	ND		1.95	0.360	ug/L		04/17/18 17:09	04/19/18 13:43	1
Benzo[k]fluoranthene	ND		1.95	0.603	ug/L		04/17/18 17:09	04/19/18 13:43	1
Chrysene	ND		1.95	0.453	ug/L		04/17/18 17:09	04/19/18 13:43	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW2**

**Date Collected: 04/11/18 12:00**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-2**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		1.95	0.430	ug/L		04/17/18 17:09	04/19/18 13:43	1
Fluoranthene	ND		1.95	0.438	ug/L		04/17/18 17:09	04/19/18 13:43	1
Fluorene	ND		1.95	0.480	ug/L		04/17/18 17:09	04/19/18 13:43	1
Indeno[1,2,3-cd]pyrene	ND		1.95	0.376	ug/L		04/17/18 17:09	04/19/18 13:43	1
Naphthalene	ND		1.95	0.614	ug/L		04/17/18 17:09	04/19/18 13:43	1
Phenanthrene	ND		1.95	0.440	ug/L		04/17/18 17:09	04/19/18 13:43	1
Pyrene	ND		1.95	0.386	ug/L		04/17/18 17:09	04/19/18 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	29		29 - 120	04/17/18 17:09	04/19/18 13:43	1
Nitrobenzene-d5 (Surr)	27		27 - 120	04/17/18 17:09	04/19/18 13:43	1
Terphenyl-d14 (Surr)	17		13 - 120	04/17/18 17:09	04/19/18 13:43	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0209		0.00200	0.000400	mg/L		04/20/18 18:51	04/24/18 17:15	1
Barium	1.10	B	0.00200	0.000100	mg/L		04/20/18 18:51	04/24/18 17:15	1
Cadmium	0.0501		0.00100	0.000100	mg/L		04/20/18 18:51	04/24/18 17:15	1
Chromium	0.0135		0.00200	0.000500	mg/L		04/20/18 18:51	04/24/18 17:15	1
Lead	0.00898		0.00200	0.000100	mg/L		04/20/18 18:51	04/24/18 17:15	1
Selenium	ND		0.00200	0.000300	mg/L		04/20/18 18:51	04/24/18 17:15	1
Silver	ND		0.00200	0.000800	mg/L		04/20/18 18:51	04/24/18 17:15	1

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW3**

**Date Collected: 04/11/18 14:30**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-3**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25.6		25.0	2.66	ug/L			04/24/18 19:17	1
Benzene	8.15		1.00	0.200	ug/L			04/23/18 20:55	1
Bromobenzene	ND		1.00	0.210	ug/L			04/24/18 19:17	1
Bromoform	ND		1.00	0.290	ug/L			04/24/18 19:17	1
Bromomethane	ND		1.00	0.350	ug/L			04/24/18 19:17	1
2-Butanone (MEK)	4.99	J	50.0	2.64	ug/L			04/24/18 19:17	1
Carbon disulfide	0.678	J	1.00	0.220	ug/L			04/24/18 19:17	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			04/24/18 19:17	1
Chlorobenzene	ND		1.00	0.180	ug/L			04/24/18 19:17	1
Chlorobromomethane	ND		1.00	0.150	ug/L			04/24/18 19:17	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			04/24/18 19:17	1
Chloroethane	ND		1.00	0.360	ug/L			04/24/18 19:17	1
Chloroform	ND		1.00	0.230	ug/L			04/24/18 19:17	1
Chloromethane	ND		1.00	0.360	ug/L			04/24/18 19:17	1
2-Chlorotoluene	5.38		1.00	0.180	ug/L			04/24/18 19:17	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			04/24/18 19:17	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			04/24/18 19:17	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 19:17	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			04/24/18 19:17	1
Dibromomethane	ND		1.00	0.450	ug/L			04/24/18 19:17	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			04/24/18 19:17	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			04/24/18 19:17	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			04/24/18 19:17	1
Dichlorobromomethane	ND		1.00	0.170	ug/L			04/24/18 19:17	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			04/24/18 19:17	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			04/24/18 19:17	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			04/24/18 19:17	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			04/24/18 19:17	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			04/24/18 19:17	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			04/24/18 19:17	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			04/24/18 19:17	1
Diisopropyl ether	ND		2.00	0.170	ug/L			04/23/18 20:55	1
EDB	ND		1.00	0.210	ug/L			04/23/18 20:55	1
EDC	ND		1.00	0.200	ug/L			04/23/18 20:55	1
Ethylbenzene	12.6		1.00	0.190	ug/L			04/23/18 20:55	1
Ethyl tert-butyl ether	ND		1.00	0.210	ug/L			04/23/18 20:55	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			04/24/18 19:17	1
2-Hexanone	ND		10.0	1.28	ug/L			04/24/18 19:17	1
Isopropylbenzene	166		1.00	0.330	ug/L			04/23/18 20:55	1
4-Isopropyltoluene	24.1		1.00	0.170	ug/L			04/23/18 20:55	1
Methylene Chloride	ND		5.00	1.00	ug/L			04/24/18 19:17	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			04/24/18 19:17	1
Methyl tert-butyl ether	38.0		1.00	0.170	ug/L			04/23/18 20:55	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			04/23/18 20:55	1
Naphthalene	108		5.00	0.210	ug/L			04/23/18 20:55	1
n-Butylbenzene	308		1.00	0.240	ug/L			04/23/18 20:55	1
N-Propylbenzene	962		10.0	1.70	ug/L			04/24/18 17:29	10
o-Xylene	ND		1.00	0.200	ug/L			04/23/18 20:55	1
sec-Butylbenzene	105		1.00	0.170	ug/L			04/23/18 20:55	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW3**

**Date Collected: 04/11/18 14:30**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-3**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.00	0.280	ug/L			04/24/18 19:17	1
Tert-amyl methyl ether	ND		1.00	0.170	ug/L			04/23/18 20:55	1
tert-Butyl alcohol (TBA)	ND		10.0	3.90	ug/L			04/23/18 20:55	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			04/23/18 20:55	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			04/24/18 19:17	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			04/24/18 19:17	1
Tetrachloroethene	ND		1.00	0.140	ug/L			04/24/18 19:17	1
<b>Toluene</b>	<b>1.18</b>		1.00	0.170	ug/L			04/23/18 20:55	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			04/24/18 19:17	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 19:17	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			04/24/18 19:17	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			04/24/18 19:17	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 19:17	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 19:17	1
Trichloroethene	ND		1.00	0.200	ug/L			04/24/18 19:17	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			04/24/18 19:17	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			04/24/18 19:17	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 20:55	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 20:55	1
Vinyl chloride	ND		1.00	0.180	ug/L			04/24/18 19:17	1
Xylenes, Total	ND		3.00	0.580	ug/L			04/23/18 20:55	1
<b>Gasoline Range Organics [C6 - C10]</b>	<b>104000</b>		4000	2000	ug/L			04/24/18 17:29	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130		04/23/18 20:55	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/24/18 17:29	10
4-Bromofluorobenzene (Surr)	119		70 - 130		04/24/18 19:17	1
Dibromofluoromethane (Surr)	97		70 - 130		04/23/18 20:55	1
Dibromofluoromethane (Surr)	98		70 - 130		04/24/18 17:29	10
Dibromofluoromethane (Surr)	90		70 - 130		04/24/18 19:17	1
1,2-Dichloroethane-d4 (Surr)	78		70 - 130		04/23/18 20:55	1
1,2-Dichloroethane-d4 (Surr)	79		70 - 130		04/24/18 17:29	10
1,2-Dichloroethane-d4 (Surr)	195	X	70 - 130		04/24/18 19:17	1
Toluene-d8 (Surr)	125		70 - 130		04/23/18 20:55	1
Toluene-d8 (Surr)	103		70 - 130		04/24/18 17:29	10
Toluene-d8 (Surr)	103		70 - 130		04/24/18 19:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>68800</b>	<b>B</b>	9520	2650	ug/L		04/17/18 17:09	04/19/18 17:21	20
<b>Oil Range Organics C21-C35</b>	<b>663</b>	<b>J B</b>	952	265	ug/L		04/17/18 17:09	04/19/18 14:05	2
<b>Acenaphthene</b>	<b>6.57</b>		3.81	1.00	ug/L		04/17/18 17:09	04/19/18 14:05	2
Acenaphthylene	ND		3.81	0.859	ug/L		04/17/18 17:09	04/19/18 14:05	2
<b>Anthracene</b>	<b>1.78</b>	<b>J</b>	3.81	0.909	ug/L		04/17/18 17:09	04/19/18 14:05	2
Benzo[a]anthracene	ND		3.81	0.920	ug/L		04/17/18 17:09	04/19/18 14:05	2
Benzo[a]pyrene	ND		3.81	0.789	ug/L		04/17/18 17:09	04/19/18 14:05	2
Benzo[b]fluoranthene	ND		3.81	0.491	ug/L		04/17/18 17:09	04/19/18 14:05	2
Benzo[g,h,i]perylene	ND		3.81	0.703	ug/L		04/17/18 17:09	04/19/18 14:05	2
Benzo[k]fluoranthene	ND		3.81	1.18	ug/L		04/17/18 17:09	04/19/18 14:05	2

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW3**

**Date Collected: 04/11/18 14:30**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-3**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		3.81	0.884	ug/L		04/17/18 17:09	04/19/18 14:05	2
Dibenz(a,h)anthracene	ND		3.81	0.840	ug/L		04/17/18 17:09	04/19/18 14:05	2
Fluoranthene	1.72	J	3.81	0.855	ug/L		04/17/18 17:09	04/19/18 14:05	2
Fluorene	5.38		3.81	0.937	ug/L		04/17/18 17:09	04/19/18 14:05	2
Indeno[1,2,3-cd]pyrene	ND		3.81	0.733	ug/L		04/17/18 17:09	04/19/18 14:05	2
Naphthalene	285		19.0	5.99	ug/L		04/17/18 17:09	04/19/18 16:37	10
Phenanthrene	5.83		3.81	0.859	ug/L		04/17/18 17:09	04/19/18 14:05	2
Pyrene	1.48	J	3.81	0.754	ug/L		04/17/18 17:09	04/19/18 14:05	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	82		29 - 120				04/17/18 17:09	04/19/18 14:05	2
Nitrobenzene-d5 (Surr)	104		27 - 120				04/17/18 17:09	04/19/18 14:05	2
Terphenyl-d14 (Surr)	70		13 - 120				04/17/18 17:09	04/19/18 14:05	2

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0470		0.00200	0.000400	mg/L		04/20/18 18:51	04/24/18 17:18	1
Barium	3.75	B	0.00200	0.000100	mg/L		04/20/18 18:51	04/24/18 17:18	1
Cadmium	0.00247		0.00100	0.000100	mg/L		04/20/18 18:51	04/24/18 17:18	1
Chromium	0.0371		0.00200	0.000500	mg/L		04/20/18 18:51	04/24/18 17:18	1
Lead	0.351		0.00200	0.000100	mg/L		04/20/18 18:51	04/24/18 17:18	1
Selenium	0.000757	J	0.00200	0.000300	mg/L		04/20/18 18:51	04/25/18 14:18	1
Silver	ND		0.00200	0.000800	mg/L		04/20/18 18:51	04/24/18 17:18	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW4**

**Date Collected: 04/11/18 15:36**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-4**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>6.06</b>	<b>J</b>	25.0	2.66	ug/L			04/24/18 17:55	1
Benzene	ND		1.00	0.200	ug/L			04/23/18 20:28	1
Bromobenzene	ND		1.00	0.210	ug/L			04/24/18 17:55	1
Bromoform	ND		1.00	0.290	ug/L			04/24/18 17:55	1
Bromomethane	ND		1.00	0.350	ug/L			04/24/18 17:55	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			04/24/18 17:55	1
<b>Carbon disulfide</b>	<b>0.312</b>	<b>J</b>	1.00	0.220	ug/L			04/24/18 17:55	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			04/24/18 17:55	1
Chlorobenzene	ND		1.00	0.180	ug/L			04/24/18 17:55	1
Chlorobromomethane	ND		1.00	0.150	ug/L			04/24/18 17:55	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			04/24/18 17:55	1
Chloroethane	ND		1.00	0.360	ug/L			04/24/18 17:55	1
Chloroform	ND		1.00	0.230	ug/L			04/24/18 17:55	1
Chloromethane	ND		1.00	0.360	ug/L			04/24/18 17:55	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			04/24/18 17:55	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			04/24/18 17:55	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			04/24/18 17:55	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 17:55	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			04/24/18 17:55	1
Dibromomethane	ND		1.00	0.450	ug/L			04/24/18 17:55	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			04/24/18 17:55	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			04/24/18 17:55	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			04/24/18 17:55	1
Dichlorobromomethane	ND		1.00	0.170	ug/L			04/24/18 17:55	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			04/24/18 17:55	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			04/24/18 17:55	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			04/24/18 17:55	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			04/24/18 17:55	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			04/24/18 17:55	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			04/24/18 17:55	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			04/24/18 17:55	1
Diisopropyl ether	ND		2.00	0.170	ug/L			04/23/18 20:28	1
EDB	ND		1.00	0.210	ug/L			04/23/18 20:28	1
EDC	ND		1.00	0.200	ug/L			04/23/18 20:28	1
Ethylbenzene	ND		1.00	0.190	ug/L			04/23/18 20:28	1
Ethyl tert-butyl ether	ND		1.00	0.210	ug/L			04/23/18 20:28	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			04/24/18 17:55	1
2-Hexanone	ND		10.0	1.28	ug/L			04/24/18 17:55	1
Isopropylbenzene	ND		1.00	0.330	ug/L			04/23/18 20:28	1
4-Isopropyltoluene	ND		1.00	0.170	ug/L			04/23/18 20:28	1
Methylene Chloride	ND		5.00	1.00	ug/L			04/24/18 17:55	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			04/24/18 17:55	1
<b>Methyl tert-butyl ether</b>	<b>17.5</b>		1.00	0.170	ug/L			04/23/18 20:28	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			04/23/18 20:28	1
Naphthalene	ND		5.00	0.210	ug/L			04/23/18 20:28	1
<b>n-Butylbenzene</b>	<b>4.86</b>		1.00	0.240	ug/L			04/23/18 20:28	1
N-Propylbenzene	ND		1.00	0.170	ug/L			04/24/18 17:02	1
o-Xylene	ND		1.00	0.200	ug/L			04/23/18 20:28	1
<b>sec-Butylbenzene</b>	<b>1.93</b>		1.00	0.170	ug/L			04/23/18 20:28	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW4**

**Date Collected: 04/11/18 15:36**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-4**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.00	0.280	ug/L			04/24/18 17:55	1
<b>Tert-amyl methyl ether</b>	<b>1.02</b>		1.00	0.170	ug/L			04/23/18 20:28	1
tert-Butyl alcohol (TBA)	ND		10.0	3.90	ug/L			04/23/18 20:28	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			04/23/18 20:28	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			04/24/18 17:55	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			04/24/18 17:55	1
Tetrachloroethene	ND		1.00	0.140	ug/L			04/24/18 17:55	1
Toluene	ND		1.00	0.170	ug/L			04/23/18 20:28	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			04/24/18 17:55	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 17:55	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			04/24/18 17:55	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			04/24/18 17:55	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 17:55	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 17:55	1
Trichloroethene	ND		1.00	0.200	ug/L			04/24/18 17:55	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			04/24/18 17:55	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			04/24/18 17:55	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 20:28	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 20:28	1
Vinyl chloride	ND		1.00	0.180	ug/L			04/24/18 17:55	1
Xylenes, Total	ND		3.00	0.580	ug/L			04/23/18 20:28	1
<b>Gasoline Range Organics [C6 - C10]</b>	<b>400</b>		400	200	ug/L			04/24/18 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130		04/23/18 20:28	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/24/18 17:02	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/24/18 17:55	1
Dibromofluoromethane (Surr)	97		70 - 130		04/23/18 20:28	1
Dibromofluoromethane (Surr)	99		70 - 130		04/24/18 17:02	1
Dibromofluoromethane (Surr)	97		70 - 130		04/24/18 17:55	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		04/23/18 20:28	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/24/18 17:02	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		04/24/18 17:55	1
Toluene-d8 (Surr)	96		70 - 130		04/23/18 20:28	1
Toluene-d8 (Surr)	96		70 - 130		04/24/18 17:02	1
Toluene-d8 (Surr)	95		70 - 130		04/24/18 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>292</b>	<b>J B</b>	500	139	ug/L		04/17/18 17:09	04/19/18 14:27	1
<b>Oil Range Organics C21-C35</b>	<b>282</b>	<b>J B</b>	500	139	ug/L		04/17/18 17:09	04/19/18 14:27	1
Acenaphthene	ND		2.00	0.526	ug/L		04/17/18 17:09	04/19/18 14:27	1
Acenaphthylene	ND		2.00	0.451	ug/L		04/17/18 17:09	04/19/18 14:27	1
Anthracene	ND		2.00	0.477	ug/L		04/17/18 17:09	04/19/18 14:27	1
Benzo[a]anthracene	ND		2.00	0.483	ug/L		04/17/18 17:09	04/19/18 14:27	1
Benzo[a]pyrene	ND		2.00	0.414	ug/L		04/17/18 17:09	04/19/18 14:27	1
Benzo[b]fluoranthene	ND		2.00	0.258	ug/L		04/17/18 17:09	04/19/18 14:27	1
Benzo[g,h,i]perylene	ND		2.00	0.369	ug/L		04/17/18 17:09	04/19/18 14:27	1
Benzo[k]fluoranthene	ND		2.00	0.618	ug/L		04/17/18 17:09	04/19/18 14:27	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW4**

**Date Collected: 04/11/18 15:36**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-4**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		2.00	0.464	ug/L		04/17/18 17:09	04/19/18 14:27	1
Dibenz(a,h)anthracene	ND		2.00	0.441	ug/L		04/17/18 17:09	04/19/18 14:27	1
Fluoranthene	ND		2.00	0.449	ug/L		04/17/18 17:09	04/19/18 14:27	1
Fluorene	ND		2.00	0.492	ug/L		04/17/18 17:09	04/19/18 14:27	1
Indeno[1,2,3-cd]pyrene	ND		2.00	0.385	ug/L		04/17/18 17:09	04/19/18 14:27	1
Naphthalene	ND		2.00	0.629	ug/L		04/17/18 17:09	04/19/18 14:27	1
Phenanthrene	ND		2.00	0.451	ug/L		04/17/18 17:09	04/19/18 14:27	1
Pyrene	ND		2.00	0.396	ug/L		04/17/18 17:09	04/19/18 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	61		29 - 120				04/17/18 17:09	04/19/18 14:27	1
Nitrobenzene-d5 (Surr)	61		27 - 120				04/17/18 17:09	04/19/18 14:27	1
Terphenyl-d14 (Surr)	39		13 - 120				04/17/18 17:09	04/19/18 14:27	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.221		0.00200	0.000400	mg/L		04/18/18 11:04	04/25/18 13:31	1
Barium	4.21	B	0.00200	0.000100	mg/L		04/18/18 11:04	04/20/18 15:19	1
Cadmium	0.171		0.00100	0.000100	mg/L		04/18/18 11:04	04/20/18 15:19	1
Chromium	0.170	B	0.00200	0.000500	mg/L		04/18/18 11:04	04/20/18 15:19	1
Lead	0.301		0.00200	0.000100	mg/L		04/18/18 11:04	04/20/18 15:19	1
Selenium	0.00687		0.00200	0.000300	mg/L		04/18/18 11:04	04/25/18 13:31	1
Silver	0.00297		0.00200	0.000800	mg/L		04/18/18 11:04	04/20/18 15:19	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW5**

**Date Collected: 04/11/18 16:45**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-5**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	31.2		25.0	2.66	ug/L			04/24/18 18:23	1
Benzene	1.18		1.00	0.200	ug/L			04/23/18 20:02	1
Bromobenzene	ND		1.00	0.210	ug/L			04/24/18 18:23	1
Bromoform	ND		1.00	0.290	ug/L			04/24/18 18:23	1
Bromomethane	ND		1.00	0.350	ug/L			04/24/18 18:23	1
2-Butanone (MEK)	12.1	J	50.0	2.64	ug/L			04/24/18 18:23	1
Carbon disulfide	1.29		1.00	0.220	ug/L			04/24/18 18:23	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			04/24/18 18:23	1
Chlorobenzene	ND		1.00	0.180	ug/L			04/24/18 18:23	1
Chlorobromomethane	ND		1.00	0.150	ug/L			04/24/18 18:23	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			04/24/18 18:23	1
Chloroethane	ND		1.00	0.360	ug/L			04/24/18 18:23	1
Chloroform	ND		1.00	0.230	ug/L			04/24/18 18:23	1
Chloromethane	ND		1.00	0.360	ug/L			04/24/18 18:23	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			04/24/18 18:23	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			04/24/18 18:23	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			04/24/18 18:23	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 18:23	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			04/24/18 18:23	1
Dibromomethane	ND		1.00	0.450	ug/L			04/24/18 18:23	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			04/24/18 18:23	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			04/24/18 18:23	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			04/24/18 18:23	1
Dichlorobromomethane	ND		1.00	0.170	ug/L			04/24/18 18:23	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			04/24/18 18:23	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			04/24/18 18:23	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			04/24/18 18:23	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			04/24/18 18:23	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			04/24/18 18:23	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			04/24/18 18:23	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			04/24/18 18:23	1
Diisopropyl ether	ND		2.00	0.170	ug/L			04/23/18 20:02	1
EDB	ND		1.00	0.210	ug/L			04/23/18 20:02	1
EDC	ND		1.00	0.200	ug/L			04/23/18 20:02	1
Ethylbenzene	3.16		1.00	0.190	ug/L			04/23/18 20:02	1
Ethyl tert-butyl ether	ND		1.00	0.210	ug/L			04/23/18 20:02	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			04/24/18 18:23	1
2-Hexanone	ND		10.0	1.28	ug/L			04/24/18 18:23	1
Isopropylbenzene	102		1.00	0.330	ug/L			04/23/18 20:02	1
4-Isopropyltoluene	9.64		1.00	0.170	ug/L			04/23/18 20:02	1
Methylene Chloride	16.9		5.00	1.00	ug/L			04/24/18 18:23	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			04/24/18 18:23	1
Methyl tert-butyl ether	2.09		1.00	0.170	ug/L			04/23/18 20:02	1
m-Xylene & p-Xylene	1.72	J	2.00	0.380	ug/L			04/23/18 20:02	1
Naphthalene	ND		5.00	0.210	ug/L			04/23/18 20:02	1
n-Butylbenzene	310		1.00	0.240	ug/L			04/23/18 20:02	1
N-Propylbenzene	586		10.0	1.70	ug/L			04/24/18 18:22	10
o-Xylene	1.18		1.00	0.200	ug/L			04/23/18 20:02	1
sec-Butylbenzene	79.9		1.00	0.170	ug/L			04/23/18 20:02	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW5**

**Date Collected: 04/11/18 16:45**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-5**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.00	0.280	ug/L			04/24/18 18:23	1
Tert-amyl methyl ether	ND		1.00	0.170	ug/L			04/23/18 20:02	1
tert-Butyl alcohol (TBA)	ND		10.0	3.90	ug/L			04/23/18 20:02	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			04/23/18 20:02	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			04/24/18 18:23	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			04/24/18 18:23	1
Tetrachloroethene	ND		1.00	0.140	ug/L			04/24/18 18:23	1
<b>Toluene</b>	<b>0.991</b>	<b>J</b>	1.00	0.170	ug/L			04/23/18 20:02	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			04/24/18 18:23	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 18:23	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			04/24/18 18:23	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			04/24/18 18:23	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 18:23	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 18:23	1
Trichloroethene	ND		1.00	0.200	ug/L			04/24/18 18:23	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			04/24/18 18:23	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			04/24/18 18:23	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 20:02	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 20:02	1
Vinyl chloride	ND		1.00	0.180	ug/L			04/24/18 18:23	1
<b>Xylenes, Total</b>	<b>2.90</b>	<b>J</b>	3.00	0.580	ug/L			04/23/18 20:02	1
<b>Gasoline Range Organics [C6 - C10]</b>	<b>15900</b>		4000	2000	ug/L			04/24/18 18:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130		04/23/18 20:02	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/24/18 18:22	10
4-Bromofluorobenzene (Surr)	164	X	70 - 130		04/24/18 18:23	1
Dibromofluoromethane (Surr)	96		70 - 130		04/23/18 20:02	1
Dibromofluoromethane (Surr)	100		70 - 130		04/24/18 18:22	10
Dibromofluoromethane (Surr)	90		70 - 130		04/24/18 18:23	1
1,2-Dichloroethane-d4 (Surr)	76		70 - 130		04/23/18 20:02	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 130		04/24/18 18:22	10
1,2-Dichloroethane-d4 (Surr)	197	X	70 - 130		04/24/18 18:23	1
Toluene-d8 (Surr)	122		70 - 130		04/23/18 20:02	1
Toluene-d8 (Surr)	97		70 - 130		04/24/18 18:22	10
Toluene-d8 (Surr)	102		70 - 130		04/24/18 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>64100</b>	<b>B</b>	13200	3660	ug/L		04/17/18 17:09	04/19/18 16:59	25
<b>Oil Range Organics C21-C35</b>	<b>503</b>	<b>J B</b>	526	146	ug/L		04/17/18 17:09	04/19/18 14:48	1
<b>Acenaphthene</b>	<b>7.19</b>		2.11	0.554	ug/L		04/17/18 17:09	04/19/18 14:48	1
Acenaphthylene	ND		2.11	0.475	ug/L		04/17/18 17:09	04/19/18 14:48	1
<b>Anthracene</b>	<b>1.68</b>	<b>J</b>	2.11	0.502	ug/L		04/17/18 17:09	04/19/18 14:48	1
Benzo[a]anthracene	ND		2.11	0.508	ug/L		04/17/18 17:09	04/19/18 14:48	1
Benzo[a]pyrene	ND		2.11	0.436	ug/L		04/17/18 17:09	04/19/18 14:48	1
Benzo[b]fluoranthene	ND		2.11	0.272	ug/L		04/17/18 17:09	04/19/18 14:48	1
Benzo[g,h,i]perylene	ND		2.11	0.388	ug/L		04/17/18 17:09	04/19/18 14:48	1
Benzo[k]fluoranthene	ND		2.11	0.651	ug/L		04/17/18 17:09	04/19/18 14:48	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW5**

**Date Collected: 04/11/18 16:45**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-5**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		2.11	0.488	ug/L		04/17/18 17:09	04/19/18 14:48	1
Dibenz(a,h)anthracene	ND		2.11	0.464	ug/L		04/17/18 17:09	04/19/18 14:48	1
Fluoranthene	1.22	J	2.11	0.473	ug/L		04/17/18 17:09	04/19/18 14:48	1
Fluorene	6.12		2.11	0.518	ug/L		04/17/18 17:09	04/19/18 14:48	1
Indeno[1,2,3-cd]pyrene	ND		2.11	0.405	ug/L		04/17/18 17:09	04/19/18 14:48	1
Naphthalene	ND		2.11	0.662	ug/L		04/17/18 17:09	04/19/18 14:48	1
Phenanthrene	7.46		2.11	0.475	ug/L		04/17/18 17:09	04/19/18 14:48	1
Pyrene	1.69	J	2.11	0.417	ug/L		04/17/18 17:09	04/19/18 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	63		29 - 120				04/17/18 17:09	04/19/18 14:48	1
Nitrobenzene-d5 (Surr)	0	X	27 - 120				04/17/18 17:09	04/19/18 14:48	1
Terphenyl-d14 (Surr)	50		13 - 120				04/17/18 17:09	04/19/18 14:48	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.142		0.00200	0.000400	mg/L		04/20/18 18:51	04/24/18 17:21	1
Barium	1.90	B	0.00200	0.000100	mg/L		04/20/18 18:51	04/24/18 17:21	1
Cadmium	0.00580		0.00100	0.000100	mg/L		04/20/18 18:51	04/24/18 17:21	1
Chromium	0.0337		0.00200	0.000500	mg/L		04/20/18 18:51	04/24/18 17:21	1
Lead	0.0154		0.00200	0.000100	mg/L		04/20/18 18:51	04/24/18 17:21	1
Selenium	0.000502	J B	0.00200	0.000300	mg/L		04/20/18 18:51	04/24/18 17:21	1
Silver	ND		0.00200	0.000800	mg/L		04/20/18 18:51	04/24/18 17:21	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW7**

**Date Collected: 04/12/18 09:44**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-6**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>14.5</b>	<b>J</b>	25.0	2.66	ug/L			04/24/18 17:01	1
Benzene	ND		1.00	0.200	ug/L			04/23/18 19:35	1
Bromobenzene	ND		1.00	0.210	ug/L			04/24/18 17:01	1
Bromoform	ND		1.00	0.290	ug/L			04/24/18 17:01	1
Bromomethane	ND		1.00	0.350	ug/L			04/24/18 17:01	1
<b>2-Butanone (MEK)</b>	<b>4.42</b>	<b>J</b>	50.0	2.64	ug/L			04/24/18 17:01	1
<b>Carbon disulfide</b>	<b>1.06</b>		1.00	0.220	ug/L			04/24/18 17:01	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			04/24/18 17:01	1
Chlorobenzene	ND		1.00	0.180	ug/L			04/24/18 17:01	1
Chlorobromomethane	ND		1.00	0.150	ug/L			04/24/18 17:01	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			04/24/18 17:01	1
Chloroethane	ND		1.00	0.360	ug/L			04/24/18 17:01	1
Chloroform	ND		1.00	0.230	ug/L			04/24/18 17:01	1
Chloromethane	ND		1.00	0.360	ug/L			04/24/18 17:01	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			04/24/18 17:01	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			04/24/18 17:01	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			04/24/18 17:01	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 17:01	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			04/24/18 17:01	1
Dibromomethane	ND		1.00	0.450	ug/L			04/24/18 17:01	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			04/24/18 17:01	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			04/24/18 17:01	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			04/24/18 17:01	1
Dichlorobromomethane	ND		1.00	0.170	ug/L			04/24/18 17:01	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			04/24/18 17:01	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			04/24/18 17:01	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			04/24/18 17:01	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			04/24/18 17:01	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			04/24/18 17:01	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			04/24/18 17:01	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			04/24/18 17:01	1
Diisopropyl ether	ND		2.00	0.170	ug/L			04/23/18 19:35	1
EDB	ND		1.00	0.210	ug/L			04/23/18 19:35	1
EDC	ND		1.00	0.200	ug/L			04/23/18 19:35	1
Ethylbenzene	ND		1.00	0.190	ug/L			04/23/18 19:35	1
Ethyl tert-butyl ether	ND		1.00	0.210	ug/L			04/23/18 19:35	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			04/24/18 17:01	1
2-Hexanone	ND		10.0	1.28	ug/L			04/24/18 17:01	1
<b>Isopropylbenzene</b>	<b>3.23</b>		1.00	0.330	ug/L			04/23/18 19:35	1
<b>4-Isopropyltoluene</b>	<b>1.28</b>		1.00	0.170	ug/L			04/23/18 19:35	1
Methylene Chloride	ND		5.00	1.00	ug/L			04/24/18 17:01	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			04/24/18 17:01	1
<b>Methyl tert-butyl ether</b>	<b>2.99</b>		1.00	0.170	ug/L			04/23/18 19:35	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			04/23/18 19:35	1
Naphthalene	ND		5.00	0.210	ug/L			04/23/18 19:35	1
<b>n-Butylbenzene</b>	<b>16.5</b>		1.00	0.240	ug/L			04/23/18 19:35	1
<b>N-Propylbenzene</b>	<b>19.4</b>		1.00	0.170	ug/L			04/23/18 19:35	1
o-Xylene	ND		1.00	0.200	ug/L			04/23/18 19:35	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			04/23/18 19:35	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW7**

**Date Collected: 04/12/18 09:44**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-6**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.00	0.280	ug/L			04/24/18 17:01	1
Tert-amyl methyl ether	ND		1.00	0.170	ug/L			04/23/18 19:35	1
tert-Butyl alcohol (TBA)	ND		10.0	3.90	ug/L			04/23/18 19:35	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			04/23/18 19:35	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			04/24/18 17:01	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			04/24/18 17:01	1
Tetrachloroethene	ND		1.00	0.140	ug/L			04/24/18 17:01	1
Toluene	ND		1.00	0.170	ug/L			04/23/18 19:35	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			04/24/18 17:01	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 17:01	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			04/24/18 17:01	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			04/24/18 17:01	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 17:01	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 17:01	1
Trichloroethene	ND		1.00	0.200	ug/L			04/24/18 17:01	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			04/24/18 17:01	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			04/24/18 17:01	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 19:35	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 19:35	1
Vinyl chloride	ND		1.00	0.180	ug/L			04/24/18 17:01	1
Xylenes, Total	ND		3.00	0.580	ug/L			04/23/18 19:35	1
<b>Gasoline Range Organics [C6 - C10]</b>	<b>1590</b>		<b>400</b>	<b>200</b>	<b>ug/L</b>			<b>04/23/18 19:35</b>	<b>1</b>

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		04/23/18 19:35	1
4-Bromofluorobenzene (Surr)	104		70 - 130		04/24/18 17:01	1
Dibromofluoromethane (Surr)	98		70 - 130		04/23/18 19:35	1
Dibromofluoromethane (Surr)	93		70 - 130		04/24/18 17:01	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		04/23/18 19:35	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/24/18 17:01	1
Toluene-d8 (Surr)	99		70 - 130		04/23/18 19:35	1
Toluene-d8 (Surr)	98		70 - 130		04/24/18 17:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>851</b>	<b>B</b>	488	136	ug/L		04/17/18 17:09	04/19/18 15:10	1
<b>Oil Range Organics C21-C35</b>	<b>248</b>	<b>J B</b>	488	136	ug/L		04/17/18 17:09	04/19/18 15:10	1
Acenaphthene	ND		1.95	0.513	ug/L		04/17/18 17:09	04/19/18 15:10	1
Acenaphthylene	ND		1.95	0.440	ug/L		04/17/18 17:09	04/19/18 15:10	1
Anthracene	ND		1.95	0.465	ug/L		04/17/18 17:09	04/19/18 15:10	1
Benzo[a]anthracene	ND		1.95	0.471	ug/L		04/17/18 17:09	04/19/18 15:10	1
Benzo[a]pyrene	ND		1.95	0.404	ug/L		04/17/18 17:09	04/19/18 15:10	1
Benzo[b]fluoranthene	ND		1.95	0.252	ug/L		04/17/18 17:09	04/19/18 15:10	1
Benzo[g,h,i]perylene	ND		1.95	0.360	ug/L		04/17/18 17:09	04/19/18 15:10	1
Benzo[k]fluoranthene	ND		1.95	0.603	ug/L		04/17/18 17:09	04/19/18 15:10	1
Chrysene	ND		1.95	0.453	ug/L		04/17/18 17:09	04/19/18 15:10	1
Dibenz(a,h)anthracene	ND		1.95	0.430	ug/L		04/17/18 17:09	04/19/18 15:10	1
Fluoranthene	ND		1.95	0.438	ug/L		04/17/18 17:09	04/19/18 15:10	1
Fluorene	ND		1.95	0.480	ug/L		04/17/18 17:09	04/19/18 15:10	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW7**

**Date Collected: 04/12/18 09:44**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-6**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		1.95	0.376	ug/L		04/17/18 17:09	04/19/18 15:10	1
Naphthalene	ND		1.95	0.614	ug/L		04/17/18 17:09	04/19/18 15:10	1
Phenanthrene	ND		1.95	0.440	ug/L		04/17/18 17:09	04/19/18 15:10	1
Pyrene	ND		1.95	0.386	ug/L		04/17/18 17:09	04/19/18 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	43		29 - 120				04/17/18 17:09	04/19/18 15:10	1
Nitrobenzene-d5 (Surr)	46		27 - 120				04/17/18 17:09	04/19/18 15:10	1
Terphenyl-d14 (Surr)	23		13 - 120				04/17/18 17:09	04/19/18 15:10	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0593		0.00200	0.000400	mg/L		04/20/18 18:51	04/25/18 14:21	1
Barium	2.00	B	0.00200	0.000100	mg/L		04/20/18 18:51	04/24/18 17:24	1
Cadmium	0.0656		0.00100	0.000100	mg/L		04/20/18 18:51	04/24/18 17:24	1
Chromium	0.0456		0.00200	0.000500	mg/L		04/20/18 18:51	04/24/18 17:24	1
Lead	0.0545		0.00200	0.000100	mg/L		04/20/18 18:51	04/24/18 17:24	1
Selenium	0.000435	J	0.00200	0.000300	mg/L		04/20/18 18:51	04/25/18 14:21	1
Silver	ND		0.00200	0.000800	mg/L		04/20/18 18:51	04/24/18 17:24	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW7-FD**

**Date Collected: 04/12/18 09:44**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-7**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>5.76</b>	<b>J</b>	25.0	2.66	ug/L			04/24/18 16:33	1
Benzene	ND		1.00	0.200	ug/L			04/23/18 19:09	1
Bromobenzene	ND		1.00	0.210	ug/L			04/24/18 16:33	1
Bromoform	ND		1.00	0.290	ug/L			04/24/18 16:33	1
Bromomethane	ND		1.00	0.350	ug/L			04/24/18 16:33	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			04/24/18 16:33	1
<b>Carbon disulfide</b>	<b>0.635</b>	<b>J</b>	1.00	0.220	ug/L			04/24/18 16:33	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			04/24/18 16:33	1
Chlorobenzene	ND		1.00	0.180	ug/L			04/24/18 16:33	1
Chlorobromomethane	ND		1.00	0.150	ug/L			04/24/18 16:33	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			04/24/18 16:33	1
Chloroethane	ND		1.00	0.360	ug/L			04/24/18 16:33	1
Chloroform	ND		1.00	0.230	ug/L			04/24/18 16:33	1
Chloromethane	ND		1.00	0.360	ug/L			04/24/18 16:33	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			04/24/18 16:33	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			04/24/18 16:33	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			04/24/18 16:33	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 16:33	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			04/24/18 16:33	1
Dibromomethane	ND		1.00	0.450	ug/L			04/24/18 16:33	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			04/24/18 16:33	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			04/24/18 16:33	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			04/24/18 16:33	1
Dichlorobromomethane	ND		1.00	0.170	ug/L			04/24/18 16:33	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			04/24/18 16:33	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			04/24/18 16:33	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			04/24/18 16:33	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			04/24/18 16:33	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			04/24/18 16:33	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			04/24/18 16:33	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			04/24/18 16:33	1
Diisopropyl ether	ND		2.00	0.170	ug/L			04/23/18 19:09	1
EDB	ND		1.00	0.210	ug/L			04/23/18 19:09	1
EDC	ND		1.00	0.200	ug/L			04/23/18 19:09	1
Ethylbenzene	ND		1.00	0.190	ug/L			04/23/18 19:09	1
Ethyl tert-butyl ether	ND		1.00	0.210	ug/L			04/23/18 19:09	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			04/24/18 16:33	1
2-Hexanone	ND		10.0	1.28	ug/L			04/24/18 16:33	1
<b>Isopropylbenzene</b>	<b>3.42</b>		1.00	0.330	ug/L			04/23/18 19:09	1
<b>4-Isopropyltoluene</b>	<b>1.14</b>		1.00	0.170	ug/L			04/23/18 19:09	1
Methylene Chloride	ND		5.00	1.00	ug/L			04/24/18 16:33	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			04/24/18 16:33	1
<b>Methyl tert-butyl ether</b>	<b>2.84</b>		1.00	0.170	ug/L			04/23/18 19:09	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			04/23/18 19:09	1
Naphthalene	ND		5.00	0.210	ug/L			04/23/18 19:09	1
<b>n-Butylbenzene</b>	<b>14.1</b>		1.00	0.240	ug/L			04/23/18 19:09	1
<b>N-Propylbenzene</b>	<b>20.1</b>		1.00	0.170	ug/L			04/23/18 19:09	1
o-Xylene	ND		1.00	0.200	ug/L			04/23/18 19:09	1
<b>sec-Butylbenzene</b>	<b>6.54</b>		1.00	0.170	ug/L			04/23/18 19:09	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW7-FD**

**Date Collected: 04/12/18 09:44**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-7**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.00	0.280	ug/L			04/24/18 16:33	1
Tert-amyl methyl ether	ND		1.00	0.170	ug/L			04/23/18 19:09	1
tert-Butyl alcohol (TBA)	ND		10.0	3.90	ug/L			04/23/18 19:09	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			04/23/18 19:09	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			04/24/18 16:33	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			04/24/18 16:33	1
Tetrachloroethene	ND		1.00	0.140	ug/L			04/24/18 16:33	1
Toluene	ND		1.00	0.170	ug/L			04/23/18 19:09	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			04/24/18 16:33	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 16:33	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			04/24/18 16:33	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			04/24/18 16:33	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 16:33	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 16:33	1
Trichloroethene	ND		1.00	0.200	ug/L			04/24/18 16:33	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			04/24/18 16:33	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			04/24/18 16:33	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 19:09	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 19:09	1
Vinyl chloride	ND		1.00	0.180	ug/L			04/24/18 16:33	1
Xylenes, Total	ND		3.00	0.580	ug/L			04/23/18 19:09	1
<b>Gasoline Range Organics [C6 - C10]</b>	<b>1250</b>		<b>400</b>	<b>200</b>	<b>ug/L</b>			<b>04/23/18 19:09</b>	<b>1</b>

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		04/23/18 19:09	1
4-Bromofluorobenzene (Surr)	91		70 - 130		04/24/18 16:33	1
Dibromofluoromethane (Surr)	99		70 - 130		04/23/18 19:09	1
Dibromofluoromethane (Surr)	96		70 - 130		04/24/18 16:33	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		04/23/18 19:09	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		04/24/18 16:33	1
Toluene-d8 (Surr)	98		70 - 130		04/23/18 19:09	1
Toluene-d8 (Surr)	95		70 - 130		04/24/18 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>711</b>	<b>B</b>	476	132	ug/L		04/17/18 17:09	04/19/18 15:32	1
<b>Oil Range Organics C21-C35</b>	<b>239</b>	<b>J B</b>	476	132	ug/L		04/17/18 17:09	04/19/18 15:32	1
Acenaphthene	ND		1.90	0.501	ug/L		04/17/18 17:09	04/19/18 15:32	1
Acenaphthylene	ND		1.90	0.430	ug/L		04/17/18 17:09	04/19/18 15:32	1
Anthracene	ND		1.90	0.454	ug/L		04/17/18 17:09	04/19/18 15:32	1
Benzo[a]anthracene	ND		1.90	0.460	ug/L		04/17/18 17:09	04/19/18 15:32	1
Benzo[a]pyrene	ND		1.90	0.394	ug/L		04/17/18 17:09	04/19/18 15:32	1
Benzo[b]fluoranthene	ND		1.90	0.246	ug/L		04/17/18 17:09	04/19/18 15:32	1
Benzo[g,h,i]perylene	ND		1.90	0.351	ug/L		04/17/18 17:09	04/19/18 15:32	1
Benzo[k]fluoranthene	ND		1.90	0.589	ug/L		04/17/18 17:09	04/19/18 15:32	1
Chrysene	ND		1.90	0.442	ug/L		04/17/18 17:09	04/19/18 15:32	1
Dibenz(a,h)anthracene	ND		1.90	0.420	ug/L		04/17/18 17:09	04/19/18 15:32	1
Fluoranthene	ND		1.90	0.428	ug/L		04/17/18 17:09	04/19/18 15:32	1
Fluorene	ND		1.90	0.469	ug/L		04/17/18 17:09	04/19/18 15:32	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW7-FD**

**Date Collected: 04/12/18 09:44**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-7**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		1.90	0.367	ug/L		04/17/18 17:09	04/19/18 15:32	1
Naphthalene	ND		1.90	0.599	ug/L		04/17/18 17:09	04/19/18 15:32	1
Phenanthrene	ND		1.90	0.430	ug/L		04/17/18 17:09	04/19/18 15:32	1
Pyrene	ND		1.90	0.377	ug/L		04/17/18 17:09	04/19/18 15:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	47		29 - 120				04/17/18 17:09	04/19/18 15:32	1
Nitrobenzene-d5 (Surr)	46		27 - 120				04/17/18 17:09	04/19/18 15:32	1
Terphenyl-d14 (Surr)	34		13 - 120				04/17/18 17:09	04/19/18 15:32	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.129		0.00200	0.000400	mg/L		04/20/18 18:51	04/25/18 14:15	1
Barium	2.19	B	0.00200	0.000100	mg/L		04/20/18 18:51	04/24/18 16:22	1
Cadmium	0.0906		0.00100	0.000100	mg/L		04/20/18 18:51	04/24/18 16:22	1
Chromium	0.147		0.00200	0.000500	mg/L		04/20/18 18:51	04/24/18 16:22	1
Lead	0.168		0.00200	0.000100	mg/L		04/20/18 18:51	04/24/18 16:22	1
Selenium	0.00236		0.00200	0.000300	mg/L		04/20/18 18:51	04/25/18 14:15	1
Silver	0.000982	J	0.00200	0.000800	mg/L		04/20/18 18:51	04/24/18 16:22	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: Equipment Blank**

**Lab Sample ID: 490-150020-8**

**Date Collected: 04/12/18 10:55**

**Matrix: Water**

**Date Received: 04/13/18 09:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.28	J	25.0	2.66	ug/L			04/24/18 16:06	1
Benzene	ND		1.00	0.200	ug/L			04/23/18 15:39	1
Bromobenzene	ND		1.00	0.210	ug/L			04/24/18 16:06	1
Bromoform	ND		1.00	0.290	ug/L			04/24/18 16:06	1
Bromomethane	ND		1.00	0.350	ug/L			04/24/18 16:06	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			04/24/18 16:06	1
Carbon disulfide	ND		1.00	0.220	ug/L			04/24/18 16:06	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			04/24/18 16:06	1
Chlorobenzene	ND		1.00	0.180	ug/L			04/24/18 16:06	1
Chlorobromomethane	ND		1.00	0.150	ug/L			04/24/18 16:06	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			04/24/18 16:06	1
Chloroethane	ND		1.00	0.360	ug/L			04/24/18 16:06	1
Chloroform	ND		1.00	0.230	ug/L			04/24/18 16:06	1
Chloromethane	ND		1.00	0.360	ug/L			04/24/18 16:06	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			04/24/18 16:06	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			04/24/18 16:06	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			04/24/18 16:06	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 16:06	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			04/24/18 16:06	1
Dibromomethane	ND		1.00	0.450	ug/L			04/24/18 16:06	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			04/24/18 16:06	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			04/24/18 16:06	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			04/24/18 16:06	1
Dichlorobromomethane	ND		1.00	0.170	ug/L			04/24/18 16:06	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			04/24/18 16:06	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			04/24/18 16:06	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			04/24/18 16:06	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			04/24/18 16:06	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			04/24/18 16:06	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			04/24/18 16:06	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			04/24/18 16:06	1
Diisopropyl ether	ND		2.00	0.170	ug/L			04/23/18 15:39	1
EDB	ND		1.00	0.210	ug/L			04/23/18 15:39	1
EDC	ND		1.00	0.200	ug/L			04/23/18 15:39	1
Ethylbenzene	ND		1.00	0.190	ug/L			04/23/18 15:39	1
Ethyl tert-butyl ether	ND		1.00	0.210	ug/L			04/23/18 15:39	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			04/24/18 16:06	1
2-Hexanone	ND		10.0	1.28	ug/L			04/24/18 16:06	1
Isopropylbenzene	ND		1.00	0.330	ug/L			04/23/18 15:39	1
4-Isopropyltoluene	ND		1.00	0.170	ug/L			04/23/18 15:39	1
Methylene Chloride	ND		5.00	1.00	ug/L			04/24/18 16:06	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			04/24/18 16:06	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			04/23/18 15:39	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			04/23/18 15:39	1
Naphthalene	ND		5.00	0.210	ug/L			04/23/18 15:39	1
n-Butylbenzene	ND		1.00	0.240	ug/L			04/23/18 15:39	1
N-Propylbenzene	ND		1.00	0.170	ug/L			04/23/18 15:39	1
o-Xylene	ND		1.00	0.200	ug/L			04/23/18 15:39	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			04/23/18 15:39	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: Equipment Blank**

**Lab Sample ID: 490-150020-8**

**Date Collected: 04/12/18 10:55**

**Matrix: Water**

**Date Received: 04/13/18 09:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.00	0.280	ug/L			04/24/18 16:06	1
Tert-amyl methyl ether	ND		1.00	0.170	ug/L			04/23/18 15:39	1
tert-Butyl alcohol (TBA)	ND		10.0	3.90	ug/L			04/23/18 15:39	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			04/23/18 15:39	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			04/24/18 16:06	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			04/24/18 16:06	1
Tetrachloroethene	ND		1.00	0.140	ug/L			04/24/18 16:06	1
Toluene	ND		1.00	0.170	ug/L			04/23/18 15:39	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			04/24/18 16:06	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 16:06	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			04/24/18 16:06	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			04/24/18 16:06	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 16:06	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 16:06	1
Trichloroethene	ND		1.00	0.200	ug/L			04/24/18 16:06	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			04/24/18 16:06	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			04/24/18 16:06	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 15:39	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 15:39	1
Vinyl chloride	ND		1.00	0.180	ug/L			04/24/18 16:06	1
Xylenes, Total	ND		3.00	0.580	ug/L			04/23/18 15:39	1
Gasoline Range Organics [C6 - C10]	ND		400	200	ug/L			04/23/18 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130		04/23/18 15:39	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/24/18 16:06	1
Dibromofluoromethane (Surr)	99		70 - 130		04/23/18 15:39	1
Dibromofluoromethane (Surr)	97		70 - 130		04/24/18 16:06	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		04/23/18 15:39	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		04/24/18 16:06	1
Toluene-d8 (Surr)	96		70 - 130		04/23/18 15:39	1
Toluene-d8 (Surr)	97		70 - 130		04/24/18 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>181</b>	<b>J B</b>	463	129	ug/L		04/17/18 17:09	04/19/18 15:54	1
<b>Oil Range Organics C21-C35</b>	<b>298</b>	<b>J B</b>	463	129	ug/L		04/17/18 17:09	04/19/18 15:54	1
Acenaphthene	ND		1.85	0.487	ug/L		04/17/18 17:09	04/19/18 15:54	1
Acenaphthylene	ND		1.85	0.418	ug/L		04/17/18 17:09	04/19/18 15:54	1
Anthracene	ND		1.85	0.442	ug/L		04/17/18 17:09	04/19/18 15:54	1
Benzo[a]anthracene	ND		1.85	0.447	ug/L		04/17/18 17:09	04/19/18 15:54	1
Benzo[a]pyrene	ND		1.85	0.383	ug/L		04/17/18 17:09	04/19/18 15:54	1
Benzo[b]fluoranthene	ND		1.85	0.239	ug/L		04/17/18 17:09	04/19/18 15:54	1
Benzo[g,h,i]perylene	ND		1.85	0.342	ug/L		04/17/18 17:09	04/19/18 15:54	1
Benzo[k]fluoranthene	ND		1.85	0.572	ug/L		04/17/18 17:09	04/19/18 15:54	1
Chrysene	ND		1.85	0.430	ug/L		04/17/18 17:09	04/19/18 15:54	1
Dibenz(a,h)anthracene	ND		1.85	0.408	ug/L		04/17/18 17:09	04/19/18 15:54	1
Fluoranthene	ND		1.85	0.416	ug/L		04/17/18 17:09	04/19/18 15:54	1
Fluorene	ND		1.85	0.456	ug/L		04/17/18 17:09	04/19/18 15:54	1
Indeno[1,2,3-cd]pyrene	ND		1.85	0.356	ug/L		04/17/18 17:09	04/19/18 15:54	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: Equipment Blank**

**Lab Sample ID: 490-150020-8**

**Date Collected: 04/12/18 10:55**

**Matrix: Water**

**Date Received: 04/13/18 09:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.85	0.582	ug/L		04/17/18 17:09	04/19/18 15:54	1
Phenanthrene	ND		1.85	0.418	ug/L		04/17/18 17:09	04/19/18 15:54	1
Pyrene	ND		1.85	0.367	ug/L		04/17/18 17:09	04/19/18 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	50		29 - 120				04/17/18 17:09	04/19/18 15:54	1
Nitrobenzene-d5 (Surr)	49		27 - 120				04/17/18 17:09	04/19/18 15:54	1
Terphenyl-d14 (Surr)	62		13 - 120				04/17/18 17:09	04/19/18 15:54	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00200	0.000400	mg/L		04/18/18 11:04	04/20/18 15:25	1
Barium	0.00153	J B	0.00200	0.000100	mg/L		04/18/18 11:04	04/20/18 15:25	1
Cadmium	ND		0.00100	0.000100	mg/L		04/18/18 11:04	04/20/18 15:25	1
Chromium	0.00401	B	0.00200	0.000500	mg/L		04/18/18 11:04	04/20/18 15:25	1
Lead	ND		0.00200	0.000100	mg/L		04/18/18 11:04	04/20/18 15:25	1
Selenium	ND		0.00200	0.000300	mg/L		04/18/18 11:04	04/20/18 15:25	1
Silver	ND		0.00200	0.000800	mg/L		04/18/18 11:04	04/20/18 15:25	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: Field Blank**

**Date Collected: 04/12/18 11:12**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-9**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.25	J	25.0	2.66	ug/L			04/24/18 15:39	1
Benzene	ND		1.00	0.200	ug/L			04/23/18 15:12	1
Bromobenzene	ND		1.00	0.210	ug/L			04/24/18 15:39	1
Bromoform	ND		1.00	0.290	ug/L			04/24/18 15:39	1
Bromomethane	ND		1.00	0.350	ug/L			04/24/18 15:39	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			04/24/18 15:39	1
Carbon disulfide	ND		1.00	0.220	ug/L			04/24/18 15:39	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			04/24/18 15:39	1
Chlorobenzene	ND		1.00	0.180	ug/L			04/24/18 15:39	1
Chlorobromomethane	ND		1.00	0.150	ug/L			04/24/18 15:39	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			04/24/18 15:39	1
Chloroethane	ND		1.00	0.360	ug/L			04/24/18 15:39	1
Chloroform	ND		1.00	0.230	ug/L			04/24/18 15:39	1
Chloromethane	ND		1.00	0.360	ug/L			04/24/18 15:39	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			04/24/18 15:39	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			04/24/18 15:39	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			04/24/18 15:39	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 15:39	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			04/24/18 15:39	1
Dibromomethane	ND		1.00	0.450	ug/L			04/24/18 15:39	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			04/24/18 15:39	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			04/24/18 15:39	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			04/24/18 15:39	1
Dichlorobromomethane	ND		1.00	0.170	ug/L			04/24/18 15:39	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			04/24/18 15:39	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			04/24/18 15:39	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			04/24/18 15:39	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			04/24/18 15:39	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			04/24/18 15:39	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			04/24/18 15:39	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			04/24/18 15:39	1
Diisopropyl ether	ND		2.00	0.170	ug/L			04/23/18 15:12	1
EDB	ND		1.00	0.210	ug/L			04/23/18 15:12	1
EDC	ND		1.00	0.200	ug/L			04/23/18 15:12	1
Ethylbenzene	ND		1.00	0.190	ug/L			04/23/18 15:12	1
Ethyl tert-butyl ether	ND		1.00	0.210	ug/L			04/23/18 15:12	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			04/24/18 15:39	1
2-Hexanone	ND		10.0	1.28	ug/L			04/24/18 15:39	1
Isopropylbenzene	ND		1.00	0.330	ug/L			04/23/18 15:12	1
4-Isopropyltoluene	ND		1.00	0.170	ug/L			04/23/18 15:12	1
Methylene Chloride	ND		5.00	1.00	ug/L			04/24/18 15:39	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			04/24/18 15:39	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			04/23/18 15:12	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			04/23/18 15:12	1
Naphthalene	ND		5.00	0.210	ug/L			04/23/18 15:12	1
n-Butylbenzene	ND		1.00	0.240	ug/L			04/23/18 15:12	1
N-Propylbenzene	ND		1.00	0.170	ug/L			04/23/18 15:12	1
o-Xylene	ND		1.00	0.200	ug/L			04/23/18 15:12	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			04/23/18 15:12	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: Field Blank**

**Lab Sample ID: 490-150020-9**

**Date Collected: 04/12/18 11:12**

**Matrix: Water**

**Date Received: 04/13/18 09:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.00	0.280	ug/L			04/24/18 15:39	1
Tert-amyl methyl ether	ND		1.00	0.170	ug/L			04/23/18 15:12	1
tert-Butyl alcohol (TBA)	ND		10.0	3.90	ug/L			04/23/18 15:12	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			04/23/18 15:12	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			04/24/18 15:39	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			04/24/18 15:39	1
Tetrachloroethene	ND		1.00	0.140	ug/L			04/24/18 15:39	1
Toluene	ND		1.00	0.170	ug/L			04/23/18 15:12	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			04/24/18 15:39	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 15:39	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			04/24/18 15:39	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			04/24/18 15:39	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 15:39	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 15:39	1
Trichloroethene	ND		1.00	0.200	ug/L			04/24/18 15:39	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			04/24/18 15:39	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			04/24/18 15:39	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 15:12	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 15:12	1
Vinyl chloride	ND		1.00	0.180	ug/L			04/24/18 15:39	1
Xylenes, Total	ND		3.00	0.580	ug/L			04/23/18 15:12	1
Gasoline Range Organics [C6 - C10]	ND		400	200	ug/L			04/23/18 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130		04/23/18 15:12	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/24/18 15:39	1
Dibromofluoromethane (Surr)	100		70 - 130		04/23/18 15:12	1
Dibromofluoromethane (Surr)	98		70 - 130		04/24/18 15:39	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		04/23/18 15:12	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/24/18 15:39	1
Toluene-d8 (Surr)	96		70 - 130		04/23/18 15:12	1
Toluene-d8 (Surr)	98		70 - 130		04/24/18 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>187</b>	<b>J B</b>	476	132	ug/L		04/17/18 17:09	04/19/18 16:15	1
<b>Oil Range Organics C21-C35</b>	<b>286</b>	<b>J B</b>	476	132	ug/L		04/17/18 17:09	04/19/18 16:15	1
Acenaphthene	ND		1.90	0.501	ug/L		04/17/18 17:09	04/19/18 16:15	1
Acenaphthylene	ND		1.90	0.430	ug/L		04/17/18 17:09	04/19/18 16:15	1
Anthracene	ND		1.90	0.454	ug/L		04/17/18 17:09	04/19/18 16:15	1
Benzo[a]anthracene	ND		1.90	0.460	ug/L		04/17/18 17:09	04/19/18 16:15	1
Benzo[a]pyrene	ND		1.90	0.394	ug/L		04/17/18 17:09	04/19/18 16:15	1
Benzo[b]fluoranthene	ND		1.90	0.246	ug/L		04/17/18 17:09	04/19/18 16:15	1
Benzo[g,h,i]perylene	ND		1.90	0.351	ug/L		04/17/18 17:09	04/19/18 16:15	1
Benzo[k]fluoranthene	ND		1.90	0.589	ug/L		04/17/18 17:09	04/19/18 16:15	1
Chrysene	ND		1.90	0.442	ug/L		04/17/18 17:09	04/19/18 16:15	1
Dibenz(a,h)anthracene	ND		1.90	0.420	ug/L		04/17/18 17:09	04/19/18 16:15	1
Fluoranthene	ND		1.90	0.428	ug/L		04/17/18 17:09	04/19/18 16:15	1
Fluorene	ND		1.90	0.469	ug/L		04/17/18 17:09	04/19/18 16:15	1
Indeno[1,2,3-cd]pyrene	ND		1.90	0.367	ug/L		04/17/18 17:09	04/19/18 16:15	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: Field Blank**

**Lab Sample ID: 490-150020-9**

**Date Collected: 04/12/18 11:12**

**Matrix: Water**

**Date Received: 04/13/18 09:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.90	0.599	ug/L		04/17/18 17:09	04/19/18 16:15	1
Phenanthrene	ND		1.90	0.430	ug/L		04/17/18 17:09	04/19/18 16:15	1
Pyrene	ND		1.90	0.377	ug/L		04/17/18 17:09	04/19/18 16:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	53		29 - 120				04/17/18 17:09	04/19/18 16:15	1
Nitrobenzene-d5 (Surr)	57		27 - 120				04/17/18 17:09	04/19/18 16:15	1
Terphenyl-d14 (Surr)	66		13 - 120				04/17/18 17:09	04/19/18 16:15	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00200	0.000400	mg/L		04/18/18 11:04	04/20/18 15:22	1
Barium	0.000494	J B	0.00200	0.000100	mg/L		04/18/18 11:04	04/20/18 15:22	1
Cadmium	ND		0.00100	0.000100	mg/L		04/18/18 11:04	04/20/18 15:22	1
Chromium	0.00231	B	0.00200	0.000500	mg/L		04/18/18 11:04	04/20/18 15:22	1
Lead	ND		0.00200	0.000100	mg/L		04/18/18 11:04	04/20/18 15:22	1
Selenium	ND		0.00200	0.000300	mg/L		04/18/18 11:04	04/20/18 15:22	1
Silver	ND		0.00200	0.000800	mg/L		04/18/18 11:04	04/20/18 15:22	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB1 (12.5-14.5)**

**Lab Sample ID: 490-150020-10**

**Date Collected: 04/11/18 09:18**

**Matrix: Solid**

**Date Received: 04/13/18 09:30**

**Percent Solids: 79.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0224	J	0.0462	0.00776	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Benzene	0.00867		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Bromobenzene	ND		0.00185	0.000665	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Bromoform	ND		0.00185	0.000508	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Bromomethane	ND		0.00185	0.00111	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
2-Butanone (MEK)	ND		0.0462	0.00471	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Carbon disulfide	0.00584		0.00462	0.00333	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Carbon tetrachloride	ND		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Chlorobenzene	ND		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Chlorobromomethane	ND		0.00185	0.000508	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Chlorodibromomethane	ND		0.00185	0.000314	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Chloroethane	ND		0.00462	0.00176	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Chloroform	ND		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Chloromethane	ND		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
2-Chlorotoluene	ND		0.00185	0.000822	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
4-Chlorotoluene	ND		0.00185	0.000776	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
cis-1,2-Dichloroethene	ND		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
cis-1,3-Dichloropropene	ND		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
1,2-Dibromo-3-Chloropropane	ND		0.00462	0.000647	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Dibromomethane	ND		0.00185	0.000517	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
1,2-Dichlorobenzene	ND		0.00185	0.000314	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
1,3-Dichlorobenzene	ND		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
1,4-Dichlorobenzene	ND		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Dichlorobromomethane	ND		0.00185	0.000508	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Dichlorodifluoromethane	ND		0.00185	0.000924	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
1,1-Dichloroethane	ND		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
1,1-Dichloroethene	ND		0.00185	0.000527	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
1,2-Dichloropropane	ND		0.00185	0.000869	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
1,3-Dichloropropane	ND		0.00185	0.000869	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
2,2-Dichloropropane	ND		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
1,1-Dichloropropene	ND		0.00185	0.000471	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Diisopropyl ether	ND		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
EDB	ND		0.00185	0.000924	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
EDC	ND		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Ethylbenzene	ND		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Ethyl tert-butyl ether	ND		0.00462	0.000924	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Hexachlorobutadiene	ND		0.00462	0.00105	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
2-Hexanone	ND		0.0462	0.0154	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Isopropylbenzene	0.138		0.00185	0.000379	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
4-Isopropyltoluene	0.0447		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Methylene Chloride	0.0128		0.00924	0.000795	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
4-Methyl-2-pentanone (MIBK)	ND		0.0462	0.00176	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Methyl tert-butyl ether	ND		0.00185	0.000887	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
m-Xylene & p-Xylene	ND		0.00370	0.000517	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
Naphthalene	ND		0.00462	0.00157	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
n-Butylbenzene	1.70		0.128	0.0642	mg/Kg	☆	04/11/18 09:18	04/25/18 21:18	1
N-Propylbenzene	0.640		0.128	0.0437	mg/Kg	☆	04/11/18 09:18	04/25/18 21:18	1
o-Xylene	ND		0.00185	0.000619	mg/Kg	☆	04/11/18 09:18	04/24/18 18:07	1
sec-Butylbenzene	0.376		0.128	0.0437	mg/Kg	☆	04/11/18 09:18	04/25/18 21:18	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB1 (12.5-14.5)**

**Lab Sample ID: 490-150020-10**

**Date Collected: 04/11/18 09:18**

**Matrix: Solid**

**Date Received: 04/13/18 09:30**

**Percent Solids: 79.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00185	0.00102	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
Tert-amyl methyl ether	ND		0.00185	0.000286	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
tert-Butyl alcohol (TBA)	ND		0.0462	0.0103	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
tert-Butylbenzene	ND		0.00185	0.000832	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
1,1,1,2-Tetrachloroethane	ND		0.00185	0.000619	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
1,1,2,2-Tetrachloroethane	ND		0.00185	0.000924	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
Tetrachloroethene	ND		0.00185	0.000675	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
Toluene	ND		0.00185	0.000684	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
trans-1,2-Dichloroethene	ND		0.00185	0.000619	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
trans-1,3-Dichloropropene	ND		0.00185	0.000619	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
1,2,3-Trichlorobenzene	ND		0.00185	0.000351	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
1,2,4-Trichlorobenzene	ND		0.00185	0.000619	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
1,1,1-Trichloroethane	ND		0.00185	0.000850	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
1,1,2-Trichloroethane	ND		0.00462	0.00129	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
Trichloroethene	ND		0.00185	0.000887	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
Trichlorofluoromethane	ND		0.00185	0.000924	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
1,2,3-Trichloropropane	ND		0.00185	0.000508	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.0185</b>		0.00185	0.000924	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
1,3,5-Trimethylbenzene	ND		0.00185	0.000693	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
Vinyl chloride	ND		0.00185	0.00102	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
Xylenes, Total	ND		0.00554	0.00114	mg/Kg	☼	04/11/18 09:18	04/24/18 18:07	1
<b>Gasoline Range Organics [C6 - C10]</b>	<b>153</b>		25.7	12.8	mg/Kg	☼	04/11/18 09:18	04/25/18 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	X	70 - 130	04/11/18 09:18	04/24/18 18:07	1
4-Bromofluorobenzene (Surr)	99		70 - 130	04/11/18 09:18	04/25/18 18:37	1
4-Bromofluorobenzene (Surr)	99		70 - 130	04/11/18 09:18	04/25/18 21:18	1
Dibromofluoromethane (Surr)	92		70 - 130	04/11/18 09:18	04/24/18 18:07	1
Dibromofluoromethane (Surr)	91		70 - 130	04/11/18 09:18	04/25/18 18:37	1
Dibromofluoromethane (Surr)	103		70 - 130	04/11/18 09:18	04/25/18 21:18	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130	04/11/18 09:18	04/24/18 18:07	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 130	04/11/18 09:18	04/25/18 18:37	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130	04/11/18 09:18	04/25/18 21:18	1
Toluene-d8 (Surr)	137	X	70 - 130	04/11/18 09:18	04/24/18 18:07	1
Toluene-d8 (Surr)	102		70 - 130	04/11/18 09:18	04/25/18 18:37	1
Toluene-d8 (Surr)	96		70 - 130	04/11/18 09:18	04/25/18 21:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>13.7</b>	<b>J B</b>	21.0	7.42	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
<b>Oil Range Organics C21-C35</b>	<b>10.6</b>	<b>J B</b>	21.0	7.42	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Acenaphthene	ND		0.0843	0.0402	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Acenaphthylene	ND		0.0843	0.0365	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Anthracene	ND		0.0843	0.0365	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Benzo[a]anthracene	ND		0.0843	0.0377	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Benzo[a]pyrene	ND		0.0843	0.0340	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Benzo[b]fluoranthene	ND		0.0843	0.0352	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Benzo[g,h,i]perylene	ND		0.0843	0.0415	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Benzo[k]fluoranthene	ND		0.0843	0.0340	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB1 (12.5-14.5)**

**Lab Sample ID: 490-150020-10**

**Date Collected: 04/11/18 09:18**

**Matrix: Solid**

**Date Received: 04/13/18 09:30**

**Percent Solids: 79.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.0843	0.0465	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Dibenz(a,h)anthracene	ND		0.0843	0.0402	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Fluoranthene	ND		0.0843	0.0428	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Fluorene	ND		0.0843	0.0365	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Indeno[1,2,3-cd]pyrene	ND		0.0843	0.0365	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Naphthalene	ND		0.0843	0.0365	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Phenanthrene	ND		0.0843	0.0428	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Pyrene	ND		0.0843	0.0428	mg/Kg	☼	04/14/18 13:01	04/20/18 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	70		29 - 120				04/14/18 13:01	04/20/18 12:39	1
Nitrobenzene-d5 (Surr)	68		27 - 120				04/14/18 13:01	04/20/18 12:39	1
Terphenyl-d14 (Surr)	81		13 - 120				04/14/18 13:01	04/20/18 12:39	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.82		0.586	0.234	mg/Kg	☼	04/20/18 12:55	04/23/18 22:44	1
Barium	86.0		0.586	0.234	mg/Kg	☼	04/20/18 12:55	04/23/18 22:44	1
Cadmium	ND		0.586	0.234	mg/Kg	☼	04/20/18 12:55	04/23/18 22:44	1
Chromium	12.1		0.586	0.234	mg/Kg	☼	04/20/18 12:55	04/23/18 22:44	1
Lead	8.09		0.586	0.234	mg/Kg	☼	04/20/18 12:55	04/23/18 22:44	1
Selenium	ND		0.586	0.234	mg/Kg	☼	04/20/18 12:55	04/23/18 22:44	1
Silver	ND		0.586	0.117	mg/Kg	☼	04/20/18 12:55	04/24/18 22:22	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.0		0.1	0.1	%			04/15/18 11:26	1
Percent Solids	79.0		0.1	0.1	%			04/15/18 11:26	1

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB1 (20-22)**

**Date Collected: 04/11/18 09:45**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-11**

**Matrix: Solid**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0130</b>	<b>J</b>	0.0503	0.00845	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Benzene	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Bromobenzene	ND		0.00201	0.000725	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Bromoform	ND		0.00201	0.000554	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Bromomethane	ND		0.00201	0.00121	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
2-Butanone (MEK)	ND		0.0503	0.00513	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Carbon disulfide	ND		0.00503	0.00362	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Carbon tetrachloride	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Chlorobenzene	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Chlorobromomethane	ND		0.00201	0.000554	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Chlorodibromomethane	ND		0.00201	0.000342	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Chloroethane	ND		0.00503	0.00191	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Chloroform	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Chloromethane	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
2-Chlorotoluene	ND		0.00201	0.000896	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
4-Chlorotoluene	ND		0.00201	0.000845	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
cis-1,2-Dichloroethene	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
cis-1,3-Dichloropropene	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,2-Dibromo-3-Chloropropane	ND		0.00503	0.000704	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Dibromomethane	ND		0.00201	0.000564	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,2-Dichlorobenzene	ND		0.00201	0.000342	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,3-Dichlorobenzene	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,4-Dichlorobenzene	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Dichlorobromomethane	ND		0.00201	0.000554	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Dichlorodifluoromethane	ND		0.00201	0.00101	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,1-Dichloroethane	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,1-Dichloroethene	ND		0.00201	0.000574	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,2-Dichloropropane	ND		0.00201	0.000946	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,3-Dichloropropane	ND		0.00201	0.000946	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
2,2-Dichloropropane	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,1-Dichloropropene	ND		0.00201	0.000513	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Diisopropyl ether	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
EDB	ND		0.00201	0.00101	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
EDC	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Ethylbenzene	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Ethyl tert-butyl ether	ND		0.00503	0.00101	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Hexachlorobutadiene	ND		0.00503	0.00115	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
2-Hexanone	ND		0.0503	0.0168	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
<b>Isopropylbenzene</b>	<b>0.00741</b>		0.00201	0.000413	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
<b>4-Isopropyltoluene</b>	<b>0.00185</b>	<b>J</b>	0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
<b>Methylene Chloride</b>	<b>0.0130</b>		0.0101	0.000866	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
4-Methyl-2-pentanone (MIBK)	ND		0.0503	0.00191	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Methyl tert-butyl ether	ND		0.00201	0.000966	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.000704</b>	<b>J B</b>	0.00403	0.000564	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Naphthalene	ND		0.00503	0.00171	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
<b>n-Butylbenzene</b>	<b>0.0781</b>		0.00187	0.000918	mg/Kg	☼	04/11/18 09:45	04/25/18 16:56	1
<b>N-Propylbenzene</b>	<b>0.0710</b>		0.00187	0.000628	mg/Kg	☼	04/11/18 09:45	04/25/18 16:56	1
o-Xylene	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
<b>sec-Butylbenzene</b>	<b>0.0283</b>		0.00187	0.000628	mg/Kg	☼	04/11/18 09:45	04/25/18 16:56	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB1 (20-22)**

**Date Collected: 04/11/18 09:45**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-11**

**Matrix: Solid**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00201	0.00111	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Tert-amyl methyl ether	ND		0.00201	0.000312	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
tert-Butyl alcohol (TBA)	ND		0.0503	0.0113	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
tert-Butylbenzene	ND		0.00201	0.000906	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,1,1,2-Tetrachloroethane	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,1,2,2-Tetrachloroethane	ND		0.00201	0.00101	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Tetrachloroethene	ND		0.00201	0.000735	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Toluene	ND		0.00201	0.000745	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
trans-1,2-Dichloroethene	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
trans-1,3-Dichloropropene	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,2,3-Trichlorobenzene	ND		0.00201	0.000382	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,2,4-Trichlorobenzene	ND		0.00201	0.000674	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,1,1-Trichloroethane	ND		0.00201	0.000926	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,1,2-Trichloroethane	ND		0.00503	0.00141	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Trichloroethene	ND		0.00201	0.000966	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Trichlorofluoromethane	ND		0.00201	0.00101	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,2,3-Trichloropropane	ND		0.00201	0.000554	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,2,4-Trimethylbenzene	ND		0.00201	0.00101	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
1,3,5-Trimethylbenzene	ND		0.00201	0.000755	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Vinyl chloride	ND		0.00201	0.00111	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
Xylenes, Total	ND		0.00604	0.00124	mg/Kg	☼	04/11/18 09:45	04/24/18 18:38	1
<b>Gasoline Range Organics [C6 - C10]</b>	<b>6.46</b>		0.375	0.187	mg/Kg	☼	04/11/18 09:45	04/25/18 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	04/11/18 09:45	04/24/18 18:38	1
4-Bromofluorobenzene (Surr)	118		70 - 130	04/11/18 09:45	04/25/18 16:56	1
Dibromofluoromethane (Surr)	90		70 - 130	04/11/18 09:45	04/24/18 18:38	1
Dibromofluoromethane (Surr)	90		70 - 130	04/11/18 09:45	04/25/18 16:56	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130	04/11/18 09:45	04/24/18 18:38	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130	04/11/18 09:45	04/25/18 16:56	1
Toluene-d8 (Surr)	112		70 - 130	04/11/18 09:45	04/24/18 18:38	1
Toluene-d8 (Surr)	116		70 - 130	04/11/18 09:45	04/25/18 16:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>10.0</b>	<b>J B</b>	20.2	7.12	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
<b>Oil Range Organics C21-C35</b>	<b>9.62</b>	<b>J B</b>	20.2	7.12	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Acenaphthene	ND		0.0809	0.0386	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Acenaphthylene	ND		0.0809	0.0350	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Anthracene	ND		0.0809	0.0350	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Benzo[a]anthracene	ND		0.0809	0.0362	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Benzo[a]pyrene	ND		0.0809	0.0326	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Benzo[b]fluoranthene	ND		0.0809	0.0338	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Benzo[g,h,i]perylene	ND		0.0809	0.0398	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Benzo[k]fluoranthene	ND		0.0809	0.0326	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Chrysene	ND		0.0809	0.0447	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Dibenz(a,h)anthracene	ND		0.0809	0.0386	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Fluoranthene	ND		0.0809	0.0410	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Fluorene	ND		0.0809	0.0350	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB1 (20-22)**

**Lab Sample ID: 490-150020-11**

**Date Collected: 04/11/18 09:45**

**Matrix: Solid**

**Date Received: 04/13/18 09:30**

**Percent Solids: 80.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.0809	0.0350	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Naphthalene	ND		0.0809	0.0350	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Phenanthrene	ND		0.0809	0.0410	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Pyrene	ND		0.0809	0.0410	mg/Kg	☼	04/14/18 13:01	04/20/18 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	71		29 - 120				04/14/18 13:01	04/20/18 13:44	1
Nitrobenzene-d5 (Surr)	69		27 - 120				04/14/18 13:01	04/20/18 13:44	1
Terphenyl-d14 (Surr)	82		13 - 120				04/14/18 13:01	04/20/18 13:44	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.59		0.594	0.238	mg/Kg	☼	04/20/18 12:55	04/23/18 22:47	1
Barium	72.6		0.594	0.238	mg/Kg	☼	04/20/18 12:55	04/23/18 22:47	1
Cadmium	ND		0.594	0.238	mg/Kg	☼	04/20/18 12:55	04/23/18 22:47	1
Chromium	20.0		0.594	0.238	mg/Kg	☼	04/20/18 12:55	04/23/18 22:47	1
Lead	8.03		0.594	0.238	mg/Kg	☼	04/20/18 12:55	04/23/18 22:47	1
Selenium	ND		0.594	0.238	mg/Kg	☼	04/20/18 12:55	04/23/18 22:47	1
Silver	ND		0.594	0.119	mg/Kg	☼	04/20/18 12:55	04/24/18 22:25	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.1		0.1	0.1	%	—		04/15/18 11:26	1
Percent Solids	80.9		0.1	0.1	%	—		04/15/18 11:26	1

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB2 (6-8)**

**Date Collected: 04/11/18 11:35**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-12**

**Matrix: Solid**

**Percent Solids: 77.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0483	0.00812	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Benzene	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Bromobenzene	ND		0.00193	0.000696	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Bromoform	ND		0.00193	0.000532	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Bromomethane	ND		0.00193	0.00116	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
2-Butanone (MEK)	ND		0.0483	0.00493	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Carbon disulfide	ND		0.00483	0.00348	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Carbon tetrachloride	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Chlorobenzene	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Chlorobromomethane	ND		0.00193	0.000532	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Chlorodibromomethane	ND		0.00193	0.000329	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Chloroethane	ND		0.00483	0.00184	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Chloroform	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Chloromethane	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
2-Chlorotoluene	ND		0.00193	0.000860	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
4-Chlorotoluene	ND		0.00193	0.000812	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
cis-1,2-Dichloroethene	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
cis-1,3-Dichloropropene	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,2-Dibromo-3-Chloropropane	ND		0.00483	0.000677	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Dibromomethane	ND		0.00193	0.000541	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,2-Dichlorobenzene	ND		0.00193	0.000329	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,3-Dichlorobenzene	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,4-Dichlorobenzene	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Dichlorobromomethane	ND		0.00193	0.000532	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Dichlorodifluoromethane	ND		0.00193	0.000967	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,1-Dichloroethane	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,1-Dichloroethene	ND		0.00193	0.000551	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,2-Dichloropropane	ND		0.00193	0.000909	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,3-Dichloropropane	ND		0.00193	0.000909	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
2,2-Dichloropropane	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,1-Dichloropropene	ND		0.00193	0.000493	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Diisopropyl ether	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
EDB	ND		0.00193	0.000967	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
EDC	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Ethylbenzene	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Ethyl tert-butyl ether	ND		0.00483	0.000967	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Hexachlorobutadiene	ND		0.00483	0.00110	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
2-Hexanone	ND		0.0483	0.0161	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Isopropylbenzene	ND		0.00193	0.000396	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
4-Isopropyltoluene	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
<b>Methylene Chloride</b>	<b>0.0126</b>		0.00967	0.000831	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
4-Methyl-2-pentanone (MIBK)	ND		0.0483	0.00184	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Methyl tert-butyl ether	ND		0.00193	0.000928	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
m-Xylene & p-Xylene	ND		0.00387	0.000541	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Naphthalene	ND		0.00483	0.00164	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
<b>n-Butylbenzene</b>	<b>0.00111</b>	<b>J</b>	0.00193	0.000947	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
<b>N-Propylbenzene</b>	<b>0.000685</b>	<b>J</b>	0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
o-Xylene	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
sec-Butylbenzene	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB2 (6-8)**

**Date Collected: 04/11/18 11:35**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-12**

**Matrix: Solid**

**Percent Solids: 77.6**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00193	0.00106	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Tert-amyl methyl ether	ND		0.00193	0.000300	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
tert-Butyl alcohol (TBA)	ND		0.0483	0.0108	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
tert-Butylbenzene	ND		0.00193	0.000870	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,1,1,2-Tetrachloroethane	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,1,2,2-Tetrachloroethane	ND		0.00193	0.000967	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Tetrachloroethene	ND		0.00193	0.000706	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Toluene	ND		0.00193	0.000715	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
trans-1,2-Dichloroethene	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
trans-1,3-Dichloropropene	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,2,3-Trichlorobenzene	ND		0.00193	0.000367	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,2,4-Trichlorobenzene	ND		0.00193	0.000648	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,1,1-Trichloroethane	ND		0.00193	0.000889	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,1,2-Trichloroethane	ND		0.00483	0.00135	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Trichloroethene	ND		0.00193	0.000928	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Trichlorofluoromethane	ND		0.00193	0.000967	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,2,3-Trichloropropane	ND		0.00193	0.000532	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,2,4-Trimethylbenzene	ND		0.00193	0.000967	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
1,3,5-Trimethylbenzene	ND		0.00193	0.000725	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Vinyl chloride	ND		0.00193	0.00106	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Xylenes, Total	ND		0.00580	0.00119	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1
Gasoline Range Organics [C6 - C10]	ND		0.387	0.193	mg/Kg	☼	04/11/18 11:35	04/24/18 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	04/11/18 11:35	04/24/18 19:08	1
Dibromofluoromethane (Surr)	92		70 - 130	04/11/18 11:35	04/24/18 19:08	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130	04/11/18 11:35	04/24/18 19:08	1
Toluene-d8 (Surr)	103		70 - 130	04/11/18 11:35	04/24/18 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>8.68</b>	<b>J B</b>	21.3	7.52	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
<b>Oil Range Organics C21-C35</b>	<b>10.2</b>	<b>J B</b>	21.3	7.52	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Acenaphthene	ND		0.0853	0.0408	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Acenaphthylene	ND		0.0853	0.0369	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Anthracene	ND		0.0853	0.0369	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Benzo[a]anthracene	ND		0.0853	0.0382	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Benzo[a]pyrene	ND		0.0853	0.0344	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Benzo[b]fluoranthene	ND		0.0853	0.0357	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Benzo[g,h,i]perylene	ND		0.0853	0.0420	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Benzo[k]fluoranthene	ND		0.0853	0.0344	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Chrysene	ND		0.0853	0.0471	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Dibenz(a,h)anthracene	ND		0.0853	0.0408	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Fluoranthene	ND		0.0853	0.0433	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Fluorene	ND		0.0853	0.0369	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Indeno[1,2,3-cd]pyrene	ND		0.0853	0.0369	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Naphthalene	ND		0.0853	0.0369	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Phenanthrene	ND		0.0853	0.0433	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1
Pyrene	ND		0.0853	0.0433	mg/Kg	☼	04/14/18 13:01	04/20/18 14:06	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB2 (6-8)**

**Date Collected: 04/11/18 11:35**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-12**

**Matrix: Solid**

**Percent Solids: 77.6**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	67		29 - 120	04/14/18 13:01	04/20/18 14:06	1
Nitrobenzene-d5 (Surr)	63		27 - 120	04/14/18 13:01	04/20/18 14:06	1
Terphenyl-d14 (Surr)	77		13 - 120	04/14/18 13:01	04/20/18 14:06	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.88		0.585	0.234	mg/Kg	☼	04/20/18 12:55	04/23/18 22:50	1
Barium	193		0.585	0.234	mg/Kg	☼	04/20/18 12:55	04/23/18 22:50	1
Cadmium	ND		0.585	0.234	mg/Kg	☼	04/20/18 12:55	04/23/18 22:50	1
Chromium	13.3		0.585	0.234	mg/Kg	☼	04/20/18 12:55	04/23/18 22:50	1
Lead	11.9		0.585	0.234	mg/Kg	☼	04/20/18 12:55	04/23/18 22:50	1
Selenium	ND		0.585	0.234	mg/Kg	☼	04/20/18 12:55	04/23/18 22:50	1
Silver	ND		0.585	0.117	mg/Kg	☼	04/20/18 12:55	04/24/18 22:35	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.3		0.1	0.1	%	—		04/15/18 11:26	1
Percent Solids	77.7		0.1	0.1	%	—		04/15/18 11:26	1

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB2 (18-20)**

**Date Collected: 04/11/18 11:40**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-13**

**Matrix: Solid**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0451	0.00757	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Benzene	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Bromobenzene	ND		0.00180	0.000649	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Bromoform	ND		0.00180	0.000496	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Bromomethane	ND		0.00180	0.00108	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
2-Butanone (MEK)	ND		0.0451	0.00460	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Carbon disulfide	ND		0.00451	0.00325	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Carbon tetrachloride	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Chlorobenzene	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Chlorobromomethane	ND		0.00180	0.000496	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Chlorodibromomethane	ND		0.00180	0.000307	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Chloroethane	ND		0.00451	0.00171	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Chloroform	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Chloromethane	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
2-Chlorotoluene	ND		0.00180	0.000803	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
4-Chlorotoluene	ND		0.00180	0.000757	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
cis-1,2-Dichloroethene	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
cis-1,3-Dichloropropene	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,2-Dibromo-3-Chloropropane	ND		0.00451	0.000631	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Dibromomethane	ND		0.00180	0.000505	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,2-Dichlorobenzene	ND		0.00180	0.000307	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,3-Dichlorobenzene	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,4-Dichlorobenzene	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Dichlorobromomethane	ND		0.00180	0.000496	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Dichlorodifluoromethane	ND		0.00180	0.000902	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,1-Dichloroethane	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,1-Dichloroethene	ND		0.00180	0.000514	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,2-Dichloropropane	ND		0.00180	0.000848	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,3-Dichloropropane	ND		0.00180	0.000848	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
2,2-Dichloropropane	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,1-Dichloropropene	ND		0.00180	0.000460	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Diisopropyl ether	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
EDB	ND		0.00180	0.000902	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
EDC	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Ethylbenzene	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Ethyl tert-butyl ether	ND		0.00451	0.000902	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Hexachlorobutadiene	ND		0.00451	0.00103	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
2-Hexanone	ND		0.0451	0.0151	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Isopropylbenzene	ND		0.00180	0.000370	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
4-Isopropyltoluene	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
<b>Methylene Chloride</b>	<b>0.0127</b>		0.00902	0.000776	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
4-Methyl-2-pentanone (MIBK)	ND		0.0451	0.00171	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Methyl tert-butyl ether	ND		0.00180	0.000866	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
m-Xylene & p-Xylene	ND		0.00361	0.000505	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Naphthalene	ND		0.00451	0.00153	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
n-Butylbenzene	ND		0.00180	0.000884	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
N-Propylbenzene	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
o-Xylene	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
sec-Butylbenzene	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB2 (18-20)**

**Lab Sample ID: 490-150020-13**

**Date Collected: 04/11/18 11:40**

**Matrix: Solid**

**Date Received: 04/13/18 09:30**

**Percent Solids: 81.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00180	0.000992	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Tert-amyl methyl ether	ND		0.00180	0.000280	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
tert-Butyl alcohol (TBA)	ND		0.0451	0.0101	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
tert-Butylbenzene	ND		0.00180	0.000812	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,1,1,2-Tetrachloroethane	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,1,2,2-Tetrachloroethane	ND		0.00180	0.000902	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Tetrachloroethene	ND		0.00180	0.000658	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Toluene	ND		0.00180	0.000667	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
trans-1,2-Dichloroethene	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
trans-1,3-Dichloropropene	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,2,3-Trichlorobenzene	ND		0.00180	0.000343	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,2,4-Trichlorobenzene	ND		0.00180	0.000604	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,1,1-Trichloroethane	ND		0.00180	0.000830	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,1,2-Trichloroethane	ND		0.00451	0.00126	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Trichloroethene	ND		0.00180	0.000866	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Trichlorofluoromethane	ND		0.00180	0.000902	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,2,3-Trichloropropane	ND		0.00180	0.000496	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,2,4-Trimethylbenzene	ND		0.00180	0.000902	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
1,3,5-Trimethylbenzene	ND		0.00180	0.000676	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Vinyl chloride	ND		0.00180	0.000992	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Xylenes, Total	ND		0.00541	0.00111	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1
Gasoline Range Organics [C6 - C10]	ND		0.361	0.180	mg/Kg	☼	04/11/18 11:40	04/24/18 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	04/11/18 11:40	04/24/18 19:39	1
Dibromofluoromethane (Surr)	94		70 - 130	04/11/18 11:40	04/24/18 19:39	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130	04/11/18 11:40	04/24/18 19:39	1
Toluene-d8 (Surr)	101		70 - 130	04/11/18 11:40	04/24/18 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>8.66</b>	<b>J B</b>	20.5	7.26	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
<b>Oil Range Organics C21-C35</b>	<b>9.70</b>	<b>J B</b>	20.5	7.26	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Acenaphthene	ND		0.0824	0.0394	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Acenaphthylene	ND		0.0824	0.0357	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Anthracene	ND		0.0824	0.0357	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Benzo[a]anthracene	ND		0.0824	0.0369	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Benzo[a]pyrene	ND		0.0824	0.0332	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Benzo[b]fluoranthene	ND		0.0824	0.0344	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Benzo[g,h,i]perylene	ND		0.0824	0.0406	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Benzo[k]fluoranthene	ND		0.0824	0.0332	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Chrysene	ND		0.0824	0.0455	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Dibenz(a,h)anthracene	ND		0.0824	0.0394	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Fluoranthene	ND		0.0824	0.0418	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Fluorene	ND		0.0824	0.0357	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Indeno[1,2,3-cd]pyrene	ND		0.0824	0.0357	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Naphthalene	ND		0.0824	0.0357	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Phenanthrene	ND		0.0824	0.0418	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1
Pyrene	ND		0.0824	0.0418	mg/Kg	☼	04/14/18 13:01	04/20/18 14:27	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB2 (18-20)**

**Date Collected: 04/11/18 11:40**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-13**

**Matrix: Solid**

**Percent Solids: 81.0**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68		29 - 120	04/14/18 13:01	04/20/18 14:27	1
Nitrobenzene-d5 (Surr)	67		27 - 120	04/14/18 13:01	04/20/18 14:27	1
Terphenyl-d14 (Surr)	79		13 - 120	04/14/18 13:01	04/20/18 14:27	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.17		0.532	0.213	mg/Kg	☼	04/20/18 12:55	04/23/18 22:53	1
Barium	85.4		0.532	0.213	mg/Kg	☼	04/20/18 12:55	04/23/18 22:53	1
Cadmium	ND		0.532	0.213	mg/Kg	☼	04/20/18 12:55	04/23/18 22:53	1
Chromium	19.5		0.532	0.213	mg/Kg	☼	04/20/18 12:55	04/23/18 22:53	1
Lead	8.80		0.532	0.213	mg/Kg	☼	04/20/18 12:55	04/23/18 22:53	1
Selenium	ND		0.532	0.213	mg/Kg	☼	04/20/18 12:55	04/23/18 22:53	1
Silver	ND		0.532	0.106	mg/Kg	☼	04/20/18 12:55	04/24/18 22:38	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19.0		0.1	0.1	%	—		04/15/18 11:26	1
Percent Solids	81.0		0.1	0.1	%	—		04/15/18 11:26	1

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB3 (5-7)**

**Date Collected: 04/11/18 14:08**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-14**

**Matrix: Solid**

**Percent Solids: 79.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0707		0.0621	0.0104	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Benzene	0.00106	J	0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Bromobenzene	ND		0.00249	0.000895	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Bromoform	ND		0.00249	0.000684	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Bromomethane	ND		0.00249	0.00149	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
2-Butanone (MEK)	0.00647	J	0.0621	0.00634	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Carbon disulfide	0.00933		0.00621	0.00447	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Carbon tetrachloride	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Chlorobenzene	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Chlorobromomethane	ND		0.00249	0.000684	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Chlorodibromomethane	ND		0.00249	0.000423	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Chloroethane	ND		0.00621	0.00236	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Chloroform	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Chloromethane	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
2-Chlorotoluene	ND		0.00249	0.00111	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
4-Chlorotoluene	ND		0.00249	0.00104	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
cis-1,2-Dichloroethene	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
cis-1,3-Dichloropropene	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,2-Dibromo-3-Chloropropane	ND		0.00621	0.000870	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Dibromomethane	ND		0.00249	0.000696	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,2-Dichlorobenzene	ND		0.00249	0.000423	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,3-Dichlorobenzene	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,4-Dichlorobenzene	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Dichlorobromomethane	ND		0.00249	0.000684	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Dichlorodifluoromethane	ND		0.00249	0.00124	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,1-Dichloroethane	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,1-Dichloroethene	ND		0.00249	0.000708	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,2-Dichloropropane	ND		0.00249	0.00117	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,3-Dichloropropane	ND		0.00249	0.00117	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
2,2-Dichloropropane	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,1-Dichloropropene	ND		0.00249	0.000634	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Diisopropyl ether	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
EDB	ND		0.00249	0.00124	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
EDC	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Ethylbenzene	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Ethyl tert-butyl ether	ND		0.00621	0.00124	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Hexachlorobutadiene	ND		0.00621	0.00142	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
2-Hexanone	ND		0.0621	0.0208	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Isopropylbenzene	ND		0.00249	0.000510	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
4-Isopropyltoluene	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Methylene Chloride	0.0137		0.0124	0.00107	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
4-Methyl-2-pentanone (MIBK)	ND		0.0621	0.00236	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Methyl tert-butyl ether	ND		0.00249	0.00119	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
m-Xylene & p-Xylene	0.00110	J B	0.00497	0.000696	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Naphthalene	ND		0.00621	0.00211	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
n-Butylbenzene	ND		0.00249	0.00122	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
N-Propylbenzene	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
o-Xylene	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
sec-Butylbenzene	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB3 (5-7)**

**Date Collected: 04/11/18 14:08**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-14**

**Matrix: Solid**

**Percent Solids: 79.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00249	0.00137	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Tert-amyl methyl ether	ND		0.00249	0.000385	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
tert-Butyl alcohol (TBA)	ND		0.0621	0.0139	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
tert-Butylbenzene	ND		0.00249	0.00112	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,1,1,2-Tetrachloroethane	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,1,2,2-Tetrachloroethane	ND		0.00249	0.00124	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Tetrachloroethene	ND		0.00249	0.000907	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
<b>Toluene</b>	<b>0.00204</b>	<b>J</b>	0.00249	0.000920	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
trans-1,2-Dichloroethene	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
trans-1,3-Dichloropropene	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,2,3-Trichlorobenzene	ND		0.00249	0.000472	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,2,4-Trichlorobenzene	ND		0.00249	0.000833	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,1,1-Trichloroethane	ND		0.00249	0.00114	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,1,2-Trichloroethane	ND		0.00621	0.00174	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Trichloroethene	ND		0.00249	0.00119	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Trichlorofluoromethane	ND		0.00249	0.00124	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,2,3-Trichloropropane	ND		0.00249	0.000684	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,2,4-Trimethylbenzene	ND		0.00249	0.00124	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
1,3,5-Trimethylbenzene	ND		0.00249	0.000932	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Vinyl chloride	ND		0.00249	0.00137	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Xylenes, Total	ND		0.00746	0.00153	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1
Gasoline Range Organics [C6 - C10]	ND		0.497	0.249	mg/Kg	☼	04/11/18 14:08	04/24/18 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	04/11/18 14:08	04/24/18 20:10	1
Dibromofluoromethane (Surr)	96		70 - 130	04/11/18 14:08	04/24/18 20:10	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130	04/11/18 14:08	04/24/18 20:10	1
Toluene-d8 (Surr)	104		70 - 130	04/11/18 14:08	04/24/18 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics C10-C21	ND		104	36.9	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
<b>Oil Range Organics C21-C35</b>	<b>51.1</b>	<b>J B</b>	104	36.9	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
Acenaphthene	ND		0.419	0.200	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
Acenaphthylene	ND		0.419	0.181	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
Anthracene	ND		0.419	0.181	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
Benzo[a]anthracene	ND		0.419	0.188	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
Benzo[a]pyrene	ND		0.419	0.169	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
Benzo[b]fluoranthene	ND		0.419	0.175	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
Benzo[g,h,i]perylene	ND		0.419	0.206	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
Benzo[k]fluoranthene	ND		0.419	0.169	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
Chrysene	ND		0.419	0.231	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
Dibenz(a,h)anthracene	ND		0.419	0.200	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
<b>Fluoranthene</b>	<b>0.329</b>	<b>J</b>	0.419	0.213	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
Fluorene	ND		0.419	0.181	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
Indeno[1,2,3-cd]pyrene	ND		0.419	0.181	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
Naphthalene	ND		0.419	0.181	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
Phenanthrene	ND		0.419	0.213	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5
<b>Pyrene</b>	<b>0.246</b>	<b>J</b>	0.419	0.213	mg/Kg	☼	04/14/18 13:01	04/20/18 14:49	5

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB3 (5-7)**

**Date Collected: 04/11/18 14:08**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-14**

**Matrix: Solid**

**Percent Solids: 79.1**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	75		29 - 120	04/14/18 13:01	04/20/18 14:49	5
Nitrobenzene-d5 (Surr)	63		27 - 120	04/14/18 13:01	04/20/18 14:49	5
Terphenyl-d14 (Surr)	78		13 - 120	04/14/18 13:01	04/20/18 14:49	5

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.01		0.608	0.243	mg/Kg	☼	04/20/18 12:55	04/23/18 22:56	1
Barium	151		0.608	0.243	mg/Kg	☼	04/20/18 12:55	04/23/18 22:56	1
Cadmium	ND		0.608	0.243	mg/Kg	☼	04/20/18 12:55	04/23/18 22:56	1
Chromium	18.0		0.608	0.243	mg/Kg	☼	04/20/18 12:55	04/23/18 22:56	1
Lead	15.0		0.608	0.243	mg/Kg	☼	04/20/18 12:55	04/23/18 22:56	1
Selenium	ND		0.608	0.243	mg/Kg	☼	04/20/18 12:55	04/23/18 22:56	1
Silver	ND		0.608	0.122	mg/Kg	☼	04/20/18 12:55	04/24/18 22:41	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.9		0.1	0.1	%			04/15/18 11:26	1
Percent Solids	79.1		0.1	0.1	%			04/15/18 11:26	1

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB3 (15-17)**

**Date Collected: 04/11/18 14:18**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-15**

**Matrix: Solid**

**Percent Solids: 81.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0154</b>	<b>J</b>	0.0473	0.00795	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Benzene	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Bromobenzene	ND		0.00189	0.000681	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Bromoform	ND		0.00189	0.000520	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Bromomethane	ND		0.00189	0.00114	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
2-Butanone (MEK)	ND		0.0473	0.00482	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Carbon disulfide	ND		0.00473	0.00341	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Carbon tetrachloride	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Chlorobenzene	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Chlorobromomethane	ND		0.00189	0.000520	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Chlorodibromomethane	ND		0.00189	0.000322	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Chloroethane	ND		0.00473	0.00180	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Chloroform	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Chloromethane	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
2-Chlorotoluene	ND		0.00189	0.000842	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
4-Chlorotoluene	ND		0.00189	0.000795	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
cis-1,2-Dichloroethene	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
cis-1,3-Dichloropropene	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,2-Dibromo-3-Chloropropane	ND		0.00473	0.000662	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Dibromomethane	ND		0.00189	0.000530	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,2-Dichlorobenzene	ND		0.00189	0.000322	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,3-Dichlorobenzene	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,4-Dichlorobenzene	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Dichlorobromomethane	ND		0.00189	0.000520	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Dichlorodifluoromethane	ND		0.00189	0.000946	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,1-Dichloroethane	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,1-Dichloroethene	ND		0.00189	0.000539	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,2-Dichloropropane	ND		0.00189	0.000889	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,3-Dichloropropane	ND		0.00189	0.000889	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
2,2-Dichloropropane	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,1-Dichloropropene	ND		0.00189	0.000482	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Diisopropyl ether	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
EDB	ND		0.00189	0.000946	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
EDC	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Ethylbenzene	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Ethyl tert-butyl ether	ND		0.00473	0.000946	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Hexachlorobutadiene	ND		0.00473	0.00108	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
2-Hexanone	ND		0.0473	0.0158	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Isopropylbenzene	ND		0.00189	0.000388	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
4-Isopropyltoluene	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
<b>Methylene Chloride</b>	<b>0.0117</b>		0.00946	0.000813	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
4-Methyl-2-pentanone (MIBK)	ND		0.0473	0.00180	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
<b>Methyl tert-butyl ether</b>	<b>0.0140</b>		0.00189	0.000908	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
m-Xylene & p-Xylene	ND		0.00378	0.000530	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Naphthalene	ND		0.00473	0.00161	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
n-Butylbenzene	ND		0.00189	0.000927	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
N-Propylbenzene	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
o-Xylene	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
sec-Butylbenzene	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB3 (15-17)**

**Date Collected: 04/11/18 14:18**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-15**

**Matrix: Solid**

**Percent Solids: 81.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00189	0.00104	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Tert-amyl methyl ether	ND		0.00189	0.000293	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
tert-Butyl alcohol (TBA)	ND		0.0473	0.0106	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
tert-Butylbenzene	ND		0.00189	0.000851	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,1,1,2-Tetrachloroethane	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,1,2,2-Tetrachloroethane	ND		0.00189	0.000946	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Tetrachloroethene	ND		0.00189	0.000690	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Toluene	ND		0.00189	0.000700	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
trans-1,2-Dichloroethene	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
trans-1,3-Dichloropropene	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,2,3-Trichlorobenzene	ND		0.00189	0.000359	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,2,4-Trichlorobenzene	ND		0.00189	0.000634	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,1,1-Trichloroethane	ND		0.00189	0.000870	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,1,2-Trichloroethane	ND		0.00473	0.00132	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Trichloroethene	ND		0.00189	0.000908	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Trichlorofluoromethane	ND		0.00189	0.000946	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,2,3-Trichloropropane	ND		0.00189	0.000520	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,2,4-Trimethylbenzene	ND		0.00189	0.000946	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
1,3,5-Trimethylbenzene	ND		0.00189	0.000709	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Vinyl chloride	ND		0.00189	0.00104	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Xylenes, Total	ND		0.00568	0.00116	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1
Gasoline Range Organics [C6 - C10]	ND		0.378	0.189	mg/Kg	☼	04/11/18 14:18	04/24/18 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/11/18 14:18	04/24/18 20:41	1
Dibromofluoromethane (Surr)	94		70 - 130	04/11/18 14:18	04/24/18 20:41	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130	04/11/18 14:18	04/24/18 20:41	1
Toluene-d8 (Surr)	102		70 - 130	04/11/18 14:18	04/24/18 20:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>8.02</b>	<b>J B</b>	20.2	7.15	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
<b>Oil Range Organics C21-C35</b>	<b>9.62</b>	<b>J B</b>	20.2	7.15	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Acenaphthene	ND		0.0812	0.0388	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Acenaphthylene	ND		0.0812	0.0352	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Anthracene	ND		0.0812	0.0352	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Benzo[a]anthracene	ND		0.0812	0.0364	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Benzo[a]pyrene	ND		0.0812	0.0327	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Benzo[b]fluoranthene	ND		0.0812	0.0339	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Benzo[g,h,i]perylene	ND		0.0812	0.0400	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Benzo[k]fluoranthene	ND		0.0812	0.0327	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Chrysene	ND		0.0812	0.0449	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Dibenz(a,h)anthracene	ND		0.0812	0.0388	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Fluoranthene	ND		0.0812	0.0412	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Fluorene	ND		0.0812	0.0352	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Indeno[1,2,3-cd]pyrene	ND		0.0812	0.0352	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Naphthalene	ND		0.0812	0.0352	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Phenanthrene	ND		0.0812	0.0412	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1
Pyrene	ND		0.0812	0.0412	mg/Kg	☼	04/14/18 13:01	04/20/18 15:11	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB3 (15-17)**

**Date Collected: 04/11/18 14:18**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-15**

**Matrix: Solid**

**Percent Solids: 81.7**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	51		29 - 120	04/14/18 13:01	04/20/18 15:11	1
Nitrobenzene-d5 (Surr)	49		27 - 120	04/14/18 13:01	04/20/18 15:11	1
Terphenyl-d14 (Surr)	77		13 - 120	04/14/18 13:01	04/20/18 15:11	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.46		0.589	0.235	mg/Kg	☼	04/20/18 12:55	04/23/18 22:59	1
Barium	103		0.589	0.235	mg/Kg	☼	04/20/18 12:55	04/23/18 22:59	1
Cadmium	ND		0.589	0.235	mg/Kg	☼	04/20/18 12:55	04/23/18 22:59	1
Chromium	16.6		0.589	0.235	mg/Kg	☼	04/20/18 12:55	04/23/18 22:59	1
Lead	8.61		0.589	0.235	mg/Kg	☼	04/20/18 12:55	04/23/18 22:59	1
Selenium	ND		0.589	0.235	mg/Kg	☼	04/20/18 12:55	04/23/18 22:59	1
Silver	ND		0.589	0.118	mg/Kg	☼	04/20/18 12:55	04/24/18 22:44	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.3		0.1	0.1	%	—		04/15/18 11:26	1
Percent Solids	81.7		0.1	0.1	%	—		04/15/18 11:26	1



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB4 (10-12)**

**Date Collected: 04/11/18 15:18**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-16**

**Matrix: Solid**

**Percent Solids: 79.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0472	0.00793	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Benzene	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Bromobenzene	ND		0.00189	0.000680	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Bromoform	ND		0.00189	0.000519	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Bromomethane	ND		0.00189	0.00113	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
2-Butanone (MEK)	ND		0.0472	0.00481	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Carbon disulfide	ND		0.00472	0.00340	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Carbon tetrachloride	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Chlorobenzene	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Chlorobromomethane	ND		0.00189	0.000519	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Chlorodibromomethane	ND		0.00189	0.000321	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Chloroethane	ND		0.00472	0.00179	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Chloroform	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Chloromethane	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
2-Chlorotoluene	ND		0.00189	0.000840	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
4-Chlorotoluene	ND		0.00189	0.000793	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
cis-1,2-Dichloroethene	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
cis-1,3-Dichloropropene	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,2-Dibromo-3-Chloropropane	ND		0.00472	0.000661	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Dibromomethane	ND		0.00189	0.000529	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,2-Dichlorobenzene	ND		0.00189	0.000321	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,3-Dichlorobenzene	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,4-Dichlorobenzene	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Dichlorobromomethane	ND		0.00189	0.000519	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Dichlorodifluoromethane	ND		0.00189	0.000944	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,1-Dichloroethane	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,1-Dichloroethene	ND		0.00189	0.000538	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,2-Dichloropropane	ND		0.00189	0.000887	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,3-Dichloropropane	ND		0.00189	0.000887	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
2,2-Dichloropropane	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,1-Dichloropropene	ND		0.00189	0.000481	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Diisopropyl ether	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
EDB	ND		0.00189	0.000944	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
EDC	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Ethylbenzene	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Ethyl tert-butyl ether	ND		0.00472	0.000944	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Hexachlorobutadiene	ND		0.00472	0.00108	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
2-Hexanone	ND		0.0472	0.0158	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Isopropylbenzene	ND		0.00189	0.000387	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
4-Isopropyltoluene	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
<b>Methylene Chloride</b>	<b>0.0100</b>		0.00944	0.000812	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
4-Methyl-2-pentanone (MIBK)	ND		0.0472	0.00179	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
<b>Methyl tert-butyl ether</b>	<b>0.00519</b>		0.00189	0.000906	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
m-Xylene & p-Xylene	ND		0.00378	0.000529	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Naphthalene	ND		0.00472	0.00160	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
<b>n-Butylbenzene</b>	<b>0.00144</b>	<b>J</b>	0.00189	0.000925	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
N-Propylbenzene	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
o-Xylene	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
<b>sec-Butylbenzene</b>	<b>0.00236</b>		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB4 (10-12)**

**Lab Sample ID: 490-150020-16**

**Date Collected: 04/11/18 15:18**

**Matrix: Solid**

**Date Received: 04/13/18 09:30**

**Percent Solids: 79.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00189	0.00104	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Tert-amyl methyl ether	ND		0.00189	0.000293	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
tert-Butyl alcohol (TBA)	ND		0.0472	0.0106	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
tert-Butylbenzene	ND		0.00189	0.000850	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,1,1,2-Tetrachloroethane	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,1,2,2-Tetrachloroethane	ND		0.00189	0.000944	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Tetrachloroethene	ND		0.00189	0.000689	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Toluene	ND		0.00189	0.000699	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
trans-1,2-Dichloroethene	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
trans-1,3-Dichloropropene	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,2,3-Trichlorobenzene	ND		0.00189	0.000359	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,2,4-Trichlorobenzene	ND		0.00189	0.000632	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,1,1-Trichloroethane	ND		0.00189	0.000869	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,1,2-Trichloroethane	ND		0.00472	0.00132	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Trichloroethene	ND		0.00189	0.000906	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Trichlorofluoromethane	ND		0.00189	0.000944	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,2,3-Trichloropropane	ND		0.00189	0.000519	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,2,4-Trimethylbenzene	ND		0.00189	0.000944	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
1,3,5-Trimethylbenzene	ND		0.00189	0.000708	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Vinyl chloride	ND		0.00189	0.00104	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
Xylenes, Total	ND		0.00566	0.00116	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1
<b>Gasoline Range Organics [C6 - C10]</b>	<b>1.84</b>		0.378	0.189	mg/Kg	☼	04/11/18 15:18	04/25/18 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	04/11/18 15:18	04/25/18 17:27	1
Dibromofluoromethane (Surr)	90		70 - 130	04/11/18 15:18	04/25/18 17:27	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130	04/11/18 15:18	04/25/18 17:27	1
Toluene-d8 (Surr)	109		70 - 130	04/11/18 15:18	04/25/18 17:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>8.88</b>	<b>J B</b>	20.8	7.36	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
<b>Oil Range Organics C21-C35</b>	<b>9.67</b>	<b>J B</b>	20.8	7.36	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Acenaphthene	ND		0.0836	0.0399	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Acenaphthylene	ND		0.0836	0.0362	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Anthracene	ND		0.0836	0.0362	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Benzo[a]anthracene	ND		0.0836	0.0374	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Benzo[a]pyrene	ND		0.0836	0.0337	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Benzo[b]fluoranthene	ND		0.0836	0.0349	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Benzo[g,h,i]perylene	ND		0.0836	0.0412	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Benzo[k]fluoranthene	ND		0.0836	0.0337	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Chrysene	ND		0.0836	0.0462	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Dibenz(a,h)anthracene	ND		0.0836	0.0399	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Fluoranthene	ND		0.0836	0.0424	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Fluorene	ND		0.0836	0.0362	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Indeno[1,2,3-cd]pyrene	ND		0.0836	0.0362	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Naphthalene	ND		0.0836	0.0362	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Phenanthrene	ND		0.0836	0.0424	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1
Pyrene	ND		0.0836	0.0424	mg/Kg	☼	04/14/18 13:01	04/20/18 15:32	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB4 (10-12)**

**Date Collected: 04/11/18 15:18**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-16**

**Matrix: Solid**

**Percent Solids: 79.4**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	69		29 - 120	04/14/18 13:01	04/20/18 15:32	1
Nitrobenzene-d5 (Surr)	68		27 - 120	04/14/18 13:01	04/20/18 15:32	1
Terphenyl-d14 (Surr)	78		13 - 120	04/14/18 13:01	04/20/18 15:32	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.93		0.562	0.225	mg/Kg	☼	04/20/18 12:55	04/23/18 23:09	1
Barium	161		0.562	0.225	mg/Kg	☼	04/20/18 12:55	04/23/18 23:09	1
Cadmium	ND		0.562	0.225	mg/Kg	☼	04/20/18 12:55	04/23/18 23:09	1
Chromium	17.1		0.562	0.225	mg/Kg	☼	04/20/18 12:55	04/23/18 23:09	1
Lead	8.18		0.562	0.225	mg/Kg	☼	04/20/18 12:55	04/23/18 23:09	1
Selenium	ND		0.562	0.225	mg/Kg	☼	04/20/18 12:55	04/23/18 23:09	1
Silver	ND		0.562	0.112	mg/Kg	☼	04/20/18 12:55	04/24/18 22:47	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.6		0.1	0.1	%			04/15/18 11:26	1
Percent Solids	79.4		0.1	0.1	%			04/15/18 11:26	1

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB4 (18-20)**

**Date Collected: 04/11/18 15:29**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-17**

**Matrix: Solid**

**Percent Solids: 77.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0492	0.00827	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Benzene	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Bromobenzene	ND		0.00197	0.000709	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Bromoform	ND		0.00197	0.000541	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Bromomethane	ND		0.00197	0.00118	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
2-Butanone (MEK)	ND		0.0492	0.00502	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Carbon disulfide	ND		0.00492	0.00354	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Carbon tetrachloride	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Chlorobenzene	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Chlorobromomethane	ND		0.00197	0.000541	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Chlorodibromomethane	ND		0.00197	0.000335	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Chloroethane	ND		0.00492	0.00187	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Chloroform	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Chloromethane	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
2-Chlorotoluene	ND		0.00197	0.000876	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
4-Chlorotoluene	ND		0.00197	0.000827	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
cis-1,2-Dichloroethene	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
cis-1,3-Dichloropropene	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,2-Dibromo-3-Chloropropane	ND		0.00492	0.000689	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Dibromomethane	ND		0.00197	0.000551	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,2-Dichlorobenzene	ND		0.00197	0.000335	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,3-Dichlorobenzene	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,4-Dichlorobenzene	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Dichlorobromomethane	ND		0.00197	0.000541	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Dichlorodifluoromethane	ND		0.00197	0.000984	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,1-Dichloroethane	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,1-Dichloroethene	ND		0.00197	0.000561	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,2-Dichloropropane	ND		0.00197	0.000925	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,3-Dichloropropane	ND		0.00197	0.000925	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
2,2-Dichloropropane	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,1-Dichloropropene	ND		0.00197	0.000502	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Diisopropyl ether	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
EDB	ND		0.00197	0.000984	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
EDC	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Ethylbenzene	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Ethyl tert-butyl ether	ND		0.00492	0.000984	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Hexachlorobutadiene	ND		0.00492	0.00112	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
2-Hexanone	ND		0.0492	0.0164	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Isopropylbenzene	ND		0.00197	0.000404	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
4-Isopropyltoluene	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
<b>Methylene Chloride</b>	<b>0.0122</b>		0.00984	0.000846	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
4-Methyl-2-pentanone (MIBK)	ND		0.0492	0.00187	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
<b>Methyl tert-butyl ether</b>	<b>0.00498</b>		0.00197	0.000945	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
m-Xylene & p-Xylene	ND		0.00394	0.000551	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Naphthalene	ND		0.00492	0.00167	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
n-Butylbenzene	ND		0.00197	0.000964	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
N-Propylbenzene	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
o-Xylene	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
<b>sec-Butylbenzene</b>	<b>0.000968</b>	<b>J</b>	0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB4 (18-20)**

**Lab Sample ID: 490-150020-17**

**Date Collected: 04/11/18 15:29**

**Matrix: Solid**

**Date Received: 04/13/18 09:30**

**Percent Solids: 77.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00197	0.00108	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Tert-amyl methyl ether	ND		0.00197	0.000305	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
tert-Butyl alcohol (TBA)	ND		0.0492	0.0110	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
tert-Butylbenzene	ND		0.00197	0.000886	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,1,1,2-Tetrachloroethane	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,1,2,2-Tetrachloroethane	ND		0.00197	0.000984	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Tetrachloroethene	ND		0.00197	0.000718	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Toluene	ND		0.00197	0.000728	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
trans-1,2-Dichloroethene	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
trans-1,3-Dichloropropene	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,2,3-Trichlorobenzene	ND		0.00197	0.000374	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,2,4-Trichlorobenzene	ND		0.00197	0.000659	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,1,1-Trichloroethane	ND		0.00197	0.000905	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,1,2-Trichloroethane	ND		0.00492	0.00138	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Trichloroethene	ND		0.00197	0.000945	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Trichlorofluoromethane	ND		0.00197	0.000984	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,2,3-Trichloropropane	ND		0.00197	0.000541	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,2,4-Trimethylbenzene	ND		0.00197	0.000984	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
1,3,5-Trimethylbenzene	ND		0.00197	0.000738	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Vinyl chloride	ND		0.00197	0.00108	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
Xylenes, Total	ND		0.00591	0.00121	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1
<b>Gasoline Range Organics [C6 - C10]</b>	<b>0.636</b>		0.394	0.197	mg/Kg	☼	04/11/18 15:29	04/25/18 17:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	04/11/18 15:29	04/25/18 17:58	1
Dibromofluoromethane (Surr)	92		70 - 130	04/11/18 15:29	04/25/18 17:58	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130	04/11/18 15:29	04/25/18 17:58	1
Toluene-d8 (Surr)	104		70 - 130	04/11/18 15:29	04/25/18 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>8.68</b>	<b>J B</b>	21.6	7.61	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
<b>Oil Range Organics C21-C35</b>	<b>9.83</b>	<b>J B</b>	21.6	7.61	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Acenaphthene	ND		0.0865	0.0413	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Acenaphthylene	ND		0.0865	0.0374	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Anthracene	ND		0.0865	0.0374	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Benzo[a]anthracene	ND		0.0865	0.0387	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Benzo[a]pyrene	ND		0.0865	0.0348	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Benzo[b]fluoranthene	ND		0.0865	0.0361	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Benzo[g,h,i]perylene	ND		0.0865	0.0426	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Benzo[k]fluoranthene	ND		0.0865	0.0348	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Chrysene	ND		0.0865	0.0478	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Dibenz(a,h)anthracene	ND		0.0865	0.0413	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Fluoranthene	ND		0.0865	0.0439	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Fluorene	ND		0.0865	0.0374	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Indeno[1,2,3-cd]pyrene	ND		0.0865	0.0374	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Naphthalene	ND		0.0865	0.0374	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Phenanthrene	ND		0.0865	0.0439	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1
Pyrene	ND		0.0865	0.0439	mg/Kg	☼	04/14/18 13:01	04/20/18 15:54	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB4 (18-20)**

**Date Collected: 04/11/18 15:29**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-17**

**Matrix: Solid**

**Percent Solids: 77.4**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	62		29 - 120	04/14/18 13:01	04/20/18 15:54	1
Nitrobenzene-d5 (Surr)	59		27 - 120	04/14/18 13:01	04/20/18 15:54	1
Terphenyl-d14 (Surr)	74		13 - 120	04/14/18 13:01	04/20/18 15:54	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12.9		0.622	0.249	mg/Kg	☼	04/20/18 12:55	04/23/18 23:12	1
Barium	136		0.622	0.249	mg/Kg	☼	04/20/18 12:55	04/23/18 23:12	1
Cadmium	ND		0.622	0.249	mg/Kg	☼	04/20/18 12:55	04/23/18 23:12	1
Chromium	15.5		0.622	0.249	mg/Kg	☼	04/20/18 12:55	04/23/18 23:12	1
Lead	11.0		0.622	0.249	mg/Kg	☼	04/20/18 12:55	04/23/18 23:12	1
Selenium	ND		0.622	0.249	mg/Kg	☼	04/20/18 12:55	04/23/18 23:12	1
Silver	ND		0.622	0.124	mg/Kg	☼	04/20/18 12:55	04/24/18 22:50	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.6		0.1	0.1	%	—		04/15/18 11:26	1
Percent Solids	77.4		0.1	0.1	%	—		04/15/18 11:26	1



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB4 (18-20)-FD**

**Lab Sample ID: 490-150020-18**

**Date Collected: 04/11/18 15:29**

**Matrix: Solid**

**Date Received: 04/13/18 09:30**

**Percent Solids: 79.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0102</b>	<b>J</b>	0.0559	0.00940	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Benzene	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Bromobenzene	ND		0.00224	0.000806	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Bromoform	ND		0.00224	0.000615	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Bromomethane	ND		0.00224	0.00134	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
2-Butanone (MEK)	ND		0.0559	0.00571	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Carbon disulfide	ND		0.00559	0.00403	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Carbon tetrachloride	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Chlorobenzene	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Chlorobromomethane	ND		0.00224	0.000615	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Chlorodibromomethane	ND		0.00224	0.000380	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Chloroethane	ND		0.00559	0.00213	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Chloroform	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Chloromethane	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
2-Chlorotoluene	ND		0.00224	0.000996	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
4-Chlorotoluene	ND		0.00224	0.000940	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
cis-1,2-Dichloroethene	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
cis-1,3-Dichloropropene	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,2-Dibromo-3-Chloropropane	ND		0.00559	0.000783	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Dibromomethane	ND		0.00224	0.000627	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,2-Dichlorobenzene	ND		0.00224	0.000380	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,3-Dichlorobenzene	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,4-Dichlorobenzene	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Dichlorobromomethane	ND		0.00224	0.000615	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Dichlorodifluoromethane	ND		0.00224	0.00112	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,1-Dichloroethane	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,1-Dichloroethene	ND		0.00224	0.000638	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,2-Dichloropropane	ND		0.00224	0.00105	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,3-Dichloropropane	ND		0.00224	0.00105	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
2,2-Dichloropropane	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,1-Dichloropropene	ND		0.00224	0.000571	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Diisopropyl ether	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
EDB	ND		0.00224	0.00112	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
EDC	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Ethylbenzene	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Ethyl tert-butyl ether	ND		0.00559	0.00112	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Hexachlorobutadiene	ND		0.00559	0.00128	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
2-Hexanone	ND		0.0559	0.0187	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Isopropylbenzene	ND		0.00224	0.000459	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
4-Isopropyltoluene	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
<b>Methylene Chloride</b>	<b>0.0300</b>		0.0112	0.000962	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
4-Methyl-2-pentanone (MIBK)	ND		0.0559	0.00213	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
<b>Methyl tert-butyl ether</b>	<b>0.00485</b>		0.00224	0.00107	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
m-Xylene & p-Xylene	ND		0.00448	0.000627	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Naphthalene	ND		0.00559	0.00190	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
n-Butylbenzene	ND		0.00224	0.00110	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
N-Propylbenzene	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
o-Xylene	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
sec-Butylbenzene	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB4 (18-20)-FD**

**Lab Sample ID: 490-150020-18**

**Date Collected: 04/11/18 15:29**

**Matrix: Solid**

**Date Received: 04/13/18 09:30**

**Percent Solids: 79.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00224	0.00123	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Tert-amyl methyl ether	ND		0.00224	0.000347	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
tert-Butyl alcohol (TBA)	ND		0.0559	0.0125	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
tert-Butylbenzene	ND		0.00224	0.00101	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,1,1,2-Tetrachloroethane	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,1,2,2-Tetrachloroethane	ND		0.00224	0.00112	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Tetrachloroethene	ND		0.00224	0.000817	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Toluene	ND		0.00224	0.000828	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
trans-1,2-Dichloroethene	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
trans-1,3-Dichloropropene	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,2,3-Trichlorobenzene	ND		0.00224	0.000425	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,2,4-Trichlorobenzene	ND		0.00224	0.000750	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,1,1-Trichloroethane	ND		0.00224	0.00103	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,1,2-Trichloroethane	ND		0.00559	0.00157	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Trichloroethene	ND		0.00224	0.00107	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Trichlorofluoromethane	ND		0.00224	0.00112	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,2,3-Trichloropropane	ND		0.00224	0.000615	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,2,4-Trimethylbenzene	ND		0.00224	0.00112	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
1,3,5-Trimethylbenzene	ND		0.00224	0.000839	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Vinyl chloride	ND		0.00224	0.00123	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Xylenes, Total	ND		0.00671	0.00138	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1
Gasoline Range Organics [C6 - C10]	ND		0.448	0.224	mg/Kg	☼	04/11/18 15:29	04/25/18 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	04/11/18 15:29	04/25/18 19:00	1
Dibromofluoromethane (Surr)	94		70 - 130	04/11/18 15:29	04/25/18 19:00	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130	04/11/18 15:29	04/25/18 19:00	1
Toluene-d8 (Surr)	105		70 - 130	04/11/18 15:29	04/25/18 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>8.87</b>	<b>J B</b>	21.0	7.43	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
<b>Oil Range Organics C21-C35</b>	<b>9.83</b>	<b>J B</b>	21.0	7.43	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Acenaphthene	ND		0.0843	0.0403	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Acenaphthylene	ND		0.0843	0.0365	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Anthracene	ND		0.0843	0.0365	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Benzo[a]anthracene	ND		0.0843	0.0378	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Benzo[a]pyrene	ND		0.0843	0.0340	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Benzo[b]fluoranthene	ND		0.0843	0.0352	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Benzo[g,h,i]perylene	ND		0.0843	0.0415	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Benzo[k]fluoranthene	ND		0.0843	0.0340	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Chrysene	ND		0.0843	0.0466	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Dibenz(a,h)anthracene	ND		0.0843	0.0403	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Fluoranthene	ND		0.0843	0.0428	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Fluorene	ND		0.0843	0.0365	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Indeno[1,2,3-cd]pyrene	ND		0.0843	0.0365	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Naphthalene	ND		0.0843	0.0365	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Phenanthrene	ND		0.0843	0.0428	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1
Pyrene	ND		0.0843	0.0428	mg/Kg	☼	04/14/18 13:01	04/20/18 16:16	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB4 (18-20)-FD**

**Lab Sample ID: 490-150020-18**

**Date Collected: 04/11/18 15:29**

**Matrix: Solid**

**Date Received: 04/13/18 09:30**

**Percent Solids: 79.1**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	71		29 - 120	04/14/18 13:01	04/20/18 16:16	1
Nitrobenzene-d5 (Surr)	69		27 - 120	04/14/18 13:01	04/20/18 16:16	1
Terphenyl-d14 (Surr)	82		13 - 120	04/14/18 13:01	04/20/18 16:16	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11.6		0.574	0.230	mg/Kg	☼	04/20/18 12:55	04/23/18 23:15	1
Barium	145		0.574	0.230	mg/Kg	☼	04/20/18 12:55	04/23/18 23:15	1
Cadmium	ND		0.574	0.230	mg/Kg	☼	04/20/18 12:55	04/23/18 23:15	1
Chromium	17.8		0.574	0.230	mg/Kg	☼	04/20/18 12:55	04/23/18 23:15	1
Lead	10.1		0.574	0.230	mg/Kg	☼	04/20/18 12:55	04/23/18 23:15	1
Selenium	ND		0.574	0.230	mg/Kg	☼	04/20/18 12:55	04/23/18 23:15	1
Silver	ND		0.574	0.115	mg/Kg	☼	04/20/18 12:55	04/24/18 22:53	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.9		0.1	0.1	%	—		04/15/18 11:26	1
Percent Solids	79.1		0.1	0.1	%	—		04/15/18 11:26	1

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB5 (13-15)**

**Date Collected: 04/11/18 16:20**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-19**

**Matrix: Solid**

**Percent Solids: 76.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0590	0.00990	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
<b>Benzene</b>	<b>0.00301</b>		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Bromobenzene	ND		0.00236	0.000849	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Bromoform	ND		0.00236	0.000648	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Bromomethane	ND		0.00236	0.00141	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
2-Butanone (MEK)	ND		0.0590	0.00601	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Carbon disulfide	ND		0.00590	0.00424	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Carbon tetrachloride	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Chlorobenzene	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Chlorobromomethane	ND		0.00236	0.000648	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Chlorodibromomethane	ND		0.00236	0.000401	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Chloroethane	ND		0.00590	0.00224	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Chloroform	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Chloromethane	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
2-Chlorotoluene	ND		0.00236	0.00105	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
4-Chlorotoluene	ND		0.00236	0.000990	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
cis-1,2-Dichloroethene	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
cis-1,3-Dichloropropene	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,2-Dibromo-3-Chloropropane	ND		0.00590	0.000825	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Dibromomethane	ND		0.00236	0.000660	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,2-Dichlorobenzene	ND		0.00236	0.000401	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,3-Dichlorobenzene	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,4-Dichlorobenzene	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Dichlorobromomethane	ND		0.00236	0.000648	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Dichlorodifluoromethane	ND		0.00236	0.00118	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,1-Dichloroethane	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,1-Dichloroethene	ND		0.00236	0.000672	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,2-Dichloropropane	ND		0.00236	0.00111	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,3-Dichloropropane	ND		0.00236	0.00111	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
2,2-Dichloropropane	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,1-Dichloropropene	ND		0.00236	0.000601	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Diisopropyl ether	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
EDB	ND		0.00236	0.00118	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
EDC	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Ethylbenzene	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Ethyl tert-butyl ether	ND		0.00590	0.00118	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Hexachlorobutadiene	ND		0.00590	0.00134	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
2-Hexanone	ND		0.0590	0.0197	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
<b>Isopropylbenzene</b>	<b>0.00855</b>		0.00236	0.000483	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
4-Isopropyltoluene	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
<b>Methylene Chloride</b>	<b>0.0139</b>		0.0118	0.00101	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
4-Methyl-2-pentanone (MIBK)	ND		0.0590	0.00224	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Methyl tert-butyl ether	ND		0.00236	0.00113	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
m-Xylene & p-Xylene	ND		0.00472	0.000660	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Naphthalene	ND		0.00590	0.00200	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
<b>n-Butylbenzene</b>	<b>0.0198</b>		0.00236	0.00116	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
<b>N-Propylbenzene</b>	<b>0.0298</b>		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
o-Xylene	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
<b>sec-Butylbenzene</b>	<b>0.00940</b>		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB5 (13-15)**

**Lab Sample ID: 490-150020-19**

**Date Collected: 04/11/18 16:20**

**Matrix: Solid**

**Date Received: 04/13/18 09:30**

**Percent Solids: 76.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00236	0.00130	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Tert-amyl methyl ether	ND		0.00236	0.000365	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
tert-Butyl alcohol (TBA)	ND		0.0590	0.0132	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
tert-Butylbenzene	ND		0.00236	0.00106	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,1,1,2-Tetrachloroethane	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,1,2,2-Tetrachloroethane	ND		0.00236	0.00118	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Tetrachloroethene	ND		0.00236	0.000861	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Toluene	ND		0.00236	0.000872	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
trans-1,2-Dichloroethene	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
trans-1,3-Dichloropropene	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,2,3-Trichlorobenzene	ND		0.00236	0.000448	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,2,4-Trichlorobenzene	ND		0.00236	0.000790	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,1,1-Trichloroethane	ND		0.00236	0.00108	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,1,2-Trichloroethane	ND		0.00590	0.00165	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Trichloroethene	ND		0.00236	0.00113	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Trichlorofluoromethane	ND		0.00236	0.00118	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,2,3-Trichloropropane	ND		0.00236	0.000648	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,2,4-Trimethylbenzene	ND		0.00236	0.00118	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
1,3,5-Trimethylbenzene	ND		0.00236	0.000884	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Vinyl chloride	ND		0.00236	0.00130	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
Xylenes, Total	ND		0.00707	0.00145	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1
<b>Gasoline Range Organics [C6 - C10]</b>	<b>1.86</b>		0.472	0.236	mg/Kg	☼	04/11/18 16:20	04/25/18 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	04/11/18 16:20	04/25/18 18:29	1
Dibromofluoromethane (Surr)	93		70 - 130	04/11/18 16:20	04/25/18 18:29	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130	04/11/18 16:20	04/25/18 18:29	1
Toluene-d8 (Surr)	106		70 - 130	04/11/18 16:20	04/25/18 18:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>9.40</b>	<b>J B</b>	21.7	7.67	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
<b>Oil Range Organics C21-C35</b>	<b>10.2</b>	<b>J B</b>	21.7	7.67	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Acenaphthene	ND		0.0871	0.0416	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Acenaphthylene	ND		0.0871	0.0377	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Anthracene	ND		0.0871	0.0377	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Benzo[a]anthracene	ND		0.0871	0.0390	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Benzo[a]pyrene	ND		0.0871	0.0351	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Benzo[b]fluoranthene	ND		0.0871	0.0364	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Benzo[g,h,i]perylene	ND		0.0871	0.0429	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Benzo[k]fluoranthene	ND		0.0871	0.0351	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Chrysene	ND		0.0871	0.0481	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Dibenz(a,h)anthracene	ND		0.0871	0.0416	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Fluoranthene	ND		0.0871	0.0442	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Fluorene	ND		0.0871	0.0377	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Indeno[1,2,3-cd]pyrene	ND		0.0871	0.0377	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Naphthalene	ND		0.0871	0.0377	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Phenanthrene	ND		0.0871	0.0442	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1
Pyrene	ND		0.0871	0.0442	mg/Kg	☼	04/14/18 13:01	04/20/18 16:37	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB5 (13-15)**

**Date Collected: 04/11/18 16:20**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-19**

**Matrix: Solid**

**Percent Solids: 76.2**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	70		29 - 120	04/14/18 13:01	04/20/18 16:37	1
Nitrobenzene-d5 (Surr)	67		27 - 120	04/14/18 13:01	04/20/18 16:37	1
Terphenyl-d14 (Surr)	78		13 - 120	04/14/18 13:01	04/20/18 16:37	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13.1		0.643	0.257	mg/Kg	☼	04/20/18 12:55	04/23/18 23:18	1
Barium	138		0.643	0.257	mg/Kg	☼	04/20/18 12:55	04/23/18 23:18	1
Cadmium	0.262	J	0.643	0.257	mg/Kg	☼	04/20/18 12:55	04/23/18 23:18	1
Chromium	23.4		0.643	0.257	mg/Kg	☼	04/20/18 12:55	04/23/18 23:18	1
Lead	13.9		0.643	0.257	mg/Kg	☼	04/20/18 12:55	04/23/18 23:18	1
Selenium	ND		0.643	0.257	mg/Kg	☼	04/20/18 12:55	04/23/18 23:18	1
Silver	ND		0.643	0.129	mg/Kg	☼	04/20/18 12:55	04/24/18 22:56	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23.8		0.1	0.1	%			04/15/18 11:26	1
Percent Solids	76.2		0.1	0.1	%			04/15/18 11:26	1

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB5 (16-18)**

**Date Collected: 04/11/18 16:34**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-20**

**Matrix: Solid**

**Percent Solids: 73.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		3.45	2.76	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Benzene	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Bromobenzene	ND		0.138	0.0497	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Bromoform	ND		0.138	0.0387	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Bromomethane	ND		0.138	0.0829	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
2-Butanone (MEK)	ND		3.45	0.359	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Carbon disulfide	ND		0.345	0.249	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Carbon tetrachloride	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Chlorobenzene	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Chlorobromomethane	ND		0.138	0.0387	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Chlorodibromomethane	ND		0.138	0.0235	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Chloroethane	ND		0.345	0.131	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Chloroform	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Chloromethane	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
2-Chlorotoluene	ND		0.138	0.0635	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
4-Chlorotoluene	ND		0.138	0.0580	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
cis-1,2-Dichloroethene	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
cis-1,3-Dichloropropene	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,2-Dibromo-3-Chloropropane	ND		0.345	0.0483	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Dibromomethane	ND		0.138	0.0387	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,2-Dichlorobenzene	ND		0.138	0.0235	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,3-Dichlorobenzene	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,4-Dichlorobenzene	ND		0.138	0.0649	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Dichlorobromomethane	ND		0.138	0.0387	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Dichlorodifluoromethane	ND		0.138	0.0691	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,1-Dichloroethane	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,1-Dichloroethene	ND		0.138	0.0401	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,2-Dichloropropane	ND		0.138	0.0649	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,3-Dichloropropane	ND		0.138	0.0649	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
2,2-Dichloropropane	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,1-Dichloropropene	ND		0.138	0.0359	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Diisopropyl ether	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
EDB	ND		0.138	0.0691	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
EDC	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Ethylbenzene	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Ethyl tert-butyl ether	ND		0.345	0.0691	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Hexachlorobutadiene	ND		0.345	0.0760	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
2-Hexanone	ND		3.45	1.16	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Isopropylbenzene	3.75		0.138	0.0290	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
4-Isopropyltoluene	0.583		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Methylene Chloride	0.196 J		0.691	0.0691	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
4-Methyl-2-pentanone (MIBK)	ND		3.45	1.17	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Methyl tert-butyl ether	ND		0.138	0.0691	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
m-Xylene & p-Xylene	ND		0.276	0.0387	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Naphthalene	1.42		0.345	0.117	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
n-Butylbenzene	21.6		0.138	0.0691	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
N-Propylbenzene	31.4		2.76	0.939	mg/Kg	☼	04/11/18 16:34	04/25/18 22:41	20
o-Xylene	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
sec-Butylbenzene	5.16		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB5 (16-18)**

**Lab Sample ID: 490-150020-20**

**Date Collected: 04/11/18 16:34**

**Matrix: Solid**

**Date Received: 04/13/18 09:30**

**Percent Solids: 73.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.138	0.0760	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Tert-amyl methyl ether	ND		0.138	0.0221	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
tert-Butyl alcohol (TBA)	ND		3.45	0.773	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
tert-Butylbenzene	ND		0.138	0.0691	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,1,1,2-Tetrachloroethane	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,1,2,2-Tetrachloroethane	ND		0.138	0.0691	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Tetrachloroethene	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Toluene	ND		0.138	0.0511	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
trans-1,2-Dichloroethene	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
trans-1,3-Dichloropropene	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,2,3-Trichlorobenzene	ND		0.138	0.0262	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,2,4-Trichlorobenzene	ND		0.138	0.0470	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,1,1-Trichloroethane	ND		0.138	0.0635	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,1,2-Trichloroethane	ND		0.345	0.0967	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Trichloroethene	ND		0.138	0.0691	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Trichlorofluoromethane	ND		0.138	0.0691	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,2,3-Trichloropropane	ND		0.138	0.0387	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,2,4-Trimethylbenzene	ND		0.138	0.0691	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
1,3,5-Trimethylbenzene	ND		0.138	0.0525	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Vinyl chloride	ND		0.138	0.0760	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
Xylenes, Total	ND		0.414	0.0856	mg/Kg	☼	04/11/18 16:34	04/25/18 22:13	1
<b>Gasoline Range Organics [C6 - C10]</b>	<b>1930</b>		<b>552</b>	<b>276</b>	<b>mg/Kg</b>	☼	04/11/18 16:34	04/25/18 19:57	<b>20</b>

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/11/18 16:34	04/25/18 19:57	20
4-Bromofluorobenzene (Surr)	110		70 - 130	04/11/18 16:34	04/25/18 22:41	20
Dibromofluoromethane (Surr)	98		70 - 130	04/11/18 16:34	04/25/18 19:57	20
Dibromofluoromethane (Surr)	98		70 - 130	04/11/18 16:34	04/25/18 22:13	1
Dibromofluoromethane (Surr)	102		70 - 130	04/11/18 16:34	04/25/18 22:41	20
1,2-Dichloroethane-d4 (Surr)	94		70 - 130	04/11/18 16:34	04/25/18 19:57	20
1,2-Dichloroethane-d4 (Surr)	96		70 - 130	04/11/18 16:34	04/25/18 22:41	20
Toluene-d8 (Surr)	97		70 - 130	04/11/18 16:34	04/25/18 19:57	20
Toluene-d8 (Surr)	101		70 - 130	04/11/18 16:34	04/25/18 22:13	1
Toluene-d8 (Surr)	100		70 - 130	04/11/18 16:34	04/25/18 22:41	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>67.9</b>	<b>B</b>	44.2	15.6	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
<b>Oil Range Organics C21-C35</b>	<b>19.8</b>	<b>J B</b>	44.2	15.6	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Acenaphthene	ND		0.177	0.0846	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Acenaphthylene	ND		0.177	0.0767	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Anthracene	ND		0.177	0.0767	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Benzo[a]anthracene	ND		0.177	0.0793	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Benzo[a]pyrene	ND		0.177	0.0714	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Benzo[b]fluoranthene	ND		0.177	0.0740	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Benzo[g,h,i]perylene	ND		0.177	0.0872	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Benzo[k]fluoranthene	ND		0.177	0.0714	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Chrysene	ND		0.177	0.0978	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Dibenz(a,h)anthracene	ND		0.177	0.0846	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB5 (16-18)**

**Lab Sample ID: 490-150020-20**

**Date Collected: 04/11/18 16:34**

**Matrix: Solid**

**Date Received: 04/13/18 09:30**

**Percent Solids: 73.7**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.177	0.0899	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Fluorene	ND		0.177	0.0767	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Indeno[1,2,3-cd]pyrene	ND		0.177	0.0767	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Naphthalene	ND		0.177	0.0767	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Phenanthrene	ND		0.177	0.0899	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2
Pyrene	ND		0.177	0.0899	mg/Kg	☼	04/14/18 13:01	04/20/18 16:59	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	70		29 - 120	04/14/18 13:01	04/20/18 16:59	2
Nitrobenzene-d5 (Surr)	68		27 - 120	04/14/18 13:01	04/20/18 16:59	2
Terphenyl-d14 (Surr)	77		13 - 120	04/14/18 13:01	04/20/18 16:59	2

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.51		0.606	0.242	mg/Kg	☼	04/26/18 11:25	04/26/18 17:11	1
Barium	139		0.606	0.242	mg/Kg	☼	04/26/18 11:25	04/26/18 17:11	1
Cadmium	ND		0.606	0.242	mg/Kg	☼	04/26/18 11:25	04/26/18 17:11	1
Chromium	21.1	F1	0.606	0.242	mg/Kg	☼	04/26/18 11:25	04/26/18 17:11	1
Lead	12.9		0.606	0.242	mg/Kg	☼	04/26/18 11:25	04/26/18 17:11	1
Selenium	ND	F2	0.606	0.242	mg/Kg	☼	04/26/18 11:25	04/26/18 17:11	1
Silver	ND		0.606	0.121	mg/Kg	☼	04/26/18 11:25	04/26/18 17:11	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.3		0.1	0.1	%	—		04/15/18 11:26	1
Percent Solids	73.7		0.1	0.1	%	—		04/15/18 11:26	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB6 (6-8)**

**Date Collected: 04/12/18 08:19**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-21**

**Matrix: Solid**

**Percent Solids: 79.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0561	0.00942	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>Benzene</b>	<b>0.00163</b>	<b>J</b>	0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Bromobenzene	ND		0.00224	0.000808	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Bromoform	ND		0.00224	0.000617	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Bromomethane	ND		0.00224	0.00135	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
2-Butanone (MEK)	ND		0.0561	0.00572	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>Carbon disulfide</b>	<b>0.0117</b>		0.00561	0.00404	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Carbon tetrachloride	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Chlorobenzene	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Chlorobromomethane	ND		0.00224	0.000617	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Chlorodibromomethane	ND		0.00224	0.000381	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Chloroethane	ND		0.00561	0.00213	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Chloroform	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Chloromethane	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
2-Chlorotoluene	ND		0.00224	0.000998	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
4-Chlorotoluene	ND		0.00224	0.000942	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
cis-1,2-Dichloroethene	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
cis-1,3-Dichloropropene	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,2-Dibromo-3-Chloropropane	ND		0.00561	0.000785	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Dibromomethane	ND		0.00224	0.000628	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,2-Dichlorobenzene	ND		0.00224	0.000381	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,3-Dichlorobenzene	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,4-Dichlorobenzene	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Dichlorobromomethane	ND		0.00224	0.000617	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Dichlorodifluoromethane	ND		0.00224	0.00112	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,1-Dichloroethane	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,1-Dichloroethene	ND		0.00224	0.000639	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,2-Dichloropropane	ND		0.00224	0.00105	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,3-Dichloropropane	ND		0.00224	0.00105	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
2,2-Dichloropropane	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,1-Dichloropropene	ND		0.00224	0.000572	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Diisopropyl ether	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
EDB	ND		0.00224	0.00112	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
EDC	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>Ethylbenzene</b>	<b>0.00146</b>	<b>J</b>	0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Ethyl tert-butyl ether	ND		0.00561	0.00112	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Hexachlorobutadiene	ND		0.00561	0.00128	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
2-Hexanone	ND		0.0561	0.0187	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>Isopropylbenzene</b>	<b>0.00695</b>		0.00224	0.000460	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>4-Isopropyltoluene</b>	<b>0.000835</b>	<b>J</b>	0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>Methylene Chloride</b>	<b>0.0257</b>		0.0112	0.000965	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
4-Methyl-2-pentanone (MIBK)	ND		0.0561	0.00213	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Methyl tert-butyl ether	ND		0.00224	0.00108	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.0117</b>		0.00449	0.000628	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Naphthalene	ND		0.00561	0.00191	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>n-Butylbenzene</b>	<b>0.00296</b>		0.00224	0.00110	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>N-Propylbenzene</b>	<b>0.0281</b>		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>o-Xylene</b>	<b>0.00192</b>	<b>J</b>	0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>sec-Butylbenzene</b>	<b>0.00492</b>		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB6 (6-8)**

**Date Collected: 04/12/18 08:19**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-21**

**Matrix: Solid**

**Percent Solids: 79.0**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00224	0.00123	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Tert-amyl methyl ether	ND		0.00224	0.000348	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
tert-Butyl alcohol (TBA)	ND		0.0561	0.0126	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
tert-Butylbenzene	ND		0.00224	0.00101	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,1,1,2-Tetrachloroethane	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,1,2,2-Tetrachloroethane	ND		0.00224	0.00112	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Tetrachloroethene	ND		0.00224	0.000819	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>Toluene</b>	<b>0.00306</b>		0.00224	0.000830	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
trans-1,2-Dichloroethene	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
trans-1,3-Dichloropropene	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,2,3-Trichlorobenzene	ND		0.00224	0.000426	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,2,4-Trichlorobenzene	ND		0.00224	0.000751	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,1,1-Trichloroethane	ND		0.00224	0.00103	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,1,2-Trichloroethane	ND		0.00561	0.00157	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Trichloroethene	ND		0.00224	0.00108	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Trichlorofluoromethane	ND		0.00224	0.00112	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
1,2,3-Trichloropropane	ND		0.00224	0.000617	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.00696</b>		0.00224	0.00112	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.00434</b>		0.00224	0.000841	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
Vinyl chloride	ND		0.00224	0.00123	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>Xylenes, Total</b>	<b>0.0136</b>		0.00673	0.00138	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1
<b>Gasoline Range Organics [C6 - C10]</b>	<b>14.4</b>		0.449	0.224	mg/Kg	☼	04/12/18 08:19	04/25/18 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	X	70 - 130	04/12/18 08:19	04/25/18 21:03	1
Dibromofluoromethane (Surr)	89		70 - 130	04/12/18 08:19	04/25/18 21:03	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130	04/12/18 08:19	04/25/18 21:03	1
Toluene-d8 (Surr)	127		70 - 130	04/12/18 08:19	04/25/18 21:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>9.11</b>	<b>J B</b>	21.0	7.41	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
<b>Oil Range Organics C21-C35</b>	<b>9.96</b>	<b>J B</b>	21.0	7.41	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Acenaphthene	ND		0.0842	0.0402	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Acenaphthylene	ND		0.0842	0.0364	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Anthracene	ND		0.0842	0.0364	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Benzo[a]anthracene	ND		0.0842	0.0377	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Benzo[a]pyrene	ND		0.0842	0.0339	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Benzo[b]fluoranthene	ND		0.0842	0.0352	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Benzo[g,h,i]perylene	ND		0.0842	0.0415	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Benzo[k]fluoranthene	ND		0.0842	0.0339	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Chrysene	ND		0.0842	0.0465	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Dibenz(a,h)anthracene	ND		0.0842	0.0402	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Fluoranthene	ND		0.0842	0.0427	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Fluorene	ND		0.0842	0.0364	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Indeno[1,2,3-cd]pyrene	ND		0.0842	0.0364	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Naphthalene	ND		0.0842	0.0364	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Phenanthrene	ND		0.0842	0.0427	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1
Pyrene	ND		0.0842	0.0427	mg/Kg	☼	04/14/18 13:01	04/20/18 17:21	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB6 (6-8)**

**Date Collected: 04/12/18 08:19**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-21**

**Matrix: Solid**

**Percent Solids: 79.0**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	71		29 - 120	04/14/18 13:01	04/20/18 17:21	1
Nitrobenzene-d5 (Surr)	71		27 - 120	04/14/18 13:01	04/20/18 17:21	1
Terphenyl-d14 (Surr)	84		13 - 120	04/14/18 13:01	04/20/18 17:21	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.87		0.597	0.239	mg/Kg	☼	04/26/18 11:25	04/26/18 17:27	1
Barium	123		0.597	0.239	mg/Kg	☼	04/26/18 11:25	04/26/18 17:27	1
Cadmium	0.467	J	0.597	0.239	mg/Kg	☼	04/26/18 11:25	04/26/18 17:27	1
Chromium	10.2		0.597	0.239	mg/Kg	☼	04/26/18 11:25	04/26/18 17:27	1
Lead	26.9		0.597	0.239	mg/Kg	☼	04/26/18 11:25	04/26/18 17:27	1
Selenium	0.253	J	0.597	0.239	mg/Kg	☼	04/26/18 11:25	04/26/18 17:27	1
Silver	ND		0.597	0.119	mg/Kg	☼	04/26/18 11:25	04/26/18 17:27	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.0		0.1	0.1	%	—		04/15/18 11:26	1
Percent Solids	79.0		0.1	0.1	%	—		04/15/18 11:26	1

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB6 (13-15)**

**Date Collected: 04/12/18 08:25**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-22**

**Matrix: Solid**

**Percent Solids: 79.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0204</b>	<b>J</b>	0.0467	0.00785	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Benzene	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Bromobenzene	ND		0.00187	0.000673	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Bromoform	ND		0.00187	0.000514	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Bromomethane	ND		0.00187	0.00112	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
2-Butanone (MEK)	ND		0.0467	0.00477	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Carbon disulfide	ND		0.00467	0.00336	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Carbon tetrachloride	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Chlorobenzene	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Chlorobromomethane	ND		0.00187	0.000514	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Chlorodibromomethane	ND		0.00187	0.000318	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Chloroethane	ND		0.00467	0.00178	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Chloroform	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Chloromethane	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
2-Chlorotoluene	ND		0.00187	0.000832	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
4-Chlorotoluene	ND		0.00187	0.000785	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
cis-1,2-Dichloroethene	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
cis-1,3-Dichloropropene	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,2-Dibromo-3-Chloropropane	ND		0.00467	0.000654	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Dibromomethane	ND		0.00187	0.000523	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,2-Dichlorobenzene	ND		0.00187	0.000318	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,3-Dichlorobenzene	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,4-Dichlorobenzene	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Dichlorobromomethane	ND		0.00187	0.000514	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Dichlorodifluoromethane	ND		0.00187	0.000935	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,1-Dichloroethane	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,1-Dichloroethene	ND		0.00187	0.000533	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,2-Dichloropropane	ND		0.00187	0.000879	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,3-Dichloropropane	ND		0.00187	0.000879	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
2,2-Dichloropropane	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,1-Dichloropropene	ND		0.00187	0.000477	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Diisopropyl ether	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
EDB	ND		0.00187	0.000935	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
EDC	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Ethylbenzene	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Ethyl tert-butyl ether	ND		0.00467	0.000935	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Hexachlorobutadiene	ND		0.00467	0.00107	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
2-Hexanone	ND		0.0467	0.0156	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Isopropylbenzene	ND		0.00187	0.000383	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
4-Isopropyltoluene	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
<b>Methylene Chloride</b>	<b>0.0121</b>		0.00935	0.000804	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
4-Methyl-2-pentanone (MIBK)	ND		0.0467	0.00178	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Methyl tert-butyl ether	ND		0.00187	0.000897	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
m-Xylene & p-Xylene	ND		0.00374	0.000523	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Naphthalene	ND		0.00467	0.00159	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
n-Butylbenzene	ND		0.00187	0.000916	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
N-Propylbenzene	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
o-Xylene	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
sec-Butylbenzene	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB6 (13-15)**

**Date Collected: 04/12/18 08:25**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-22**

**Matrix: Solid**

**Percent Solids: 79.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00187	0.00103	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Tert-amyl methyl ether	ND		0.00187	0.000290	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
tert-Butyl alcohol (TBA)	ND		0.0467	0.0105	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
tert-Butylbenzene	ND		0.00187	0.000841	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,1,1,2-Tetrachloroethane	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,1,2,2-Tetrachloroethane	ND		0.00187	0.000935	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Tetrachloroethene	ND		0.00187	0.000682	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Toluene	ND		0.00187	0.000692	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
trans-1,2-Dichloroethene	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
trans-1,3-Dichloropropene	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,2,3-Trichlorobenzene	ND		0.00187	0.000355	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,2,4-Trichlorobenzene	ND		0.00187	0.000626	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,1,1-Trichloroethane	ND		0.00187	0.000860	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,1,2-Trichloroethane	ND		0.00467	0.00131	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Trichloroethene	ND		0.00187	0.000897	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Trichlorofluoromethane	ND		0.00187	0.000935	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,2,3-Trichloropropane	ND		0.00187	0.000514	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,2,4-Trimethylbenzene	ND		0.00187	0.000935	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
1,3,5-Trimethylbenzene	ND		0.00187	0.000701	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Vinyl chloride	ND		0.00187	0.00103	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Xylenes, Total	ND		0.00561	0.00115	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1
Gasoline Range Organics [C6 - C10]	ND		0.374	0.187	mg/Kg	☼	04/12/18 08:25	04/25/18 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	04/12/18 08:25	04/25/18 21:34	1
Dibromofluoromethane (Surr)	94		70 - 130	04/12/18 08:25	04/25/18 21:34	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130	04/12/18 08:25	04/25/18 21:34	1
Toluene-d8 (Surr)	106		70 - 130	04/12/18 08:25	04/25/18 21:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>8.94</b>	<b>J B</b>	20.7	7.32	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
<b>Oil Range Organics C21-C35</b>	<b>9.61</b>	<b>J B</b>	20.7	7.32	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Acenaphthene	ND		0.0831	0.0397	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Acenaphthylene	ND		0.0831	0.0360	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Anthracene	ND		0.0831	0.0360	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Benzo[a]anthracene	ND		0.0831	0.0372	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Benzo[a]pyrene	ND		0.0831	0.0335	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Benzo[b]fluoranthene	ND		0.0831	0.0347	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Benzo[g,h,i]perylene	ND		0.0831	0.0410	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Benzo[k]fluoranthene	ND		0.0831	0.0335	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Chrysene	ND		0.0831	0.0459	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Dibenz(a,h)anthracene	ND		0.0831	0.0397	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Fluoranthene	ND		0.0831	0.0422	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Fluorene	ND		0.0831	0.0360	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Indeno[1,2,3-cd]pyrene	ND		0.0831	0.0360	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Naphthalene	ND		0.0831	0.0360	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Phenanthrene	ND		0.0831	0.0422	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1
Pyrene	ND		0.0831	0.0422	mg/Kg	☼	04/14/18 13:01	04/20/18 17:42	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB6 (13-15)**

**Date Collected: 04/12/18 08:25**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-22**

**Matrix: Solid**

**Percent Solids: 79.2**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68		29 - 120	04/14/18 13:01	04/20/18 17:42	1
Nitrobenzene-d5 (Surr)	66		27 - 120	04/14/18 13:01	04/20/18 17:42	1
Terphenyl-d14 (Surr)	81		13 - 120	04/14/18 13:01	04/20/18 17:42	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.07		0.544	0.218	mg/Kg	☼	04/26/18 11:25	04/26/18 17:30	1
Barium	111		0.544	0.218	mg/Kg	☼	04/26/18 11:25	04/26/18 17:30	1
Cadmium	ND		0.544	0.218	mg/Kg	☼	04/26/18 11:25	04/26/18 17:30	1
Chromium	15.7		0.544	0.218	mg/Kg	☼	04/26/18 11:25	04/26/18 17:30	1
Lead	8.85		0.544	0.218	mg/Kg	☼	04/26/18 11:25	04/26/18 17:30	1
Selenium	ND		0.544	0.218	mg/Kg	☼	04/26/18 11:25	04/26/18 17:30	1
Silver	ND		0.544	0.109	mg/Kg	☼	04/26/18 11:25	04/26/18 17:30	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20.8		0.1	0.1	%	—		04/15/18 11:26	1
Percent Solids	79.2		0.1	0.1	%	—		04/15/18 11:26	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB7 (11-13)**

**Date Collected: 04/12/18 09:19**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-23**

**Matrix: Solid**

**Percent Solids: 75.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0468	0.00786	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>Benzene</b>	<b>0.00351</b>		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Bromobenzene	ND		0.00187	0.000674	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Bromoform	ND		0.00187	0.000515	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Bromomethane	ND		0.00187	0.00112	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
2-Butanone (MEK)	ND		0.0468	0.00477	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Carbon disulfide	ND		0.00468	0.00337	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Carbon tetrachloride	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Chlorobenzene	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Chlorobromomethane	ND		0.00187	0.000515	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Chlorodibromomethane	ND		0.00187	0.000318	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Chloroethane	ND		0.00468	0.00178	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Chloroform	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Chloromethane	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
2-Chlorotoluene	ND		0.00187	0.000833	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
4-Chlorotoluene	ND		0.00187	0.000786	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
cis-1,2-Dichloroethene	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
cis-1,3-Dichloropropene	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,2-Dibromo-3-Chloropropane	ND		0.00468	0.000655	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Dibromomethane	ND		0.00187	0.000524	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,2-Dichlorobenzene	ND		0.00187	0.000318	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,3-Dichlorobenzene	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,4-Dichlorobenzene	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Dichlorobromomethane	ND		0.00187	0.000515	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Dichlorodifluoromethane	ND		0.00187	0.000936	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,1-Dichloroethane	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,1-Dichloroethene	ND		0.00187	0.000534	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,2-Dichloropropane	ND		0.00187	0.000880	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,3-Dichloropropane	ND		0.00187	0.000880	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
2,2-Dichloropropane	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,1-Dichloropropene	ND		0.00187	0.000477	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Diisopropyl ether	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
EDB	ND		0.00187	0.000936	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
EDC	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>Ethylbenzene</b>	<b>0.00189</b>		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Ethyl tert-butyl ether	ND		0.00468	0.000936	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Hexachlorobutadiene	ND		0.00468	0.00107	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
2-Hexanone	ND		0.0468	0.0156	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>Isopropylbenzene</b>	<b>0.00463</b>		0.00187	0.000384	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>4-Isopropyltoluene</b>	<b>0.00213</b>		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>Methylene Chloride</b>	<b>0.0124</b>		0.00936	0.000805	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
4-Methyl-2-pentanone (MIBK)	ND		0.0468	0.00178	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Methyl tert-butyl ether	ND		0.00187	0.000899	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.00301 J</b>		0.00374	0.000524	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Naphthalene	ND		0.00468	0.00159	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>n-Butylbenzene</b>	<b>0.0309</b>		0.00187	0.000917	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>N-Propylbenzene</b>	<b>0.0149</b>		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>o-Xylene</b>	<b>0.000862 J</b>		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>sec-Butylbenzene</b>	<b>0.0415</b>		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB7 (11-13)**

**Date Collected: 04/12/18 09:19**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-23**

**Matrix: Solid**

**Percent Solids: 75.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00187	0.00103	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Tert-amyl methyl ether	ND		0.00187	0.000290	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
tert-Butyl alcohol (TBA)	ND		0.0468	0.0105	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
tert-Butylbenzene	ND		0.00187	0.000843	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,1,1,2-Tetrachloroethane	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,1,2,2-Tetrachloroethane	ND		0.00187	0.000936	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Tetrachloroethene	ND		0.00187	0.000683	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>Toluene</b>	<b>0.00124</b>	<b>J</b>	0.00187	0.000693	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
trans-1,2-Dichloroethene	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
trans-1,3-Dichloropropene	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,2,3-Trichlorobenzene	ND		0.00187	0.000356	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,2,4-Trichlorobenzene	ND		0.00187	0.000627	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,1,1-Trichloroethane	ND		0.00187	0.000861	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,1,2-Trichloroethane	ND		0.00468	0.00131	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Trichloroethene	ND		0.00187	0.000899	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Trichlorofluoromethane	ND		0.00187	0.000936	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
1,2,3-Trichloropropane	ND		0.00187	0.000515	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.00565</b>		0.00187	0.000936	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.00121</b>	<b>J</b>	0.00187	0.000702	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
Vinyl chloride	ND		0.00187	0.00103	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>Xylenes, Total</b>	<b>0.00387</b>	<b>J</b>	0.00562	0.00115	mg/Kg	☼	04/12/18 09:19	04/25/18 22:05	1
<b>Gasoline Range Organics [C6 - C10]</b>	<b>26.5</b>	<b>J</b>	30.8	15.4	mg/Kg	☼	04/12/18 09:19	04/26/18 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	X	70 - 130	04/12/18 09:19	04/25/18 22:05	1
4-Bromofluorobenzene (Surr)	117		70 - 130	04/12/18 09:19	04/26/18 18:38	1
Dibromofluoromethane (Surr)	88		70 - 130	04/12/18 09:19	04/25/18 22:05	1
Dibromofluoromethane (Surr)	86		70 - 130	04/12/18 09:19	04/26/18 18:38	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130	04/12/18 09:19	04/25/18 22:05	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130	04/12/18 09:19	04/26/18 18:38	1
Toluene-d8 (Surr)	142	X	70 - 130	04/12/18 09:19	04/25/18 22:05	1
Toluene-d8 (Surr)	106		70 - 130	04/12/18 09:19	04/26/18 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>9.78</b>	<b>J B</b>	22.0	7.77	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
<b>Oil Range Organics C21-C35</b>	<b>10.3</b>	<b>J B</b>	22.0	7.77	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Acenaphthene	ND		0.0882	0.0421	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Acenaphthylene	ND		0.0882	0.0382	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Anthracene	ND		0.0882	0.0382	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Benzo[a]anthracene	ND		0.0882	0.0395	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Benzo[a]pyrene	ND		0.0882	0.0356	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Benzo[b]fluoranthene	ND		0.0882	0.0369	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Benzo[g,h,i]perylene	ND		0.0882	0.0435	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Benzo[k]fluoranthene	ND		0.0882	0.0356	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Chrysene	ND		0.0882	0.0487	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Dibenz(a,h)anthracene	ND		0.0882	0.0421	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Fluoranthene	ND		0.0882	0.0448	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Fluorene	ND		0.0882	0.0382	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB7 (11-13)**

**Date Collected: 04/12/18 09:19**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-23**

**Matrix: Solid**

**Percent Solids: 75.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		0.0882	0.0382	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Naphthalene	ND		0.0882	0.0382	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Phenanthrene	ND		0.0882	0.0448	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Pyrene	ND		0.0882	0.0448	mg/Kg	☼	04/14/18 13:01	04/20/18 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	71		29 - 120				04/14/18 13:01	04/20/18 18:04	1
Nitrobenzene-d5 (Surr)	69		27 - 120				04/14/18 13:01	04/20/18 18:04	1
Terphenyl-d14 (Surr)	80		13 - 120				04/14/18 13:01	04/20/18 18:04	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.30		0.626	0.250	mg/Kg	☼	04/26/18 11:25	04/26/18 17:39	1
Barium	109		0.626	0.250	mg/Kg	☼	04/26/18 11:25	04/26/18 17:39	1
Cadmium	ND		0.626	0.250	mg/Kg	☼	04/26/18 11:25	04/26/18 17:39	1
Chromium	13.5		0.626	0.250	mg/Kg	☼	04/26/18 11:25	04/26/18 17:39	1
Lead	8.11		0.626	0.250	mg/Kg	☼	04/26/18 11:25	04/26/18 17:39	1
Selenium	ND		0.626	0.250	mg/Kg	☼	04/26/18 11:25	04/26/18 17:39	1
Silver	ND		0.626	0.125	mg/Kg	☼	04/26/18 11:25	04/26/18 17:39	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.6		0.1	0.1	%	—		04/15/18 11:26	1
Percent Solids	75.4		0.1	0.1	%	—		04/15/18 11:26	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB7 (18-20)**

**Date Collected: 04/12/18 09:36**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-24**

**Matrix: Solid**

**Percent Solids: 81.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0111</b>	<b>J</b>	0.0493	0.00829	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Benzene	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Bromobenzene	ND		0.00197	0.000710	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Bromoform	ND		0.00197	0.000543	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Bromomethane	ND		0.00197	0.00118	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
2-Butanone (MEK)	ND		0.0493	0.00503	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Carbon disulfide	ND		0.00493	0.00355	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Carbon tetrachloride	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Chlorobenzene	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Chlorobromomethane	ND		0.00197	0.000543	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Chlorodibromomethane	ND		0.00197	0.000335	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Chloroethane	ND		0.00493	0.00187	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Chloroform	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Chloromethane	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
2-Chlorotoluene	ND		0.00197	0.000878	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
4-Chlorotoluene	ND		0.00197	0.000829	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
cis-1,2-Dichloroethene	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
cis-1,3-Dichloropropene	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,2-Dibromo-3-Chloropropane	ND		0.00493	0.000690	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Dibromomethane	ND		0.00197	0.000552	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,2-Dichlorobenzene	ND		0.00197	0.000335	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,3-Dichlorobenzene	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,4-Dichlorobenzene	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Dichlorobromomethane	ND		0.00197	0.000543	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Dichlorodifluoromethane	ND		0.00197	0.000986	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,1-Dichloroethane	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,1-Dichloroethene	ND		0.00197	0.000562	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,2-Dichloropropane	ND		0.00197	0.000927	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,3-Dichloropropane	ND		0.00197	0.000927	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
2,2-Dichloropropane	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,1-Dichloropropene	ND		0.00197	0.000503	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Diisopropyl ether	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
EDB	ND		0.00197	0.000986	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
EDC	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Ethylbenzene	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Ethyl tert-butyl ether	ND		0.00493	0.000986	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Hexachlorobutadiene	ND		0.00493	0.00112	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
2-Hexanone	ND		0.0493	0.0165	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Isopropylbenzene	ND		0.00197	0.000404	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
4-Isopropyltoluene	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
<b>Methylene Chloride</b>	<b>0.0124</b>		0.00986	0.000848	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
4-Methyl-2-pentanone (MIBK)	ND		0.0493	0.00187	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
<b>Methyl tert-butyl ether</b>	<b>0.00156</b>	<b>J</b>	0.00197	0.000947	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
m-Xylene & p-Xylene	ND		0.00395	0.000552	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Naphthalene	ND		0.00493	0.00168	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
n-Butylbenzene	ND		0.00197	0.000967	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
N-Propylbenzene	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
o-Xylene	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
sec-Butylbenzene	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB7 (18-20)**

**Lab Sample ID: 490-150020-24**

**Date Collected: 04/12/18 09:36**

**Matrix: Solid**

**Date Received: 04/13/18 09:30**

**Percent Solids: 81.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00197	0.00109	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Tert-amyl methyl ether	ND		0.00197	0.000306	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
tert-Butyl alcohol (TBA)	ND		0.0493	0.0110	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
tert-Butylbenzene	ND		0.00197	0.000888	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,1,1,2-Tetrachloroethane	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,1,2,2-Tetrachloroethane	ND		0.00197	0.000986	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Tetrachloroethene	ND		0.00197	0.000720	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Toluene	ND		0.00197	0.000730	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
trans-1,2-Dichloroethene	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
trans-1,3-Dichloropropene	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,2,3-Trichlorobenzene	ND		0.00197	0.000375	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,2,4-Trichlorobenzene	ND		0.00197	0.000661	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,1,1-Trichloroethane	ND		0.00197	0.000908	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,1,2-Trichloroethane	ND		0.00493	0.00138	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Trichloroethene	ND		0.00197	0.000947	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Trichlorofluoromethane	ND		0.00197	0.000986	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,2,3-Trichloropropane	ND		0.00197	0.000543	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,2,4-Trimethylbenzene	ND		0.00197	0.000986	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
1,3,5-Trimethylbenzene	ND		0.00197	0.000740	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Vinyl chloride	ND		0.00197	0.00109	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Xylenes, Total	ND		0.00592	0.00121	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1
Gasoline Range Organics [C6 - C10]	ND		0.395	0.197	mg/Kg	☼	04/12/18 09:36	04/25/18 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	04/12/18 09:36	04/25/18 22:35	1
Dibromofluoromethane (Surr)	92		70 - 130	04/12/18 09:36	04/25/18 22:35	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130	04/12/18 09:36	04/25/18 22:35	1
Toluene-d8 (Surr)	104		70 - 130	04/12/18 09:36	04/25/18 22:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>7.75</b>	<b>J B</b>	20.1	7.09	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
<b>Oil Range Organics C21-C35</b>	<b>7.17</b>	<b>J B</b>	20.1	7.09	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Acenaphthene	ND		0.0805	0.0385	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Acenaphthylene	ND		0.0805	0.0349	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Anthracene	ND		0.0805	0.0349	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Benzo[a]anthracene	ND		0.0805	0.0361	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Benzo[a]pyrene	ND		0.0805	0.0325	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Benzo[b]fluoranthene	ND		0.0805	0.0337	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Benzo[g,h,i]perylene	ND		0.0805	0.0397	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Benzo[k]fluoranthene	ND		0.0805	0.0325	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Chrysene	ND		0.0805	0.0445	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Dibenz(a,h)anthracene	ND		0.0805	0.0385	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Fluoranthene	ND		0.0805	0.0409	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Fluorene	ND		0.0805	0.0349	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Indeno[1,2,3-cd]pyrene	ND		0.0805	0.0349	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Naphthalene	ND		0.0805	0.0349	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Phenanthrene	ND		0.0805	0.0409	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1
Pyrene	ND		0.0805	0.0409	mg/Kg	☼	04/14/18 13:01	04/20/18 18:26	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB7 (18-20)**

**Date Collected: 04/12/18 09:36**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-24**

**Matrix: Solid**

**Percent Solids: 81.1**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	51		29 - 120	04/14/18 13:01	04/20/18 18:26	1
Nitrobenzene-d5 (Surr)	50		27 - 120	04/14/18 13:01	04/20/18 18:26	1
Terphenyl-d14 (Surr)	59		13 - 120	04/14/18 13:01	04/20/18 18:26	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.65		0.541	0.216	mg/Kg	☼	04/26/18 11:25	04/26/18 17:42	1
Barium	69.4		0.541	0.216	mg/Kg	☼	04/26/18 11:25	04/26/18 17:42	1
Cadmium	ND		0.541	0.216	mg/Kg	☼	04/26/18 11:25	04/26/18 17:42	1
Chromium	15.9		0.541	0.216	mg/Kg	☼	04/26/18 11:25	04/26/18 17:42	1
Lead	10.3		0.541	0.216	mg/Kg	☼	04/26/18 11:25	04/26/18 17:42	1
Selenium	ND		0.541	0.216	mg/Kg	☼	04/26/18 11:25	04/26/18 17:42	1
Silver	ND		0.541	0.108	mg/Kg	☼	04/26/18 11:25	04/26/18 17:42	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.9		0.1	0.1	%	—		04/15/18 11:26	1
Percent Solids	81.1		0.1	0.1	%	—		04/15/18 11:26	1

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB8 (11-13)**

**Date Collected: 04/12/18 10:28**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-25**

**Matrix: Solid**

**Percent Solids: 74.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.123</b>		0.0559	0.00940	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Benzene	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Bromobenzene	ND		0.00224	0.000805	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Bromoform	ND		0.00224	0.000615	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Bromomethane	ND		0.00224	0.00134	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
<b>2-Butanone (MEK)</b>	<b>0.0203</b>	<b>J</b>	0.0559	0.00571	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Carbon disulfide	ND		0.00559	0.00403	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Carbon tetrachloride	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Chlorobenzene	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Chlorobromomethane	ND		0.00224	0.000615	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Chlorodibromomethane	ND		0.00224	0.000380	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Chloroethane	ND		0.00559	0.00213	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Chloroform	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Chloromethane	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
2-Chlorotoluene	ND		0.00224	0.000996	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
4-Chlorotoluene	ND		0.00224	0.000940	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
cis-1,2-Dichloroethene	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
cis-1,3-Dichloropropene	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,2-Dibromo-3-Chloropropane	ND		0.00559	0.000783	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Dibromomethane	ND		0.00224	0.000626	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,2-Dichlorobenzene	ND		0.00224	0.000380	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,3-Dichlorobenzene	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,4-Dichlorobenzene	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Dichlorobromomethane	ND		0.00224	0.000615	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Dichlorodifluoromethane	ND		0.00224	0.00112	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,1-Dichloroethane	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,1-Dichloroethene	ND		0.00224	0.000638	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,2-Dichloropropane	ND		0.00224	0.00105	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,3-Dichloropropane	ND		0.00224	0.00105	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
2,2-Dichloropropane	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,1-Dichloropropene	ND		0.00224	0.000571	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Diisopropyl ether	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
EDB	ND		0.00224	0.00112	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
EDC	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Ethylbenzene	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Ethyl tert-butyl ether	ND		0.00559	0.00112	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Hexachlorobutadiene	ND		0.00559	0.00128	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
2-Hexanone	ND		0.0559	0.0187	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Isopropylbenzene	ND		0.00224	0.000459	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
4-Isopropyltoluene	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
<b>Methylene Chloride</b>	<b>0.0187</b>		0.0112	0.000962	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
4-Methyl-2-pentanone (MIBK)	ND		0.0559	0.00213	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Methyl tert-butyl ether	ND		0.00224	0.00107	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
m-Xylene & p-Xylene	ND		0.00447	0.000626	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Naphthalene	ND		0.00559	0.00190	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
n-Butylbenzene	ND		0.00224	0.00110	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
N-Propylbenzene	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
o-Xylene	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
sec-Butylbenzene	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB8 (11-13)**

**Date Collected: 04/12/18 10:28**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-25**

**Matrix: Solid**

**Percent Solids: 74.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00224	0.00123	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Tert-amyl methyl ether	ND		0.00224	0.000347	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
tert-Butyl alcohol (TBA)	ND		0.0559	0.0125	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
tert-Butylbenzene	ND		0.00224	0.00101	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,1,1,2-Tetrachloroethane	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,1,2,2-Tetrachloroethane	ND		0.00224	0.00112	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Tetrachloroethene	ND		0.00224	0.000817	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
<b>Toluene</b>	<b>0.00109</b>	<b>J</b>	0.00224	0.000828	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
trans-1,2-Dichloroethene	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
trans-1,3-Dichloropropene	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,2,3-Trichlorobenzene	ND		0.00224	0.000425	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,2,4-Trichlorobenzene	ND		0.00224	0.000750	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,1,1-Trichloroethane	ND		0.00224	0.00103	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,1,2-Trichloroethane	ND		0.00559	0.00157	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Trichloroethene	ND		0.00224	0.00107	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Trichlorofluoromethane	ND		0.00224	0.00112	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,2,3-Trichloropropane	ND		0.00224	0.000615	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,2,4-Trimethylbenzene	ND		0.00224	0.00112	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
1,3,5-Trimethylbenzene	ND		0.00224	0.000839	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Vinyl chloride	ND		0.00224	0.00123	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Xylenes, Total	ND		0.00671	0.00138	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1
Gasoline Range Organics [C6 - C10]	ND		0.447	0.224	mg/Kg	☼	04/12/18 10:28	04/25/18 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	04/12/18 10:28	04/25/18 23:06	1
Dibromofluoromethane (Surr)	94		70 - 130	04/12/18 10:28	04/25/18 23:06	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130	04/12/18 10:28	04/25/18 23:06	1
Toluene-d8 (Surr)	108		70 - 130	04/12/18 10:28	04/25/18 23:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>9.50</b>	<b>J B</b>	22.4	7.90	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
<b>Oil Range Organics C21-C35</b>	<b>10.0</b>	<b>J B</b>	22.4	7.90	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Acenaphthene	ND		0.0898	0.0429	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Acenaphthylene	ND		0.0898	0.0389	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Anthracene	ND		0.0898	0.0389	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Benzo[a]anthracene	ND		0.0898	0.0402	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Benzo[a]pyrene	ND		0.0898	0.0362	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Benzo[b]fluoranthene	ND		0.0898	0.0375	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Benzo[g,h,i]perylene	ND		0.0898	0.0442	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Benzo[k]fluoranthene	ND		0.0898	0.0362	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Chrysene	ND		0.0898	0.0496	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Dibenz(a,h)anthracene	ND		0.0898	0.0429	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
<b>Fluoranthene</b>	<b>0.0566</b>	<b>J</b>	0.0898	0.0456	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Fluorene	ND		0.0898	0.0389	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Indeno[1,2,3-cd]pyrene	ND		0.0898	0.0389	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Naphthalene	ND		0.0898	0.0389	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Phenanthrene	ND		0.0898	0.0456	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1
Pyrene	ND		0.0898	0.0456	mg/Kg	☼	04/14/18 13:01	04/20/18 18:47	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB8 (11-13)**

**Date Collected: 04/12/18 10:28**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-25**

**Matrix: Solid**

**Percent Solids: 74.1**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	67		29 - 120	04/14/18 13:01	04/20/18 18:47	1
Nitrobenzene-d5 (Surr)	62		27 - 120	04/14/18 13:01	04/20/18 18:47	1
Terphenyl-d14 (Surr)	81		13 - 120	04/14/18 13:01	04/20/18 18:47	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.74		0.625	0.250	mg/Kg	☼	04/26/18 11:25	04/26/18 17:45	1
Barium	223		0.625	0.250	mg/Kg	☼	04/26/18 11:25	04/26/18 17:45	1
Cadmium	ND		0.625	0.250	mg/Kg	☼	04/26/18 11:25	04/26/18 17:45	1
Chromium	21.5		0.625	0.250	mg/Kg	☼	04/26/18 11:25	04/26/18 17:45	1
Lead	13.5		0.625	0.250	mg/Kg	☼	04/26/18 11:25	04/26/18 17:45	1
Selenium	ND		0.625	0.250	mg/Kg	☼	04/26/18 11:25	04/26/18 17:45	1
Silver	ND		0.625	0.125	mg/Kg	☼	04/26/18 11:25	04/26/18 17:45	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	25.9		0.1	0.1	%	—		04/15/18 11:26	1
Percent Solids	74.1		0.1	0.1	%	—		04/15/18 11:26	1



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB8 (21-23)**

**Date Collected: 04/12/18 10:35**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-26**

**Matrix: Solid**

**Percent Solids: 78.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>0.0718</b>		0.0494	0.00830	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Benzene	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Bromobenzene	ND		0.00198	0.000711	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Bromoform	ND		0.00198	0.000543	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Bromomethane	ND		0.00198	0.00119	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
<b>2-Butanone (MEK)</b>	<b>0.0141</b>	<b>J</b>	0.0494	0.00504	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Carbon disulfide	ND		0.00494	0.00356	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Carbon tetrachloride	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Chlorobenzene	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Chlorobromomethane	ND		0.00198	0.000543	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Chlorodibromomethane	ND		0.00198	0.000336	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Chloroethane	ND		0.00494	0.00188	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Chloroform	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Chloromethane	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
2-Chlorotoluene	ND		0.00198	0.000879	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
4-Chlorotoluene	ND		0.00198	0.000830	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
cis-1,2-Dichloroethene	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
cis-1,3-Dichloropropene	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,2-Dibromo-3-Chloropropane	ND		0.00494	0.000691	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Dibromomethane	ND		0.00198	0.000553	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,2-Dichlorobenzene	ND		0.00198	0.000336	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,3-Dichlorobenzene	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,4-Dichlorobenzene	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Dichlorobromomethane	ND		0.00198	0.000543	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Dichlorodifluoromethane	ND		0.00198	0.000988	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,1-Dichloroethane	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,1-Dichloroethene	ND		0.00198	0.000563	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,2-Dichloropropane	ND		0.00198	0.000929	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,3-Dichloropropane	ND		0.00198	0.000929	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
2,2-Dichloropropane	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,1-Dichloropropene	ND		0.00198	0.000504	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Diisopropyl ether	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
EDB	ND		0.00198	0.000988	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
EDC	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Ethylbenzene	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Ethyl tert-butyl ether	ND		0.00494	0.000988	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Hexachlorobutadiene	ND		0.00494	0.00113	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
2-Hexanone	ND		0.0494	0.0165	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Isopropylbenzene	ND		0.00198	0.000405	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
4-Isopropyltoluene	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
<b>Methylene Chloride</b>	<b>0.0132</b>		0.00988	0.000850	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
4-Methyl-2-pentanone (MIBK)	ND		0.0494	0.00188	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Methyl tert-butyl ether	ND		0.00198	0.000948	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
m-Xylene & p-Xylene	ND		0.00395	0.000553	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Naphthalene	ND		0.00494	0.00168	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
n-Butylbenzene	ND		0.00198	0.000968	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
N-Propylbenzene	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
o-Xylene	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
sec-Butylbenzene	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1

TestAmerica Nashville



# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB8 (21-23)**

**Date Collected: 04/12/18 10:35**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-26**

**Matrix: Solid**

**Percent Solids: 78.4**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.00198	0.00109	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Tert-amyl methyl ether	ND		0.00198	0.000306	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
tert-Butyl alcohol (TBA)	ND		0.0494	0.0111	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
tert-Butylbenzene	ND		0.00198	0.000889	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,1,1,2-Tetrachloroethane	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,1,2,2-Tetrachloroethane	ND		0.00198	0.000988	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Tetrachloroethene	ND		0.00198	0.000721	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
<b>Toluene</b>	<b>0.00123</b>	<b>J</b>	0.00198	0.000731	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
trans-1,2-Dichloroethene	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
trans-1,3-Dichloropropene	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,2,3-Trichlorobenzene	ND		0.00198	0.000375	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,2,4-Trichlorobenzene	ND		0.00198	0.000662	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,1,1-Trichloroethane	ND		0.00198	0.000909	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,1,2-Trichloroethane	ND		0.00494	0.00138	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Trichloroethene	ND		0.00198	0.000948	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Trichlorofluoromethane	ND		0.00198	0.000988	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,2,3-Trichloropropane	ND		0.00198	0.000543	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,2,4-Trimethylbenzene	ND		0.00198	0.000988	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
1,3,5-Trimethylbenzene	ND		0.00198	0.000741	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Vinyl chloride	ND		0.00198	0.00109	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Xylenes, Total	ND		0.00593	0.00122	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1
Gasoline Range Organics [C6 - C10]	ND		0.395	0.198	mg/Kg	☼	04/12/18 10:35	04/25/18 23:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	04/12/18 10:35	04/25/18 23:37	1
Dibromofluoromethane (Surr)	93		70 - 130	04/12/18 10:35	04/25/18 23:37	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130	04/12/18 10:35	04/25/18 23:37	1
Toluene-d8 (Surr)	107		70 - 130	04/12/18 10:35	04/25/18 23:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics C10-C21</b>	<b>8.68</b>	<b>J B</b>	20.7	7.31	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
<b>Oil Range Organics C21-C35</b>	<b>9.58</b>	<b>J B</b>	20.7	7.31	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Acenaphthene	ND		0.0830	0.0396	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Acenaphthylene	ND		0.0830	0.0359	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Anthracene	ND		0.0830	0.0359	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Benzo[a]anthracene	ND		0.0830	0.0372	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Benzo[a]pyrene	ND		0.0830	0.0334	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Benzo[b]fluoranthene	ND		0.0830	0.0347	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Benzo[g,h,i]perylene	ND		0.0830	0.0409	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Benzo[k]fluoranthene	ND		0.0830	0.0334	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Chrysene	ND		0.0830	0.0458	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Dibenz(a,h)anthracene	ND		0.0830	0.0396	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Fluoranthene	ND		0.0830	0.0421	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Fluorene	ND		0.0830	0.0359	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Indeno[1,2,3-cd]pyrene	ND		0.0830	0.0359	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Naphthalene	ND		0.0830	0.0359	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Phenanthrene	ND		0.0830	0.0421	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1
Pyrene	ND		0.0830	0.0421	mg/Kg	☼	04/14/18 13:01	04/20/18 19:09	1

TestAmerica Nashville

# Client Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB8 (21-23)**

**Date Collected: 04/12/18 10:35**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-26**

**Matrix: Solid**

**Percent Solids: 78.4**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		29 - 120	04/14/18 13:01	04/20/18 19:09	1
Nitrobenzene-d5 (Surr)	63		27 - 120	04/14/18 13:01	04/20/18 19:09	1
Terphenyl-d14 (Surr)	77		13 - 120	04/14/18 13:01	04/20/18 19:09	1

## Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.56		0.591	0.236	mg/Kg	☼	04/26/18 11:25	04/26/18 17:48	1
Barium	74.5		0.591	0.236	mg/Kg	☼	04/26/18 11:25	04/26/18 17:48	1
Cadmium	ND		0.591	0.236	mg/Kg	☼	04/26/18 11:25	04/26/18 17:48	1
Chromium	11.6		0.591	0.236	mg/Kg	☼	04/26/18 11:25	04/26/18 17:48	1
Lead	7.11		0.591	0.236	mg/Kg	☼	04/26/18 11:25	04/26/18 17:48	1
Selenium	ND		0.591	0.236	mg/Kg	☼	04/26/18 11:25	04/26/18 17:48	1
Silver	ND		0.591	0.118	mg/Kg	☼	04/26/18 11:25	04/26/18 17:48	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.6		0.1	0.1	%	—		04/15/18 11:26	1
Percent Solids	78.4		0.1	0.1	%	—		04/15/18 11:26	1

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: 720-85992-B-1-E MS

Matrix: Solid

Analysis Batch: 510282

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 510090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Acetone	0.650	F1	0.244	0.2509		mg/Kg		-164	10 - 150
Benzene	0.0203	F2 F1	0.0487	0.01910		mg/Kg		-2	21 - 150
Bromobenzene	ND	F2 *	0.0487	0.006923	*	mg/Kg		14	10 - 150
Bromoform	ND		0.0487	0.004860		mg/Kg		10	10 - 150
Bromomethane	ND		0.0487	0.02256		mg/Kg		46	10 - 150
2-Butanone (MEK)	0.0781	F1	0.244	0.09330		mg/Kg		6	10 - 150
Carbon disulfide	0.00682	F2	0.0487	0.01222		mg/Kg		11	10 - 150
Carbon tetrachloride	ND	F2	0.0487	0.01463		mg/Kg		30	10 - 150
Chlorobenzene	0.00226	F2 F1	0.0487	0.005864		mg/Kg		7	10 - 150
Chlorobromomethane	ND	F2	0.0487	0.008591		mg/Kg		18	10 - 150
Chlorodibromomethane	ND		0.0487	0.006847		mg/Kg		14	10 - 150
Chloroethane	ND		0.0487	0.02504		mg/Kg		51	10 - 150
Chloroform	ND	F2	0.0487	0.008937		mg/Kg		18	10 - 150
Chloromethane	ND		0.0487	0.03517		mg/Kg		72	10 - 150
2-Chlorotoluene	ND	F2 *	0.0487	0.02306	*	mg/Kg		47	10 - 150
4-Chlorotoluene	ND	F2 *	0.0487	0.01186	*	mg/Kg		24	10 - 150
cis-1,2-Dichloroethene	ND	F2	0.0487	0.006636		mg/Kg		14	10 - 150
cis-1,3-Dichloropropene	ND	F2	0.0487	0.005655		mg/Kg		12	10 - 150
1,2-Dibromo-3-Chloropropane	ND	*	0.0487	0.006963	*	mg/Kg		14	10 - 150
Dibromomethane	ND	F2	0.0487	0.005728		mg/Kg		12	10 - 150
1,2-Dichlorobenzene	ND	*	0.0487	0.004865	*	mg/Kg		10	10 - 150
1,3-Dichlorobenzene	ND	F2 *	0.0487	0.004712	*	mg/Kg		10	10 - 150
1,4-Dichlorobenzene	ND	F1 *	0.0487	0.004371	*	mg/Kg		9	10 - 150
Dichlorobromomethane	ND	F2	0.0487	0.005950		mg/Kg		12	10 - 150
Dichlorodifluoromethane	ND		0.0487	0.04513		mg/Kg		93	10 - 150
1,1-Dichloroethane	ND	F2	0.0487	0.01244		mg/Kg		26	10 - 150
1,1-Dichloroethene	ND	F2	0.0487	0.01586		mg/Kg		33	10 - 150
1,2-Dichloropropane	ND	F2	0.0487	0.007465		mg/Kg		15	10 - 150
1,3-Dichloropropane	ND		0.0487	0.007539		mg/Kg		15	10 - 150
2,2-Dichloropropane	ND	F2	0.0487	0.02067		mg/Kg		42	10 - 150
1,1-Dichloropropene	ND	F2	0.0487	0.006359		mg/Kg		13	10 - 150
Diisopropyl ether	ND		0.0487	0.01726		mg/Kg		35	27 - 144
EDB	ND		0.0487	0.006092		mg/Kg		13	10 - 150
EDC	ND	F2 F1	0.0487	0.007408		mg/Kg		15	24 - 138
Ethylbenzene	0.0389	F2 F1	0.0487	0.03216		mg/Kg		-14	10 - 150
Ethyl tert-butyl ether	ND		0.0487	0.02211		mg/Kg		45	10 - 150
Hexachlorobutadiene	ND	F2 *	0.0487	0.01044	*	mg/Kg		21	10 - 150
2-Hexanone	ND		0.244	0.04409	J	mg/Kg		18	10 - 150
Isopropylbenzene	0.00648	F2	0.0487	0.01130		mg/Kg		10	10 - 150
4-Isopropyltoluene	0.0146	F2 *	0.0487	0.02534	*	mg/Kg		22	10 - 150
Methylene Chloride	0.0122	F1	0.0487	0.01691		mg/Kg		10	24 - 150
4-Methyl-2-pentanone (MIBK)	0.0108	J	0.244	0.07032		mg/Kg		24	10 - 150
Methyl tert-butyl ether	ND		0.0487	0.02188		mg/Kg		45	10 - 150
m-Xylene & p-Xylene	0.120	F2 F1 B	0.0487	0.08995		mg/Kg		-62	10 - 150
Naphthalene	0.00923	F2 F1 *	0.0487	0.003950	J *	mg/Kg		-11	10 - 150
n-Butylbenzene	0.0131	F2 *	0.0487	0.01925	*	mg/Kg		13	10 - 150
N-Propylbenzene	0.0207	F2 *	0.0487	0.02703	*	mg/Kg		13	10 - 150
o-Xylene	0.0597	F2 F1	0.0487	0.05065		mg/Kg		-19	10 - 150

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: 720-85992-B-1-E MS

Matrix: Solid

Analysis Batch: 510282

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 510090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	0.00868	F2 *	0.0487	0.02097	*	mg/Kg		25	10 - 150
Styrene	0.0323	F2 F1	0.0487	0.008761		mg/Kg		-48	10 - 150
Tert-amyl methyl ether	ND		0.0487	0.01767		mg/Kg		36	10 - 150
tert-Butyl alcohol (TBA)	ND		0.487	0.3428		mg/Kg		70	10 - 150
tert-Butylbenzene	ND	F2 *	0.0487	0.01616	*	mg/Kg		33	10 - 150
1,1,1,2-Tetrachloroethane	ND	F2	0.0487	0.008244		mg/Kg		17	10 - 150
1,1,2,2-Tetrachloroethane	ND	*	0.0487	0.01824	*	mg/Kg		37	10 - 150
Tetrachloroethene	ND	F2	0.0487	0.007046		mg/Kg		14	10 - 150
Toluene	0.106	F2 F1	0.0487	0.07626		mg/Kg		-61	17 - 150
trans-1,2-Dichloroethene	ND	F2	0.0487	0.007027		mg/Kg		14	10 - 150
trans-1,3-Dichloropropene	ND	F2	0.0487	0.004775		mg/Kg		10	10 - 150
1,2,3-Trichlorobenzene	ND	F1 *	0.0487	0.001170	J *	mg/Kg		2	10 - 150
1,2,4-Trichlorobenzene	ND	F1 *	0.0487	0.002801	*	mg/Kg		6	10 - 150
1,1,1-Trichloroethane	ND	F2	0.0487	0.01603		mg/Kg		33	10 - 150
1,1,2-Trichloroethane	ND		0.0487	0.01971		mg/Kg		40	10 - 150
Trichloroethene	0.00468	F2	0.0487	0.01008		mg/Kg		11	10 - 150
Trichlorofluoromethane	ND		0.0487	0.03301		mg/Kg		68	10 - 150
1,2,3-Trichloropropane	ND	F1 *	0.0487	0.08083	*	mg/Kg		166	10 - 150
1,2,4-Trimethylbenzene	0.104	F1 *	0.0487	0.09710	*	mg/Kg		-14	10 - 150
1,3,5-Trimethylbenzene	0.0382	*	0.0487	0.04710	*	mg/Kg		18	10 - 150
Vinyl chloride	ND		0.0487	0.03031		mg/Kg		62	10 - 150
Xylenes, Total	0.109	F2	0.0975	0.1406		mg/Kg		NaN	10 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	162	* X	70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	146	X	70 - 130

Lab Sample ID: 720-85992-B-1-F MSD

Matrix: Solid

Analysis Batch: 510282

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 510090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acetone	0.650	F1	0.243	0.3090		mg/Kg		-140	10 - 150	21	50
Benzene	0.0203	F2 F1	0.0486	0.03580		mg/Kg		32	21 - 150	61	50
Bromobenzene	ND	F2 *	0.0486	0.01179		mg/Kg		24	10 - 150	52	50
Bromoform	ND		0.0486	0.006926		mg/Kg		14	10 - 150	35	50
Bromomethane	ND		0.0486	0.02661		mg/Kg		55	10 - 150	16	50
2-Butanone (MEK)	0.0781	F1	0.243	0.09897		mg/Kg		9	10 - 150	6	50
Carbon disulfide	0.00682	F2	0.0486	0.02773		mg/Kg		43	10 - 150	78	50
Carbon tetrachloride	ND	F2	0.0486	0.03345		mg/Kg		69	10 - 150	78	50
Chlorobenzene	0.00226	F2 F1	0.0486	0.01285		mg/Kg		22	10 - 150	75	50
Chlorobromomethane	ND	F2	0.0486	0.01493		mg/Kg		31	10 - 150	54	50
Chlorodibromomethane	ND		0.0486	0.01130		mg/Kg		23	10 - 150	49	50
Chloroethane	ND		0.0486	0.03150		mg/Kg		65	10 - 150	23	50
Chloroform	ND	F2	0.0486	0.01985		mg/Kg		41	10 - 150	76	50
Chloromethane	ND		0.0486	0.03136		mg/Kg		64	10 - 150	11	50

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: 720-85992-B-1-F MSD

Matrix: Solid

Analysis Batch: 510282

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 510090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorotoluene	ND	F2 *	0.0486	0.03995		mg/Kg		82	10 - 150	54	50
4-Chlorotoluene	ND	F2 *	0.0486	0.02071		mg/Kg		43	10 - 150	54	50
cis-1,2-Dichloroethene	ND	F2	0.0486	0.01716		mg/Kg		35	10 - 150	88	50
cis-1,3-Dichloropropene	ND	F2	0.0486	0.01253		mg/Kg		26	10 - 150	76	50
1,2-Dibromo-3-Chloropropane	ND	*	0.0486	0.008365		mg/Kg		17	10 - 150	18	50
Dibromomethane	ND	F2	0.0486	0.01001		mg/Kg		21	10 - 150	54	50
1,2-Dichlorobenzene	ND	*	0.0486	0.007488		mg/Kg		15	10 - 150	42	50
1,3-Dichlorobenzene	ND	F2 *	0.0486	0.008002		mg/Kg		16	10 - 150	52	50
1,4-Dichlorobenzene	ND	F1 *	0.0486	0.006974		mg/Kg		14	10 - 150	46	50
Dichlorobromomethane	ND	F2	0.0486	0.01323		mg/Kg		27	10 - 150	76	50
Dichlorodifluoromethane	ND		0.0486	0.03978		mg/Kg		82	10 - 150	13	50
1,1-Dichloroethane	ND	F2	0.0486	0.02474		mg/Kg		51	10 - 150	66	50
1,1-Dichloroethene	ND	F2	0.0486	0.03090		mg/Kg		64	10 - 150	64	50
1,2-Dichloropropane	ND	F2	0.0486	0.01725		mg/Kg		35	10 - 150	79	50
1,3-Dichloropropane	ND		0.0486	0.01217		mg/Kg		25	10 - 150	47	50
2,2-Dichloropropane	ND	F2	0.0486	0.03583		mg/Kg		74	10 - 150	54	50
1,1-Dichloropropene	ND	F2	0.0486	0.02695		mg/Kg		55	10 - 150	124	50
Diisopropyl ether	ND		0.0486	0.02494		mg/Kg		51	27 - 144	36	50
EDB	ND		0.0486	0.009331		mg/Kg		19	10 - 150	42	50
EDC	ND	F2 F1	0.0486	0.01323		mg/Kg		27	24 - 138	56	50
Ethylbenzene	0.0389	F2 F1	0.0486	0.06609		mg/Kg		56	10 - 150	69	50
Ethyl tert-butyl ether	ND		0.0486	0.02792		mg/Kg		57	10 - 150	23	50
Hexachlorobutadiene	ND	F2 *	0.0486	0.02449		mg/Kg		50	10 - 150	80	50
2-Hexanone	ND		0.243	0.05064		mg/Kg		21	10 - 150	14	50
Isopropylbenzene	0.00648	F2	0.0486	0.03009		mg/Kg		49	10 - 150	91	50
4-Isopropyltoluene	0.0146	F2 *	0.0486	0.05291		mg/Kg		79	10 - 150	70	50
Methylene Chloride	0.0122	F1	0.0486	0.02771		mg/Kg		32	24 - 150	48	50
4-Methyl-2-pentanone (MIBK)	0.0108	J	0.243	0.07652		mg/Kg		27	10 - 150	8	50
Methyl tert-butyl ether	ND		0.0486	0.02284		mg/Kg		47	10 - 150	4	50
m-Xylene & p-Xylene	0.120	F2 F1 B	0.0486	0.1648		mg/Kg		92	10 - 150	59	50
Naphthalene	0.00923	F2 F1 *	0.0486	0.008395		mg/Kg		-2	10 - 150	72	50
n-Butylbenzene	0.0131	F2 *	0.0486	0.03841		mg/Kg		52	10 - 150	66	50
N-Propylbenzene	0.0207	F2 *	0.0486	0.06109		mg/Kg		83	10 - 150	77	50
o-Xylene	0.0597	F2 F1	0.0486	0.08890		mg/Kg		60	10 - 150	55	50
sec-Butylbenzene	0.00868	F2 *	0.0486	0.04970		mg/Kg		84	10 - 150	81	50
Styrene	0.0323	F2 F1	0.0486	0.03310		mg/Kg		2	10 - 150	116	50
Tert-amyl methyl ether	ND		0.486	0.02357		mg/Kg		48	10 - 150	29	50
tert-Butyl alcohol (TBA)	ND		0.486	0.3846		mg/Kg		79	10 - 150	11	50
tert-Butylbenzene	ND	F2 *	0.0486	0.04715		mg/Kg		97	10 - 150	98	50
1,1,1,2-Tetrachloroethane	ND	F2	0.0486	0.01871		mg/Kg		38	10 - 150	78	50
1,1,2,2-Tetrachloroethane	ND	*	0.0486	0.02529		mg/Kg		52	10 - 150	32	50
Tetrachloroethene	ND	F2	0.0486	0.02791		mg/Kg		57	10 - 150	119	50
Toluene	0.106	F2 F1	0.0486	0.1298		mg/Kg		49	17 - 150	52	50
trans-1,2-Dichloroethene	ND	F2	0.0486	0.02146		mg/Kg		44	10 - 150	101	50
trans-1,3-Dichloropropene	ND	F2	0.0486	0.009301		mg/Kg		19	10 - 150	64	50
1,2,3-Trichlorobenzene	ND	F1 *	0.0486	0.001621	J	mg/Kg		3	10 - 150	32	50
1,2,4-Trichlorobenzene	ND	F1 *	0.0486	0.004349		mg/Kg		9	10 - 150	43	50
1,1,1-Trichloroethane	ND	F2	0.0486	0.03201		mg/Kg		66	10 - 150	67	50

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: 720-85992-B-1-F MSD

Matrix: Solid

Analysis Batch: 510282

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 510090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	ND		0.0486	0.02105		mg/Kg		43	10 - 150	7	50
Trichloroethene	0.00468	F2	0.0486	0.02285		mg/Kg		37	10 - 150	78	50
Trichlorofluoromethane	ND		0.0486	0.03914		mg/Kg		80	10 - 150	17	50
1,2,3-Trichloropropane	ND	F1 *	0.0486	0.06183		mg/Kg		127	10 - 150	27	50
1,2,4-Trimethylbenzene	0.104	F1 *	0.0486	0.1606		mg/Kg		116	10 - 150	49	50
1,3,5-Trimethylbenzene	0.0382	*	0.0486	0.07745		mg/Kg		81	10 - 150	49	50
Vinyl chloride	ND		0.0486	0.03534		mg/Kg		73	10 - 150	15	50
Xylenes, Total	0.109	F2	0.0973	0.2537	F2	mg/Kg		NaN	10 - 150	57	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	164	X	70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
Toluene-d8 (Surr)	129		70 - 130

Lab Sample ID: MB 490-510123/9

Matrix: Water

Analysis Batch: 510123

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	2.66	ug/L			04/23/18 14:19	1
Benzene	ND		1.00	0.200	ug/L			04/23/18 14:19	1
Bromobenzene	ND		1.00	0.210	ug/L			04/23/18 14:19	1
Bromoform	ND		1.00	0.290	ug/L			04/23/18 14:19	1
Bromomethane	ND		1.00	0.350	ug/L			04/23/18 14:19	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			04/23/18 14:19	1
Carbon disulfide	ND		1.00	0.220	ug/L			04/23/18 14:19	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			04/23/18 14:19	1
Chlorobenzene	ND		1.00	0.180	ug/L			04/23/18 14:19	1
Chlorobromomethane	ND		1.00	0.150	ug/L			04/23/18 14:19	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			04/23/18 14:19	1
Chloroethane	ND		1.00	0.360	ug/L			04/23/18 14:19	1
Chloroform	ND		1.00	0.230	ug/L			04/23/18 14:19	1
Chloromethane	ND		1.00	0.360	ug/L			04/23/18 14:19	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			04/23/18 14:19	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			04/23/18 14:19	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			04/23/18 14:19	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/23/18 14:19	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			04/23/18 14:19	1
Dibromomethane	ND		1.00	0.450	ug/L			04/23/18 14:19	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			04/23/18 14:19	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			04/23/18 14:19	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			04/23/18 14:19	1
Dichlorobromomethane	ND		1.00	0.170	ug/L			04/23/18 14:19	1
Dichlorodifluoromethane	NC		1.00	0.170	ug/L			04/23/18 14:19	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			04/23/18 14:19	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			04/23/18 14:19	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			04/23/18 14:19	1

TestAmerica Nashville



# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: MB 490-510123/9

Matrix: Water

Analysis Batch: 510123

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.00	0.190	ug/L			04/23/18 14:19	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			04/23/18 14:19	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			04/23/18 14:19	1
Diisopropyl ether	ND		2.00	0.170	ug/L			04/23/18 14:19	1
EDB	ND		1.00	0.210	ug/L			04/23/18 14:19	1
EDC	ND		1.00	0.200	ug/L			04/23/18 14:19	1
Ethylbenzene	ND		1.00	0.190	ug/L			04/23/18 14:19	1
Ethyl tert-butyl ether	ND		1.00	0.210	ug/L			04/23/18 14:19	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			04/23/18 14:19	1
2-Hexanone	ND		10.0	1.28	ug/L			04/23/18 14:19	1
Isopropylbenzene	ND		1.00	0.330	ug/L			04/23/18 14:19	1
4-Isopropyltoluene	ND		1.00	0.170	ug/L			04/23/18 14:19	1
Methylene Chloride	NC		5.00	1.00	ug/L			04/23/18 14:19	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			04/23/18 14:19	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			04/23/18 14:19	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			04/23/18 14:19	1
Naphthalene	ND		5.00	0.210	ug/L			04/23/18 14:19	1
n-Butylbenzene	ND		1.00	0.240	ug/L			04/23/18 14:19	1
N-Propylbenzene	ND		1.00	0.170	ug/L			04/23/18 14:19	1
o-Xylene	ND		1.00	0.200	ug/L			04/23/18 14:19	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			04/23/18 14:19	1
Styrene	ND		1.00	0.280	ug/L			04/23/18 14:19	1
Tert-amyl methyl ether	ND		1.00	0.170	ug/L			04/23/18 14:19	1
tert-Butyl alcohol (TBA)	ND		10.0	3.90	ug/L			04/23/18 14:19	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			04/23/18 14:19	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			04/23/18 14:19	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			04/23/18 14:19	1
Tetrachloroethene	ND		1.00	0.140	ug/L			04/23/18 14:19	1
Toluene	ND		1.00	0.170	ug/L			04/23/18 14:19	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			04/23/18 14:19	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/23/18 14:19	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			04/23/18 14:19	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			04/23/18 14:19	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			04/23/18 14:19	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			04/23/18 14:19	1
Trichloroethene	ND		1.00	0.200	ug/L			04/23/18 14:19	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			04/23/18 14:19	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			04/23/18 14:19	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 14:19	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			04/23/18 14:19	1
Vinyl chloride	ND		1.00	0.180	ug/L			04/23/18 14:19	1
Xylenes, Total	ND		3.00	0.580	ug/L			04/23/18 14:19	1
Gasoline Range Organics [C6 - C10]	ND		400	200	ug/L			04/23/18 14:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130		04/23/18 14:19	1
Dibromofluoromethane (Surr)	100		70 - 130		04/23/18 14:19	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		04/23/18 14:19	1

TestAmerica Nashville



# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: MB 490-510123/9

Matrix: Water

Analysis Batch: 510123

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB %Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96	70 - 130		04/23/18 14:19	1

Lab Sample ID: LCS 490-510123/3

Matrix: Water

Analysis Batch: 510123

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.37		ug/L		101	70 - 130
Diisopropyl ether	50.0	53.45		ug/L		107	66 - 142
EDB	50.0	47.52		ug/L		95	70 - 130
EDC	50.0	45.28		ug/L		91	70 - 130
Ethylbenzene	50.0	46.65		ug/L		93	70 - 130
Ethyl tert-butyl ether	50.0	45.93		ug/L		92	63 - 135
Isopropylbenzene	50.0	47.27		ug/L		95	70 - 131
4-Isopropyltoluene	50.0	48.94		ug/L		98	66 - 130
Methyl tert-butyl ether	50.0	45.96		ug/L		92	70 - 130
m-Xylene & p-Xylene	100	93.69		ug/L		94	70 - 130
Naphthalene	50.0	49.19		ug/L		98	54 - 150
n-Butylbenzene	50.0	49.71		ug/L		99	68 - 137
N-Propylbenzene	50.0	47.82		ug/L		96	70 - 134
o-Xylene	50.0	46.24		ug/L		92	70 - 130
sec-Butylbenzene	50.0	48.27		ug/L		97	70 - 135
Tert-amyl methyl ether	50.0	45.83		ug/L		92	63 - 135
tert-Butyl alcohol (TBA)	500	545.6		ug/L		109	12 - 150
tert-Butylbenzene	50.0	48.01		ug/L		96	70 - 130
Toluene	50.0	47.87		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	50.0	47.37		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	50.0	47.49		ug/L		95	70 - 130
Xylenes, Total	150	139.9		ug/L		93	70 - 132

Surrogate	LCS LCS %Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
Dibromofluoromethane (Surr)	98	70 - 130
1,2-Dichloroethane-d4 (Surr)	99	70 - 130
Toluene-d8 (Surr)	96	70 - 130

Lab Sample ID: LCS 490-510123/7

Matrix: Water

Analysis Batch: 510123

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 [C6 - C10]	2000	2045		ug/L		102	66 - 134

Surrogate	LCS LCS %Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
Dibromofluoromethane (Surr)	101	70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCS 490-510123/7

Matrix: Water

Analysis Batch: 510123

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: LCSD 490-510123/4

Matrix: Water

Analysis Batch: 510123

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	51.50		ug/L		103	70 - 130	2	12
Diisopropyl ether	50.0	55.79		ug/L		112	66 - 142	4	14
EDB	50.0	49.61		ug/L		99	70 - 130	4	13
EDC	50.0	47.45		ug/L		95	70 - 130	5	13
Ethylbenzene	50.0	48.42		ug/L		97	70 - 130	4	12
Ethyl tert-butyl ether	50.0	47.49		ug/L		95	63 - 135	3	15
Isopropylbenzene	50.0	48.91		ug/L		98	70 - 131	3	13
4-Isopropyltoluene	50.0	50.54		ug/L		101	66 - 130	3	13
Methyl tert-butyl ether	50.0	47.57		ug/L		95	70 - 130	3	16
m-Xylene & p-Xylene	100	96.82		ug/L		97	70 - 130	3	12
Naphthalene	50.0	51.12		ug/L		102	54 - 150	4	15
n-Butylbenzene	50.0	52.03		ug/L		104	68 - 137	5	14
N-Propylbenzene	50.0	49.73		ug/L		99	70 - 134	4	14
o-Xylene	50.0	47.76		ug/L		96	70 - 130	3	11
sec-Butylbenzene	50.0	50.03		ug/L		100	70 - 135	4	14
Tert-amyl methyl ether	50.0	46.10		ug/L		92	63 - 135	1	15
tert-Butyl alcohol (TBA)	500	560.4		ug/L		112	12 - 150	3	46
tert-Butylbenzene	50.0	49.87		ug/L		100	70 - 130	4	14
Toluene	50.0	49.08		ug/L		98	70 - 130	3	13
1,2,4-Trimethylbenzene	50.0	49.07		ug/L		98	70 - 130	4	13
1,3,5-Trimethylbenzene	50.0	49.38		ug/L		99	70 - 130	4	14
Xylenes, Total	150	144.6		ug/L		96	70 - 132	3	11

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	96		70 - 130

Lab Sample ID: 490-150361-B-4 MSD

Matrix: Water

Analysis Batch: 510123

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	57.39		ug/L		115	55 - 147	6	22
Diisopropyl ether	ND		50.0	59.37		ug/L		119	56 - 142	6	22
EDB	ND		50.0	52.29		ug/L		105	65 - 137	5	21
EDC	ND		50.0	50.55		ug/L		101	64 - 136	7	22
Ethylbenzene	ND		50.0	52.33		ug/L		105	65 - 139	5	18
Ethyl tert-butyl ether	ND		50.0	52.69		ug/L		105	53 - 138	6	22

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: 490-150361-B-4 MSD

Matrix: Water

Analysis Batch: 510123

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	ND		50.0	52.57		ug/L		105	70 - 137	5	17
4-Isopropyltoluene	ND		50.0	53.51		ug/L		107	66 - 137	8	16
Methyl tert-butyl ether	122		50.0	181.3		ug/L		118	55 - 141	4	24
m-Xylene & p-Xylene	ND		100	103.8		ug/L		104	70 - 130	4	17
Naphthalene	ND		50.0	55.54		ug/L		111	32 - 150	11	40
n-Butylbenzene	ND		50.0	54.69		ug/L		109	61 - 141	3	17
N-Propylbenzene	ND		50.0	53.06		ug/L		106	53 - 150	3	18
o-Xylene	ND		50.0	51.66		ug/L		103	70 - 131	5	17
sec-Butylbenzene	ND		50.0	54.36		ug/L		109	55 - 136	7	50
Tert-amyl methyl ether	ND		50.0	53.72		ug/L		107	47 - 148	6	23
tert-Butyl alcohol (TBA)	35.7		500	730.9		ug/L		139	10 - 150	11	47
tert-Butylbenzene	ND		50.0	53.46		ug/L		107	70 - 138	6	17
Toluene	ND		50.0	54.04		ug/L		108	64 - 136	5	18
1,2,4-Trimethylbenzene	ND		50.0	52.30		ug/L		105	64 - 136	6	18
1,3,5-Trimethylbenzene	ND		50.0	52.76		ug/L		106	69 - 139	6	17
Xylenes, Total	ND		150	155.5		ug/L		104	69 - 132	5	17

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: 490-150361-C-4 MS

Matrix: Water

Analysis Batch: 510123

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		50.0	53.99		ug/L		108	55 - 147
Diisopropyl ether	ND		50.0	56.18		ug/L		112	56 - 142
EDB	ND		50.0	49.55		ug/L		99	65 - 137
EDC	ND		50.0	47.20		ug/L		94	64 - 136
Ethylbenzene	ND		50.0	49.79		ug/L		100	65 - 139
Ethyl tert-butyl ether	ND		50.0	49.38		ug/L		99	53 - 138
Isopropylbenzene	ND		50.0	50.11		ug/L		100	70 - 137
4-Isopropyltoluene	ND		50.0	49.48		ug/L		99	66 - 137
Methyl tert-butyl ether	122		50.0	174.8		ug/L		105	55 - 141
m-Xylene & p-Xylene	ND		100	99.33		ug/L		99	70 - 130
Naphthalene	ND		50.0	49.79		ug/L		100	32 - 150
n-Butylbenzene	ND		50.0	52.92		ug/L		106	61 - 141
N-Propylbenzene	ND		50.0	51.67		ug/L		103	53 - 150
o-Xylene	ND		50.0	48.90		ug/L		98	70 - 131
sec-Butylbenzene	ND		50.0	50.71		ug/L		101	55 - 136
Tert-amyl methyl ether	ND		50.0	50.57		ug/L		101	47 - 148
tert-Butyl alcohol (TBA)	35.7		500	655.6		ug/L		124	10 - 150
tert-Butylbenzene	ND		50.0	50.12		ug/L		100	70 - 138
Toluene	ND		50.0	51.19		ug/L		102	64 - 136
1,2,4-Trimethylbenzene	ND		50.0	49.40		ug/L		99	64 - 136

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: 490-150361-C-4 MS

Matrix: Water

Analysis Batch: 510123

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	ND		50.0	49.67		ug/L		99	69 - 139
Xylenes, Total	ND		150	148.2		ug/L		99	69 - 132
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		70 - 130						
Dibromofluoromethane (Surr)	98		70 - 130						
1,2-Dichloroethane-d4 (Surr)	99		70 - 130						
Toluene-d8 (Surr)	95		70 - 130						

Lab Sample ID: MB 490-510282/11

Matrix: Solid

Analysis Batch: 510282

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500	0.00840	mg/Kg			04/24/18 15:02	1
Benzene	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
Bromobenzene	ND		0.00200	0.000720	mg/Kg			04/24/18 15:02	1
Bromoform	ND		0.00200	0.000550	mg/Kg			04/24/18 15:02	1
Bromomethane	ND		0.00200	0.00120	mg/Kg			04/24/18 15:02	1
2-Butanone (MEK)	ND		0.0500	0.00510	mg/Kg			04/24/18 15:02	1
Carbon disulfide	ND		0.00500	0.00360	mg/Kg			04/24/18 15:02	1
Carbon tetrachloride	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
Chlorobenzene	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
Chlorobromomethane	ND		0.00200	0.000550	mg/Kg			04/24/18 15:02	1
Chlorodibromomethane	ND		0.00200	0.000340	mg/Kg			04/24/18 15:02	1
Chloroethane	ND		0.00500	0.00190	mg/Kg			04/24/18 15:02	1
Chloroform	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
Chloromethane	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
2-Chlorotoluene	ND		0.00200	0.000890	mg/Kg			04/24/18 15:02	1
4-Chlorotoluene	ND		0.00200	0.000840	mg/Kg			04/24/18 15:02	1
cis-1,2-Dichloroethene	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
cis-1,3-Dichloropropene	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
1,2-Dibromo-3-Chloropropane	ND		0.00500	0.000700	mg/Kg			04/24/18 15:02	1
Dibromomethane	ND		0.00200	0.000560	mg/Kg			04/24/18 15:02	1
1,2-Dichlorobenzene	ND		0.00200	0.000340	mg/Kg			04/24/18 15:02	1
1,3-Dichlorobenzene	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
1,4-Dichlorobenzene	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
Dichlorobromomethane	ND		0.00200	0.000550	mg/Kg			04/24/18 15:02	1
Dichlorodifluoromethane	ND		0.00200	0.00100	mg/Kg			04/24/18 15:02	1
1,1-Dichloroethane	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
1,1-Dichloroethene	ND		0.00200	0.000570	mg/Kg			04/24/18 15:02	1
1,2-Dichloropropane	ND		0.00200	0.000940	mg/Kg			04/24/18 15:02	1
1,3-Dichloropropane	ND		0.00200	0.000940	mg/Kg			04/24/18 15:02	1
2,2-Dichloropropane	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
1,1-Dichloropropene	ND		0.00200	0.000510	mg/Kg			04/24/18 15:02	1
Diisopropyl ether	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
EDB	ND		0.00200	0.00100	mg/Kg			04/24/18 15:02	1
EDC	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: MB 490-510282/11

Matrix: Solid

Analysis Batch: 510282

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
Ethyl tert-butyl ether	ND		0.00500	0.00100	mg/Kg			04/24/18 15:02	1
Hexachlorobutadiene	ND		0.00500	0.00114	mg/Kg			04/24/18 15:02	1
2-Hexanone	ND		0.0500	0.0167	mg/Kg			04/24/18 15:02	1
Isopropylbenzene	ND		0.00200	0.000410	mg/Kg			04/24/18 15:02	1
4-Isopropyltoluene	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
Methylene Chloride	ND		0.0100	0.000860	mg/Kg			04/24/18 15:02	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500	0.00190	mg/Kg			04/24/18 15:02	1
Methyl tert-butyl ether	ND		0.00200	0.000960	mg/Kg			04/24/18 15:02	1
m-Xylene & p-Xylene	0.0005651	J	0.00400	0.000560	mg/Kg			04/24/18 15:02	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			04/24/18 15:02	1
n-Butylbenzene	ND		0.00200	0.000980	mg/Kg			04/24/18 15:02	1
N-Propylbenzene	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
o-Xylene	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
sec-Butylbenzene	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
Styrene	ND		0.00200	0.00110	mg/Kg			04/24/18 15:02	1
Tert-amyl methyl ether	ND		0.00200	0.000310	mg/Kg			04/24/18 15:02	1
tert-Butyl alcohol (TBA)	ND		0.0500	0.0112	mg/Kg			04/24/18 15:02	1
tert-Butylbenzene	ND		0.00200	0.000900	mg/Kg			04/24/18 15:02	1
1,1,1,2-Tetrachloroethane	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
1,1,2,2-Tetrachloroethane	ND		0.00200	0.00100	mg/Kg			04/24/18 15:02	1
Tetrachloroethene	ND		0.00200	0.000730	mg/Kg			04/24/18 15:02	1
Toluene	ND		0.00200	0.000740	mg/Kg			04/24/18 15:02	1
trans-1,2-Dichloroethene	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
trans-1,3-Dichloropropene	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
1,2,3-Trichlorobenzene	ND		0.00200	0.000380	mg/Kg			04/24/18 15:02	1
1,2,4-Trichlorobenzene	ND		0.00200	0.000670	mg/Kg			04/24/18 15:02	1
1,1,1-Trichloroethane	ND		0.00200	0.000920	mg/Kg			04/24/18 15:02	1
1,1,2-Trichloroethane	ND		0.00500	0.00140	mg/Kg			04/24/18 15:02	1
Trichloroethene	ND		0.00200	0.000960	mg/Kg			04/24/18 15:02	1
Trichlorofluoromethane	ND		0.00200	0.00100	mg/Kg			04/24/18 15:02	1
1,2,3-Trichloropropane	ND		0.00200	0.000550	mg/Kg			04/24/18 15:02	1
1,2,4-Trimethylbenzene	ND		0.00200	0.00100	mg/Kg			04/24/18 15:02	1
1,3,5-Trimethylbenzene	ND		0.00200	0.000750	mg/Kg			04/24/18 15:02	1
Vinyl chloride	ND		0.00200	0.00110	mg/Kg			04/24/18 15:02	1
Xylenes, Total	ND		0.00600	0.00123	mg/Kg			04/24/18 15:02	1
Gasoline Range Organics [C6 - C10]	ND		0.400	0.200	mg/Kg			04/24/18 15:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130		04/24/18 15:02	1
Dibromofluoromethane (Surr)	98		70 - 130		04/24/18 15:02	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		04/24/18 15:02	1
Toluene-d8 (Surr)	100		70 - 130		04/24/18 15:02	1

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCS 490-510282/3

Matrix: Solid

Analysis Batch: 510282

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.250	0.2272		mg/Kg		91	45 - 145
Benzene	0.0500	0.04837		mg/Kg		97	70 - 130
Bromobenzene	0.0500	0.05453		mg/Kg		109	67 - 130
Bromoform	0.0500	0.05427		mg/Kg		109	59 - 137
Bromomethane	0.0500	0.05131		mg/Kg		103	32 - 150
2-Butanone (MEK)	0.250	0.2523		mg/Kg		101	50 - 149
Carbon disulfide	0.0500	0.04798		mg/Kg		96	66 - 138
Carbon tetrachloride	0.0500	0.05401		mg/Kg		108	70 - 131
Chlorobenzene	0.0500	0.05537		mg/Kg		111	70 - 130
Chlorobromomethane	0.0500	0.04704		mg/Kg		94	70 - 133
Chlorodibromomethane	0.0500	0.05283		mg/Kg		106	70 - 130
Chloroethane	0.0500	0.04517		mg/Kg		90	37 - 150
Chloroform	0.0500	0.04818		mg/Kg		96	70 - 130
Chloromethane	0.0500	0.04156		mg/Kg		83	53 - 150
2-Chlorotoluene	0.0500	0.05618		mg/Kg		112	70 - 132
4-Chlorotoluene	0.0500	0.05528		mg/Kg		111	67 - 135
cis-1,2-Dichloroethene	0.0500	0.04940		mg/Kg		99	70 - 132
cis-1,3-Dichloropropene	0.0500	0.05408		mg/Kg		108	70 - 130
1,2-Dibromo-3-Chloropropane	0.0500	0.05479		mg/Kg		110	47 - 144
Dibromomethane	0.0500	0.04494		mg/Kg		90	70 - 130
1,2-Dichlorobenzene	0.0500	0.05305		mg/Kg		106	70 - 134
1,3-Dichlorobenzene	0.0500	0.05566		mg/Kg		111	69 - 137
1,4-Dichlorobenzene	0.0500	0.05433		mg/Kg		109	66 - 134
Dichlorobromomethane	0.0500	0.04918		mg/Kg		98	70 - 130
Dichlorodifluoromethane	0.0500	0.04652		mg/Kg		93	32 - 150
1,1-Dichloroethane	0.0500	0.04718		mg/Kg		94	70 - 130
1,1-Dichloroethene	0.0500	0.04798		mg/Kg		96	70 - 131
1,2-Dichloropropane	0.0500	0.04544		mg/Kg		91	70 - 130
1,3-Dichloropropane	0.0500	0.04778		mg/Kg		96	70 - 130
2,2-Dichloropropane	0.0500	0.05485		mg/Kg		110	57 - 150
1,1-Dichloropropene	0.0500	0.05200		mg/Kg		104	70 - 130
Diisopropyl ether	0.0500	0.04697		mg/Kg		94	68 - 134
EDB	0.0500	0.04929		mg/Kg		99	69 - 130
EDC	0.0500	0.04430		mg/Kg		89	65 - 134
Ethylbenzene	0.0500	0.05472		mg/Kg		109	70 - 130
Ethyl tert-butyl ether	0.0500	0.05007		mg/Kg		100	19 - 150
Hexachlorobutadiene	0.0500	0.06263		mg/Kg		125	64 - 137
2-Hexanone	0.250	0.2602		mg/Kg		104	47 - 148
Isopropylbenzene	0.0500	0.05518		mg/Kg		110	70 - 130
4-Isopropyltoluene	0.0500	0.05859		mg/Kg		117	66 - 147
Methylene Chloride	0.0500	0.04574		mg/Kg		91	69 - 130
4-Methyl-2-pentanone (MIBK)	0.250	0.2450		mg/Kg		98	48 - 150
Methyl tert-butyl ether	0.0500	0.04416		mg/Kg		88	54 - 145
m-Xylene & p-Xylene	0.0500	0.05409		mg/Kg		108	70 - 130
Naphthalene	0.0500	0.05568		mg/Kg		111	55 - 149
n-Butylbenzene	0.0500	0.05737		mg/Kg		115	57 - 150
N-Propylbenzene	0.0500	0.05593		mg/Kg		112	62 - 150
o-Xylene	0.0500	0.05344		mg/Kg		107	70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCS 490-510282/3

Matrix: Solid

Analysis Batch: 510282

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	0.0500	0.05693		mg/Kg		114	68 - 147
Styrene	0.0500	0.05398		mg/Kg		108	70 - 131
Tert-amyl methyl ether	0.0500	0.04736		mg/Kg		95	10 - 150
tert-Butyl alcohol (TBA)	0.500	0.4266		mg/Kg		85	10 - 150
tert-Butylbenzene	0.0500	0.05851		mg/Kg		117	70 - 138
1,1,1,2-Tetrachloroethane	0.0500	0.05687		mg/Kg		114	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.04996		mg/Kg		100	61 - 134
Tetrachloroethene	0.0500	0.05778		mg/Kg		116	70 - 130
Toluene	0.0500	0.05284		mg/Kg		106	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04799		mg/Kg		96	70 - 130
trans-1,3-Dichloropropene	0.0500	0.05474		mg/Kg		109	67 - 130
1,2,3-Trichlorobenzene	0.0500	0.05888		mg/Kg		118	57 - 146
1,2,4-Trichlorobenzene	0.0500	0.06324		mg/Kg		126	47 - 150
1,1,1-Trichloroethane	0.0500	0.05195		mg/Kg		104	70 - 130
1,1,2-Trichloroethane	0.0500	0.04410		mg/Kg		88	70 - 130
Trichloroethene	0.0500	0.05246		mg/Kg		105	70 - 130
Trichlorofluoromethane	0.0500	0.04763		mg/Kg		95	53 - 150
1,2,3-Trichloropropane	0.0500	0.04889		mg/Kg		98	60 - 139
1,2,4-Trimethylbenzene	0.0500	0.05671		mg/Kg		113	70 - 140
1,3,5-Trimethylbenzene	0.0500	0.05560		mg/Kg		111	69 - 141
Vinyl chloride	0.0500	0.04813		mg/Kg		96	63 - 150
Xylenes, Total	0.100	0.1075		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	89		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: LCS 490-510282/9

Matrix: Solid

Analysis Batch: 510282

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 [C6 - C10]	4.00	4.446		mg/Kg		111	65 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
Dibromofluoromethane (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TestAmerica Nashville



# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCSD 490-510282/4

Matrix: Solid

Analysis Batch: 510282

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
Acetone	0.250	0.2468		mg/Kg		99	45 - 145	8	38
Benzene	0.0500	0.05172		mg/Kg		103	70 - 130	7	37
Bromobenzene	0.0500	0.05786		mg/Kg		116	67 - 130	6	40
Bromoform	0.0500	0.05744		mg/Kg		115	59 - 137	6	17
Bromomethane	0.0500	0.05578		mg/Kg		112	32 - 150	8	45
2-Butanone (MEK)	0.250	0.2745		mg/Kg		110	50 - 149	8	39
Carbon disulfide	0.0500	0.05151		mg/Kg		103	66 - 138	7	41
Carbon tetrachloride	0.0500	0.05773		mg/Kg		115	70 - 131	7	41
Chlorobenzene	0.0500	0.05886		mg/Kg		118	70 - 130	6	40
Chlorobromomethane	0.0500	0.05062		mg/Kg		101	70 - 133	7	15
Chlorodibromomethane	0.0500	0.05529		mg/Kg		111	70 - 130	5	14
Chloroethane	0.0500	0.04892		mg/Kg		98	37 - 150	8	50
Chloroform	0.0500	0.05184		mg/Kg		104	70 - 130	7	15
Chloromethane	0.0500	0.04458		mg/Kg		89	53 - 150	7	47
2-Chlorotoluene	0.0500	0.06004		mg/Kg		120	70 - 132	7	41
4-Chlorotoluene	0.0500	0.05941		mg/Kg		119	67 - 135	7	41
cis-1,2-Dichloroethene	0.0500	0.05292		mg/Kg		106	70 - 132	7	18
cis-1,3-Dichloropropene	0.0500	0.05758		mg/Kg		115	70 - 130	6	42
1,2-Dibromo-3-Chloropropane	0.0500	0.05921		mg/Kg		118	47 - 144	8	38
Dibromomethane	0.0500	0.04735		mg/Kg		95	70 - 130	5	19
1,2-Dichlorobenzene	0.0500	0.05590		mg/Kg		112	70 - 134	5	40
1,3-Dichlorobenzene	0.0500	0.05910		mg/Kg		118	69 - 137	6	41
1,4-Dichlorobenzene	0.0500	0.05799		mg/Kg		116	66 - 134	7	41
Dichlorobromomethane	0.0500	0.05178		mg/Kg		104	70 - 130	5	20
Dichlorodifluoromethane	0.0500	0.04881		mg/Kg		98	32 - 150	5	50
1,1-Dichloroethane	0.0500	0.05082		mg/Kg		102	70 - 130	7	42
1,1-Dichloroethene	0.0500	0.05227		mg/Kg		105	70 - 131	9	43
1,2-Dichloropropane	0.0500	0.04808		mg/Kg		96	70 - 130	6	15
1,3-Dichloropropane	0.0500	0.04983		mg/Kg		100	70 - 130	4	15
2,2-Dichloropropane	0.0500	0.05874		mg/Kg		117	57 - 150	7	42
1,1-Dichloropropene	0.0500	0.05569		mg/Kg		111	70 - 130	7	41
Diisopropyl ether	0.0500	0.04931		mg/Kg		99	68 - 134	5	36
EDB	0.0500	0.05235		mg/Kg		105	69 - 130	6	17
EDC	0.0500	0.04695		mg/Kg		94	65 - 134	6	16
Ethylbenzene	0.0500	0.05834		mg/Kg		117	70 - 130	6	38
Ethyl tert-butyl ether	0.0500	0.05219		mg/Kg		104	19 - 150	4	37
Hexachlorobutadiene	0.0500	0.06576		mg/Kg		132	64 - 137	5	44
2-Hexanone	0.250	0.2805		mg/Kg		112	47 - 148	8	38
Isopropylbenzene	0.0500	0.05861		mg/Kg		117	70 - 130	6	39
4-Isopropyltoluene	0.0500	0.06158		mg/Kg		123	66 - 147	5	38
Methylene Chloride	0.0500	0.04917		mg/Kg		98	69 - 130	7	19
4-Methyl-2-pentanone (MIBK)	0.250	0.2662		mg/Kg		106	48 - 150	8	41
Methyl tert-butyl ether	0.0500	0.04597		mg/Kg		92	54 - 145	4	36
m-Xylene & p-Xylene	0.0500	0.05798		mg/Kg		116	70 - 130	7	38
Naphthalene	0.0500	0.05919		mg/Kg		118	55 - 149	6	37
n-Butylbenzene	0.0500	0.05977		mg/Kg		120	57 - 150	4	39
N-Propylbenzene	0.0500	0.05937		mg/Kg		119	62 - 150	6	38
o-Xylene	0.0500	0.05697		mg/Kg		114	70 - 130	6	38

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCSD 490-510282/4

Matrix: Solid

Analysis Batch: 510282

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	0.0500	0.05962		mg/Kg		119	68 - 147	5	38
Styrene	0.0500	0.05758		mg/Kg		115	70 - 131	6	40
Tert-amyl methyl ether	0.0500	0.04951		mg/Kg		99	10 - 150	4	50
tert-Butyl alcohol (TBA)	0.500	0.4426		mg/Kg		89	10 - 150	4	50
tert-Butylbenzene	0.0500	0.06232		mg/Kg		125	70 - 138	6	38
1,1,1,2-Tetrachloroethane	0.0500	0.06070		mg/Kg		121	70 - 130	7	41
1,1,2,2-Tetrachloroethane	0.0500	0.05271		mg/Kg		105	61 - 134	5	16
Tetrachloroethene	0.0500	0.06208		mg/Kg		124	70 - 130	7	41
Toluene	0.0500	0.05695		mg/Kg		114	70 - 130	7	40
trans-1,2-Dichloroethene	0.0500	0.05439		mg/Kg		109	70 - 130	12	41
trans-1,3-Dichloropropene	0.0500	0.05828		mg/Kg		117	67 - 130	6	41
1,2,3-Trichlorobenzene	0.0500	0.06184		mg/Kg		124	57 - 146	5	42
1,2,4-Trichlorobenzene	0.0500	0.06506		mg/Kg		130	47 - 150	3	43
1,1,1-Trichloroethane	0.0500	0.05637		mg/Kg		113	70 - 130	8	41
1,1,2-Trichloroethane	0.0500	0.04621		mg/Kg		92	70 - 130	5	17
Trichloroethene	0.0500	0.05658		mg/Kg		113	70 - 130	8	41
Trichlorofluoromethane	0.0500	0.05067		mg/Kg		101	53 - 150	6	49
1,2,3-Trichloropropane	0.0500	0.05162		mg/Kg		103	60 - 139	5	16
1,2,4-Trimethylbenzene	0.0500	0.05943		mg/Kg		119	70 - 140	5	38
1,3,5-Trimethylbenzene	0.0500	0.05894		mg/Kg		118	69 - 141	6	38
Vinyl chloride	0.0500	0.05149		mg/Kg		103	63 - 150	7	46
Xylenes, Total	0.100	0.1150		mg/Kg		115	70 - 130	7	38

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: MB 490-510385/9

Matrix: Water

Analysis Batch: 510385

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00	0.200	ug/L			04/24/18 15:43	1
Diisopropyl ether	ND		2.00	0.170	ug/L			04/24/18 15:43	1
EDB	ND		1.00	0.210	ug/L			04/24/18 15:43	1
EDC	ND		1.00	0.200	ug/L			04/24/18 15:43	1
Ethylbenzene	ND		1.00	0.190	ug/L			04/24/18 15:43	1
Ethyl tert-butyl ether	ND		1.00	0.210	ug/L			04/24/18 15:43	1
Isopropylbenzene	ND		1.00	0.330	ug/L			04/24/18 15:43	1
4-Isopropyltoluene	ND		1.00	0.170	ug/L			04/24/18 15:43	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			04/24/18 15:43	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			04/24/18 15:43	1
Naphthalene	ND		5.00	0.210	ug/L			04/24/18 15:43	1
n-Butylbenzene	ND		1.00	0.240	ug/L			04/24/18 15:43	1
N-Propylbenzene	ND		1.00	0.170	ug/L			04/24/18 15:43	1
o-Xylene	ND		1.00	0.200	ug/L			04/24/18 15:43	1

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: MB 490-510385/9

Matrix: Water

Analysis Batch: 510385

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.00	0.170	ug/L			04/24/18 15:43	1
Tert-amyl methyl ether	ND		1.00	0.170	ug/L			04/24/18 15:43	1
tert-Butyl alcohol (TBA)	ND		10.0	3.90	ug/L			04/24/18 15:43	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			04/24/18 15:43	1
Toluene	ND		1.00	0.170	ug/L			04/24/18 15:43	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			04/24/18 15:43	1
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			04/24/18 15:43	1
Xylenes, Total	ND		3.00	0.580	ug/L			04/24/18 15:43	1
Gasoline Range Organics [C6 - C10]	ND		400	200	ug/L			04/24/18 15:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130		04/24/18 15:43	1
Dibromofluoromethane (Surr)	97		70 - 130		04/24/18 15:43	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		04/24/18 15:43	1
Toluene-d8 (Surr)	96		70 - 130		04/24/18 15:43	1

Lab Sample ID: LCS 490-510385/3

Matrix: Water

Analysis Batch: 510385

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	52.50		ug/L		105	70 - 130
Diisopropyl ether	50.0	51.95		ug/L		104	66 - 142
EDB	50.0	45.86		ug/L		92	70 - 130
EDC	50.0	44.69		ug/L		89	70 - 130
Ethylbenzene	50.0	48.57		ug/L		97	70 - 130
Ethyl tert-butyl ether	50.0	43.28		ug/L		87	63 - 135
Isopropylbenzene	50.0	48.37		ug/L		97	70 - 131
4-Isopropyltoluene	50.0	53.03		ug/L		106	66 - 130
Methyl tert-butyl ether	50.0	41.36		ug/L		83	70 - 130
m-Xylene & p-Xylene	100	95.55		ug/L		96	70 - 130
Naphthalene	50.0	47.31		ug/L		95	54 - 150
n-Butylbenzene	50.0	53.87		ug/L		108	68 - 137
N-Propylbenzene	50.0	51.72		ug/L		103	70 - 134
o-Xylene	50.0	47.72		ug/L		95	70 - 130
sec-Butylbenzene	50.0	52.22		ug/L		104	70 - 135
Tert-amyl methyl ether	50.0	42.45		ug/L		85	63 - 135
tert-Butyl alcohol (TBA)	500	557.7		ug/L		112	12 - 150
tert-Butylbenzene	50.0	52.01		ug/L		104	70 - 130
Toluene	50.0	50.00		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	50.0	51.17		ug/L		102	70 - 130
1,3,5-Trimethylbenzene	50.0	51.58		ug/L		103	70 - 130
Xylenes, Total	150	143.3		ug/L		96	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCS 490-510385/3

Matrix: Water

Analysis Batch: 510385

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCS 490-510385/7

Matrix: Water

Analysis Batch: 510385

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 [C6 - C10]	2000	2012		ug/L		101	66 - 134

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 490-510385/4

Matrix: Water

Analysis Batch: 510385

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	51.45		ug/L		103	70 - 130	2	12
Diisopropyl ether	50.0	50.72		ug/L		101	66 - 142	2	14
EDB	50.0	45.50		ug/L		91	70 - 130	1	13
EDC	50.0	43.48		ug/L		87	70 - 130	3	13
Ethylbenzene	50.0	48.18		ug/L		96	70 - 130	1	12
Ethyl tert-butyl ether	50.0	43.88		ug/L		88	63 - 135	1	15
Isopropylbenzene	50.0	47.94		ug/L		96	70 - 131	1	13
4-Isopropyltoluene	50.0	51.15		ug/L		102	66 - 130	4	13
Methyl tert-butyl ether	50.0	41.37		ug/L		83	70 - 130	0	16
m-Xylene & p-Xylene	100	95.12		ug/L		95	70 - 130	0	12
Naphthalene	50.0	46.71		ug/L		93	54 - 150	1	15
n-Butylbenzene	50.0	53.03		ug/L		106	68 - 137	2	14
N-Propylbenzene	50.0	50.45		ug/L		101	70 - 134	2	14
o-Xylene	50.0	47.09		ug/L		94	70 - 130	1	11
sec-Butylbenzene	50.0	51.20		ug/L		102	70 - 135	2	14
Tert-amyl methyl ether	50.0	41.83		ug/L		84	63 - 135	1	15
tert-Butyl alcohol (TBA)	500	540.0		ug/L		108	12 - 150	3	46
tert-Butylbenzene	50.0	51.11		ug/L		102	70 - 130	2	14
Toluene	50.0	50.11		ug/L		100	70 - 130	0	13
1,2,4-Trimethylbenzene	50.0	50.23		ug/L		100	70 - 130	2	13
1,3,5-Trimethylbenzene	50.0	50.55		ug/L		101	70 - 130	2	14
Xylenes, Total	150	142.2		ug/L		95	70 - 132	1	11

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCSD 490-510385/4

Matrix: Water

Analysis Batch: 510385

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: 490-150354-B-2 MS

Matrix: Water

Analysis Batch: 510385

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		50.0	54.40		ug/L		109	55 - 147
Diisopropyl ether	ND		50.0	53.19		ug/L		106	56 - 142
EDB	ND		50.0	47.78		ug/L		96	65 - 137
EDC	ND		50.0	45.43		ug/L		91	64 - 136
Ethylbenzene	ND		50.0	51.14		ug/L		102	65 - 139
Ethyl tert-butyl ether	ND		50.0	45.35		ug/L		91	53 - 138
Isopropylbenzene	ND		50.0	51.05		ug/L		102	70 - 137
4-Isopropyltoluene	ND		50.0	54.25		ug/L		109	66 - 137
Methyl tert-butyl ether	0.724	J	50.0	44.69		ug/L		88	55 - 141
m-Xylene & p-Xylene	ND		100	100.6		ug/L		101	70 - 130
Naphthalene	ND		50.0	46.97		ug/L		94	32 - 150
n-Butylbenzene	ND		50.0	53.27		ug/L		107	61 - 141
N-Propylbenzene	ND		50.0	54.43		ug/L		109	53 - 150
o-Xylene	ND		50.0	49.64		ug/L		99	70 - 131
sec-Butylbenzene	ND		50.0	54.45		ug/L		109	55 - 136
Tert-amyl methyl ether	ND		50.0	44.50		ug/L		89	47 - 148
tert-Butyl alcohol (TBA)	ND		500	689.7		ug/L		138	10 - 150
tert-Butylbenzene	ND		50.0	55.18		ug/L		110	70 - 138
Toluene	ND		50.0	52.70		ug/L		105	64 - 136
1,2,4-Trimethylbenzene	ND		50.0	53.61		ug/L		107	64 - 136
1,3,5-Trimethylbenzene	ND		50.0	53.98		ug/L		108	69 - 139
Xylenes, Total	ND		150	150.2		ug/L		100	69 - 132

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: 490-150354-C-2 MSD

Matrix: Water

Analysis Batch: 510385

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	ND		50.0	56.65		ug/L		113	55 - 147	4	22
Diisopropyl ether	ND		50.0	55.94		ug/L		112	56 - 142	5	22
EDB	ND		50.0	49.61		ug/L		99	65 - 137	4	21
EDC	ND		50.0	48.30		ug/L		97	64 - 136	6	22
Ethylbenzene	ND		50.0	52.91		ug/L		106	65 - 139	3	18

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: 490-150354-C-2 MSD

Matrix: Water

Analysis Batch: 510385

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethyl tert-butyl ether	ND		50.0	47.80		ug/L		96	53 - 138	5	22
Isopropylbenzene	ND		50.0	53.14		ug/L		106	70 - 137	4	17
4-Isopropyltoluene	ND		50.0	56.54		ug/L		113	66 - 137	4	16
Methyl tert-butyl ether	0.724	J	50.0	46.73		ug/L		92	55 - 141	4	24
m-Xylene & p-Xylene	ND		100	104.4		ug/L		104	70 - 130	4	17
Naphthalene	ND		50.0	53.14		ug/L		106	32 - 150	12	40
n-Butylbenzene	ND		50.0	57.22		ug/L		114	61 - 141	7	17
N-Propylbenzene	ND		50.0	55.76		ug/L		112	53 - 150	2	18
o-Xylene	ND		50.0	51.44		ug/L		103	70 - 131	4	17
sec-Butylbenzene	ND		50.0	57.13		ug/L		114	55 - 136	5	50
Tert-amyl methyl ether	ND		50.0	47.51		ug/L		95	47 - 148	7	23
tert-Butyl alcohol (TBA)	ND		500	726.5		ug/L		145	10 - 150	5	47
tert-Butylbenzene	ND		50.0	56.59		ug/L		113	70 - 138	3	17
Toluene	ND		50.0	54.94		ug/L		110	64 - 136	4	18
1,2,4-Trimethylbenzene	ND		50.0	55.23		ug/L		110	64 - 136	3	18
1,3,5-Trimethylbenzene	ND		50.0	55.50		ug/L		111	69 - 139	3	17
Xylenes, Total	ND		150	155.8		ug/L		104	69 - 132	4	17

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 490-510390/7

Matrix: Water

Analysis Batch: 510390

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	2.66	ug/L			04/24/18 14:17	1
Benzene	ND		1.00	0.200	ug/L			04/24/18 14:17	1
Bromobenzene	ND		1.00	0.210	ug/L			04/24/18 14:17	1
Bromoform	ND		1.00	0.290	ug/L			04/24/18 14:17	1
Bromomethane	ND		1.00	0.350	ug/L			04/24/18 14:17	1
2-Butanone (MEK)	ND		50.0	2.64	ug/L			04/24/18 14:17	1
Carbon disulfide	ND		1.00	0.220	ug/L			04/24/18 14:17	1
Carbon tetrachloride	ND		1.00	0.180	ug/L			04/24/18 14:17	1
Chlorobenzene	ND		1.00	0.180	ug/L			04/24/18 14:17	1
Chlorobromomethane	ND		1.00	0.150	ug/L			04/24/18 14:17	1
Chlorodibromomethane	ND		1.00	0.250	ug/L			04/24/18 14:17	1
Chloroethane	ND		1.00	0.360	ug/L			04/24/18 14:17	1
Chloroform	ND		1.00	0.230	ug/L			04/24/18 14:17	1
Chloromethane	ND		1.00	0.360	ug/L			04/24/18 14:17	1
2-Chlorotoluene	ND		1.00	0.180	ug/L			04/24/18 14:17	1
4-Chlorotoluene	ND		1.00	0.170	ug/L			04/24/18 14:17	1
cis-1,2-Dichloroethene	ND		1.00	0.210	ug/L			04/24/18 14:17	1
cis-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 14:17	1
1,2-Dibromo-3-Chloropropane	ND		10.0	0.940	ug/L			04/24/18 14:17	1

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: MB 490-510390/7

Matrix: Water

Analysis Batch: 510390

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.00	0.450	ug/L			04/24/18 14:17	1
1,2-Dichlorobenzene	ND		1.00	0.190	ug/L			04/24/18 14:17	1
1,3-Dichlorobenzene	ND		1.00	0.180	ug/L			04/24/18 14:17	1
1,4-Dichlorobenzene	ND		1.00	0.170	ug/L			04/24/18 14:17	1
Dichlorobromomethane	ND		1.00	0.170	ug/L			04/24/18 14:17	1
Dichlorodifluoromethane	ND		1.00	0.170	ug/L			04/24/18 14:17	1
1,1-Dichloroethane	ND		1.00	0.240	ug/L			04/24/18 14:17	1
1,1-Dichloroethene	ND		1.00	0.250	ug/L			04/24/18 14:17	1
1,2-Dichloropropane	ND		1.00	0.250	ug/L			04/24/18 14:17	1
1,3-Dichloropropane	ND		1.00	0.190	ug/L			04/24/18 14:17	1
2,2-Dichloropropane	ND		1.00	0.160	ug/L			04/24/18 14:17	1
1,1-Dichloropropene	ND		1.00	0.200	ug/L			04/24/18 14:17	1
Diisopropyl ether	ND		2.00	0.170	ug/L			04/24/18 14:17	1
EDB	ND		1.00	0.210	ug/L			04/24/18 14:17	1
EDC	ND		1.00	0.200	ug/L			04/24/18 14:17	1
Ethylbenzene	ND		1.00	0.190	ug/L			04/24/18 14:17	1
Ethyl tert-butyl ether	ND		1.00	0.210	ug/L			04/24/18 14:17	1
Hexachlorobutadiene	ND		2.00	0.380	ug/L			04/24/18 14:17	1
2-Hexanone	ND		10.0	1.28	ug/L			04/24/18 14:17	1
Isopropylbenzene	ND		1.00	0.330	ug/L			04/24/18 14:17	1
4-Isopropyltoluene	ND		1.00	0.170	ug/L			04/24/18 14:17	1
Methylene Chloride	ND		5.00	1.00	ug/L			04/24/18 14:17	1
4-Methyl-2-pentanone (MIBK)	ND		10.0	0.810	ug/L			04/24/18 14:17	1
Methyl tert-butyl ether	ND		1.00	0.170	ug/L			04/24/18 14:17	1
m-Xylene & p-Xylene	ND		2.00	0.380	ug/L			04/24/18 14:17	1
Naphthalene	0.4735	J	5.00	0.210	ug/L			04/24/18 14:17	1
n-Butylbenzene	ND		1.00	0.240	ug/L			04/24/18 14:17	1
N-Propylbenzene	ND		1.00	0.170	ug/L			04/24/18 14:17	1
o-Xylene	ND		1.00	0.200	ug/L			04/24/18 14:17	1
sec-Butylbenzene	ND		1.00	0.170	ug/L			04/24/18 14:17	1
Styrene	ND		1.00	0.280	ug/L			04/24/18 14:17	1
Tert-amyl methyl ether	ND		1.00	0.170	ug/L			04/24/18 14:17	1
tert-Butyl alcohol (TBA)	ND		10.0	3.90	ug/L			04/24/18 14:17	1
tert-Butylbenzene	ND		1.00	0.170	ug/L			04/24/18 14:17	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.150	ug/L			04/24/18 14:17	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.190	ug/L			04/24/18 14:17	1
Tetrachloroethene	ND		1.00	0.140	ug/L			04/24/18 14:17	1
Toluene	ND		1.00	0.170	ug/L			04/24/18 14:17	1
trans-1,2-Dichloroethene	ND		1.00	0.230	ug/L			04/24/18 14:17	1
trans-1,3-Dichloropropene	ND		1.00	0.170	ug/L			04/24/18 14:17	1
1,2,3-Trichlorobenzene	ND		1.00	0.230	ug/L			04/24/18 14:17	1
1,2,4-Trichlorobenzene	ND		1.00	0.200	ug/L			04/24/18 14:17	1
1,1,1-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 14:17	1
1,1,2-Trichloroethane	ND		1.00	0.190	ug/L			04/24/18 14:17	1
Trichloroethene	ND		1.00	0.200	ug/L			04/24/18 14:17	1
Trichlorofluoromethane	ND		1.00	0.210	ug/L			04/24/18 14:17	1
1,2,3-Trichloropropane	ND		1.00	0.230	ug/L			04/24/18 14:17	1
1,2,4-Trimethylbenzene	ND		1.00	0.170	ug/L			04/24/18 14:17	1

TestAmerica Nashville



# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: MB 490-510390/7

Matrix: Water

Analysis Batch: 510390

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.00	0.170	ug/L			04/24/18 14:17	1
Vinyl chloride	ND		1.00	0.180	ug/L			04/24/18 14:17	1
Xylenes, Total	ND		3.00	0.580	ug/L			04/24/18 14:17	1
Gasoline Range Organics [C6 - C10]	ND		400	200	ug/L			04/24/18 14:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130		04/24/18 14:17	1
Dibromofluoromethane (Surr)	99		70 - 130		04/24/18 14:17	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/24/18 14:17	1
Toluene-d8 (Surr)	99		70 - 130		04/24/18 14:17	1

Lab Sample ID: LCS 490-510390/4

Matrix: Water

Analysis Batch: 510390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	127.5		ug/L		127	39 - 150
Benzene	20.0	20.29		ug/L		101	70 - 130
Bromobenzene	20.0	19.89		ug/L		99	70 - 130
Bromoform	20.0	20.12		ug/L		101	70 - 137
Bromomethane	20.0	18.02		ug/L		90	53 - 150
2-Butanone (MEK)	100	110.5		ug/L		110	55 - 143
Carbon disulfide	20.0	21.75		ug/L		109	64 - 135
Carbon tetrachloride	20.0	19.46		ug/L		97	70 - 147
Chlorobenzene	20.0	19.95		ug/L		100	70 - 130
Chlorobromomethane	20.0	21.04		ug/L		105	70 - 130
Chlorodibromomethane	20.0	20.02		ug/L		100	70 - 133
Chloroethane	20.0	23.81		ug/L		119	60 - 138
Chloroform	20.0	19.79		ug/L		99	70 - 130
Chloromethane	20.0	20.29		ug/L		101	33 - 150
2-Chlorotoluene	20.0	20.16		ug/L		101	70 - 130
4-Chlorotoluene	20.0	19.95		ug/L		100	70 - 130
cis-1,2-Dichloroethene	20.0	20.28		ug/L		101	70 - 130
cis-1,3-Dichloropropene	20.0	20.29		ug/L		101	70 - 133
1,2-Dibromo-3-Chloropropane	20.0	21.11		ug/L		106	45 - 138
Dibromomethane	20.0	19.67		ug/L		98	70 - 130
1,2-Dichlorobenzene	20.0	20.96		ug/L		105	70 - 130
1,3-Dichlorobenzene	20.0	20.77		ug/L		104	70 - 130
1,4-Dichlorobenzene	20.0	20.92		ug/L		105	70 - 130
Dichlorobromomethane	20.0	19.54		ug/L		98	70 - 130
Dichlorodifluoromethane	20.0	18.91		ug/L		95	48 - 150
1,1-Dichloroethane	20.0	19.29		ug/L		96	70 - 130
1,1-Dichloroethene	20.0	23.11		ug/L		116	70 - 132
1,2-Dichloropropane	20.0	19.45		ug/L		97	70 - 130
1,3-Dichloropropane	20.0	20.33		ug/L		102	70 - 130
2,2-Dichloropropane	20.0	19.84		ug/L		99	60 - 143
1,1-Dichloropropene	20.0	20.06		ug/L		100	70 - 130
Diisopropyl ether	20.0	20.13		ug/L		101	66 - 142

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCS 490-510390/4

Matrix: Water

Analysis Batch: 510390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
EDB	20.0	20.80		ug/L		104	70 - 130
EDC	20.0	18.59		ug/L		93	70 - 130
Ethylbenzene	20.0	20.73		ug/L		104	70 - 130
Ethyl tert-butyl ether	20.0	19.70		ug/L		99	63 - 135
Hexachlorobutadiene	20.0	21.64		ug/L		108	70 - 138
2-Hexanone	100	109.5		ug/L		109	54 - 142
Isopropylbenzene	20.0	21.11		ug/L		106	70 - 131
4-Isopropyltoluene	20.0	22.29		ug/L		111	66 - 130
Methylene Chloride	20.0	22.95		ug/L		115	70 - 130
4-Methyl-2-pentanone (MIBK)	100	106.2		ug/L		106	60 - 137
Methyl tert-butyl ether	20.0	23.04		ug/L		115	70 - 130
m-Xylene & p-Xylene	20.0	20.80		ug/L		104	70 - 130
Naphthalene	20.0	22.74		ug/L		114	54 - 150
n-Butylbenzene	20.0	22.34		ug/L		112	68 - 137
N-Propylbenzene	20.0	21.61		ug/L		108	70 - 134
o-Xylene	20.0	20.75		ug/L		104	70 - 130
sec-Butylbenzene	20.0	21.62		ug/L		108	70 - 135
Styrene	20.0	20.51		ug/L		103	70 - 130
Tert-amyl methyl ether	20.0	19.37		ug/L		97	63 - 135
tert-Butyl alcohol (TBA)	200	205.7		ug/L		103	12 - 150
tert-Butylbenzene	20.0	21.61		ug/L		108	70 - 130
1,1,1,2-Tetrachloroethane	20.0	19.64		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	20.0	22.12		ug/L		111	69 - 131
Tetrachloroethene	20.0	20.90		ug/L		105	70 - 130
Toluene	20.0	21.03		ug/L		105	70 - 130
trans-1,2-Dichloroethene	20.0	22.79		ug/L		114	70 - 130
trans-1,3-Dichloropropene	20.0	19.36		ug/L		97	63 - 142
1,2,3-Trichlorobenzene	20.0	22.13		ug/L		111	46 - 150
1,2,4-Trichlorobenzene	20.0	22.12		ug/L		111	58 - 147
1,1,1-Trichloroethane	20.0	19.30		ug/L		96	70 - 135
1,1,2-Trichloroethane	20.0	21.02		ug/L		105	70 - 130
Trichloroethene	20.0	20.66		ug/L		103	70 - 130
Trichlorofluoromethane	20.0	23.48		ug/L		117	59 - 150
1,2,3-Trichloropropane	20.0	22.17		ug/L		111	70 - 131
1,2,4-Trimethylbenzene	20.0	21.49		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	20.0	21.40		ug/L		107	70 - 130
Vinyl chloride	20.0	21.21		ug/L		106	57 - 137
Xylenes, Total	40.0	41.55		ug/L		104	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCSD 490-510390/5

Matrix: Water

Analysis Batch: 510390

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
Acetone	100	101.4		ug/L		101	39 - 150	23	23
Benzene	20.0	20.90		ug/L		104	70 - 130	3	12
Bromobenzene	20.0	18.94		ug/L		95	70 - 130	5	16
Bromoform	20.0	18.69		ug/L		93	70 - 137	7	14
Bromomethane	20.0	18.85		ug/L		94	53 - 150	5	19
2-Butanone (MEK)	100	96.02		ug/L		96	55 - 143	14	19
Carbon disulfide	20.0	22.52		ug/L		113	64 - 135	3	16
Carbon tetrachloride	20.0	19.75		ug/L		99	70 - 147	2	16
Chlorobenzene	20.0	19.80		ug/L		99	70 - 130	1	12
Chlorobromomethane	20.0	20.26		ug/L		101	70 - 130	4	16
Chlorodibromomethane	20.0	18.79		ug/L		94	70 - 133	6	13
Chloroethane	20.0	23.92		ug/L		120	60 - 138	0	15
Chloroform	20.0	19.89		ug/L		99	70 - 130	0	14
Chloromethane	20.0	20.58		ug/L		103	33 - 150	1	20
2-Chlorotoluene	20.0	19.94		ug/L		100	70 - 130	1	15
4-Chlorotoluene	20.0	19.11		ug/L		96	70 - 130	4	15
cis-1,2-Dichloroethene	20.0	20.47		ug/L		102	70 - 130	1	15
cis-1,3-Dichloropropene	20.0	19.54		ug/L		98	70 - 133	4	15
1,2-Dibromo-3-Chloropropane	20.0	19.01		ug/L		95	45 - 138	10	19
Dibromomethane	20.0	18.92		ug/L		95	70 - 130	4	14
1,2-Dichlorobenzene	20.0	19.47		ug/L		97	70 - 130	7	12
1,3-Dichlorobenzene	20.0	19.22		ug/L		96	70 - 130	8	13
1,4-Dichlorobenzene	20.0	20.02		ug/L		100	70 - 130	4	12
Dichlorobromomethane	20.0	19.25		ug/L		96	70 - 130	2	14
Dichlorodifluoromethane	20.0	19.24		ug/L		96	48 - 150	2	16
1,1-Dichloroethane	20.0	19.33		ug/L		97	70 - 130	0	17
1,1-Dichloroethene	20.0	21.63		ug/L		108	70 - 132	7	20
1,2-Dichloropropane	20.0	19.57		ug/L		98	70 - 130	1	15
1,3-Dichloropropane	20.0	18.90		ug/L		94	70 - 130	7	12
2,2-Dichloropropane	20.0	20.36		ug/L		102	60 - 143	3	20
1,1-Dichloropropene	20.0	20.58		ug/L		103	70 - 130	3	16
Diisopropyl ether	20.0	18.57		ug/L		93	66 - 142	8	14
EDB	20.0	19.41		ug/L		97	70 - 130	7	13
EDC	20.0	17.84		ug/L		89	70 - 130	4	13
Ethylbenzene	20.0	20.84		ug/L		104	70 - 130	1	12
Ethyl tert-butyl ether	20.0	18.46		ug/L		92	63 - 135	7	15
Hexachlorobutadiene	20.0	20.96		ug/L		105	70 - 138	3	16
2-Hexanone	100	91.99		ug/L		92	54 - 142	17	17
Isopropylbenzene	20.0	20.75		ug/L		104	70 - 131	2	13
4-Isopropyltoluene	20.0	21.58		ug/L		108	66 - 130	3	13
Methylene Chloride	20.0	22.75		ug/L		114	70 - 130	1	15
4-Methyl-2-pentanone (MIBK)	100	94.46		ug/L		94	60 - 137	12	21
Methyl tert-butyl ether	20.0	18.15	*	ug/L		91	70 - 130	24	16
m-Xylene & p-Xylene	20.0	20.90		ug/L		104	70 - 130	0	12
Naphthalene	20.0	19.87		ug/L		99	54 - 150	13	15
n-Butylbenzene	20.0	20.98		ug/L		105	68 - 137	6	14
N-Propylbenzene	20.0	21.16		ug/L		106	70 - 134	2	14
o-Xylene	20.0	20.65		ug/L		103	70 - 130	0	11

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCSD 490-510390/5

Matrix: Water

Analysis Batch: 510390

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	20.0	21.38		ug/L		107	70 - 135	1	14
Styrene	20.0	19.82		ug/L		99	70 - 130	3	12
Tert-amyl methyl ether	20.0	17.81		ug/L		89	63 - 135	8	15
tert-Butyl alcohol (TBA)	200	185.2		ug/L		93	12 - 150	10	46
tert-Butylbenzene	20.0	20.83		ug/L		104	70 - 130	4	14
1,1,1,2-Tetrachloroethane	20.0	19.14		ug/L		96	70 - 130	3	13
1,1,2,2-Tetrachloroethane	20.0	19.50		ug/L		97	69 - 131	13	15
Tetrachloroethene	20.0	20.91		ug/L		105	70 - 130	0	17
Toluene	20.0	21.08		ug/L		105	70 - 130	0	13
trans-1,2-Dichloroethene	20.0	20.09		ug/L		100	70 - 130	13	15
trans-1,3-Dichloropropene	20.0	18.57		ug/L		93	63 - 142	4	13
1,2,3-Trichlorobenzene	20.0	20.09		ug/L		100	46 - 150	10	16
1,2,4-Trichlorobenzene	20.0	20.04		ug/L		100	58 - 147	10	15
1,1,1-Trichloroethane	20.0	19.84		ug/L		99	70 - 135	3	15
1,1,2-Trichloroethane	20.0	19.35		ug/L		97	70 - 130	8	13
Trichloroethene	20.0	20.72		ug/L		104	70 - 130	0	14
Trichlorofluoromethane	20.0	23.99		ug/L		120	59 - 150	2	22
1,2,3-Trichloropropane	20.0	20.11		ug/L		101	70 - 131	10	14
1,2,4-Trimethylbenzene	20.0	20.81		ug/L		104	70 - 130	3	13
1,3,5-Trimethylbenzene	20.0	21.15		ug/L		106	70 - 130	1	14
Vinyl chloride	20.0	21.87		ug/L		109	57 - 137	3	15
Xylenes, Total	40.0	41.55		ug/L		104	70 - 132	0	11

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: 490-150550-B-1 MS

Matrix: Water

Analysis Batch: 510390

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	3.60	J	100	110.6		ug/L		107	39 - 150
Benzene	ND		20.0	21.79		ug/L		109	55 - 147
Bromobenzene	ND		20.0	20.71		ug/L		104	60 - 133
Bromoform	ND		20.0	19.96		ug/L		100	53 - 150
Bromomethane	ND		20.0	13.83		ug/L		69	30 - 150
2-Butanone (MEK)	ND		100	97.55		ug/L		98	50 - 143
Carbon disulfide	ND		20.0	24.64		ug/L		123	35 - 150
Carbon tetrachloride	ND		20.0	21.55		ug/L		108	56 - 150
Chlorobenzene	ND		20.0	22.07		ug/L		110	70 - 130
Chlorobromomethane	ND		20.0	22.10		ug/L		110	59 - 132
Chlorodibromomethane	ND		20.0	20.14		ug/L		101	66 - 140
Chloroethane	ND		20.0	26.87		ug/L		134	58 - 141
Chloroform	ND		20.0	21.63		ug/L		108	66 - 138
Chloromethane	ND		20.0	20.75		ug/L		104	10 - 150

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: 490-150550-B-1 MS

Matrix: Water

Analysis Batch: 510390

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	ND		20.0	21.13		ug/L		106	67 - 138
4-Chlorotoluene	ND		20.0	20.93		ug/L		105	69 - 138
cis-1,2-Dichloroethene	ND		20.0	22.34		ug/L		112	68 - 131
cis-1,3-Dichloropropene	ND		20.0	21.33		ug/L		107	70 - 133
1,2-Dibromo-3-Chloropropane	ND		20.0	21.08		ug/L		105	38 - 138
Dibromomethane	ND		20.0	20.21		ug/L		101	70 - 130
1,2-Dichlorobenzene	ND		20.0	21.58		ug/L		108	70 - 130
1,3-Dichlorobenzene	ND		20.0	21.57		ug/L		108	68 - 131
1,4-Dichlorobenzene	ND		20.0	22.08		ug/L		110	70 - 130
Dichlorobromomethane	ND		20.0	22.14		ug/L		111	70 - 140
Dichlorodifluoromethane	ND		20.0	23.63		ug/L		118	10 - 150
1,1-Dichloroethane	ND		20.0	20.90		ug/L		105	61 - 139
1,1-Dichloroethene	ND		20.0	27.50		ug/L		137	54 - 150
1,2-Dichloropropane	ND		20.0	20.71		ug/L		104	67 - 130
1,3-Dichloropropane	ND		20.0	21.13		ug/L		106	70 - 130
2,2-Dichloropropane	ND		20.0	21.23		ug/L		106	50 - 146
1,1-Dichloropropene	ND		20.0	22.15		ug/L		111	54 - 150
Diisopropyl ether	ND		20.0	20.31		ug/L		102	56 - 142
EDB	ND		20.0	21.38		ug/L		107	65 - 137
EDC	ND		20.0	19.53		ug/L		98	64 - 136
Ethylbenzene	ND		20.0	22.18		ug/L		111	65 - 139
Ethyl tert-butyl ether	ND		20.0	20.49		ug/L		102	53 - 138
Hexachlorobutadiene	ND		20.0	19.07		ug/L		95	61 - 141
2-Hexanone	ND		100	107.2		ug/L		107	44 - 150
Isopropylbenzene	ND		20.0	22.22		ug/L		111	70 - 137
4-Isopropyltoluene	1.14		20.0	23.40		ug/L		111	66 - 137
Methylene Chloride	ND		20.0	24.86		ug/L		124	64 - 130
4-Methyl-2-pentanone (MIBK)	ND		100	107.7		ug/L		108	50 - 140
Methyl tert-butyl ether	ND	*	20.0	23.30		ug/L		116	55 - 141
m-Xylene & p-Xylene	ND		20.0	21.55		ug/L		108	70 - 130
Naphthalene	0.616	J B	20.0	21.53		ug/L		105	32 - 150
n-Butylbenzene	0.968	J	20.0	24.08		ug/L		116	61 - 141
N-Propylbenzene	0.291	J	20.0	22.53		ug/L		111	53 - 150
o-Xylene	ND		20.0	21.92		ug/L		110	70 - 131
sec-Butylbenzene	1.20		20.0	24.04		ug/L		114	55 - 136
Styrene	ND		20.0	22.07		ug/L		110	70 - 130
Tert-amyl methyl ether	ND		20.0	20.05		ug/L		100	47 - 148
tert-Butyl alcohol (TBA)	ND		200	185.7		ug/L		93	10 - 150
tert-Butylbenzene	ND		20.0	22.12		ug/L		111	70 - 138
1,1,1,2-Tetrachloroethane	ND		20.0	20.76		ug/L		104	70 - 131
1,1,2,2-Tetrachloroethane	ND		20.0	18.59		ug/L		93	56 - 145
Tetrachloroethene	ND		20.0	23.03		ug/L		115	57 - 138
Toluene	0.175	J	20.0	22.60		ug/L		112	64 - 136
trans-1,2-Dichloroethene	ND		20.0	25.04		ug/L		125	59 - 143
trans-1,3-Dichloropropene	ND		20.0	19.94		ug/L		100	63 - 142
1,2,3-Trichlorobenzene	ND		20.0	21.32		ug/L		107	36 - 150
1,2,4-Trichlorobenzene	ND		20.0	21.42		ug/L		107	47 - 147
1,1,1-Trichloroethane	ND		20.0	21.57		ug/L		108	68 - 144

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: 490-150550-B-1 MS

Matrix: Water

Analysis Batch: 510390

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	ND		20.0	22.48		ug/L		112	70 - 130
Trichloroethene	ND		20.0	22.98		ug/L		115	63 - 135
Trichlorofluoromethane	ND		20.0	28.07		ug/L		140	44 - 150
1,2,3-Trichloropropane	ND		20.0	24.40		ug/L		122	65 - 131
1,2,4-Trimethylbenzene	0.219	J	20.0	22.40		ug/L		111	64 - 136
1,3,5-Trimethylbenzene	0.359	J	20.0	21.54		ug/L		106	69 - 139
Vinyl chloride	ND		20.0	24.65		ug/L		123	57 - 150
Xylenes, Total	ND		40.0	43.47		ug/L		109	69 - 132

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: 490-150550-C-1 MSD

Matrix: Water

Analysis Batch: 510390

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	3.60	J	100	111.1		ug/L		108	39 - 150	0	28
Benzene	ND		20.0	22.26		ug/L		111	55 - 147	2	22
Bromobenzene	ND		20.0	20.63		ug/L		103	60 - 133	0	18
Bromoform	ND		20.0	20.42		ug/L		102	53 - 150	2	20
Bromomethane	ND		20.0	18.00		ug/L		90	30 - 150	26	44
2-Butanone (MEK)	ND		100	103.4		ug/L		103	50 - 143	6	28
Carbon disulfide	ND		20.0	24.67		ug/L		123	35 - 150	0	34
Carbon tetrachloride	ND		20.0	22.12		ug/L		111	56 - 150	3	18
Chlorobenzene	ND		20.0	22.01		ug/L		110	70 - 130	0	15
Chlorobromomethane	ND		20.0	21.88		ug/L		109	59 - 132	1	21
Chlorodibromomethane	ND		20.0	20.13		ug/L		101	66 - 140	0	19
Chloroethane	ND		20.0	26.84		ug/L		134	58 - 141	0	31
Chloroform	ND		20.0	21.95		ug/L		110	66 - 138	1	21
Chloromethane	ND		20.0	19.68		ug/L		98	10 - 150	5	43
2-Chlorotoluene	ND		20.0	21.06		ug/L		105	67 - 138	0	17
4-Chlorotoluene	ND		20.0	20.98		ug/L		105	69 - 138	0	15
cis-1,2-Dichloroethene	ND		20.0	22.42		ug/L		112	68 - 131	0	21
cis-1,3-Dichloropropene	ND		20.0	21.21		ug/L		106	70 - 133	1	19
1,2-Dibromo-3-Chloropropane	ND		20.0	20.99		ug/L		105	38 - 138	0	26
Dibromomethane	ND		20.0	20.46		ug/L		102	70 - 130	1	19
1,2-Dichlorobenzene	ND		20.0	21.69		ug/L		108	70 - 130	0	15
1,3-Dichlorobenzene	ND		20.0	21.43		ug/L		107	68 - 131	1	14
1,4-Dichlorobenzene	ND		20.0	22.10		ug/L		111	70 - 130	0	14
Dichlorobromomethane	ND		20.0	22.57		ug/L		113	70 - 140	2	196
Dichlorodifluoromethane	ND		20.0	23.19		ug/L		116	10 - 150	2	50
1,1-Dichloroethane	ND		20.0	22.39		ug/L		112	61 - 139	7	23
1,1-Dichloroethene	ND		20.0	26.90		ug/L		134	54 - 150	2	24
1,2-Dichloropropane	ND		20.0	21.33		ug/L		107	67 - 130	3	19

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: 490-150550-C-1 MSD

Matrix: Water

Analysis Batch: 510390

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichloropropane	ND		20.0	21.14		ug/L		106	70 - 130	0	17
2,2-Dichloropropane	ND		20.0	21.52		ug/L		108	50 - 146	1	20
1,1-Dichloropropene	ND		20.0	22.70		ug/L		114	54 - 150	2	24
Diisopropyl ether	ND		20.0	20.70		ug/L		104	56 - 142	2	22
EDB	ND		20.0	21.78		ug/L		109	65 - 137	2	21
EDC	ND		20.0	19.58		ug/L		98	64 - 136	0	22
Ethylbenzene	ND		20.0	22.44		ug/L		112	65 - 139	1	18
Ethyl tert-butyl ether	ND		20.0	20.91		ug/L		105	53 - 138	2	22
Hexachlorobutadiene	ND		20.0	20.56		ug/L		103	61 - 141	8	26
2-Hexanone	ND		100	108.3		ug/L		108	44 - 150	1	21
Isopropylbenzene	ND		20.0	22.21		ug/L		111	70 - 137	0	17
4-Isopropyltoluene	1.14		20.0	23.95		ug/L		114	66 - 137	2	16
Methylene Chloride	ND		20.0	25.35		ug/L		127	64 - 130	2	22
4-Methyl-2-pentanone (MIBK)	ND		100	107.2		ug/L		107	50 - 140	1	24
Methyl tert-butyl ether	ND	*	20.0	24.55		ug/L		123	55 - 141	5	24
m-Xylene & p-Xylene	ND		20.0	22.63		ug/L		113	70 - 130	5	17
Naphthalene	0.616	J B	20.0	22.05		ug/L		107	32 - 150	2	40
n-Butylbenzene	0.968	J	20.0	24.35		ug/L		117	61 - 141	1	17
N-Propylbenzene	0.291	J	20.0	22.65		ug/L		112	53 - 150	1	18
o-Xylene	ND		20.0	22.12		ug/L		111	70 - 131	1	17
sec-Butylbenzene	1.20		20.0	23.93		ug/L		114	55 - 136	0	50
Styrene	ND		20.0	21.86		ug/L		109	70 - 130	1	16
Tert-amyl methyl ether	ND		20.0	20.62		ug/L		103	47 - 148	3	23
tert-Butyl alcohol (TBA)	ND		200	208.2		ug/L		104	10 - 150	11	47
tert-Butylbenzene	ND		20.0	22.23		ug/L		111	70 - 138	1	17
1,1,1,2-Tetrachloroethane	ND		20.0	20.85		ug/L		104	70 - 131	0	16
1,1,2,2-Tetrachloroethane	ND		20.0	19.20		ug/L		96	56 - 145	3	19
Tetrachloroethene	ND		20.0	22.71		ug/L		114	57 - 138	1	17
Toluene	0.175	J	20.0	22.59		ug/L		112	64 - 136	0	18
trans-1,2-Dichloroethene	ND		20.0	24.57		ug/L		123	59 - 143	2	25
trans-1,3-Dichloropropene	ND		20.0	20.20		ug/L		101	63 - 142	1	18
1,2,3-Trichlorobenzene	ND		20.0	22.14		ug/L		111	36 - 150	4	43
1,2,4-Trichlorobenzene	ND		20.0	22.29		ug/L		111	47 - 147	4	24
1,1,1-Trichloroethane	ND		20.0	21.89		ug/L		109	68 - 144	1	17
1,1,2-Trichloroethane	ND		20.0	22.53		ug/L		113	70 - 130	0	18
Trichloroethene	ND		20.0	23.08		ug/L		115	63 - 135	0	17
Trichlorofluoromethane	ND		20.0	26.60		ug/L		133	44 - 150	5	32
1,2,3-Trichloropropane	ND		20.0	25.18		ug/L		126	65 - 131	3	19
1,2,4-Trimethylbenzene	0.219	J	20.0	21.75		ug/L		108	64 - 136	3	18
1,3,5-Trimethylbenzene	0.359	J	20.0	21.61		ug/L		106	69 - 139	0	17
Vinyl chloride	ND		20.0	25.22		ug/L		126	57 - 150	2	37
Xylenes, Total	ND		40.0	44.75		ug/L		112	69 - 132	3	17

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Toluene-d8 (Surr)	99		70 - 130

TestAmerica Nashville



# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

Lab Sample ID: MB 490-510576/9

Matrix: Solid

Analysis Batch: 510576

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0500	0.00840	mg/Kg			04/25/18 16:25	1
Benzene	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
Bromobenzene	ND		0.00200	0.000720	mg/Kg			04/25/18 16:25	1
Bromoform	ND		0.00200	0.000550	mg/Kg			04/25/18 16:25	1
Bromomethane	ND		0.00200	0.00120	mg/Kg			04/25/18 16:25	1
2-Butanone (MEK)	ND		0.0500	0.00510	mg/Kg			04/25/18 16:25	1
Carbon disulfide	ND		0.00500	0.00360	mg/Kg			04/25/18 16:25	1
Carbon tetrachloride	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
Chlorobenzene	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
Chlorobromomethane	ND		0.00200	0.000550	mg/Kg			04/25/18 16:25	1
Chlorodibromomethane	ND		0.00200	0.000340	mg/Kg			04/25/18 16:25	1
Chloroethane	ND		0.00500	0.00190	mg/Kg			04/25/18 16:25	1
Chloroform	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
Chloromethane	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
2-Chlorotoluene	ND		0.00200	0.000890	mg/Kg			04/25/18 16:25	1
4-Chlorotoluene	ND		0.00200	0.000840	mg/Kg			04/25/18 16:25	1
cis-1,2-Dichloroethene	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
cis-1,3-Dichloropropene	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
1,2-Dibromo-3-Chloropropane	ND		0.00500	0.000700	mg/Kg			04/25/18 16:25	1
Dibromomethane	ND		0.00200	0.000560	mg/Kg			04/25/18 16:25	1
1,2-Dichlorobenzene	ND		0.00200	0.000340	mg/Kg			04/25/18 16:25	1
1,3-Dichlorobenzene	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
1,4-Dichlorobenzene	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
Dichlorobromomethane	ND		0.00200	0.000550	mg/Kg			04/25/18 16:25	1
Dichlorodifluoromethane	ND		0.00200	0.00100	mg/Kg			04/25/18 16:25	1
1,1-Dichloroethane	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
1,1-Dichloroethene	ND		0.00200	0.000570	mg/Kg			04/25/18 16:25	1
1,2-Dichloropropane	ND		0.00200	0.000940	mg/Kg			04/25/18 16:25	1
1,3-Dichloropropane	ND		0.00200	0.000940	mg/Kg			04/25/18 16:25	1
2,2-Dichloropropane	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
1,1-Dichloropropene	ND		0.00200	0.000510	mg/Kg			04/25/18 16:25	1
Diisopropyl ether	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
EDB	ND		0.00200	0.00100	mg/Kg			04/25/18 16:25	1
EDC	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
Ethyl tert-butyl ether	ND		0.00500	0.00100	mg/Kg			04/25/18 16:25	1
Hexachlorobutadiene	ND		0.00500	0.00114	mg/Kg			04/25/18 16:25	1
2-Hexanone	ND		0.0500	0.0167	mg/Kg			04/25/18 16:25	1
Isopropylbenzene	ND		0.00200	0.000410	mg/Kg			04/25/18 16:25	1
4-Isopropyltoluene	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
Methylene Chloride	ND		0.0100	0.000860	mg/Kg			04/25/18 16:25	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500	0.00190	mg/Kg			04/25/18 16:25	1
Methyl tert-butyl ether	ND		0.00200	0.000960	mg/Kg			04/25/18 16:25	1
m-Xylene & p-Xylene	ND		0.00400	0.000560	mg/Kg			04/25/18 16:25	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			04/25/18 16:25	1
n-Butylbenzene	ND		0.00200	0.000980	mg/Kg			04/25/18 16:25	1
N-Propylbenzene	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
o-Xylene	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
sec-Butylbenzene	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
Styrene	ND		0.00200	0.00110	mg/Kg			04/25/18 16:25	1

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: MB 490-510576/9

Matrix: Solid

Analysis Batch: 510576

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl methyl ether	ND		0.00200	0.000310	mg/Kg			04/25/18 16:25	1
tert-Butyl alcohol (TBA)	ND		0.0500	0.0112	mg/Kg			04/25/18 16:25	1
tert-Butylbenzene	ND		0.00200	0.000900	mg/Kg			04/25/18 16:25	1
1,1,1,2-Tetrachloroethane	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
1,1,2,2-Tetrachloroethane	ND		0.00200	0.00100	mg/Kg			04/25/18 16:25	1
Tetrachloroethene	ND		0.00200	0.000730	mg/Kg			04/25/18 16:25	1
Toluene	ND		0.00200	0.000740	mg/Kg			04/25/18 16:25	1
trans-1,2-Dichloroethene	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
trans-1,3-Dichloropropene	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
1,2,3-Trichlorobenzene	ND		0.00200	0.000380	mg/Kg			04/25/18 16:25	1
1,2,4-Trichlorobenzene	ND		0.00200	0.000670	mg/Kg			04/25/18 16:25	1
1,1,1-Trichloroethane	ND		0.00200	0.000920	mg/Kg			04/25/18 16:25	1
1,1,2-Trichloroethane	ND		0.00500	0.00140	mg/Kg			04/25/18 16:25	1
Trichloroethene	ND		0.00200	0.000960	mg/Kg			04/25/18 16:25	1
Trichlorofluoromethane	ND		0.00200	0.00100	mg/Kg			04/25/18 16:25	1
1,2,3-Trichloropropane	ND		0.00200	0.000550	mg/Kg			04/25/18 16:25	1
1,2,4-Trimethylbenzene	ND		0.00200	0.00100	mg/Kg			04/25/18 16:25	1
1,3,5-Trimethylbenzene	ND		0.00200	0.000750	mg/Kg			04/25/18 16:25	1
Vinyl chloride	ND		0.00200	0.00110	mg/Kg			04/25/18 16:25	1
Xylenes, Total	ND		0.00600	0.00123	mg/Kg			04/25/18 16:25	1
Gasoline Range Organics [C6 - C10]	ND		0.400	0.200	mg/Kg			04/25/18 16:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130		04/25/18 16:25	1
Dibromofluoromethane (Surr)	96		70 - 130		04/25/18 16:25	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/25/18 16:25	1
Toluene-d8 (Surr)	103		70 - 130		04/25/18 16:25	1

Lab Sample ID: LCS 490-510576/3

Matrix: Solid

Analysis Batch: 510576

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.250	0.2428		mg/Kg		97	45 - 145
Benzene	0.0500	0.04716		mg/Kg		94	70 - 130
Bromobenzene	0.0500	0.05741		mg/Kg		115	67 - 130
Bromoform	0.0500	0.04519		mg/Kg		90	59 - 137
Bromomethane	0.0500	0.05065		mg/Kg		101	32 - 150
2-Butanone (MEK)	0.250	0.2555		mg/Kg		102	50 - 149
Carbon disulfide	0.0500	0.04916		mg/Kg		98	66 - 138
Carbon tetrachloride	0.0500	0.04718		mg/Kg		94	70 - 131
Chlorobenzene	0.0500	0.05300		mg/Kg		106	70 - 130
Chlorobromomethane	0.0500	0.04168		mg/Kg		83	70 - 133
Chlorodibromomethane	0.0500	0.04696		mg/Kg		94	70 - 130
Chloroethane	0.0500	0.04664		mg/Kg		93	37 - 150
Chloroform	0.0500	0.04487		mg/Kg		90	70 - 130
Chloromethane	0.0500	0.04628		mg/Kg		93	53 - 150
2-Chlorotoluene	0.0500	0.05895		mg/Kg		118	70 - 132

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCS 490-510576/3

Matrix: Solid

Analysis Batch: 510576

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	0.0500	0.05783		mg/Kg		116	67 - 135
cis-1,2-Dichloroethene	0.0500	0.04693		mg/Kg		94	70 - 132
cis-1,3-Dichloropropene	0.0500	0.05306		mg/Kg		106	70 - 130
1,2-Dibromo-3-Chloropropane	0.0500	0.05379		mg/Kg		108	47 - 144
Dibromomethane	0.0500	0.04112		mg/Kg		82	70 - 130
1,2-Dichlorobenzene	0.0500	0.05159		mg/Kg		103	70 - 134
1,3-Dichlorobenzene	0.0500	0.05404		mg/Kg		108	69 - 137
1,4-Dichlorobenzene	0.0500	0.05251		mg/Kg		105	66 - 134
Dichlorobromomethane	0.0500	0.04421		mg/Kg		88	70 - 130
Dichlorodifluoromethane	0.0500	0.04747		mg/Kg		95	32 - 150
1,1-Dichloroethane	0.0500	0.04667		mg/Kg		93	70 - 130
1,1-Dichloroethene	0.0500	0.04582		mg/Kg		92	70 - 131
1,2-Dichloropropane	0.0500	0.04505		mg/Kg		90	70 - 130
1,3-Dichloropropane	0.0500	0.04748		mg/Kg		95	70 - 130
2,2-Dichloropropane	0.0500	0.05037		mg/Kg		101	57 - 150
1,1-Dichloropropene	0.0500	0.05004		mg/Kg		100	70 - 130
Diisopropyl ether	0.0500	0.04666		mg/Kg		93	68 - 134
EDB	0.0500	0.04620		mg/Kg		92	69 - 130
EDC	0.0500	0.04039		mg/Kg		81	65 - 134
Ethylbenzene	0.0500	0.05344		mg/Kg		107	70 - 130
Ethyl tert-butyl ether	0.0500	0.04920		mg/Kg		98	19 - 150
Hexachlorobutadiene	0.0500	0.05822		mg/Kg		116	64 - 137
2-Hexanone	0.250	0.2747		mg/Kg		110	47 - 148
Isopropylbenzene	0.0500	0.05360		mg/Kg		107	70 - 130
4-Isopropyltoluene	0.0500	0.05791		mg/Kg		116	66 - 147
Methylene Chloride	0.0500	0.04486		mg/Kg		90	69 - 130
4-Methyl-2-pentanone (MIBK)	0.250	0.2562		mg/Kg		102	48 - 150
Methyl tert-butyl ether	0.0500	0.04102		mg/Kg		82	54 - 145
m-Xylene & p-Xylene	0.0500	0.05317		mg/Kg		106	70 - 130
Naphthalene	0.0500	0.05633		mg/Kg		113	55 - 149
n-Butylbenzene	0.0500	0.05774		mg/Kg		115	57 - 150
N-Propylbenzene	0.0500	0.05807		mg/Kg		116	62 - 150
o-Xylene	0.0500	0.05226		mg/Kg		105	70 - 130
sec-Butylbenzene	0.0500	0.05790		mg/Kg		116	68 - 147
Styrene	0.0500	0.05242		mg/Kg		105	70 - 131
Tert-amyl methyl ether	0.0500	0.04770		mg/Kg		95	10 - 150
tert-Butyl alcohol (TBA)	0.500	0.3778		mg/Kg		76	10 - 150
tert-Butylbenzene	0.0500	0.05760		mg/Kg		115	70 - 138
1,1,1,2-Tetrachloroethane	0.0500	0.05081		mg/Kg		102	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.05233		mg/Kg		105	61 - 134
Tetrachloroethene	0.0500	0.05212		mg/Kg		104	70 - 130
Toluene	0.0500	0.05208		mg/Kg		104	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04719		mg/Kg		94	70 - 130
trans-1,3-Dichloropropene	0.0500	0.05246		mg/Kg		105	67 - 130
1,2,3-Trichlorobenzene	0.0500	0.05644		mg/Kg		113	57 - 146
1,2,4-Trichlorobenzene	0.0500	0.05976		mg/Kg		120	47 - 150
1,1,1-Trichloroethane	0.0500	0.04640		mg/Kg		93	70 - 130
1,1,2-Trichloroethane	0.0500	0.04240		mg/Kg		85	70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCS 490-510576/3

Matrix: Solid

Analysis Batch: 510576

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	0.0500	0.04754		mg/Kg		95	70 - 130
Trichlorofluoromethane	0.0500	0.04565		mg/Kg		91	53 - 150
1,2,3-Trichloropropane	0.0500	0.04866		mg/Kg		97	60 - 139
1,2,4-Trimethylbenzene	0.0500	0.05759		mg/Kg		115	70 - 140
1,3,5-Trimethylbenzene	0.0500	0.05778		mg/Kg		116	69 - 141
Vinyl chloride	0.0500	0.05001		mg/Kg		100	63 - 150
Xylenes, Total	0.100	0.1054		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
Dibromofluoromethane (Surr)	91		70 - 130
1,2-Dichloroethane-d4 (Surr)	87		70 - 130
Toluene-d8 (Surr)	106		70 - 130

Lab Sample ID: LCS 490-510576/7

Matrix: Solid

Analysis Batch: 510576

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 [C6 - C10]	4.00	4.944		mg/Kg		124	65 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
Dibromofluoromethane (Surr)	91		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: LCSD 490-510576/4

Matrix: Solid

Analysis Batch: 510576

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
Acetone	0.250	0.2390		mg/Kg		96	45 - 145	2	38
Benzene	0.0500	0.05000		mg/Kg		100	70 - 130	6	37
Bromobenzene	0.0500	0.05836		mg/Kg		117	67 - 130	2	40
Bromoform	0.0500	0.04624		mg/Kg		92	59 - 137	2	17
Bromomethane	0.0500	0.05280		mg/Kg		106	32 - 150	4	45
2-Butanone (MEK)	0.250	0.2582		mg/Kg		103	50 - 149	1	39
Carbon disulfide	0.0500	0.05163		mg/Kg		103	66 - 138	5	41
Carbon tetrachloride	0.0500	0.05027		mg/Kg		101	70 - 131	6	41
Chlorobenzene	0.0500	0.05573		mg/Kg		111	70 - 130	5	40
Chlorobromomethane	0.0500	0.04316		mg/Kg		86	70 - 133	3	15
Chlorodibromomethane	0.0500	0.04823		mg/Kg		96	70 - 130	3	14
Chloroethane	0.0500	0.04826		mg/Kg		97	37 - 150	3	50
Chloroform	0.0500	0.04663		mg/Kg		93	70 - 130	4	15
Chloromethane	0.0500	0.04791		mg/Kg		96	53 - 150	3	47
2-Chlorotoluene	0.0500	0.05898		mg/Kg		118	70 - 132	0	41

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCSD 490-510576/4

Matrix: Solid

Analysis Batch: 510576

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
4-Chlorotoluene	0.0500	0.05977		mg/Kg		120	67 - 135	3	41
cis-1,2-Dichloroethene	0.0500	0.04877		mg/Kg		98	70 - 132	4	18
cis-1,3-Dichloropropene	0.0500	0.05496		mg/Kg		110	70 - 130	4	42
1,2-Dibromo-3-Chloropropane	0.0500	0.05283		mg/Kg		106	47 - 144	2	38
Dibromomethane	0.0500	0.04164		mg/Kg		83	70 - 130	1	19
1,2-Dichlorobenzene	0.0500	0.05271		mg/Kg		105	70 - 134	2	40
1,3-Dichlorobenzene	0.0500	0.05572		mg/Kg		111	69 - 137	3	41
1,4-Dichlorobenzene	0.0500	0.05390		mg/Kg		108	66 - 134	3	41
Dichlorobromomethane	0.0500	0.04634		mg/Kg		93	70 - 130	5	20
Dichlorodifluoromethane	0.0500	0.04893		mg/Kg		98	32 - 150	3	50
1,1-Dichloroethane	0.0500	0.04902		mg/Kg		98	70 - 130	5	42
1,1-Dichloroethene	0.0500	0.04798		mg/Kg		96	70 - 131	5	43
1,2-Dichloropropane	0.0500	0.04776		mg/Kg		96	70 - 130	6	15
1,3-Dichloropropane	0.0500	0.04861		mg/Kg		97	70 - 130	2	15
2,2-Dichloropropane	0.0500	0.05297		mg/Kg		106	57 - 150	5	42
1,1-Dichloropropene	0.0500	0.05298		mg/Kg		106	70 - 130	6	41
Diisopropyl ether	0.0500	0.04868		mg/Kg		97	68 - 134	4	36
EDB	0.0500	0.04740		mg/Kg		95	69 - 130	3	17
EDC	0.0500	0.04176		mg/Kg		84	65 - 134	3	16
Ethylbenzene	0.0500	0.05691		mg/Kg		114	70 - 130	6	38
Ethyl tert-butyl ether	0.0500	0.05136		mg/Kg		103	19 - 150	4	37
Hexachlorobutadiene	0.0500	0.06040		mg/Kg		121	64 - 137	4	44
2-Hexanone	0.250	0.2799		mg/Kg		112	47 - 148	2	38
Isopropylbenzene	0.0500	0.05637		mg/Kg		113	70 - 130	5	39
4-Isopropyltoluene	0.0500	0.06031		mg/Kg		121	66 - 147	4	38
Methylene Chloride	0.0500	0.04561		mg/Kg		91	69 - 130	2	19
4-Methyl-2-pentanone (MIBK)	0.250	0.2573		mg/Kg		103	48 - 150	0	41
Methyl tert-butyl ether	0.0500	0.04235		mg/Kg		85	54 - 145	3	36
m-Xylene & p-Xylene	0.0500	0.05646		mg/Kg		113	70 - 130	6	38
Naphthalene	0.0500	0.05649		mg/Kg		113	55 - 149	0	37
n-Butylbenzene	0.0500	0.05968		mg/Kg		119	57 - 150	3	39
N-Propylbenzene	0.0500	0.05967		mg/Kg		119	62 - 150	3	38
o-Xylene	0.0500	0.05508		mg/Kg		110	70 - 130	5	38
sec-Butylbenzene	0.0500	0.06011		mg/Kg		120	68 - 147	4	38
Styrene	0.0500	0.05490		mg/Kg		110	70 - 131	5	40
Tert-amyl methyl ether	0.0500	0.04794		mg/Kg		96	10 - 150	1	50
tert-Butyl alcohol (TBA)	0.500	0.4010		mg/Kg		80	10 - 150	6	50
tert-Butylbenzene	0.0500	0.06092		mg/Kg		122	70 - 138	6	38
1,1,1,2-Tetrachloroethane	0.0500	0.05361		mg/Kg		107	70 - 130	5	41
1,1,2,2-Tetrachloroethane	0.0500	0.05216		mg/Kg		104	61 - 134	0	16
Tetrachloroethene	0.0500	0.05521		mg/Kg		110	70 - 130	6	41
Toluene	0.0500	0.05483		mg/Kg		110	70 - 130	5	40
trans-1,2-Dichloroethene	0.0500	0.05190		mg/Kg		104	70 - 130	9	41
trans-1,3-Dichloropropene	0.0500	0.05357		mg/Kg		107	67 - 130	2	41
1,2,3-Trichlorobenzene	0.0500	0.05629		mg/Kg		113	57 - 146	0	42
1,2,4-Trichlorobenzene	0.0500	0.06151		mg/Kg		123	47 - 150	3	43
1,1,1-Trichloroethane	0.0500	0.04910		mg/Kg		98	70 - 130	6	41
1,1,2-Trichloroethane	0.0500	0.04387		mg/Kg		88	70 - 130	3	17

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCSD 490-510576/4

Matrix: Solid

Analysis Batch: 510576

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
Trichloroethene	0.0500	0.05013		mg/Kg		100	70 - 130	5	41
Trichlorofluoromethane	0.0500	0.04600		mg/Kg		92	53 - 150	1	49
1,2,3-Trichloropropane	0.0500	0.04798		mg/Kg		96	60 - 139	1	16
1,2,4-Trimethylbenzene	0.0500	0.05904		mg/Kg		118	70 - 140	2	38
1,3,5-Trimethylbenzene	0.0500	0.05898		mg/Kg		118	69 - 141	2	38
Vinyl chloride	0.0500	0.05249		mg/Kg		105	63 - 150	5	46
Xylenes, Total	0.100	0.1115		mg/Kg		112	70 - 130	6	38

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
Dibromofluoromethane (Surr)	90		70 - 130
1,2-Dichloroethane-d4 (Surr)	89		70 - 130
Toluene-d8 (Surr)	106		70 - 130

Lab Sample ID: MB 490-510617/10

Matrix: Solid

Analysis Batch: 510617

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50	2.00	mg/Kg			04/25/18 15:33	1
Benzene	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
Bromobenzene	ND		0.100	0.0360	mg/Kg			04/25/18 15:33	1
Bromoform	ND		0.100	0.0280	mg/Kg			04/25/18 15:33	1
Bromomethane	ND		0.100	0.0600	mg/Kg			04/25/18 15:33	1
2-Butanone (MEK)	ND		2.50	0.260	mg/Kg			04/25/18 15:33	1
Carbon disulfide	ND		0.250	0.180	mg/Kg			04/25/18 15:33	1
Carbon tetrachloride	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
Chlorobenzene	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
Chlorobromomethane	ND		0.100	0.0280	mg/Kg			04/25/18 15:33	1
Chlorodibromomethane	ND		0.100	0.0170	mg/Kg			04/25/18 15:33	1
Chloroethane	ND		0.250	0.0950	mg/Kg			04/25/18 15:33	1
Chloroform	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
Chloromethane	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
2-Chlorotoluene	ND		0.100	0.0460	mg/Kg			04/25/18 15:33	1
4-Chlorotoluene	ND		0.100	0.0420	mg/Kg			04/25/18 15:33	1
cis-1,2-Dichloroethene	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
cis-1,3-Dichloropropene	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
1,2-Dibromo-3-Chloropropane	ND		0.250	0.0350	mg/Kg			04/25/18 15:33	1
Dibromomethane	ND		0.100	0.0280	mg/Kg			04/25/18 15:33	1
1,2-Dichlorobenzene	ND		0.100	0.0170	mg/Kg			04/25/18 15:33	1
1,3-Dichlorobenzene	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
1,4-Dichlorobenzene	ND		0.100	0.0470	mg/Kg			04/25/18 15:33	1
Dichlorobromomethane	ND		0.100	0.0280	mg/Kg			04/25/18 15:33	1
Dichlorodifluoromethane	NC		0.100	0.0500	mg/Kg			04/25/18 15:33	1
1,1-Dichloroethane	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
1,1-Dichloroethene	ND		0.100	0.0290	mg/Kg			04/25/18 15:33	1
1,2-Dichloropropane	ND		0.100	0.0470	mg/Kg			04/25/18 15:33	1
1,3-Dichloropropane	ND		0.100	0.0470	mg/Kg			04/25/18 15:33	1

TestAmerica Nashville



# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: MB 490-510617/10

Matrix: Solid

Analysis Batch: 510617

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
1,1-Dichloropropene	ND		0.100	0.0260	mg/Kg			04/25/18 15:33	1
Diisopropyl ether	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
EDB	ND		0.100	0.0500	mg/Kg			04/25/18 15:33	1
EDC	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
Ethylbenzene	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
Ethyl tert-butyl ether	ND		0.250	0.0500	mg/Kg			04/25/18 15:33	1
Hexachlorobutadiene	ND		0.250	0.0550	mg/Kg			04/25/18 15:33	1
2-Hexanone	ND		2.50	0.840	mg/Kg			04/25/18 15:33	1
Isopropylbenzene	ND		0.100	0.0210	mg/Kg			04/25/18 15:33	1
4-Isopropyltoluene	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
Methylene Chloride	NC		0.500	0.0500	mg/Kg			04/25/18 15:33	1
4-Methyl-2-pentanone (MIBK)	ND		2.50	0.850	mg/Kg			04/25/18 15:33	1
Methyl tert-butyl ether	ND		0.100	0.0500	mg/Kg			04/25/18 15:33	1
m-Xylene & p-Xylene	ND		0.200	0.0280	mg/Kg			04/25/18 15:33	1
Naphthalene	ND		0.250	0.0850	mg/Kg			04/25/18 15:33	1
n-Butylbenzene	ND		0.100	0.0500	mg/Kg			04/25/18 15:33	1
N-Propylbenzene	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
o-Xylene	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
sec-Butylbenzene	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
Styrene	ND		0.100	0.0550	mg/Kg			04/25/18 15:33	1
Tert-amyl methyl ether	ND		0.100	0.0160	mg/Kg			04/25/18 15:33	1
tert-Butyl alcohol (TBA)	ND		2.50	0.560	mg/Kg			04/25/18 15:33	1
tert-Butylbenzene	ND		0.100	0.0500	mg/Kg			04/25/18 15:33	1
1,1,1,2-Tetrachloroethane	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
1,1,2,2-Tetrachloroethane	ND		0.100	0.0500	mg/Kg			04/25/18 15:33	1
Tetrachloroethene	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
Toluene	ND		0.100	0.0370	mg/Kg			04/25/18 15:33	1
trans-1,2-Dichloroethene	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
trans-1,3-Dichloropropene	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
1,2,3-Trichlorobenzene	ND		0.100	0.0190	mg/Kg			04/25/18 15:33	1
1,2,4-Trichlorobenzene	ND		0.100	0.0340	mg/Kg			04/25/18 15:33	1
1,1,1-Trichloroethane	ND		0.100	0.0460	mg/Kg			04/25/18 15:33	1
1,1,2-Trichloroethane	ND		0.250	0.0700	mg/Kg			04/25/18 15:33	1
Trichloroethene	ND		0.100	0.0500	mg/Kg			04/25/18 15:33	1
Trichlorofluoromethane	ND		0.100	0.0500	mg/Kg			04/25/18 15:33	1
1,2,3-Trichloropropane	ND		0.100	0.0280	mg/Kg			04/25/18 15:33	1
1,2,4-Trimethylbenzene	ND		0.100	0.0500	mg/Kg			04/25/18 15:33	1
1,3,5-Trimethylbenzene	ND		0.100	0.0380	mg/Kg			04/25/18 15:33	1
Vinyl chloride	ND		0.100	0.0550	mg/Kg			04/25/18 15:33	1
Xylenes, Total	ND		0.300	0.0620	mg/Kg			04/25/18 15:33	1
Gasoline Range Organics [C6 - C10]	ND		20.0	10.0	mg/Kg			04/25/18 15:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		04/25/18 15:33	1
Dibromofluoromethane (Surr)	94		70 - 130		04/25/18 15:33	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		04/25/18 15:33	1
Toluene-d8 (Surr)	99		70 - 130		04/25/18 15:33	1

TestAmerica Nashville



# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

Lab Sample ID: LCS 490-510617/3

Matrix: Solid

Analysis Batch: 510617

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05036		mg/Kg		101	70 - 130
Diisopropyl ether	0.0500	0.05122		mg/Kg		102	68 - 134
EDB	0.0500	0.04618		mg/Kg		92	69 - 130
EDC	0.0500	0.04388		mg/Kg		88	65 - 134
Ethylbenzene	0.0500	0.04675		mg/Kg		93	70 - 130
Ethyl tert-butyl ether	0.0500	0.04478		mg/Kg		90	19 - 150
Isopropylbenzene	0.0500	0.04688		mg/Kg		94	70 - 130
4-Isopropyltoluene	0.0500	0.04960		mg/Kg		99	66 - 147
Methyl tert-butyl ether	0.0500	0.04271		mg/Kg		85	54 - 145
m-Xylene & p-Xylene	0.100	0.09255		mg/Kg		93	70 - 130
Naphthalene	0.0500	0.04769		mg/Kg		95	55 - 149
n-Butylbenzene	0.0500	0.05031		mg/Kg		101	57 - 150
N-Propylbenzene	0.0500	0.04854		mg/Kg		97	62 - 150
o-Xylene	0.0500	0.04622		mg/Kg		92	70 - 130
sec-Butylbenzene	0.0500	0.04957		mg/Kg		99	68 - 147
Tert-amyl methyl ether	0.0500	0.04316		mg/Kg		86	10 - 150
tert-Butyl alcohol (TBA)	0.500	0.5506		mg/Kg		110	10 - 150
tert-Butylbenzene	0.0500	0.04936		mg/Kg		99	70 - 138
Toluene	0.0500	0.04848		mg/Kg		97	70 - 130
1,2,4-Trimethylbenzene	0.0500	0.04869		mg/Kg		97	70 - 140
1,3,5-Trimethylbenzene	0.0500	0.04885		mg/Kg		98	69 - 141
Xylenes, Total	0.150	0.1388		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCS 490-510617/8

Matrix: Solid

Analysis Batch: 510617

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 [C6 - C10]	100	100.7		mg/Kg		101	65 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	89		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 490-510617/4

Matrix: Solid

Analysis Batch: 510617

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05019		mg/Kg		100	70 - 130	0	37
Diisopropyl ether	0.0500	0.05123		mg/Kg		102	68 - 134	0	36

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCSD 490-510617/4

Matrix: Solid

Analysis Batch: 510617

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
EDB	0.0500	0.04662		mg/Kg		93	69 - 130	1	17
EDC	0.0500	0.04358		mg/Kg		87	65 - 134	1	16
Ethylbenzene	0.0500	0.04682		mg/Kg		94	70 - 130	0	38
Ethyl tert-butyl ether	0.0500	0.04489		mg/Kg		90	19 - 150	0	37
Isopropylbenzene	0.0500	0.04673		mg/Kg		93	70 - 130	0	39
4-Isopropyltoluene	0.0500	0.04985		mg/Kg		100	66 - 147	0	38
Methyl tert-butyl ether	0.0500	0.04363		mg/Kg		87	54 - 145	2	36
m-Xylene & p-Xylene	0.100	0.09242		mg/Kg		92	70 - 130	0	38
Naphthalene	0.0500	0.04940		mg/Kg		99	55 - 149	4	37
n-Butylbenzene	0.0500	0.05012		mg/Kg		100	57 - 150	0	39
N-Propylbenzene	0.0500	0.04854		mg/Kg		97	62 - 150	0	38
o-Xylene	0.0500	0.04624		mg/Kg		92	70 - 130	0	38
sec-Butylbenzene	0.0500	0.04972		mg/Kg		99	68 - 147	0	38
Tert-amyl methyl ether	0.0500	0.04326		mg/Kg		87	10 - 150	0	50
tert-Butyl alcohol (TBA)	0.500	0.5351		mg/Kg		107	10 - 150	3	50
tert-Butylbenzene	0.0500	0.04938		mg/Kg		99	70 - 138	0	38
Toluene	0.0500	0.04847		mg/Kg		97	70 - 130	0	40
1,2,4-Trimethylbenzene	0.0500	0.04873		mg/Kg		97	70 - 140	0	38
1,3,5-Trimethylbenzene	0.0500	0.04880		mg/Kg		98	69 - 141	0	38
Xylenes, Total	0.150	0.1387		mg/Kg		92	70 - 130	0	38

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: MB 490-510643/8

Matrix: Solid

Analysis Batch: 510643

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50	2.00	mg/Kg			04/25/18 15:19	1
Benzene	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
Bromobenzene	ND		0.100	0.0360	mg/Kg			04/25/18 15:19	1
Bromoform	ND		0.100	0.0280	mg/Kg			04/25/18 15:19	1
Bromomethane	ND		0.100	0.0600	mg/Kg			04/25/18 15:19	1
2-Butanone (MEK)	ND		2.50	0.260	mg/Kg			04/25/18 15:19	1
Carbon disulfide	ND		0.250	0.180	mg/Kg			04/25/18 15:19	1
Carbon tetrachloride	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
Chlorobenzene	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
Chlorobromomethane	ND		0.100	0.0280	mg/Kg			04/25/18 15:19	1
Chlorodibromomethane	ND		0.100	0.0170	mg/Kg			04/25/18 15:19	1
Chloroethane	ND		0.250	0.0950	mg/Kg			04/25/18 15:19	1
Chloroform	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
Chloromethane	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
2-Chlorotoluene	ND		0.100	0.0460	mg/Kg			04/25/18 15:19	1
4-Chlorotoluene	ND		0.100	0.0420	mg/Kg			04/25/18 15:19	1

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: MB 490-510643/8

Matrix: Solid

Analysis Batch: 510643

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
cis-1,3-Dichloropropene	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
1,2-Dibromo-3-Chloropropane	ND		0.250	0.0350	mg/Kg			04/25/18 15:19	1
Dibromomethane	ND		0.100	0.0280	mg/Kg			04/25/18 15:19	1
1,2-Dichlorobenzene	ND		0.100	0.0170	mg/Kg			04/25/18 15:19	1
1,3-Dichlorobenzene	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
1,4-Dichlorobenzene	ND		0.100	0.0470	mg/Kg			04/25/18 15:19	1
Dichlorobromomethane	ND		0.100	0.0280	mg/Kg			04/25/18 15:19	1
Dichlorodifluoromethane	ND		0.100	0.0500	mg/Kg			04/25/18 15:19	1
1,1-Dichloroethane	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
1,1-Dichloroethene	ND		0.100	0.0290	mg/Kg			04/25/18 15:19	1
1,2-Dichloropropane	ND		0.100	0.0470	mg/Kg			04/25/18 15:19	1
1,3-Dichloropropane	ND		0.100	0.0470	mg/Kg			04/25/18 15:19	1
2,2-Dichloropropane	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
1,1-Dichloropropene	ND		0.100	0.0260	mg/Kg			04/25/18 15:19	1
Diisopropyl ether	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
EDB	ND		0.100	0.0500	mg/Kg			04/25/18 15:19	1
EDC	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
Ethylbenzene	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
Ethyl tert-butyl ether	ND		0.250	0.0500	mg/Kg			04/25/18 15:19	1
Hexachlorobutadiene	ND		0.250	0.0550	mg/Kg			04/25/18 15:19	1
2-Hexanone	ND		2.50	0.840	mg/Kg			04/25/18 15:19	1
Isopropylbenzene	ND		0.100	0.0210	mg/Kg			04/25/18 15:19	1
4-Isopropyltoluene	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
Methylene Chloride	ND		0.500	0.0500	mg/Kg			04/25/18 15:19	1
4-Methyl-2-pentanone (MIBK)	ND		2.50	0.850	mg/Kg			04/25/18 15:19	1
Methyl tert-butyl ether	ND		0.100	0.0500	mg/Kg			04/25/18 15:19	1
m-Xylene & p-Xylene	ND		0.200	0.0280	mg/Kg			04/25/18 15:19	1
Naphthalene	ND		0.250	0.0850	mg/Kg			04/25/18 15:19	1
n-Butylbenzene	ND		0.100	0.0500	mg/Kg			04/25/18 15:19	1
N-Propylbenzene	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
o-Xylene	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
sec-Butylbenzene	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
Styrene	ND		0.100	0.0550	mg/Kg			04/25/18 15:19	1
Tert-amyl methyl ether	ND		0.100	0.0160	mg/Kg			04/25/18 15:19	1
tert-Butyl alcohol (TBA)	ND		2.50	0.560	mg/Kg			04/25/18 15:19	1
tert-Butylbenzene	ND		0.100	0.0500	mg/Kg			04/25/18 15:19	1
1,1,1,2-Tetrachloroethane	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
1,1,2,2-Tetrachloroethane	ND		0.100	0.0500	mg/Kg			04/25/18 15:19	1
Tetrachloroethene	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
Toluene	ND		0.100	0.0370	mg/Kg			04/25/18 15:19	1
trans-1,2-Dichloroethene	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
trans-1,3-Dichloropropene	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
1,2,3-Trichlorobenzene	ND		0.100	0.0190	mg/Kg			04/25/18 15:19	1
1,2,4-Trichlorobenzene	ND		0.100	0.0340	mg/Kg			04/25/18 15:19	1
1,1,1-Trichloroethane	ND		0.100	0.0460	mg/Kg			04/25/18 15:19	1
1,1,2-Trichloroethane	ND		0.250	0.0700	mg/Kg			04/25/18 15:19	1
Trichloroethene	ND		0.100	0.0500	mg/Kg			04/25/18 15:19	1

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: MB 490-510643/8

Matrix: Solid

Analysis Batch: 510643

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		0.100	0.0500	mg/Kg			04/25/18 15:19	1
1,2,3-Trichloropropane	ND		0.100	0.0280	mg/Kg			04/25/18 15:19	1
1,2,4-Trimethylbenzene	ND		0.100	0.0500	mg/Kg			04/25/18 15:19	1
1,3,5-Trimethylbenzene	ND		0.100	0.0380	mg/Kg			04/25/18 15:19	1
Vinyl chloride	ND		0.100	0.0550	mg/Kg			04/25/18 15:19	1
Xylenes, Total	ND		0.300	0.0620	mg/Kg			04/25/18 15:19	1
Gasoline Range Organics [C6 - C10]	ND		20.0	10.0	mg/Kg			04/25/18 15:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130					04/25/18 15:19	1
Dibromofluoromethane (Surr)	104		70 - 130					04/25/18 15:19	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130					04/25/18 15:19	1
Toluene-d8 (Surr)	98		70 - 130					04/25/18 15:19	1

Lab Sample ID: LCS 490-510643/5

Matrix: Solid

Analysis Batch: 510643

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	5.00	5.764		mg/Kg		115	45 - 145
Benzene	1.00	0.9600		mg/Kg		96	70 - 130
Bromobenzene	1.00	0.8953		mg/Kg		90	67 - 130
Bromoform	1.00	0.8646		mg/Kg		86	59 - 137
Bromomethane	1.00	0.6129		mg/Kg		61	32 - 150
2-Butanone (MEK)	5.00	5.498		mg/Kg		110	50 - 149
Carbon disulfide	1.00	0.8914		mg/Kg		89	66 - 138
Carbon tetrachloride	1.00	0.8805		mg/Kg		88	70 - 131
Chlorobenzene	1.00	0.9628		mg/Kg		96	70 - 130
Chlorobromomethane	1.00	1.038		mg/Kg		104	70 - 133
Chlorodibromomethane	1.00	0.9360		mg/Kg		94	70 - 130
Chloroethane	1.00	0.6327		mg/Kg		63	37 - 150
Chloroform	1.00	0.9506		mg/Kg		95	70 - 130
Chloromethane	1.00	1.011		mg/Kg		101	53 - 150
2-Chlorotoluene	1.00	0.8987		mg/Kg		90	70 - 132
4-Chlorotoluene	1.00	0.9126		mg/Kg		91	67 - 135
cis-1,2-Dichloroethene	1.00	0.9842		mg/Kg		98	70 - 132
cis-1,3-Dichloropropene	1.00	0.8668		mg/Kg		87	70 - 130
1,2-Dibromo-3-Chloropropane	1.00	0.8177		mg/Kg		82	47 - 144
Dibromomethane	1.00	1.021		mg/Kg		102	70 - 130
1,2-Dichlorobenzene	1.00	0.9094		mg/Kg		91	70 - 134
1,3-Dichlorobenzene	1.00	0.9316		mg/Kg		93	69 - 137
1,4-Dichlorobenzene	1.00	0.9366		mg/Kg		94	66 - 134
Dichlorobromomethane	1.00	0.9598		mg/Kg		96	70 - 130
Dichlorodifluoromethane	1.00	0.9669		mg/Kg		97	32 - 150
1,1-Dichloroethane	1.00	0.9064		mg/Kg		91	70 - 130
1,1-Dichloroethene	1.00	0.9543		mg/Kg		95	70 - 131
1,2-Dichloropropane	1.00	0.9640		mg/Kg		96	70 - 130
1,3-Dichloropropane	1.00	0.9690		mg/Kg		97	70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCS 490-510643/5

Matrix: Solid

Analysis Batch: 510643

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	1.00	0.8745		mg/Kg		87	57 - 150
1,1-Dichloropropene	1.00	0.9183		mg/Kg		92	70 - 130
Diisopropyl ether	1.00	0.9289		mg/Kg		93	68 - 134
EDB	1.00	0.9374		mg/Kg		94	69 - 130
EDC	1.00	0.9332		mg/Kg		93	65 - 134
Ethylbenzene	1.00	0.9140		mg/Kg		91	70 - 130
Ethyl tert-butyl ether	1.00	0.9042		mg/Kg		90	19 - 150
Hexachlorobutadiene	1.00	0.9699		mg/Kg		97	64 - 137
2-Hexanone	5.00	5.195		mg/Kg		104	47 - 148
Isopropylbenzene	1.00	0.8873		mg/Kg		89	70 - 130
4-Isopropyltoluene	1.00	0.9015		mg/Kg		90	66 - 147
Methylene Chloride	1.00	0.9644		mg/Kg		96	69 - 130
4-Methyl-2-pentanone (MIBK)	5.00	5.197		mg/Kg		104	48 - 150
Methyl tert-butyl ether	1.00	0.9414		mg/Kg		94	54 - 145
m-Xylene & p-Xylene	1.00	0.8951		mg/Kg		90	70 - 130
Naphthalene	1.00	0.8184		mg/Kg		82	55 - 149
n-Butylbenzene	1.00	0.8769		mg/Kg		88	57 - 150
N-Propylbenzene	1.00	0.9184		mg/Kg		92	62 - 150
o-Xylene	1.00	0.8852		mg/Kg		89	70 - 130
sec-Butylbenzene	1.00	0.8847		mg/Kg		88	68 - 147
Styrene	1.00	0.9213		mg/Kg		92	70 - 131
Tert-amyl methyl ether	1.00	0.9678		mg/Kg		97	10 - 150
tert-Butyl alcohol (TBA)	10.0	9.838		mg/Kg		98	10 - 150
tert-Butylbenzene	1.00	0.8892		mg/Kg		89	70 - 138
1,1,1,2-Tetrachloroethane	1.00	0.9410		mg/Kg		94	70 - 130
1,1,2,2-Tetrachloroethane	1.00	0.9599		mg/Kg		96	61 - 134
Tetrachloroethene	1.00	0.9135		mg/Kg		91	70 - 130
Toluene	1.00	0.9076		mg/Kg		91	70 - 130
trans-1,2-Dichloroethene	1.00	0.9300		mg/Kg		93	70 - 130
trans-1,3-Dichloropropene	1.00	0.8514		mg/Kg		85	67 - 130
1,2,3-Trichlorobenzene	1.00	0.8947		mg/Kg		89	57 - 146
1,2,4-Trichlorobenzene	1.00	0.8505		mg/Kg		85	47 - 150
1,1,1-Trichloroethane	1.00	0.9148		mg/Kg		91	70 - 130
1,1,2-Trichloroethane	1.00	1.020		mg/Kg		102	70 - 130
Trichloroethene	1.00	1.003		mg/Kg		100	70 - 130
Trichlorofluoromethane	1.00	0.9254		mg/Kg		93	53 - 150
1,2,3-Trichloropropane	1.00	0.9688		mg/Kg		97	60 - 139
1,2,4-Trimethylbenzene	1.00	0.9017		mg/Kg		90	70 - 140
1,3,5-Trimethylbenzene	1.00	0.8926		mg/Kg		89	69 - 141
Vinyl chloride	1.00	0.9681		mg/Kg		97	63 - 150
Xylenes, Total	2.00	1.780		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
Toluene-d8 (Surr)	96		70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCSD 490-510643/6

Matrix: Solid

Analysis Batch: 510643

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
Acetone	5.00	6.051		mg/Kg		121	45 - 145	5	38
Benzene	1.00	0.9341		mg/Kg		93	70 - 130	3	37
Bromobenzene	1.00	0.8769		mg/Kg		88	67 - 130	2	40
Bromoform	1.00	0.8726		mg/Kg		87	59 - 137	1	17
Bromomethane	1.00	0.5684		mg/Kg		57	32 - 150	8	45
2-Butanone (MEK)	5.00	6.029		mg/Kg		121	50 - 149	9	39
Carbon disulfide	1.00	0.8506		mg/Kg		85	66 - 138	5	41
Carbon tetrachloride	1.00	0.8421		mg/Kg		84	70 - 131	4	41
Chlorobenzene	1.00	0.9567		mg/Kg		96	70 - 130	1	40
Chlorobromomethane	1.00	1.046		mg/Kg		105	70 - 133	1	15
Chlorodibromomethane	1.00	0.9554		mg/Kg		96	70 - 130	2	14
Chloroethane	1.00	0.4506		mg/Kg		45	37 - 150	34	50
Chloroform	1.00	0.9316		mg/Kg		93	70 - 130	2	15
Chloromethane	1.00	0.9907		mg/Kg		99	53 - 150	2	47
2-Chlorotoluene	1.00	0.8937		mg/Kg		89	70 - 132	1	41
4-Chlorotoluene	1.00	0.8844		mg/Kg		88	67 - 135	3	41
cis-1,2-Dichloroethene	1.00	0.9740		mg/Kg		97	70 - 132	1	18
cis-1,3-Dichloropropene	1.00	0.8704		mg/Kg		87	70 - 130	0	42
1,2-Dibromo-3-Chloropropane	1.00	0.8288		mg/Kg		83	47 - 144	1	38
Dibromomethane	1.00	1.041		mg/Kg		104	70 - 130	2	19
1,2-Dichlorobenzene	1.00	0.8990		mg/Kg		90	70 - 134	1	40
1,3-Dichlorobenzene	1.00	0.9151		mg/Kg		92	69 - 137	2	41
1,4-Dichlorobenzene	1.00	0.8951		mg/Kg		90	66 - 134	5	41
Dichlorobromomethane	1.00	0.9667		mg/Kg		97	70 - 130	1	20
Dichlorodifluoromethane	1.00	0.9512		mg/Kg		95	32 - 150	2	50
1,1-Dichloroethane	1.00	0.8842		mg/Kg		88	70 - 130	2	42
1,1-Dichloroethene	1.00	0.8661		mg/Kg		87	70 - 131	10	43
1,2-Dichloropropane	1.00	0.9564		mg/Kg		96	70 - 130	1	15
1,3-Dichloropropane	1.00	0.9954		mg/Kg		100	70 - 130	3	15
2,2-Dichloropropane	1.00	0.8379		mg/Kg		84	57 - 150	4	42
1,1-Dichloropropene	1.00	0.8863		mg/Kg		89	70 - 130	4	41
Diisopropyl ether	1.00	0.9242		mg/Kg		92	68 - 134	0	36
EDB	1.00	0.9650		mg/Kg		96	69 - 130	3	17
EDC	1.00	0.9385		mg/Kg		94	65 - 134	1	16
Ethylbenzene	1.00	0.9067		mg/Kg		91	70 - 130	1	38
Ethyl tert-butyl ether	1.00	0.9110		mg/Kg		91	19 - 150	1	37
Hexachlorobutadiene	1.00	0.9320		mg/Kg		93	64 - 137	4	44
2-Hexanone	5.00	5.649		mg/Kg		113	47 - 148	8	38
Isopropylbenzene	1.00	0.8923		mg/Kg		89	70 - 130	1	39
4-Isopropyltoluene	1.00	0.8826		mg/Kg		88	66 - 147	2	38
Methylene Chloride	1.00	0.9437		mg/Kg		94	69 - 130	2	19
4-Methyl-2-pentanone (MIBK)	5.00	5.549		mg/Kg		111	48 - 150	7	41
Methyl tert-butyl ether	1.00	0.9444		mg/Kg		94	54 - 145	0	36
m-Xylene & p-Xylene	1.00	0.8880		mg/Kg		89	70 - 130	1	38
Naphthalene	1.00	0.8305		mg/Kg		83	55 - 149	1	37
n-Butylbenzene	1.00	0.8523		mg/Kg		85	57 - 150	3	39
N-Propylbenzene	1.00	0.8795		mg/Kg		88	62 - 150	4	38
o-Xylene	1.00	0.8935		mg/Kg		89	70 - 130	1	38

TestAmerica Nashville



# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCSD 490-510643/6

Matrix: Solid

Analysis Batch: 510643

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	1.00	0.8577		mg/Kg		86	68 - 147	3	38
Styrene	1.00	0.9232		mg/Kg		92	70 - 131	0	40
Tert-amyl methyl ether	1.00	0.9897		mg/Kg		99	10 - 150	2	50
tert-Butyl alcohol (TBA)	10.0	11.06		mg/Kg		111	10 - 150	12	50
tert-Butylbenzene	1.00	0.8627		mg/Kg		86	70 - 138	3	38
1,1,1,2-Tetrachloroethane	1.00	0.9470		mg/Kg		95	70 - 130	1	41
1,1,2,2-Tetrachloroethane	1.00	0.9627		mg/Kg		96	61 - 134	0	16
Tetrachloroethene	1.00	0.8877		mg/Kg		89	70 - 130	3	41
Toluene	1.00	0.8893		mg/Kg		89	70 - 130	2	40
trans-1,2-Dichloroethene	1.00	0.8922		mg/Kg		89	70 - 130	4	41
trans-1,3-Dichloropropene	1.00	0.8618		mg/Kg		86	67 - 130	1	41
1,2,3-Trichlorobenzene	1.00	0.8981		mg/Kg		90	57 - 146	0	42
1,2,4-Trichlorobenzene	1.00	0.8480		mg/Kg		85	47 - 150	0	43
1,1,1-Trichloroethane	1.00	0.8877		mg/Kg		89	70 - 130	3	41
1,1,2-Trichloroethane	1.00	1.046		mg/Kg		105	70 - 130	2	17
Trichloroethene	1.00	0.9723		mg/Kg		97	70 - 130	3	41
Trichlorofluoromethane	1.00	0.6595		mg/Kg		66	53 - 150	34	49
1,2,3-Trichloropropane	1.00	0.9889		mg/Kg		99	60 - 139	2	16
1,2,4-Trimethylbenzene	1.00	0.8783		mg/Kg		88	70 - 140	3	38
1,3,5-Trimethylbenzene	1.00	0.8779		mg/Kg		88	69 - 141	2	38
Vinyl chloride	1.00	0.9736		mg/Kg		97	63 - 150	1	46
Xylenes, Total	2.00	1.782		mg/Kg		89	70 - 130	0	38

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: MB 490-510907/9

Matrix: Solid

Analysis Batch: 510907

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2.50	2.00	mg/Kg			04/26/18 18:07	1
Benzene	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
Bromobenzene	ND		0.100	0.0360	mg/Kg			04/26/18 18:07	1
Bromoform	ND		0.100	0.0280	mg/Kg			04/26/18 18:07	1
Bromomethane	ND		0.100	0.0600	mg/Kg			04/26/18 18:07	1
2-Butanone (MEK)	ND		2.50	0.260	mg/Kg			04/26/18 18:07	1
Carbon disulfide	ND		0.250	0.180	mg/Kg			04/26/18 18:07	1
Carbon tetrachloride	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
Chlorobenzene	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
Chlorobromomethane	ND		0.100	0.0280	mg/Kg			04/26/18 18:07	1
Chlorodibromomethane	ND		0.100	0.0170	mg/Kg			04/26/18 18:07	1
Chloroethane	ND		0.250	0.0950	mg/Kg			04/26/18 18:07	1
Chloroform	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
Chloromethane	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1

TestAmerica Nashville



# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: MB 490-510907/9

Matrix: Solid

Analysis Batch: 510907

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		0.100	0.0460	mg/Kg			04/26/18 18:07	1
4-Chlorotoluene	ND		0.100	0.0420	mg/Kg			04/26/18 18:07	1
cis-1,2-Dichloroethene	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
cis-1,3-Dichloropropene	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
1,2-Dibromo-3-Chloropropane	ND		0.250	0.0350	mg/Kg			04/26/18 18:07	1
Dibromomethane	ND		0.100	0.0280	mg/Kg			04/26/18 18:07	1
1,2-Dichlorobenzene	ND		0.100	0.0170	mg/Kg			04/26/18 18:07	1
1,3-Dichlorobenzene	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
1,4-Dichlorobenzene	ND		0.100	0.0470	mg/Kg			04/26/18 18:07	1
Dichlorobromomethane	ND		0.100	0.0280	mg/Kg			04/26/18 18:07	1
Dichlorodifluoromethane	ND		0.100	0.0500	mg/Kg			04/26/18 18:07	1
1,1-Dichloroethane	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
1,1-Dichloroethene	ND		0.100	0.0290	mg/Kg			04/26/18 18:07	1
1,2-Dichloropropane	ND		0.100	0.0470	mg/Kg			04/26/18 18:07	1
1,3-Dichloropropane	ND		0.100	0.0470	mg/Kg			04/26/18 18:07	1
2,2-Dichloropropane	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
1,1-Dichloropropene	ND		0.100	0.0260	mg/Kg			04/26/18 18:07	1
Diisopropyl ether	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
EDB	ND		0.100	0.0500	mg/Kg			04/26/18 18:07	1
EDC	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
Ethylbenzene	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
Ethyl tert-butyl ether	ND		0.250	0.0500	mg/Kg			04/26/18 18:07	1
Hexachlorobutadiene	ND		0.250	0.0550	mg/Kg			04/26/18 18:07	1
2-Hexanone	ND		2.50	0.840	mg/Kg			04/26/18 18:07	1
Isopropylbenzene	ND		0.100	0.0210	mg/Kg			04/26/18 18:07	1
4-Isopropyltoluene	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
Methylene Chloride	ND		0.500	0.0500	mg/Kg			04/26/18 18:07	1
4-Methyl-2-pentanone (MIBK)	ND		2.50	0.850	mg/Kg			04/26/18 18:07	1
Methyl tert-butyl ether	ND		0.100	0.0500	mg/Kg			04/26/18 18:07	1
m-Xylene & p-Xylene	0.05134	J	0.200	0.0280	mg/Kg			04/26/18 18:07	1
Naphthalene	0.09595	J	0.250	0.0850	mg/Kg			04/26/18 18:07	1
n-Butylbenzene	ND		0.100	0.0500	mg/Kg			04/26/18 18:07	1
N-Propylbenzene	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
o-Xylene	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
sec-Butylbenzene	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
Styrene	ND		0.100	0.0550	mg/Kg			04/26/18 18:07	1
Tert-amyl methyl ether	ND		0.100	0.0160	mg/Kg			04/26/18 18:07	1
tert-Butyl alcohol (TBA)	ND		2.50	0.560	mg/Kg			04/26/18 18:07	1
tert-Butylbenzene	ND		0.100	0.0500	mg/Kg			04/26/18 18:07	1
1,1,1,2-Tetrachloroethane	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
1,1,2,2-Tetrachloroethane	ND		0.100	0.0500	mg/Kg			04/26/18 18:07	1
Tetrachloroethene	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
Toluene	ND		0.100	0.0370	mg/Kg			04/26/18 18:07	1
trans-1,2-Dichloroethene	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
trans-1,3-Dichloropropene	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
1,2,3-Trichlorobenzene	ND		0.100	0.0190	mg/Kg			04/26/18 18:07	1
1,2,4-Trichlorobenzene	ND		0.100	0.0340	mg/Kg			04/26/18 18:07	1
1,1,1-Trichloroethane	ND		0.100	0.0460	mg/Kg			04/26/18 18:07	1

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: MB 490-510907/9

Matrix: Solid

Analysis Batch: 510907

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.250	0.0700	mg/Kg			04/26/18 18:07	1
Trichloroethene	ND		0.100	0.0500	mg/Kg			04/26/18 18:07	1
Trichlorofluoromethane	ND		0.100	0.0500	mg/Kg			04/26/18 18:07	1
1,2,3-Trichloropropane	ND		0.100	0.0280	mg/Kg			04/26/18 18:07	1
1,2,4-Trimethylbenzene	0.1471		0.100	0.0500	mg/Kg			04/26/18 18:07	1
1,3,5-Trimethylbenzene	ND		0.100	0.0380	mg/Kg			04/26/18 18:07	1
Vinyl chloride	ND		0.100	0.0550	mg/Kg			04/26/18 18:07	1
Xylenes, Total	ND		0.300	0.0620	mg/Kg			04/26/18 18:07	1
Gasoline Range Organics [C6 - C10]	ND		20.0	10.0	mg/Kg			04/26/18 18:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130		04/26/18 18:07	1
Dibromofluoromethane (Surr)	90		70 - 130		04/26/18 18:07	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		04/26/18 18:07	1
Toluene-d8 (Surr)	105		70 - 130		04/26/18 18:07	1

Lab Sample ID: LCS 490-510907/3

Matrix: Solid

Analysis Batch: 510907

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	12.5	13.40		mg/Kg		107	45 - 145
Benzene	2.50	2.649		mg/Kg		106	70 - 130
Bromobenzene	2.50	3.233		mg/Kg		129	67 - 130
Bromoform	2.50	2.457		mg/Kg		98	59 - 137
Bromomethane	2.50	1.203		mg/Kg		48	32 - 150
2-Butanone (MEK)	12.5	14.81		mg/Kg		119	50 - 149
Carbon disulfide	2.50	2.408		mg/Kg		96	66 - 138
Carbon tetrachloride	2.50	2.598		mg/Kg		104	70 - 131
Chlorobenzene	2.50	2.973		mg/Kg		119	70 - 130
Chlorobromomethane	2.50	2.239		mg/Kg		90	70 - 133
Chlorodibromomethane	2.50	2.544		mg/Kg		102	70 - 130
Chloroethane	2.50	1.369		mg/Kg		55	37 - 150
Chloroform	2.50	2.521		mg/Kg		101	70 - 130
Chloromethane	2.50	2.769		mg/Kg		111	53 - 150
2-Chlorotoluene	2.50	3.317	*	mg/Kg		133	70 - 132
4-Chlorotoluene	2.50	3.285		mg/Kg		131	67 - 135
cis-1,2-Dichloroethene	2.50	2.562		mg/Kg		102	70 - 132
cis-1,3-Dichloropropene	2.50	3.011		mg/Kg		120	70 - 130
1,2-Dibromo-3-Chloropropane	2.50	2.914		mg/Kg		117	47 - 144
Dibromomethane	2.50	2.304		mg/Kg		92	70 - 130
1,2-Dichlorobenzene	2.50	2.836		mg/Kg		113	70 - 134
1,3-Dichlorobenzene	2.50	2.992		mg/Kg		120	69 - 137
1,4-Dichlorobenzene	2.50	2.917		mg/Kg		117	66 - 134
Dichlorobromomethane	2.50	2.453		mg/Kg		98	70 - 130
Dichlorodifluoromethane	2.50	2.663		mg/Kg		107	32 - 150
1,1-Dichloroethane	2.50	2.623		mg/Kg		105	70 - 130
1,1-Dichloroethene	2.50	2.036		mg/Kg		81	70 - 131

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCS 490-510907/3

Matrix: Solid

Analysis Batch: 510907

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	2.50	2.586		mg/Kg		103	70 - 130
1,3-Dichloropropane	2.50	2.651		mg/Kg		106	70 - 130
2,2-Dichloropropane	2.50	2.871		mg/Kg		115	57 - 150
1,1-Dichloropropene	2.50	2.835		mg/Kg		113	70 - 130
Diisopropyl ether	2.50	2.679		mg/Kg		107	68 - 134
EDB	2.50	2.589		mg/Kg		104	69 - 130
EDC	2.50	2.287		mg/Kg		91	65 - 134
Ethylbenzene	2.50	3.067		mg/Kg		123	70 - 130
Ethyl tert-butyl ether	2.50	3.018		mg/Kg		121	19 - 150
Hexachlorobutadiene	2.50	3.210		mg/Kg		128	64 - 137
2-Hexanone	12.5	16.17		mg/Kg		129	47 - 148
Isopropylbenzene	2.50	3.074		mg/Kg		123	70 - 130
4-Isopropyltoluene	2.50	3.293		mg/Kg		132	66 - 147
Methylene Chloride	2.50	2.319		mg/Kg		93	69 - 130
4-Methyl-2-pentanone (MIBK)	12.5	14.86		mg/Kg		119	48 - 150
Methyl tert-butyl ether	2.50	2.317		mg/Kg		93	54 - 145
m-Xylene & p-Xylene	2.50	3.082		mg/Kg		123	70 - 130
Naphthalene	2.50	3.374		mg/Kg		135	55 - 149
n-Butylbenzene	2.50	3.391		mg/Kg		136	57 - 150
N-Propylbenzene	2.50	3.291		mg/Kg		132	62 - 150
o-Xylene	2.50	2.967		mg/Kg		119	70 - 130
sec-Butylbenzene	2.50	3.207		mg/Kg		128	68 - 147
Styrene	2.50	2.956		mg/Kg		118	70 - 131
Tert-amyl methyl ether	2.50	3.194		mg/Kg		128	10 - 150
tert-Butyl alcohol (TBA)	25.0	16.38		mg/Kg		66	10 - 150
tert-Butylbenzene	2.50	3.268		mg/Kg		131	70 - 138
1,1,1,2-Tetrachloroethane	2.50	2.866		mg/Kg		115	70 - 130
1,1,2,2-Tetrachloroethane	2.50	2.795		mg/Kg		112	61 - 134
Tetrachloroethene	2.50	2.874		mg/Kg		115	70 - 130
Toluene	2.50	2.943		mg/Kg		118	70 - 130
trans-1,2-Dichloroethene	2.50	2.756		mg/Kg		110	70 - 130
trans-1,3-Dichloropropene	2.50	3.020		mg/Kg		121	67 - 130
1,2,3-Trichlorobenzene	2.50	3.101		mg/Kg		124	57 - 146
1,2,4-Trichlorobenzene	2.50	3.321		mg/Kg		133	47 - 150
1,1,1-Trichloroethane	2.50	2.605		mg/Kg		104	70 - 130
1,1,2-Trichloroethane	2.50	2.415		mg/Kg		97	70 - 130
Trichloroethene	2.50	2.650		mg/Kg		106	70 - 130
Trichlorofluoromethane	2.50	1.427		mg/Kg		57	53 - 150
1,2,3-Trichloropropane	2.50	2.651		mg/Kg		106	60 - 139
1,2,4-Trimethylbenzene	2.50	3.462		mg/Kg		138	70 - 140
1,3,5-Trimethylbenzene	2.50	3.241		mg/Kg		130	69 - 141
Vinyl chloride	2.50	2.878		mg/Kg		115	63 - 150
Xylenes, Total	5.00	6.049		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
Dibromofluoromethane (Surr)	90		70 - 130
1,2-Dichloroethane-d4 (Surr)	91		70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCS 490-510907/3

Matrix: Solid

Analysis Batch: 510907

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	108		70 - 130

Lab Sample ID: LCS 490-510907/7

Matrix: Solid

Analysis Batch: 510907

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 [C6 - C10]	200	224.4		mg/Kg		112	65 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
Dibromofluoromethane (Surr)	87		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	108		70 - 130

Lab Sample ID: LCSD 490-510907/4

Matrix: Solid

Analysis Batch: 510907

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
Acetone	12.5	12.36		mg/Kg		99	45 - 145	8	38
Benzene	2.50	2.479		mg/Kg		99	70 - 130	7	37
Bromobenzene	2.50	2.979		mg/Kg		119	67 - 130	8	40
Bromoform	2.50	2.306		mg/Kg		92	59 - 137	6	17
Bromomethane	2.50	1.128		mg/Kg		45	32 - 150	6	45
2-Butanone (MEK)	12.5	13.72		mg/Kg		110	50 - 149	8	39
Carbon disulfide	2.50	2.177		mg/Kg		87	66 - 138	10	41
Carbon tetrachloride	2.50	2.454		mg/Kg		98	70 - 131	6	41
Chlorobenzene	2.50	2.795		mg/Kg		112	70 - 130	6	40
Chlorobromomethane	2.50	2.095		mg/Kg		84	70 - 133	7	15
Chlorodibromomethane	2.50	2.409		mg/Kg		96	70 - 130	5	14
Chloroethane	2.50	1.249		mg/Kg		50	37 - 150	9	50
Chloroform	2.50	2.359		mg/Kg		94	70 - 130	7	15
Chloromethane	2.50	2.624		mg/Kg		105	53 - 150	5	47
2-Chlorotoluene	2.50	3.024		mg/Kg		121	70 - 132	9	41
4-Chlorotoluene	2.50	3.041		mg/Kg		122	67 - 135	8	41
cis-1,2-Dichloroethene	2.50	2.364		mg/Kg		95	70 - 132	8	18
cis-1,3-Dichloropropene	2.50	2.800		mg/Kg		112	70 - 130	7	42
1,2-Dibromo-3-Chloropropane	2.50	2.717		mg/Kg		109	47 - 144	7	38
Dibromomethane	2.50	2.155		mg/Kg		86	70 - 130	7	19
1,2-Dichlorobenzene	2.50	2.675		mg/Kg		107	70 - 134	6	40
1,3-Dichlorobenzene	2.50	2.834		mg/Kg		113	69 - 137	5	41
1,4-Dichlorobenzene	2.50	2.751		mg/Kg		110	66 - 134	6	41
Dichlorobromomethane	2.50	2.322		mg/Kg		93	70 - 130	5	20
Dichlorodifluoromethane	2.50	2.468		mg/Kg		99	32 - 150	8	50
1,1-Dichloroethane	2.50	2.472		mg/Kg		99	70 - 130	6	42
1,1-Dichloroethene	2.50	1.870		mg/Kg		75	70 - 131	8	43

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCSD 490-510907/4

Matrix: Solid

Analysis Batch: 510907

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	2.50	2.398		mg/Kg		96	70 - 130	8	15
1,3-Dichloropropane	2.50	2.481		mg/Kg		99	70 - 130	7	15
2,2-Dichloropropane	2.50	2.713		mg/Kg		109	57 - 150	6	42
1,1-Dichloropropene	2.50	2.624		mg/Kg		105	70 - 130	8	41
Diisopropyl ether	2.50	2.509		mg/Kg		100	68 - 134	7	36
EDB	2.50	2.423		mg/Kg		97	69 - 130	7	17
EDC	2.50	2.156		mg/Kg		86	65 - 134	6	16
Ethylbenzene	2.50	2.866		mg/Kg		115	70 - 130	7	38
Ethyl tert-butyl ether	2.50	2.862		mg/Kg		114	19 - 150	5	37
Hexachlorobutadiene	2.50	3.092		mg/Kg		124	64 - 137	4	44
2-Hexanone	12.5	14.80		mg/Kg		118	47 - 148	9	38
Isopropylbenzene	2.50	2.877		mg/Kg		115	70 - 130	7	39
4-Isopropyltoluene	2.50	3.091		mg/Kg		124	66 - 147	6	38
Methylene Chloride	2.50	2.137		mg/Kg		85	69 - 130	8	19
4-Methyl-2-pentanone (MIBK)	12.5	13.66		mg/Kg		109	48 - 150	8	41
Methyl tert-butyl ether	2.50	2.202		mg/Kg		88	54 - 145	5	36
m-Xylene & p-Xylene	2.50	2.882		mg/Kg		115	70 - 130	7	38
Naphthalene	2.50	3.071		mg/Kg		123	55 - 149	9	37
n-Butylbenzene	2.50	3.140		mg/Kg		126	57 - 150	8	39
N-Propylbenzene	2.50	3.062		mg/Kg		122	62 - 150	7	38
o-Xylene	2.50	2.764		mg/Kg		111	70 - 130	7	38
sec-Butylbenzene	2.50	3.071		mg/Kg		123	68 - 147	4	38
Styrene	2.50	2.760		mg/Kg		110	70 - 131	7	40
Tert-amyl methyl ether	2.50	2.990		mg/Kg		120	10 - 150	7	50
tert-Butyl alcohol (TBA)	25.0	16.06		mg/Kg		64	10 - 150	2	50
tert-Butylbenzene	2.50	3.106		mg/Kg		124	70 - 138	5	38
1,1,1,2-Tetrachloroethane	2.50	2.709		mg/Kg		108	70 - 130	6	41
1,1,2,2-Tetrachloroethane	2.50	2.600		mg/Kg		104	61 - 134	7	16
Tetrachloroethene	2.50	2.717		mg/Kg		109	70 - 130	6	41
Toluene	2.50	2.753		mg/Kg		110	70 - 130	7	40
trans-1,2-Dichloroethene	2.50	2.583		mg/Kg		103	70 - 130	6	41
trans-1,3-Dichloropropene	2.50	2.839		mg/Kg		114	67 - 130	6	41
1,2,3-Trichlorobenzene	2.50	2.926		mg/Kg		117	57 - 146	6	42
1,2,4-Trichlorobenzene	2.50	3.140		mg/Kg		126	47 - 150	6	43
1,1,1-Trichloroethane	2.50	2.453		mg/Kg		98	70 - 130	6	41
1,1,2-Trichloroethane	2.50	2.288		mg/Kg		92	70 - 130	5	17
Trichloroethene	2.50	2.490		mg/Kg		100	70 - 130	6	41
Trichlorofluoromethane	2.50	1.440		mg/Kg		58	53 - 150	1	49
1,2,3-Trichloropropane	2.50	2.515		mg/Kg		101	60 - 139	5	16
1,2,4-Trimethylbenzene	2.50	3.175		mg/Kg		127	70 - 140	9	38
1,3,5-Trimethylbenzene	2.50	3.006		mg/Kg		120	69 - 141	8	38
Vinyl chloride	2.50	2.669		mg/Kg		107	63 - 150	8	46
Xylenes, Total	5.00	5.646		mg/Kg		113	70 - 130	7	38

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
Dibromofluoromethane (Surr)	90		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCSD 490-510907/4

Matrix: Solid

Analysis Batch: 510907

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	106		70 - 130

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

Lab Sample ID: MB 490-508376/1-A

Matrix: Solid

Analysis Batch: 509598

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 508376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics C10-C21	6.709	J	16.7	5.90	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Oil Range Organics C21-C35	9.159	J	16.7	5.90	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Acenaphthene	ND		0.0670	0.0320	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Acenaphthylene	ND		0.0670	0.0290	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Anthracene	ND		0.0670	0.0290	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Benzo[a]anthracene	ND		0.0670	0.0300	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Benzo[a]pyrene	ND		0.0670	0.0270	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Benzo[b]fluoranthene	ND		0.0670	0.0280	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Benzo[g,h,i]perylene	ND		0.0670	0.0330	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Benzo[k]fluoranthene	ND		0.0670	0.0270	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Chrysene	ND		0.0670	0.0370	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Dibenz(a,h)anthracene	ND		0.0670	0.0320	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Fluoranthene	ND		0.0670	0.0340	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Fluorene	ND		0.0670	0.0290	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0290	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Naphthalene	ND		0.0670	0.0290	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Phenanthrene	ND		0.0670	0.0340	mg/Kg		04/14/18 13:00	04/20/18 11:34	1
Pyrene	ND		0.0670	0.0340	mg/Kg		04/14/18 13:00	04/20/18 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	73		29 - 120	04/14/18 13:00	04/20/18 11:34	1
Nitrobenzene-d5 (Surr)	70		27 - 120	04/14/18 13:00	04/20/18 11:34	1
Terphenyl-d14 (Surr)	86		13 - 120	04/14/18 13:00	04/20/18 11:34	1

Lab Sample ID: LCS 490-508376/2-A

Matrix: Solid

Analysis Batch: 509598

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 508376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics C10-C21	66.7	47.55		mg/Kg		71	25 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	72		29 - 120
Nitrobenzene-d5 (Surr)	69		27 - 120
Terphenyl-d14 (Surr)	81		13 - 120

TestAmerica Nashville



# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCS 490-508376/3-A

Matrix: Solid

Analysis Batch: 509598

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 508376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.67	1.330		mg/Kg		80	36 - 120
Acenaphthylene	1.67	1.453		mg/Kg		87	38 - 120
Anthracene	1.67	1.416		mg/Kg		85	46 - 124
Benzo[a]anthracene	1.67	1.461		mg/Kg		88	45 - 120
Benzo[a]pyrene	1.67	1.559		mg/Kg		94	45 - 120
Benzo[b]fluoranthene	1.67	1.426		mg/Kg		86	42 - 120
Benzo[g,h,i]perylene	1.67	1.473		mg/Kg		88	38 - 120
Benzo[k]fluoranthene	1.67	1.590		mg/Kg		95	42 - 120
Chrysene	1.67	1.443		mg/Kg		87	43 - 120
Dibenz(a,h)anthracene	1.67	1.561		mg/Kg		94	32 - 128
Fluoranthene	1.67	1.541		mg/Kg		92	46 - 120
Fluorene	1.67	1.451		mg/Kg		87	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.509		mg/Kg		91	41 - 121
Naphthalene	1.67	1.285		mg/Kg		77	32 - 120
Phenanthrene	1.67	1.383		mg/Kg		83	45 - 120
Pyrene	1.67	1.374		mg/Kg		82	43 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	73		29 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Terphenyl-d14 (Surr)	80		13 - 120

Lab Sample ID: 490-150020-10 MS

Matrix: Solid

Analysis Batch: 509598

Client Sample ID: SB1 (12.5-14.5)

Prep Type: Total/NA

Prep Batch: 508376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics C10-C21	13.7	J B	82.5	57.57		mg/Kg	☼	53	10 - 175

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	65		29 - 120
Nitrobenzene-d5 (Surr)	60		27 - 120
Terphenyl-d14 (Surr)	78		13 - 120

Lab Sample ID: 490-150020-10 MSD

Matrix: Solid

Analysis Batch: 509598

Client Sample ID: SB1 (12.5-14.5)

Prep Type: Total/NA

Prep Batch: 508376

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics C10-C21	13.7	J B	83.7	66.55		mg/Kg	☼	63	10 - 175	14	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	73		29 - 120
Nitrobenzene-d5 (Surr)	72		27 - 120
Terphenyl-d14 (Surr)	84		13 - 120

TestAmerica Nashville



# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: MB 490-508958/1-A

Matrix: Water

Analysis Batch: 509306

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 508958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics C10-C21	189.0	J	500	139	ug/L		04/17/18 17:09	04/19/18 11:55	1
Oil Range Organics C21-C35	291.5	J	500	139	ug/L		04/17/18 17:09	04/19/18 11:55	1
Acenaphthene	ND		2.00	0.526	ug/L		04/17/18 17:09	04/19/18 11:55	1
Acenaphthylene	ND		2.00	0.451	ug/L		04/17/18 17:09	04/19/18 11:55	1
Anthracene	ND		2.00	0.477	ug/L		04/17/18 17:09	04/19/18 11:55	1
Benzo[a]anthracene	ND		2.00	0.483	ug/L		04/17/18 17:09	04/19/18 11:55	1
Benzo[a]pyrene	ND		2.00	0.414	ug/L		04/17/18 17:09	04/19/18 11:55	1
Benzo[b]fluoranthene	ND		2.00	0.258	ug/L		04/17/18 17:09	04/19/18 11:55	1
Benzo[g,h,i]perylene	ND		2.00	0.369	ug/L		04/17/18 17:09	04/19/18 11:55	1
Benzo[k]fluoranthene	ND		2.00	0.618	ug/L		04/17/18 17:09	04/19/18 11:55	1
Chrysene	ND		2.00	0.464	ug/L		04/17/18 17:09	04/19/18 11:55	1
Dibenz(a,h)anthracene	ND		2.00	0.441	ug/L		04/17/18 17:09	04/19/18 11:55	1
Fluoranthene	ND		2.00	0.449	ug/L		04/17/18 17:09	04/19/18 11:55	1
Fluorene	ND		2.00	0.492	ug/L		04/17/18 17:09	04/19/18 11:55	1
Indeno[1,2,3-cd]pyrene	ND		2.00	0.385	ug/L		04/17/18 17:09	04/19/18 11:55	1
Naphthalene	ND		2.00	0.629	ug/L		04/17/18 17:09	04/19/18 11:55	1
Phenanthrene	ND		2.00	0.451	ug/L		04/17/18 17:09	04/19/18 11:55	1
Pyrene	ND		2.00	0.396	ug/L		04/17/18 17:09	04/19/18 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	56		29 - 120	04/17/18 17:09	04/19/18 11:55	1
Nitrobenzene-d5 (Surr)	56		27 - 120	04/17/18 17:09	04/19/18 11:55	1
Terphenyl-d14 (Surr)	67		13 - 120	04/17/18 17:09	04/19/18 11:55	1

Lab Sample ID: LCS 490-508958/2-A

Matrix: Water

Analysis Batch: 509306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 508958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics C10-C21	2000	1468		ug/L		73	31 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	75		29 - 120
Nitrobenzene-d5 (Surr)	71		27 - 120
Terphenyl-d14 (Surr)	85		13 - 120

Lab Sample ID: LCS 490-508958/4-A

Matrix: Water

Analysis Batch: 509306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 508958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	50.0	31.30		ug/L		63	36 - 129
Acenaphthylene	50.0	33.63		ug/L		67	36 - 120
Anthracene	50.0	34.12		ug/L		68	42 - 130
Benzo[a]anthracene	50.0	34.35		ug/L		69	41 - 131
Benzo[a]pyrene	50.0	36.62		ug/L		73	45 - 131
Benzo[b]fluoranthene	50.0	36.03		ug/L		72	43 - 132

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

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

Lab Sample ID: LCS 490-508958/4-A

Matrix: Water

Analysis Batch: 509306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 508958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	50.0	36.00		ug/L		72	38 - 138
Benzo[k]fluoranthene	50.0	33.51		ug/L		67	44 - 129
Chrysene	50.0	34.08		ug/L		68	39 - 130
Dibenz(a,h)anthracene	50.0	37.83		ug/L		76	43 - 140
Fluoranthene	50.0	36.49		ug/L		73	31 - 132
Fluorene	50.0	34.55		ug/L		69	37 - 130
Indeno[1,2,3-cd]pyrene	50.0	35.86		ug/L		72	40 - 136
Naphthalene	50.0	25.81		ug/L		52	32 - 120
Phenanthrene	50.0	34.01		ug/L		68	39 - 126
Pyrene	50.0	33.19		ug/L		66	37 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	57		29 - 120
Nitrobenzene-d5 (Surr)	54		27 - 120
Terphenyl-d14 (Surr)	63		13 - 120

Lab Sample ID: LCSD 490-508958/3-A

Matrix: Water

Analysis Batch: 509306

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 508958

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics C10-C21	2000	1204		ug/L		60	31 - 115	20	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	59		29 - 120
Nitrobenzene-d5 (Surr)	56		27 - 120
Terphenyl-d14 (Surr)	70		13 - 120

## Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 490-509092/1-A

Matrix: Water

Analysis Batch: 509821

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 509092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00200	0.000400	mg/L		04/18/18 11:04	04/20/18 13:49	1
Barium	0.0001740	J	0.00200	0.000100	mg/L		04/18/18 11:04	04/20/18 13:49	1
Cadmium	ND		0.00100	0.000100	mg/L		04/18/18 11:04	04/20/18 13:49	1
Chromium	0.001220	J	0.00200	0.000500	mg/L		04/18/18 11:04	04/20/18 13:49	1
Lead	ND		0.00200	0.000100	mg/L		04/18/18 11:04	04/20/18 13:49	1
Selenium	ND		0.00200	0.000300	mg/L		04/18/18 11:04	04/20/18 13:49	1
Silver	ND		0.00200	0.000800	mg/L		04/18/18 11:04	04/20/18 13:49	1

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

## Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 490-509092/2-A

Matrix: Water

Analysis Batch: 509821

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 509092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.08975		mg/L		90	80 - 120
Barium	0.100	0.09068		mg/L		91	80 - 120
Cadmium	0.100	0.09059		mg/L		91	80 - 120
Chromium	0.100	0.08817		mg/L		88	80 - 120
Lead	0.100	0.08976		mg/L		90	80 - 120
Selenium	0.100	0.08647		mg/L		86	80 - 120
Silver	0.100	0.09439		mg/L		94	80 - 120

Lab Sample ID: 490-149958-A-1-B MS

Matrix: Water

Analysis Batch: 509821

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 509092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	ND		0.100	0.08696		mg/L		87	75 - 125
Barium	0.134	F1 B	0.100	0.2126		mg/L		78	75 - 125
Cadmium	0.000220	J	0.100	0.09065		mg/L		90	75 - 125
Chromium	ND		0.100	0.09955		mg/L		100	75 - 125
Lead	0.00114	J	0.100	0.08982		mg/L		89	75 - 125
Selenium	ND		0.100	0.08294		mg/L		83	75 - 125
Silver	ND		0.100	0.08688		mg/L		87	75 - 125

Lab Sample ID: 490-149958-A-1-C MSD

Matrix: Water

Analysis Batch: 509821

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 509092

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	ND		0.100	0.08064		mg/L		81	75 - 125	8	20
Barium	0.134	F1 B	0.100	0.1956	F1	mg/L		61	75 - 125	8	20
Cadmium	0.000220	J	0.100	0.08341		mg/L		83	75 - 125	8	20
Chromium	ND		0.100	0.08678		mg/L		87	75 - 125	14	20
Lead	0.00114	J	0.100	0.08449		mg/L		83	75 - 125	6	20
Selenium	ND		0.100	0.07778		mg/L		78	75 - 125	6	20
Silver	ND		0.100	0.08362		mg/L		84	75 - 125	4	20

Lab Sample ID: MB 490-509699/1-A

Matrix: Solid

Analysis Batch: 510374

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 509699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.500	0.200	mg/Kg		04/20/18 12:55	04/23/18 21:39	1
Barium	ND		0.500	0.200	mg/Kg		04/20/18 12:55	04/23/18 21:39	1
Cadmium	ND		0.500	0.200	mg/Kg		04/20/18 12:55	04/23/18 21:39	1
Chromium	ND		0.500	0.200	mg/Kg		04/20/18 12:55	04/23/18 21:39	1
Lead	ND		0.500	0.200	mg/Kg		04/20/18 12:55	04/23/18 21:39	1
Selenium	ND		0.500	0.200	mg/Kg		04/20/18 12:55	04/23/18 21:39	1

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

## Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 490-509699/1-A

Matrix: Solid

Analysis Batch: 510598

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 509699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.500	0.100	mg/Kg		04/20/18 12:55	04/24/18 22:01	1

Lab Sample ID: LCS 490-509699/2-A

Matrix: Solid

Analysis Batch: 510374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 509699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	17.9	17.92		mg/Kg		100	80 - 120
Barium	17.9	17.33		mg/Kg		97	80 - 120
Cadmium	17.9	17.34		mg/Kg		97	80 - 120
Chromium	17.9	18.27		mg/Kg		102	80 - 120
Lead	17.9	17.55		mg/Kg		98	80 - 120
Selenium	17.9	18.09		mg/Kg		101	80 - 120

Lab Sample ID: LCS 490-509699/2-A

Matrix: Solid

Analysis Batch: 510598

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 509699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	17.9	15.32		mg/Kg		86	80 - 120

Lab Sample ID: 490-142417-A-3-Q MS

Matrix: Solid

Analysis Batch: 510374

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 509699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	8.70		21.6	29.27		mg/Kg	☼	95	75 - 125
Barium	123		21.6	169.9	4	mg/Kg	☼	218	75 - 125
Cadmium	0.540		21.6	21.59		mg/Kg	☼	98	75 - 125
Chromium	12.7		21.6	34.90		mg/Kg	☼	103	75 - 125
Lead	653	F2	21.6	822.4	4	mg/Kg	☼	785	75 - 125
Selenium	0.322	J	21.6	17.12		mg/Kg	☼	78	75 - 125

Lab Sample ID: 490-142417-A-3-Q MS

Matrix: Solid

Analysis Batch: 510598

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 509699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND	F1	21.6	26.41		mg/Kg	☼	122	75 - 125

Lab Sample ID: 490-142417-A-3-R MSD

Matrix: Solid

Analysis Batch: 510374

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 509699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	8.70		22.8	31.64		mg/Kg	☼	101	75 - 125	8	20
Barium	123		22.8	143.8	4	mg/Kg	☼	92	75 - 125	17	20
Cadmium	0.540		22.8	23.08		mg/Kg	☼	99	75 - 125	7	20
Chromium	12.7		22.8	31.71		mg/Kg	☼	83	75 - 125	10	20

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

## Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 490-142417-A-3-R MSD

Matrix: Solid

Analysis Batch: 510374

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 509699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	653	F2	22.8	596.4	4 F2	mg/Kg	☼	-248	75 - 125	32	20
Selenium	0.322	J	22.8	17.51		mg/Kg	☼	75	75 - 125	2	20

Lab Sample ID: 490-142417-A-3-R MSD

Matrix: Solid

Analysis Batch: 510598

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 509699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND	F1	22.8	27.32		mg/Kg	☼	120	75 - 125	3	20

Lab Sample ID: MB 490-509820/1-A

Matrix: Water

Analysis Batch: 510598

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 509820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.00200	0.000400	mg/L		04/20/18 18:51	04/24/18 15:51	1
Barium	0.0002760	J	0.00200	0.000100	mg/L		04/20/18 18:51	04/24/18 15:51	1
Cadmium	ND		0.00100	0.000100	mg/L		04/20/18 18:51	04/24/18 15:51	1
Chromium	ND		0.00200	0.000500	mg/L		04/20/18 18:51	04/24/18 15:51	1
Lead	ND		0.00200	0.000100	mg/L		04/20/18 18:51	04/24/18 15:51	1
Selenium	0.0003140	J	0.00200	0.000300	mg/L		04/20/18 18:51	04/24/18 15:51	1
Silver	ND		0.00200	0.000800	mg/L		04/20/18 18:51	04/24/18 15:51	1

Lab Sample ID: LCS 490-509820/2-A

Matrix: Water

Analysis Batch: 510598

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 509820

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.09381		mg/L		94	80 - 120
Barium	0.100	0.09724		mg/L		97	80 - 120
Cadmium	0.100	0.09487		mg/L		95	80 - 120
Chromium	0.100	0.1019		mg/L		102	80 - 120
Lead	0.100	0.09532		mg/L		95	80 - 120
Selenium	0.100	0.09217		mg/L		92	80 - 120
Silver	0.100	0.09180		mg/L		92	80 - 120

Lab Sample ID: 490-150033-G-1-B MS

Matrix: Water

Analysis Batch: 510598

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 509820

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.00168	J	0.100	0.09684		mg/L		95	75 - 125
Barium	0.135	B	0.100	0.2325		mg/L		98	75 - 125
Cadmium	ND		0.100	0.09574		mg/L		96	75 - 125
Chromium	ND		0.100	0.09701		mg/L		97	75 - 125
Lead	0.00512		0.100	0.1024		mg/L		97	75 - 125
Selenium	0.000548	J B	0.100	0.09378		mg/L		93	75 - 125
Silver	ND		0.100	0.09279		mg/L		93	75 - 125

TestAmerica Nashville

# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

## Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 490-150033-G-1-C MSD

Matrix: Water

Analysis Batch: 510598

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 509820

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.00168	J	0.100	0.09698		mg/L		95	75 - 125	0	20
Barium	0.135	B	0.100	0.2283		mg/L		94	75 - 125	2	20
Cadmium	ND		0.100	0.09554		mg/L		96	75 - 125	0	20
Chromium	ND		0.100	0.09770		mg/L		98	75 - 125	1	20
Lead	0.00512		0.100	0.1014		mg/L		96	75 - 125	1	20
Selenium	0.000548	J B	0.100	0.09397		mg/L		93	75 - 125	0	20
Silver	ND		0.100	0.09147		mg/L		91	75 - 125	1	20

Lab Sample ID: MB 490-510904/1-A

Matrix: Solid

Analysis Batch: 511305

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 510904

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.490	0.196	mg/Kg		04/26/18 11:25	04/26/18 17:02	1
Barium	ND		0.490	0.196	mg/Kg		04/26/18 11:25	04/26/18 17:02	1
Cadmium	ND		0.490	0.196	mg/Kg		04/26/18 11:25	04/26/18 17:02	1
Chromium	ND		0.490	0.196	mg/Kg		04/26/18 11:25	04/26/18 17:02	1
Lead	ND		0.490	0.196	mg/Kg		04/26/18 11:25	04/26/18 17:02	1
Selenium	ND		0.490	0.196	mg/Kg		04/26/18 11:25	04/26/18 17:02	1
Silver	ND		0.490	0.0980	mg/Kg		04/26/18 11:25	04/26/18 17:02	1

Lab Sample ID: LCS 490-510904/2-A

Matrix: Solid

Analysis Batch: 511305

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 510904

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	19.6	19.41		mg/Kg		99	80 - 120
Barium	19.6	18.84		mg/Kg		96	80 - 120
Cadmium	19.6	17.81		mg/Kg		91	80 - 120
Chromium	19.6	18.80		mg/Kg		96	80 - 120
Lead	19.6	18.36		mg/Kg		94	80 - 120
Selenium	19.6	19.70		mg/Kg		100	80 - 120
Silver	19.6	17.76		mg/Kg		91	80 - 120

Lab Sample ID: LCSD 490-510904/3-A

Matrix: Solid

Analysis Batch: 511305

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 510904

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	19.2	18.86		mg/Kg		98	80 - 120	3	20
Barium	19.2	18.06		mg/Kg		94	80 - 120	4	20
Cadmium	19.2	17.36		mg/Kg		90	80 - 120	3	20
Chromium	19.2	18.18		mg/Kg		95	80 - 120	3	20
Lead	19.2	17.72		mg/Kg		92	80 - 120	4	20
Selenium	19.2	19.38		mg/Kg		101	80 - 120	2	20
Silver	19.2	17.41		mg/Kg		91	80 - 120	2	20

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# QC Sample Results

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

## Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 490-150020-20 MS

Matrix: Solid

Analysis Batch: 511305

Client Sample ID: SB5 (16-18)

Prep Type: Total/NA

Prep Batch: 510904

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	7.51		27.1	30.25		mg/Kg	☼	84	75 - 125
Barium	139		27.1	175.2	4	mg/Kg	☼	132	75 - 125
Cadmium	ND		27.1	24.35		mg/Kg	☼	90	75 - 125
Chromium	21.1	F1	27.1	40.74	F1	mg/Kg	☼	73	75 - 125
Lead	12.9		27.1	37.79		mg/Kg	☼	92	75 - 125
Selenium	ND	F2	27.1	22.28		mg/Kg	☼	82	75 - 125
Silver	ND		27.1	24.10		mg/Kg	☼	89	75 - 125

Lab Sample ID: 490-150020-20 MSD

Matrix: Solid

Analysis Batch: 511305

Client Sample ID: SB5 (16-18)

Prep Type: Total/NA

Prep Batch: 510904

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	7.51		22.6	25.08		mg/Kg	☼	78	75 - 125	19	20
Barium	139		22.6	185.3	4	mg/Kg	☼	203	75 - 125	6	20
Cadmium	ND		22.6	21.00		mg/Kg	☼	93	75 - 125	15	20
Chromium	21.1	F1	22.6	39.83		mg/Kg	☼	83	75 - 125	2	20
Lead	12.9		22.6	34.18		mg/Kg	☼	94	75 - 125	10	20
Selenium	ND	F2	22.6	17.74	F4	mg/Kg	☼	78	75 - 125	23	20
Silver	ND		22.6	20.47		mg/Kg	☼	91	75 - 125	16	20

## Method: Moisture - Percent Moisture

Lab Sample ID: 490-150020-12 DU

Matrix: Solid

Analysis Batch: 508445

Client Sample ID: SB2 (6-8)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	22.3		25.2		%		12	20
Percent Solids	77.7		74.8		%		4	20

Lab Sample ID: 490-150020-24 DU

Matrix: Solid

Analysis Batch: 508445

Client Sample ID: SB7 (18-20)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	18.9		21.3		%		12	20
Percent Solids	81.1		78.7		%		3	20

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# QC Association Summary

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

## GC/MS VOA

### Prep Batch: 508639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-10	SB1 (12.5-14.5)	Total/NA	Solid	5035	
490-150020-20	SB5 (16-18)	Total/NA	Solid	5035	
490-150020-23	SB7 (11-13)	Total/NA	Solid	5035	

### Prep Batch: 508640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-10	SB1 (12.5-14.5)	Total/NA	Solid	5035	
490-150020-11	SB1 (20-22)	Total/NA	Solid	5035	
490-150020-11	SB1 (20-22)	Total/NA	Solid	5035	
490-150020-12	SB2 (6-8)	Total/NA	Solid	5035	
490-150020-13	SB2 (18-20)	Total/NA	Solid	5035	
490-150020-14	SB3 (5-7)	Total/NA	Solid	5035	
490-150020-15	SB3 (15-17)	Total/NA	Solid	5035	
490-150020-16	SB4 (10-12)	Total/NA	Solid	5035	
490-150020-17	SB4 (18-20)	Total/NA	Solid	5035	
490-150020-18	SB4 (18-20)-FD	Total/NA	Solid	5035	
490-150020-19	SB5 (13-15)	Total/NA	Solid	5035	
490-150020-21	SB6 (6-8)	Total/NA	Solid	5035	
490-150020-22	SB6 (13-15)	Total/NA	Solid	5035	
490-150020-23	SB7 (11-13)	Total/NA	Solid	5035	
490-150020-24	SB7 (18-20)	Total/NA	Solid	5035	
490-150020-25	SB8 (11-13)	Total/NA	Solid	5035	
490-150020-26	SB8 (21-23)	Total/NA	Solid	5035	

### Prep Batch: 510090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-85992-B-1-E MS	Matrix Spike	Total/NA	Solid	5030B	
720-85992-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

### Analysis Batch: 510123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-1	GW1	Total/NA	Water	8260B	
490-150020-2	GW2	Total/NA	Water	8260B	
490-150020-3	GW3	Total/NA	Water	8260B	
490-150020-4	GW4	Total/NA	Water	8260B	
490-150020-5	GW5	Total/NA	Water	8260B	
490-150020-6	GW7	Total/NA	Water	8260B	
490-150020-7	GW7-FD	Total/NA	Water	8260B	
490-150020-8	Equipment Blank	Total/NA	Water	8260B	
490-150020-9	Field Blank	Total/NA	Water	8260B	
MB 490-510123/9	Method Blank	Total/NA	Water	8260B	
LCS 490-510123/3	Lab Control Sample	Total/NA	Water	8260B	
LCS 490-510123/7	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-510123/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-150361-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
490-150361-C-4 MS	Matrix Spike	Total/NA	Water	8260B	

### Analysis Batch: 510282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-10	SB1 (12.5-14.5)	Total/NA	Solid	8260B	508640
490-150020-11	SB1 (20-22)	Total/NA	Solid	8260B	508640

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# QC Association Summary

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

## GC/MS VOA (Continued)

### Analysis Batch: 510282 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-12	SB2 (6-8)	Total/NA	Solid	8260B	508640
490-150020-13	SB2 (18-20)	Total/NA	Solid	8260B	508640
490-150020-14	SB3 (5-7)	Total/NA	Solid	8260B	508640
490-150020-15	SB3 (15-17)	Total/NA	Solid	8260B	508640
MB 490-510282/11	Method Blank	Total/NA	Solid	8260B	
LCS 490-510282/3	Lab Control Sample	Total/NA	Solid	8260B	
LCS 490-510282/9	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-510282/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
720-85992-B-1-E MS	Matrix Spike	Total/NA	Solid	8260B	510090
720-85992-B-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	510090

### Analysis Batch: 510385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-1	GW1	Total/NA	Water	8260B	
490-150020-2	GW2	Total/NA	Water	8260B	
490-150020-3	GW3	Total/NA	Water	8260B	
490-150020-4	GW4	Total/NA	Water	8260B	
490-150020-5	GW5	Total/NA	Water	8260B	
MB 490-510385/9	Method Blank	Total/NA	Water	8260B	
LCS 490-510385/3	Lab Control Sample	Total/NA	Water	8260B	
LCS 490-510385/7	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-510385/4	Lab Control Sample Dup	Total/NA	Water	8260B	
490-150354-B-2 MS	Matrix Spike	Total/NA	Water	8260B	
490-150354-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

### Analysis Batch: 510390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-1	GW1	Total/NA	Water	8260B	
490-150020-2	GW2	Total/NA	Water	8260B	
490-150020-3	GW3	Total/NA	Water	8260B	
490-150020-4	GW4	Total/NA	Water	8260B	
490-150020-5	GW5	Total/NA	Water	8260B	
490-150020-6	GW7	Total/NA	Water	8260B	
490-150020-7	GW7-FD	Total/NA	Water	8260B	
490-150020-8	Equipment Blank	Total/NA	Water	8260B	
490-150020-9	Field Blank	Total/NA	Water	8260B	
MB 490-510390/7	Method Blank	Total/NA	Water	8260B	
LCS 490-510390/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-510390/5	Lab Control Sample Dup	Total/NA	Water	8260B	
490-150550-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
490-150550-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

### Analysis Batch: 510576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-11	SB1 (20-22)	Total/NA	Solid	8260B	508640
490-150020-16	SB4 (10-12)	Total/NA	Solid	8260B	508640
490-150020-17	SB4 (18-20)	Total/NA	Solid	8260B	508640
490-150020-18	SB4 (18-20)-FD	Total/NA	Solid	8260B	508640
490-150020-19	SB5 (13-15)	Total/NA	Solid	8260B	508640
490-150020-21	SB6 (6-8)	Total/NA	Solid	8260B	508640
490-150020-22	SB6 (13-15)	Total/NA	Solid	8260B	508640

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# QC Association Summary

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

## GC/MS VOA (Continued)

### Analysis Batch: 510576 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-23	SB7 (11-13)	Total/NA	Solid	8260B	508640
490-150020-24	SB7 (18-20)	Total/NA	Solid	8260B	508640
490-150020-25	SB8 (11-13)	Total/NA	Solid	8260B	508640
490-150020-26	SB8 (21-23)	Total/NA	Solid	8260B	508640
MB 490-510576/9	Method Blank	Total/NA	Solid	8260B	
LCS 490-510576/3	Lab Control Sample	Total/NA	Solid	8260B	
LCS 490-510576/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-510576/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

### Analysis Batch: 510617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-10	SB1 (12.5-14.5)	Total/NA	Solid	8260B	508639
490-150020-20	SB5 (16-18)	Total/NA	Solid	8260B	508639
MB 490-510617/10	Method Blank	Total/NA	Solid	8260B	
LCS 490-510617/3	Lab Control Sample	Total/NA	Solid	8260B	
LCS 490-510617/8	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-510617/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

### Analysis Batch: 510643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-10	SB1 (12.5-14.5)	Total/NA	Solid	8260B	508639
490-150020-20	SB5 (16-18)	Total/NA	Solid	8260B	508639
490-150020-20	SB5 (16-18)	Total/NA	Solid	8260B	508639
MB 490-510643/8	Method Blank	Total/NA	Solid	8260B	
LCS 490-510643/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-510643/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

### Analysis Batch: 510907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-23	SB7 (11-13)	Total/NA	Solid	8260B	508639
MB 490-510907/9	Method Blank	Total/NA	Solid	8260B	
LCS 490-510907/3	Lab Control Sample	Total/NA	Solid	8260B	
LCS 490-510907/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-510907/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

## GC/MS Semi VOA

### Prep Batch: 508376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-10	SB1 (12.5-14.5)	Total/NA	Solid	3550C	
490-150020-11	SB1 (20-22)	Total/NA	Solid	3550C	
490-150020-12	SB2 (6-8)	Total/NA	Solid	3550C	
490-150020-13	SB2 (18-20)	Total/NA	Solid	3550C	
490-150020-14	SB3 (5-7)	Total/NA	Solid	3550C	
490-150020-15	SB3 (15-17)	Total/NA	Solid	3550C	
490-150020-16	SB4 (10-12)	Total/NA	Solid	3550C	
490-150020-17	SB4 (18-20)	Total/NA	Solid	3550C	
490-150020-18	SB4 (18-20)-FD	Total/NA	Solid	3550C	
490-150020-19	SB5 (13-15)	Total/NA	Solid	3550C	
490-150020-20	SB5 (16-18)	Total/NA	Solid	3550C	

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# QC Association Summary

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 508376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-21	SB6 (6-8)	Total/NA	Solid	3550C	
490-150020-22	SB6 (13-15)	Total/NA	Solid	3550C	
490-150020-23	SB7 (11-13)	Total/NA	Solid	3550C	
490-150020-24	SB7 (18-20)	Total/NA	Solid	3550C	
490-150020-25	SB8 (11-13)	Total/NA	Solid	3550C	
490-150020-26	SB8 (21-23)	Total/NA	Solid	3550C	
MB 490-508376/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 490-508376/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 490-508376/3-A	Lab Control Sample	Total/NA	Solid	3550C	
490-150020-10 MS	SB1 (12.5-14.5)	Total/NA	Solid	3550C	
490-150020-10 MSD	SB1 (12.5-14.5)	Total/NA	Solid	3550C	

### Prep Batch: 508958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-1	GW1	Total/NA	Water	3510C	
490-150020-2	GW2	Total/NA	Water	3510C	
490-150020-3	GW3	Total/NA	Water	3510C	
490-150020-4	GW4	Total/NA	Water	3510C	
490-150020-5	GW5	Total/NA	Water	3510C	
490-150020-6	GW7	Total/NA	Water	3510C	
490-150020-7	GW7-FD	Total/NA	Water	3510C	
490-150020-8	Equipment Blank	Total/NA	Water	3510C	
490-150020-9	Field Blank	Total/NA	Water	3510C	
MB 490-508958/1-A	Method Blank	Total/NA	Water	3510C	
LCS 490-508958/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 490-508958/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 490-508958/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

### Analysis Batch: 509306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-1	GW1	Total/NA	Water	8270C	508958
490-150020-2	GW2	Total/NA	Water	8270C	508958
490-150020-3	GW3	Total/NA	Water	8270C	508958
490-150020-3	GW3	Total/NA	Water	8270C	508958
490-150020-3	GW3	Total/NA	Water	8270C	508958
490-150020-4	GW4	Total/NA	Water	8270C	508958
490-150020-5	GW5	Total/NA	Water	8270C	508958
490-150020-5	GW5	Total/NA	Water	8270C	508958
490-150020-6	GW7	Total/NA	Water	8270C	508958
490-150020-7	GW7-FD	Total/NA	Water	8270C	508958
490-150020-8	Equipment Blank	Total/NA	Water	8270C	508958
490-150020-9	Field Blank	Total/NA	Water	8270C	508958
MB 490-508958/1-A	Method Blank	Total/NA	Water	8270C	508958
LCS 490-508958/2-A	Lab Control Sample	Total/NA	Water	8270C	508958
LCS 490-508958/4-A	Lab Control Sample	Total/NA	Water	8270C	508958
LCSD 490-508958/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	508958

### Analysis Batch: 509598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-10	SB1 (12.5-14.5)	Total/NA	Solid	8270C	508376
490-150020-11	SB1 (20-22)	Total/NA	Solid	8270C	508376

TestAmerica Nashville

# QC Association Summary

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 509598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-12	SB2 (6-8)	Total/NA	Solid	8270C	508376
490-150020-13	SB2 (18-20)	Total/NA	Solid	8270C	508376
490-150020-14	SB3 (5-7)	Total/NA	Solid	8270C	508376
490-150020-15	SB3 (15-17)	Total/NA	Solid	8270C	508376
490-150020-16	SB4 (10-12)	Total/NA	Solid	8270C	508376
490-150020-17	SB4 (18-20)	Total/NA	Solid	8270C	508376
490-150020-18	SB4 (18-20)-FD	Total/NA	Solid	8270C	508376
490-150020-19	SB5 (13-15)	Total/NA	Solid	8270C	508376
490-150020-20	SB5 (16-18)	Total/NA	Solid	8270C	508376
490-150020-21	SB6 (6-8)	Total/NA	Solid	8270C	508376
490-150020-22	SB6 (13-15)	Total/NA	Solid	8270C	508376
490-150020-23	SB7 (11-13)	Total/NA	Solid	8270C	508376
490-150020-24	SB7 (18-20)	Total/NA	Solid	8270C	508376
490-150020-25	SB8 (11-13)	Total/NA	Solid	8270C	508376
490-150020-26	SB8 (21-23)	Total/NA	Solid	8270C	508376
MB 490-508376/1-A	Method Blank	Total/NA	Solid	8270C	508376
LCS 490-508376/2-A	Lab Control Sample	Total/NA	Solid	8270C	508376
LCS 490-508376/3-A	Lab Control Sample	Total/NA	Solid	8270C	508376
490-150020-10 MS	SB1 (12.5-14.5)	Total/NA	Solid	8270C	508376
490-150020-10 MSD	SB1 (12.5-14.5)	Total/NA	Solid	8270C	508376

## Metals

### Prep Batch: 509092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-4	GW4	Total/NA	Water	3010A	
490-150020-8	Equipment Blank	Total/NA	Water	3010A	
490-150020-9	Field Blank	Total/NA	Water	3010A	
MB 490-509092/1-A	Method Blank	Total/NA	Water	3010A	
LCS 490-509092/2-A	Lab Control Sample	Total/NA	Water	3010A	
490-149958-A-1-B MS	Matrix Spike	Total/NA	Water	3010A	
490-149958-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	

### Prep Batch: 509699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-10	SB1 (12.5-14.5)	Total/NA	Solid	3051A	
490-150020-11	SB1 (20-22)	Total/NA	Solid	3051A	
490-150020-12	SB2 (6-8)	Total/NA	Solid	3051A	
490-150020-13	SB2 (18-20)	Total/NA	Solid	3051A	
490-150020-14	SB3 (5-7)	Total/NA	Solid	3051A	
490-150020-15	SB3 (15-17)	Total/NA	Solid	3051A	
490-150020-16	SB4 (10-12)	Total/NA	Solid	3051A	
490-150020-17	SB4 (18-20)	Total/NA	Solid	3051A	
490-150020-18	SB4 (18-20)-FD	Total/NA	Solid	3051A	
490-150020-19	SB5 (13-15)	Total/NA	Solid	3051A	
MB 490-509699/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 490-509699/2-A	Lab Control Sample	Total/NA	Solid	3051A	
490-142417-A-3-Q MS	Matrix Spike	Total/NA	Solid	3051A	
490-142417-A-3-R MSD	Matrix Spike Duplicate	Total/NA	Solid	3051A	

TestAmerica Nashville

# QC Association Summary

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

## Metals (Continued)

### Prep Batch: 509820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-1	GW1	Total/NA	Water	3010A	
490-150020-2	GW2	Total/NA	Water	3010A	
490-150020-3	GW3	Total/NA	Water	3010A	
490-150020-5	GW5	Total/NA	Water	3010A	
490-150020-6	GW7	Total/NA	Water	3010A	
490-150020-7	GW7-FD	Total/NA	Water	3010A	
MB 490-509820/1-A	Method Blank	Total/NA	Water	3010A	
LCS 490-509820/2-A	Lab Control Sample	Total/NA	Water	3010A	
490-150033-G-1-B MS	Matrix Spike	Total/NA	Water	3010A	
490-150033-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	

### Analysis Batch: 509821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-4	GW4	Total/NA	Water	6020A	509092
490-150020-8	Equipment Blank	Total/NA	Water	6020A	509092
490-150020-9	Field Blank	Total/NA	Water	6020A	509092
MB 490-509092/1-A	Method Blank	Total/NA	Water	6020A	509092
LCS 490-509092/2-A	Lab Control Sample	Total/NA	Water	6020A	509092
490-149958-A-1-B MS	Matrix Spike	Total/NA	Water	6020A	509092
490-149958-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6020A	509092

### Analysis Batch: 510374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-10	SB1 (12.5-14.5)	Total/NA	Solid	6020A	509699
490-150020-11	SB1 (20-22)	Total/NA	Solid	6020A	509699
490-150020-12	SB2 (6-8)	Total/NA	Solid	6020A	509699
490-150020-13	SB2 (18-20)	Total/NA	Solid	6020A	509699
490-150020-14	SB3 (5-7)	Total/NA	Solid	6020A	509699
490-150020-15	SB3 (15-17)	Total/NA	Solid	6020A	509699
490-150020-16	SB4 (10-12)	Total/NA	Solid	6020A	509699
490-150020-17	SB4 (18-20)	Total/NA	Solid	6020A	509699
490-150020-18	SB4 (18-20)-FD	Total/NA	Solid	6020A	509699
490-150020-19	SB5 (13-15)	Total/NA	Solid	6020A	509699
MB 490-509699/1-A	Method Blank	Total/NA	Solid	6020A	509699
LCS 490-509699/2-A	Lab Control Sample	Total/NA	Solid	6020A	509699
490-142417-A-3-Q MS	Matrix Spike	Total/NA	Solid	6020A	509699
490-142417-A-3-R MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	509699

### Analysis Batch: 510598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-1	GW1	Total/NA	Water	6020A	509820
490-150020-2	GW2	Total/NA	Water	6020A	509820
490-150020-3	GW3	Total/NA	Water	6020A	509820
490-150020-5	GW5	Total/NA	Water	6020A	509820
490-150020-6	GW7	Total/NA	Water	6020A	509820
490-150020-7	GW7-FD	Total/NA	Water	6020A	509820
490-150020-10	SB1 (12.5-14.5)	Total/NA	Solid	6020A	509699
490-150020-11	SB1 (20-22)	Total/NA	Solid	6020A	509699
490-150020-12	SB2 (6-8)	Total/NA	Solid	6020A	509699
490-150020-13	SB2 (18-20)	Total/NA	Solid	6020A	509699
490-150020-14	SB3 (5-7)	Total/NA	Solid	6020A	509699

TestAmerica Nashville



# QC Association Summary

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

## Metals (Continued)

### Analysis Batch: 510598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-15	SB3 (15-17)	Total/NA	Solid	6020A	509699
490-150020-16	SB4 (10-12)	Total/NA	Solid	6020A	509699
490-150020-17	SB4 (18-20)	Total/NA	Solid	6020A	509699
490-150020-18	SB4 (18-20)-FD	Total/NA	Solid	6020A	509699
490-150020-19	SB5 (13-15)	Total/NA	Solid	6020A	509699
MB 490-509699/1-A	Method Blank	Total/NA	Solid	6020A	509699
MB 490-509820/1-A	Method Blank	Total/NA	Water	6020A	509820
LCS 490-509699/2-A	Lab Control Sample	Total/NA	Solid	6020A	509699
LCS 490-509820/2-A	Lab Control Sample	Total/NA	Water	6020A	509820
490-142417-A-3-Q MS	Matrix Spike	Total/NA	Solid	6020A	509699
490-142417-A-3-R MSD	Matrix Spike Duplicate	Total/NA	Solid	6020A	509699
490-150033-G-1-B MS	Matrix Spike	Total/NA	Water	6020A	509820
490-150033-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6020A	509820

### Analysis Batch: 510710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-3	GW3	Total/NA	Water	6020A	509820
490-150020-4	GW4	Total/NA	Water	6020A	509092
490-150020-6	GW7	Total/NA	Water	6020A	509820
490-150020-7	GW7-FD	Total/NA	Water	6020A	509820

### Prep Batch: 510904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-20	SB5 (16-18)	Total/NA	Solid	3051A	
490-150020-21	SB6 (6-8)	Total/NA	Solid	3051A	
490-150020-22	SB6 (13-15)	Total/NA	Solid	3051A	
490-150020-23	SB7 (11-13)	Total/NA	Solid	3051A	
490-150020-24	SB7 (18-20)	Total/NA	Solid	3051A	
490-150020-25	SB8 (11-13)	Total/NA	Solid	3051A	
490-150020-26	SB8 (21-23)	Total/NA	Solid	3051A	
MB 490-510904/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 490-510904/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 490-510904/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
490-150020-20 MS	SB5 (16-18)	Total/NA	Solid	3051A	
490-150020-20 MSD	SB5 (16-18)	Total/NA	Solid	3051A	

### Analysis Batch: 511305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-20	SB5 (16-18)	Total/NA	Solid	6020A	510904
490-150020-21	SB6 (6-8)	Total/NA	Solid	6020A	510904
490-150020-22	SB6 (13-15)	Total/NA	Solid	6020A	510904
490-150020-23	SB7 (11-13)	Total/NA	Solid	6020A	510904
490-150020-24	SB7 (18-20)	Total/NA	Solid	6020A	510904
490-150020-25	SB8 (11-13)	Total/NA	Solid	6020A	510904
490-150020-26	SB8 (21-23)	Total/NA	Solid	6020A	510904
MB 490-510904/1-A	Method Blank	Total/NA	Solid	6020A	510904
LCS 490-510904/2-A	Lab Control Sample	Total/NA	Solid	6020A	510904
LCSD 490-510904/3-A	Lab Control Sample Dup	Total/NA	Solid	6020A	510904
490-150020-20 MS	SB5 (16-18)	Total/NA	Solid	6020A	510904
490-150020-20 MSD	SB5 (16-18)	Total/NA	Solid	6020A	510904

TestAmerica Nashville



## QC Association Summary

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

### General Chemistry

Analysis Batch: 508445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-150020-10	SB1 (12.5-14.5)	Total/NA	Solid	Moisture	
490-150020-11	SB1 (20-22)	Total/NA	Solid	Moisture	
490-150020-12	SB2 (6-8)	Total/NA	Solid	Moisture	
490-150020-13	SB2 (18-20)	Total/NA	Solid	Moisture	
490-150020-14	SB3 (5-7)	Total/NA	Solid	Moisture	
490-150020-15	SB3 (15-17)	Total/NA	Solid	Moisture	
490-150020-16	SB4 (10-12)	Total/NA	Solid	Moisture	
490-150020-17	SB4 (18-20)	Total/NA	Solid	Moisture	
490-150020-18	SB4 (18-20)-FD	Total/NA	Solid	Moisture	
490-150020-19	SB5 (13-15)	Total/NA	Solid	Moisture	
490-150020-20	SB5 (16-18)	Total/NA	Solid	Moisture	
490-150020-21	SB6 (6-8)	Total/NA	Solid	Moisture	
490-150020-22	SB6 (13-15)	Total/NA	Solid	Moisture	
490-150020-23	SB7 (11-13)	Total/NA	Solid	Moisture	
490-150020-24	SB7 (18-20)	Total/NA	Solid	Moisture	
490-150020-25	SB8 (11-13)	Total/NA	Solid	Moisture	
490-150020-26	SB8 (21-23)	Total/NA	Solid	Moisture	
490-150020-12 DU	SB2 (6-8)	Total/NA	Solid	Moisture	
490-150020-24 DU	SB7 (18-20)	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW1**

**Date Collected: 04/11/18 10:05**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	510390	04/24/18 18:50	SW1	TAL NSH
Total/NA	Analysis	8260B		1	10 mL	10 mL	510123	04/23/18 21:48	S1S	TAL NSH
Total/NA	Analysis	8260B		10	10 mL	10 mL	510385	04/24/18 17:55	RP	TAL NSH
Total/NA	Prep	3510C			1000 mL	1 mL	508958	04/17/18 17:09	SCR	TAL NSH
Total/NA	Analysis	8270C		1			509306	04/19/18 13:22	NMB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	509820	04/20/18 18:51	RDF	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 17:12	BLG	TAL NSH

**Client Sample ID: GW2**

**Date Collected: 04/11/18 12:00**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	510390	04/24/18 17:28	SW1	TAL NSH
Total/NA	Analysis	8260B		1	10 mL	10 mL	510123	04/23/18 21:21	S1S	TAL NSH
Total/NA	Analysis	8260B		1	10 mL	10 mL	510385	04/24/18 16:36	RP	TAL NSH
Total/NA	Prep	3510C			1025 mL	1 mL	508958	04/17/18 17:09	SCR	TAL NSH
Total/NA	Analysis	8270C		1			509306	04/19/18 13:43	NMB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	509820	04/20/18 18:51	RDF	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 17:15	BLG	TAL NSH

**Client Sample ID: GW3**

**Date Collected: 04/11/18 14:30**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	510390	04/24/18 19:17	SW1	TAL NSH
Total/NA	Analysis	8260B		1	10 mL	10 mL	510123	04/23/18 20:55	S1S	TAL NSH
Total/NA	Analysis	8260B		10	10 mL	10 mL	510385	04/24/18 17:29	RP	TAL NSH
Total/NA	Prep	3510C			1050 mL	1 mL	508958	04/17/18 17:09	SCR	TAL NSH
Total/NA	Analysis	8270C		2	500 uL	1.0 mL	509306	04/19/18 14:05	NMB	TAL NSH
Total/NA	Prep	3510C			1050 mL	1 mL	508958	04/17/18 17:09	SCR	TAL NSH
Total/NA	Analysis	8270C		10			509306	04/19/18 16:37	NMB	TAL NSH
Total/NA	Prep	3510C			1050 mL	1 mL	508958	04/17/18 17:09	SCR	TAL NSH
Total/NA	Analysis	8270C		20			509306	04/19/18 17:21	NMB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	509820	04/20/18 18:51	RDF	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 17:18	BLG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	509820	04/20/18 18:51	RDF	TAL NSH
Total/NA	Analysis	6020A		1			510710	04/25/18 14:18	BLG	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW4**

**Date Collected: 04/11/18 15:36**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	510390	04/24/18 17:55	SW1	TAL NSH
Total/NA	Analysis	8260B		1	10 mL	10 mL	510123	04/23/18 20:28	S1S	TAL NSH
Total/NA	Analysis	8260B		1	10 mL	10 mL	510385	04/24/18 17:02	RP	TAL NSH
Total/NA	Prep	3510C			1000 mL	1 mL	508958	04/17/18 17:09	SCR	TAL NSH
Total/NA	Analysis	8270C		1			509306	04/19/18 14:27	NMB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	509092	04/18/18 11:04	WJE	TAL NSH
Total/NA	Analysis	6020A		1			509821	04/20/18 15:19	BLG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	509092	04/18/18 11:04	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510710	04/25/18 13:31	BLG	TAL NSH

**Client Sample ID: GW5**

**Date Collected: 04/11/18 16:45**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-5**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	510390	04/24/18 18:23	SW1	TAL NSH
Total/NA	Analysis	8260B		1	10 mL	10 mL	510123	04/23/18 20:02	S1S	TAL NSH
Total/NA	Analysis	8260B		10	10 mL	10 mL	510385	04/24/18 18:22	RP	TAL NSH
Total/NA	Prep	3510C			950 mL	1 mL	508958	04/17/18 17:09	SCR	TAL NSH
Total/NA	Analysis	8270C		1	500 uL	1.0 mL	509306	04/19/18 14:48	NMB	TAL NSH
Total/NA	Prep	3510C			950 mL	1 mL	508958	04/17/18 17:09	SCR	TAL NSH
Total/NA	Analysis	8270C		25			509306	04/19/18 16:59	NMB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	509820	04/20/18 18:51	RDF	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 17:21	BLG	TAL NSH

**Client Sample ID: GW7**

**Date Collected: 04/12/18 09:44**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-6**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	510390	04/24/18 17:01	SW1	TAL NSH
Total/NA	Analysis	8260B		1	10 mL	10 mL	510123	04/23/18 19:35	S1S	TAL NSH
Total/NA	Prep	3510C			1025 mL	1 mL	508958	04/17/18 17:09	SCR	TAL NSH
Total/NA	Analysis	8270C		1	500 uL	1.0 mL	509306	04/19/18 15:10	NMB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	509820	04/20/18 18:51	RDF	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 17:24	BLG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	509820	04/20/18 18:51	RDF	TAL NSH
Total/NA	Analysis	6020A		1			510710	04/25/18 14:21	BLG	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: GW7-FD**

**Date Collected: 04/12/18 09:44**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-7**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	510390	04/24/18 16:33	SW1	TAL NSH
Total/NA	Analysis	8260B		1	10 mL	10 mL	510123	04/23/18 19:09	S1S	TAL NSH
Total/NA	Prep	3510C			1050 mL	1 mL	508958	04/17/18 17:09	SCR	TAL NSH
Total/NA	Analysis	8270C		1			509306	04/19/18 15:32	NMB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	509820	04/20/18 18:51	RDF	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 16:22	BLG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	509820	04/20/18 18:51	RDF	TAL NSH
Total/NA	Analysis	6020A		1			510710	04/25/18 14:15	BLG	TAL NSH

**Client Sample ID: Equipment Blank**

**Date Collected: 04/12/18 10:55**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-8**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	510390	04/24/18 16:06	SW1	TAL NSH
Total/NA	Analysis	8260B		1	10 mL	10 mL	510123	04/23/18 15:39	S1S	TAL NSH
Total/NA	Prep	3510C			1080 mL	1 mL	508958	04/17/18 17:09	SCR	TAL NSH
Total/NA	Analysis	8270C		1	500 uL	1.0 mL	509306	04/19/18 15:54	NMB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	509092	04/18/18 11:04	WJE	TAL NSH
Total/NA	Analysis	6020A		1			509821	04/20/18 15:25	BLG	TAL NSH

**Client Sample ID: Field Blank**

**Date Collected: 04/12/18 11:12**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-9**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	510390	04/24/18 15:39	SW1	TAL NSH
Total/NA	Analysis	8260B		1	10 mL	10 mL	510123	04/23/18 15:12	S1S	TAL NSH
Total/NA	Prep	3510C			1050 mL	1 mL	508958	04/17/18 17:09	SCR	TAL NSH
Total/NA	Analysis	8270C		1			509306	04/19/18 16:15	NMB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	509092	04/18/18 11:04	WJE	TAL NSH
Total/NA	Analysis	6020A		1			509821	04/20/18 15:22	BLG	TAL NSH

**Client Sample ID: SB1 (12.5-14.5)**

**Date Collected: 04/11/18 09:18**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-10**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB1 (12.5-14.5)**

**Date Collected: 04/11/18 09:18**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-10**

**Matrix: Solid**

**Percent Solids: 79.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.214 g	5.0 mL	508639	04/11/18 09:18	JLP	TAL NSH
Total/NA	Analysis	8260B		1	0.2 mL	10 mL	510643	04/25/18 21:18	RP	TAL NSH
Total/NA	Prep	5035			6.214 g	5.0 mL	508639	04/11/18 09:18	JLP	TAL NSH
Total/NA	Analysis	8260B		1	0.2 mL	10 mL	510617	04/25/18 18:37	S1S	TAL NSH
Total/NA	Prep	5035			6.851 g	5.0 mL	508640	04/11/18 09:18	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510282	04/24/18 18:07	P1B	TAL NSH
Total/NA	Prep	3550C			30.20 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 12:39	KME	TAL NSH
Total/NA	Prep	3051A			0.54 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510374	04/23/18 22:44	BLG	TAL NSH
Total/NA	Prep	3051A			0.54 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 22:22	BLG	TAL NSH

**Client Sample ID: SB1 (20-22)**

**Date Collected: 04/11/18 09:45**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-11**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

**Client Sample ID: SB1 (20-22)**

**Date Collected: 04/11/18 09:45**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-11**

**Matrix: Solid**

**Percent Solids: 80.9**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.142 g	5.0 mL	508640	04/11/18 09:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510282	04/24/18 18:38	P1B	TAL NSH
Total/NA	Prep	5035			6.598 g	5.0 mL	508640	04/11/18 09:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510576	04/25/18 16:56	RP	TAL NSH
Total/NA	Prep	3550C			30.73 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 13:44	KME	TAL NSH
Total/NA	Prep	3051A			0.52 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510374	04/23/18 22:47	BLG	TAL NSH
Total/NA	Prep	3051A			0.52 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 22:25	BLG	TAL NSH

**Client Sample ID: SB2 (6-8)**

**Date Collected: 04/11/18 11:35**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-12**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB2 (6-8)**

**Date Collected: 04/11/18 11:35**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-12**

**Matrix: Solid**

**Percent Solids: 77.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.661 g	5.0 mL	508640	04/11/18 11:35	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510282	04/24/18 19:08	P1B	TAL NSH
Total/NA	Prep	3550C			30.33 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 14:06	KME	TAL NSH
Total/NA	Prep	3051A			0.55 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510374	04/23/18 22:50	BLG	TAL NSH
Total/NA	Prep	3051A			0.55 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 22:35	BLG	TAL NSH

**Client Sample ID: SB2 (18-20)**

**Date Collected: 04/11/18 11:40**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-13**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

**Client Sample ID: SB2 (18-20)**

**Date Collected: 04/11/18 11:40**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-13**

**Matrix: Solid**

**Percent Solids: 81.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.845 g	5.0 mL	508640	04/11/18 11:40	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510282	04/24/18 19:39	P1B	TAL NSH
Total/NA	Prep	3550C			30.11 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 14:27	KME	TAL NSH
Total/NA	Prep	3051A			0.58 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510374	04/23/18 22:53	BLG	TAL NSH
Total/NA	Prep	3051A			0.58 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 22:38	BLG	TAL NSH

**Client Sample ID: SB3 (5-7)**

**Date Collected: 04/11/18 14:08**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-14**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

**Client Sample ID: SB3 (5-7)**

**Date Collected: 04/11/18 14:08**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-14**

**Matrix: Solid**

**Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.084 g	5.0 mL	508640	04/11/18 14:08	JLP	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB3 (5-7)**

**Date Collected: 04/11/18 14:08**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-14**

**Matrix: Solid**

**Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	5 mL	510282	04/24/18 20:10	P1B	TAL NSH
Total/NA	Prep	3550C			30.33 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		5			509598	04/20/18 14:49	KME	TAL NSH
Total/NA	Prep	3051A			0.52 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510374	04/23/18 22:56	BLG	TAL NSH
Total/NA	Prep	3051A			0.52 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 22:41	BLG	TAL NSH

**Client Sample ID: SB3 (15-17)**

**Date Collected: 04/11/18 14:18**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-15**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

**Client Sample ID: SB3 (15-17)**

**Date Collected: 04/11/18 14:18**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-15**

**Matrix: Solid**

**Percent Solids: 81.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.473 g	5.0 mL	508640	04/11/18 14:18	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510282	04/24/18 20:41	P1B	TAL NSH
Total/NA	Prep	3550C			30.30 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 15:11	KME	TAL NSH
Total/NA	Prep	3051A			0.52 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510374	04/23/18 22:59	BLG	TAL NSH
Total/NA	Prep	3051A			0.52 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 22:44	BLG	TAL NSH

**Client Sample ID: SB4 (10-12)**

**Date Collected: 04/11/18 15:18**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-16**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

**Client Sample ID: SB4 (10-12)**

**Date Collected: 04/11/18 15:18**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-16**

**Matrix: Solid**

**Percent Solids: 79.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.672 g	5.0 mL	508640	04/11/18 15:18	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510576	04/25/18 17:27	RP	TAL NSH

TestAmerica Nashville



# Lab Chronicle

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.29 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 15:32	KME	TAL NSH
Total/NA	Prep	3051A			0.56 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510374	04/23/18 23:09	BLG	TAL NSH
Total/NA	Prep	3051A			0.56 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 22:47	BLG	TAL NSH

**Client Sample ID: SB4 (18-20)**

**Date Collected: 04/11/18 15:29**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-17**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

**Client Sample ID: SB4 (18-20)**

**Date Collected: 04/11/18 15:29**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-17**

**Matrix: Solid**

**Percent Solids: 77.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.568 g	5.0 mL	508640	04/11/18 15:29	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510576	04/25/18 17:58	RP	TAL NSH
Total/NA	Prep	3550C			30.05 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 15:54	KME	TAL NSH
Total/NA	Prep	3051A			0.52 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510374	04/23/18 23:12	BLG	TAL NSH
Total/NA	Prep	3051A			0.52 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 22:50	BLG	TAL NSH

**Client Sample ID: SB4 (18-20)-FD**

**Date Collected: 04/11/18 15:29**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-18**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

**Client Sample ID: SB4 (18-20)-FD**

**Date Collected: 04/11/18 15:29**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-18**

**Matrix: Solid**

**Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.648 g	5.0 mL	508640	04/11/18 15:29	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510576	04/25/18 19:00	RP	TAL NSH
Total/NA	Prep	3550C			30.12 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 16:16	KME	TAL NSH
Total/NA	Prep	3051A			0.55 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510374	04/23/18 23:15	BLG	TAL NSH
Total/NA	Prep	3051A			0.55 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB4 (18-20)-FD**

**Date Collected: 04/11/18 15:29**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-18**

**Matrix: Solid**

**Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6020A		1			510598	04/24/18 22:53	BLG	TAL NSH

**Client Sample ID: SB5 (13-15)**

**Date Collected: 04/11/18 16:20**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-19**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

**Client Sample ID: SB5 (13-15)**

**Date Collected: 04/11/18 16:20**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-19**

**Matrix: Solid**

**Percent Solids: 76.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.567 g	5.0 mL	508640	04/11/18 16:20	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510576	04/25/18 18:29	RP	TAL NSH
Total/NA	Prep	3550C			30.29 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 16:37	KME	TAL NSH
Total/NA	Prep	3051A			0.51 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510374	04/23/18 23:18	BLG	TAL NSH
Total/NA	Prep	3051A			0.51 g	100 mL	509699	04/20/18 12:55	WJE	TAL NSH
Total/NA	Analysis	6020A		1			510598	04/24/18 22:56	BLG	TAL NSH

**Client Sample ID: SB5 (16-18)**

**Date Collected: 04/11/18 16:34**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-20**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

**Client Sample ID: SB5 (16-18)**

**Date Collected: 04/11/18 16:34**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-20**

**Matrix: Solid**

**Percent Solids: 73.7**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.618 g	5.0 mL	508639	04/11/18 16:34	JLP	TAL NSH
Total/NA	Analysis	8260B		1	0.2 mL	10 mL	510643	04/25/18 22:13	RP	TAL NSH
Total/NA	Prep	5035			6.618 g	5.0 mL	508639	04/11/18 16:34	JLP	TAL NSH
Total/NA	Analysis	8260B		20	0.2 mL	10 mL	510643	04/25/18 22:41	RP	TAL NSH
Total/NA	Prep	5035			6.618 g	5.0 mL	508639	04/11/18 16:34	JLP	TAL NSH
Total/NA	Analysis	8260B		20	0.2 mL	10 mL	510617	04/25/18 19:57	S1S	TAL NSH
Total/NA	Prep	3550C			30.78 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		2			509598	04/20/18 16:59	KME	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			0.56 g	100 mL	510904	04/26/18 11:25	WJE	TAL NSH
Total/NA	Analysis	6020A		1			511305	04/26/18 17:11	BLG	TAL NSH

**Client Sample ID: SB6 (6-8)**

**Date Collected: 04/12/18 08:19**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-21**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

**Client Sample ID: SB6 (6-8)**

**Date Collected: 04/12/18 08:19**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-21**

**Matrix: Solid**

**Percent Solids: 79.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.641 g	5.0 mL	508640	04/12/18 08:19	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510576	04/25/18 21:03	RP	TAL NSH
Total/NA	Prep	3550C			30.22 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 17:21	KME	TAL NSH
Total/NA	Prep	3051A			0.53 g	100 mL	510904	04/26/18 11:25	WJE	TAL NSH
Total/NA	Analysis	6020A		1			511305	04/26/18 17:27	BLG	TAL NSH

**Client Sample ID: SB6 (13-15)**

**Date Collected: 04/12/18 08:25**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-22**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

**Client Sample ID: SB6 (13-15)**

**Date Collected: 04/12/18 08:25**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-22**

**Matrix: Solid**

**Percent Solids: 79.2**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.754 g	5.0 mL	508640	04/12/18 08:25	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510576	04/25/18 21:34	RP	TAL NSH
Total/NA	Prep	3550C			30.52 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 17:42	KME	TAL NSH
Total/NA	Prep	3051A			0.58 g	100 mL	510904	04/26/18 11:25	WJE	TAL NSH
Total/NA	Analysis	6020A		1			511305	04/26/18 17:30	BLG	TAL NSH

**Client Sample ID: SB7 (11-13)**

**Date Collected: 04/12/18 09:19**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-23**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB7 (11-13)**

**Date Collected: 04/12/18 09:19**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-23**

**Matrix: Solid**

**Percent Solids: 75.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.085 g	5.0 mL	508640	04/12/18 09:19	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510576	04/25/18 22:05	RP	TAL NSH
Total/NA	Prep	5035			5.462 g	5.0 mL	508639	04/12/18 09:19	JLP	TAL NSH
Total/NA	Analysis	8260B		1	0.1 mL	5 mL	510907	04/26/18 18:38	RP	TAL NSH
Total/NA	Prep	3550C			30.22 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 18:04	KME	TAL NSH
Total/NA	Prep	3051A			0.53 g	100 mL	510904	04/26/18 11:25	WJE	TAL NSH
Total/NA	Analysis	6020A		1			511305	04/26/18 17:39	BLG	TAL NSH

**Client Sample ID: SB7 (18-20)**

**Date Collected: 04/12/18 09:36**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-24**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

**Client Sample ID: SB7 (18-20)**

**Date Collected: 04/12/18 09:36**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-24**

**Matrix: Solid**

**Percent Solids: 81.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.249 g	5.0 mL	508640	04/12/18 09:36	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510576	04/25/18 22:35	RP	TAL NSH
Total/NA	Prep	3550C			30.77 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 18:26	KME	TAL NSH
Total/NA	Prep	3051A			0.57 g	100 mL	510904	04/26/18 11:25	WJE	TAL NSH
Total/NA	Analysis	6020A		1			511305	04/26/18 17:42	BLG	TAL NSH

**Client Sample ID: SB8 (11-13)**

**Date Collected: 04/12/18 10:28**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-25**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

**Client Sample ID: SB8 (11-13)**

**Date Collected: 04/12/18 10:28**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-25**

**Matrix: Solid**

**Percent Solids: 74.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.03 g	5.0 mL	508640	04/12/18 10:28	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510576	04/25/18 23:06	RP	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

**Client Sample ID: SB8 (11-13)**

**Date Collected: 04/12/18 10:28**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-25**

**Matrix: Solid**

**Percent Solids: 74.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			30.21 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 18:47	KME	TAL NSH
Total/NA	Prep	3051A			0.54 g	100 mL	510904	04/26/18 11:25	WJE	TAL NSH
Total/NA	Analysis	6020A		1			511305	04/26/18 17:45	BLG	TAL NSH

**Client Sample ID: SB8 (21-23)**

**Date Collected: 04/12/18 10:35**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-26**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			508445	04/15/18 11:26	BAA	TAL NSH

**Client Sample ID: SB8 (21-23)**

**Date Collected: 04/12/18 10:35**

**Date Received: 04/13/18 09:30**

**Lab Sample ID: 490-150020-26**

**Matrix: Solid**

**Percent Solids: 78.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.456 g	5.0 mL	508640	04/12/18 10:35	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5 g	5 mL	510576	04/25/18 23:37	RP	TAL NSH
Total/NA	Prep	3550C			30.90 g	1.00 mL	508376	04/14/18 13:01	AMD	TAL NSH
Total/NA	Analysis	8270C		1			509598	04/20/18 19:09	KME	TAL NSH
Total/NA	Prep	3051A			0.54 g	100 mL	510904	04/26/18 11:25	WJE	TAL NSH
Total/NA	Analysis	6020A		1			511305	04/26/18 17:48	BLG	TAL NSH

## Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

## Method Summary

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
6020A	Metals (ICP/MS)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH
3010A	Preparation, Total Metals	SW846	TAL NSH
3051A	Preparation, Metals, Microwave Assisted	SW846	TAL NSH
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL NSH
3550C	Ultrasonic Extraction	SW846	TAL NSH
5030B	Purge and Trap	SW846	TAL NSH
5035	Closed System Purge and Trap	SW846	TAL NSH

### Protocol References:

EPA = US Environmental Protection Agency

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

### Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# Accreditation/Certification Summary

Client: Tetra Tech EM Inc.  
Project/Site: Fashions R Boutique

TestAmerica Job ID: 490-150020-1

## Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-19
A2LA	ISO/IEC 17025		0453.07	12-31-19
Alaska (UST)	State Program	10	UST-087	06-30-18
Arizona	State Program	9	AZ0473	05-05-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-19
Florida	NELAP	4	E87358	06-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2L A)	06-30-18
Illinois	NELAP	5	200010	12-09-18
Iowa	State Program	7	131	04-01-18 *
Kansas	NELAP	7	E-10229	10-31-18
Kentucky (UST)	State Program	4	19	06-30-18
Kentucky (WW)	State Program	4	90038	12-31-18
Louisiana	NELAP	6	30613	06-30-18
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-19
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-999-345	12-31-18
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2963	10-09-18
New Jersey	NELAP	2	TN965	06-30-18
New York	NELAP	2	11342	03-31-18 *
North Carolina (WW/SW)	State Program	4	387	12-31-18
North Dakota	State Program	8	R-146	06-30-18
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAO00268	12-30-18
South Carolina	State Program	4	84009 (001)	02-28-18 *
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-18
Virginia	NELAP	3	460152	06-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-19
Wisconsin	State Program	5	998020430	08-31-18
Wyoming (UST)	A2LA	8	453.07	12-31-19

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

TestAmerica Nashville



## COOLER RECEIPT FORM



490-150020 Chain of Custody

Cooler Received/Opened On 4/13/2018 @ 0930

Time Samples Removed From Cooler 1245 Time Samples Placed In Storage 2010 (2 Hour Window)

1. Tracking # 1016 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 31470368 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 3.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? 1 (Back) 1 (Front) YES...NO...NA

If yes, how many and where: 1 (Back) 1 (Front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? 2.2. YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) 2.2.

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA



➔ Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) ADT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ADT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ADT

I certify that I attached a label with the unique LIMS number to each container (initial) ADT

21. Were there Non-Conformance issues at login? YES...NO...NA Was a NCM generated? YES...NO...NA

## COOLER RECEIPT FORM

Cooler Received/Opened On 4/13/2018 @0930

Time Samples Removed From Cooler 14th Time Samples Placed In Storage 2010 (2 Hour Window)

1. Tracking # 1838 (last 4 digits, FedEx) Courier: FedEx  
IR Gun ID 17960353 pH Strip Lot N/A Chlorine Strip Lot N/A
  2. Temperature of rep. sample or temp blank when opened: 4.3 Degrees Celsius
  3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA
  4. Were custody seals on outside of cooler? YES...NO...NA  
If yes, how many and where: 1 Front / 1 Back
  5. Were the seals intact, signed, and dated correctly? YES...NO...NA
  6. Were custody papers inside cooler? YES...NO...NA
- I certify that I opened the cooler and answered questions 1-6 (initial) OR
7. Were custody seals on containers: YES NO and Intact YES...NO...NA  
Were these signed and dated correctly? YES...NO...NA
  8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
  9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None
  10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
  11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
  12. Did all container labels and tags agree with custody papers? YES...NO...NA
  - 13a. Were VOA vials received? YES...NO...NA
  - b. Was there any observable headspace present in any VOA vial? YES...NO...NA



Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) ASH

- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA
  - b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA
  16. Was residual chlorine present? YES...NO...NA
- I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ASH
17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
  18. Did you sign the custody papers in the appropriate place? YES...NO...NA
  19. Were correct containers used for the analysis requested? YES...NO...NA
  20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ASH

I certify that I attached a label with the unique LIMS number to each container (initial) ASH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# \_\_\_\_\_

## COOLER RECEIPT FORM

Cooler Received/Opened On 4/13/2018 @ 0930

Time Samples Removed From Cooler 1245 Time Samples Placed In Storage 2010 (2 Hour Window)

1. Tracking # 1050 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17960358 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 4.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen?

YES NO...NA

4. Were custody seals on outside of cooler?

YES...NO...NA

If yes, how many and where:

1 Front

5. Were the seals intact, signed, and dated correctly?

YES...NO...NA

6. Were custody papers inside cooler?

YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) GH

7. Were custody seals on containers: YES NO and Intact

YES...NO...NA

Were these signed and dated correctly?

YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)?

YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)?

YES...NO...NA

12. Did all container labels and tags agree with custody papers?

YES...NO...NA

13a. Were VOA vials received?

YES...NO...NA

b. Was there any observable headspace present in any VOA vial?

YES...NO...NA



Larger than this.

14. Was there a Trip Blank in this cooler? YES NO...NA If multiple coolers, sequence # 107

I certify that I unloaded the cooler and answered questions 7-14 (initial) ADT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level?

YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used

YES...NO...NA

16. Was residual chlorine present?

YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ADT

17. Were custody papers properly filled out (ink, signed, etc)?

YES...NO...NA

18. Did you sign the custody papers in the appropriate place?

YES...NO...NA

19. Were correct containers used for the analysis requested?

YES...NO...NA

20. Was sufficient amount of sample sent in each container?

YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ADT

I certify that I attached a label with the unique LIMS number to each container (initial) ADT

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

## COOLER RECEIPT FORM

Cooler Received/Opened On 4/13/2018 @ 0930

Time Samples Removed From Cooler 1049 Time Samples Placed In Storage 2010 (2 Hour Window)

1. Tracking # 1049 (last 4 digits/FedEx) Courier: FedEx

IR Gun ID 17960358 pH Strip Lot N/A Chlorine Strip Lot N/A

2. Temperature of rep. sample or temp blank when opened: 5.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) GH

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA



Larger than this.

14. Was there a Trip Blank in this cooler? YES NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) ADH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ADH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ADH

I certify that I attached a label with the unique LIMS number to each container (initial) ADH

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO...# \_\_\_\_\_

## COOLER RECEIPT FORM

Cooler Received/Opened On 4/13/2018 @ 0930

Time Samples Removed From Cooler 1945 Time Samples Placed In Storage 2010 (2 Hour Window)

1. Tracking # 1057 (last 4 digits, FedEx) Courier: FedEx  
IR Gun ID 17960358 pH Strip Lot N/A Chlorine Strip Lot N/A
2. Temperature of rep. sample or temp blank when opened: 3.8 Degrees Celsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA
4. Were custody seals on outside of cooler? YES...NO...NA  
If yes, how many and where: 1 Front
5. Were the seals intact, signed, and dated correctly? YES...NO...NA
6. Were custody papers inside cooler? YES...NO...NA  
SH
- I certify that I opened the cooler and answered questions 1-6 (initial) SH
7. Were custody seals on containers: YES NO and Intact YES...NO...NA  
Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA
- 13a. Were VOA vials received? YES...NO...NA
- b. Was there any observable headspace present in any VOA vial? YES...NO...NA



14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) SH

- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA
- b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA
16. Was residual chlorine present? YES...NO...NA
- I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) SH
17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) SH

I certify that I attached a label with the unique LIMS number to each container (initial) SH

21. Were there Non-Conformance issues at login? YES...NO...# NO Was a NCM generated? YES...NO...# \_\_\_\_\_

# TestAmerica Nashville

2960 Foster Creighton Drive  
Nashville, TN 37204  
Phone (615) 726-0177 Fax (615) 726-3404

## Chain of Custody Record

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information</b>		Sampler: <b>April Halley</b>	Lab P/N: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 490-82485-24173.1				
Client Contact: M/s. Emily Fisher	Phone: 618-925-7761	E-Mail: roxanne.cisneros@testamericainc.com			Page: 1 of 3 <b>AH1</b>				
Company: Tetra Tech EM Inc.	Address: 415 Oak Street City: Kansas City State, Zip: MO, 64106 Phone: 1149775	Due Date Requested:	<b>Analysis Requested</b>						
Project Name: Fashions R Boutique	Project #: 49013535	SSOW#:	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anhydrous H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)						
Site: Fashions R Boutique	SSOW#:	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> <b>Yes</b> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> <b>Yes</b>							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=solid, O=wastewater, BT=Tissue, Air/Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Preservation Codes	Special Instructions/Note
GW1	4-11-18	1005		Water	<input checked="" type="checkbox"/> <b>Yes</b>	<input checked="" type="checkbox"/> <b>Yes</b>			<b>No Mercury</b>
GW2	4-11-18	1200		Water	<input checked="" type="checkbox"/> <b>Yes</b>	<input checked="" type="checkbox"/> <b>Yes</b>			<b>Loc: A90 150020</b>
GW3	4-11-18	1430		Water	<input checked="" type="checkbox"/> <b>Yes</b>	<input checked="" type="checkbox"/> <b>Yes</b>			
GW4	4-11-18	1536		Water	<input checked="" type="checkbox"/> <b>Yes</b>	<input checked="" type="checkbox"/> <b>Yes</b>			
GW5	4-11-18	1645		Water	<input checked="" type="checkbox"/> <b>Yes</b>	<input checked="" type="checkbox"/> <b>Yes</b>			
GW7	4-12-18	0944		Water	<input checked="" type="checkbox"/> <b>Yes</b>	<input checked="" type="checkbox"/> <b>Yes</b>			
GW7-FD	4-12-18	0944		Water	<input checked="" type="checkbox"/> <b>Yes</b>	<input checked="" type="checkbox"/> <b>Yes</b>			
Field Rinseate	4-12-18	1055		Water	<input checked="" type="checkbox"/> <b>Yes</b>	<input checked="" type="checkbox"/> <b>Yes</b>			
Field Blank	4-12-18	1112		Water	<input checked="" type="checkbox"/> <b>Yes</b>	<input checked="" type="checkbox"/> <b>Yes</b>			
SB1 (12.5-14.5)	4-11-18	0918	G	Water	<input checked="" type="checkbox"/> <b>Yes</b>	<input checked="" type="checkbox"/> <b>Yes</b>			
SB1 (20-22)	4-11-18	0945	G	Water	<input checked="" type="checkbox"/> <b>Yes</b>	<input checked="" type="checkbox"/> <b>Yes</b>			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) _____ Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____ Relinquished by: <b>April Halley</b> Date/Time: 4-12-18 1500 Company: Tetra Tech Received by: <b>John Plunk</b> Date/Time: 4/13/18 Company: Tetra Tech Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: 3.1, 4.3, 4.2, 5.8, 3.6 Δ Yes Δ No									



# TestAmerica Nashville

2960 Foster Creighton Drive  
Nashville, TN 37204  
Phone (615) 726-0177 Fax (615) 726-3404

## Chain of Custody Record

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information</b>		Sampler:	Apr 1 Kelly		Lab P/N:	Cineros, Roxanne	Carrier Tracking No(s):	490-82485-24173.3
Client Contact:		Phone:	618 425-7761		E-Mail:	roxanne.cineros@testamericainc.com		Page 1 of 3 AM
Company:		Tetra Tech EM Inc.						
Address:		Due Date Requested:						
415 Oak Street		TAT Requested (days):						
City:		Standard						
State, Zip:		PO #:						
MO, 64106		1149775						
Phone:		WO #:						
Email:		Project #:						
emily.fisher@tetratech.com		49013535						
Project Name:		SSOW#:						
Fashions R Boutique								
Site:								
Fashions R Boutique								
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Polymer, Sealed, Compostable, BTF-Res A-44)	Field Filtered Sample (Yes or No)		
SB2 (6-8)	4-11-18	1135	G	Solid		Perform MS/MSD (Yes or No)		
SB2 (18-20)	4-11-18	1140	G	Solid		8260B - 8260 VOC + GRO, MO Oxy		
SB3 (5-7)	4-11-18	1408	G	Solid		6020A, 7470A		
SB3 (15-17)	4-11-18	1418	G	Solid		8270C - 8270 MO DRO/ORO/PAH		
SB4 (10-12)	4-11-18	1518	G	Solid		8260B - 8260 VOC + GRO, MO Oxy		
SB4 (18-20)	4-11-18	1529	G	Solid		6020A, 7471A, 8270C, Moisture		
SB4 (18-20)-F0	4-11-18	1529	G	Solid				
SB5 (13-15)	4-11-18	1620	G	Solid				
SB5 (16-18)	4-11-18	1634	G	Solid				
SB6 (6-8)	4-12-18	0819	G	Solid				
SB6 (13-15)	4-12-18	0825	G	Solid				
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months						
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:						
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:				
Relinquished by: April Kelly		4-12-18	1500	Company:	Received By: [Signature]			
Relinquished by:		Date/Time:	Company:	Received By: [Signature]				
Relinquished by:		Date/Time:	Company:	Received By: [Signature]				
Custody Seals Intact:		Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:					
Δ Yes Δ No			3.4, 4.3, 4.2, 5.8, 3.8					



TestAmerica Nashville

2960 Foster Creighton Drive  
Nashville, TN 37204  
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information</b>		Sampler: <b>April Haller</b>	Lab P/N: Cisneros, Roxanne	Carrier Tracking No(s):	COC No. 490-82485-24173.4										
Client Contact: Ms. Emily Fisher	Phone: 618-925-7761	E-Mail: roxanne.cisneros@testamerica.com	Page 3 of 3 AH												
Company: Tetra Tech EM Inc.	Analysis Requested														
Address: 415 Oak Street	Due Date Requested:	TAT Requested (days):													
City: Kansas City	Standard														
State, Zip: MO, 64106	PO #: 1149775	W/O #:													
Phone:	Email: emily.fisher@tetratech.com														
Project Name: Fashions R. Boutique	Project #: 49013535	SSOV#:													
Site: Fashions R. Boutique	Sample Identification														
Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=volatile, B=trace, A=AA)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - 8260 VOC + GRO, MO Oxy	6020A, 7470A	8270C - 8270 MO DRO/ORO/PAH	8260B - 8260 VOC + GRO, MO Oxy	6020A, 7471A, 8270C, Moisture	Total Number of containers	Special Instructions/Note:		
SB7 (11-13)	4-12-18	0919	G	Solid									5	No mercury	
SB7 (18-20)	4-12-18	0936	G	Solid									5		
SB8 (11-13)	4-12-18	1028	G	Solid									5		
SB8 (21-23)	4-12-18	1035	G	Solid									5		
				Solid											
				Solid											
				Solid											
Possible Hazard Identification														Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological														<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)														Special Instructions/QC Requirements:	
Empty Kit Relinquished by:														Date:	
Relinquished by: April Haller														Date/Time: 4-12-18 1500	
Relinquished by: Tetra Tech														Date/Time: 4/13/18 0530	
Relinquished by: Company														Date/Time: Company	
Relinquished by: Company														Date/Time: Company	
Custody Seals Intact: Yes No														Custody Seal No.:	
Cooler Temperature(s) °C and Other Remarks: 3, 4, 3, 4, 2, 5, 3, 8														Ver: 08/04/2015	

**Tetra Tech, Inc.**  
**DATA VALIDATION REPORT**  
**LEVEL II**

Site: Fashions R Boutique Site

Laboratory: TestAmerica Laboratories (Nashville, Tennessee)

Data Reviewer: Harry Ellis, Tetra Tech, Inc. (Tetra Tech)

Review Date: May 9, 2018

Sample Delivery Group (SDG): J150020

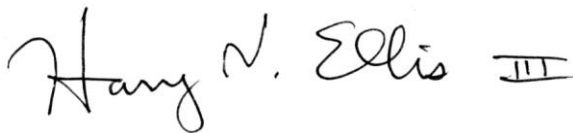
Sample Numbers: SB1 (12.5-14.5), SB1 (20-22), SB2 (6-8), SB2 (18-20), SB3 (6-7), SB3 (15-17), SB4 (10-12) SB4 (18-20), SB4 (18-20)-FD, SB5 13-15), SB5 (16-18), SB6 6-8), SB6 (13-15), SB7 (11-13), SB7 (18-20), SB8 (11-13), SB8 (21-23), GW1. GW2. GW3. GW4, GW5, GW7, GW7-FD, Equipment Blank, and Field Blank

Matrix / Number of Samples: Sixteen Soil Samples, Five Water Samples, Two Field Duplicates and Two Blank Samples

The data were qualified according to the U.S. Environmental Protection Agency (EPA) Region 7 documents entitled "Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", dated January 2017, and "Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review", also dated January 2017. In addition, the Tetra Tech document "Review of Data Packages from Subcontracted Laboratories" (February 2002) was used along with other criteria specified in the applicable methods.

The review was intended to identify problems and quality control (QC) deficiencies that were readily apparent from the summary data package. The following sections discuss any problems or deficiencies that were found, and data qualifications applied because of non-compliant QC. The data review was limited to the available field and laboratory QC information submitted with the project-specific data package.

I, Harry Ellis, certify that all data validation criteria outlined in the above-referenced documents were assessed, and any qualifications made to the data accorded with those documents.



9 May 2018

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Certified by Harry Ellis, Chemist

---

Date

## DATA VALIDATION QUALIFIERS

- U** — The analyte was not detected above the reported sample quantitation limit.
- J** — The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** — The analyte was not detected above the reported sample quantitation limit, which is estimated.
- R** — The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet QC criteria. Presence or absence of the analyte cannot be verified.

## **DATA ASSESSMENT**

Sample delivery group (SDG) J150020 included sixteen (16) environmental soil samples, five (5) environmental groundwater samples, and four (4) quality control (QC) samples (one soil field duplicate, one groundwater field duplicate, one equipment blank and one field blank). Samples were analyzed for volatile organic compounds (VOC) by EPA SW-846 Method 8260B, polynuclear aromatic hydrocarbons (PAH) by EPA SW-846 Method 8270C, total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO, and oil range organics (ORO) by EPA SW-846 Methods 8260B and 8270C, and metals by EPA SW-846 Method 6020A. The following summarizes the data validation that was performed.

### **VOLATILE ORGANIC COMPOUND ANALYSES**

#### **I. Holding Time and Chain of Custody (COC) Requirements**

The samples were received by the laboratory and analyzed within the established holding time of 14 days from sample collection to analysis. No data were qualified. However, several vials were received with significant headspace, which may result in loss of analyte. These included the vials used for the undiluted analyses of samples GW4 and GW5 and those used for the diluted analyses of samples GW1 and GW5. The results for these analyses were qualified as estimated, possibly biased low, and flagged “J” or “UJ”, as appropriate.

#### **II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)**

Due to insufficient sample volume, no MS/MSD analyses were performed on these samples. The MS/MSD analyses performed on samples from other sites were not evaluated.

#### **III. Blanks**

Most laboratory (method) blanks yielded no detectable concentrations of analytes, but a few yielded low concentrations of one or two aromatic compounds (such as naphthalene and m+p-xylenes). The similar concentrations found in a few samples were qualified as laboratory artifacts and flagged “U”.

In addition, the equipment and field blanks yielded low concentrations of the common laboratory contaminant acetone. Reported groundwater and soil concentrations of acetone were qualified as handling artifacts. Results below the sample reporting limits (RL) were qualified as nondetected and flagged zero, while those above the RL were qualified as estimated, possibly biased high, and flagged “J”.

#### **IV. Laboratory Control Sample (LCS)**

All percent recoveries from the LCS analyses were within established control limits. No qualifications were applied.

#### **V. Surrogates**

Most surrogate recoveries were within their QC limits. In a few soil samples, one or two (of four) surrogates yielded a slightly high recovery in one analysis, but not in a re-analysis. No qualifications were applied for these minor irregularities.

## VI. Comments

Some detected concentrations were less than their reporting limits (“RL”). These low-concentration results were qualified as estimated (flagged “J”). In addition, several samples yielded one or more analytes at concentrations above their calibration range. TestAmerica reanalyzed these at appropriate dilutions to bring the results within calibration range, so no further qualifications were applied.

Field duplicate results were reasonably similar. No qualifications were applied.

## VII. Overall Assessment of Data

Overall data quality is acceptable, with no major qualifications applied. All data are usable as qualified for their intended purposes.

# POLYNUCLEAR AROMATIC HYDROCARBON ANALYSES

## I. Holding Time and Chain of Custody (COC) Requirements

The samples were received by the laboratory and analyzed within the established holding time of 14 days from sample collection to extraction and 40 days to analysis. No data were qualified.

## II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Due to insufficient sample volume, no aqueous MS/MSD analyses were performed. No qualifications were applied for this data gap. All results from the soil MS/MSD analyses were within limits, so no qualifications were applied.

## III. Blanks

The laboratory (method) blank yielded no detectable PAH, so no qualifications were applied.

## IV. Laboratory Control Sample (LCS)

All percent recoveries from the LCS analyses were within established control limits. No qualifications were applied.

## V. Surrogates

Almost all surrogate recoveries were within QC limits. The exception was one (of three) surrogates in sample GW5. No qualifications were applied.

## VI. Comments

Some detected concentrations were less than their RLs. These low-concentration results were qualified as estimated (flagged “J”). Due to matrix interference, sample GW5 and some soil samples were analyzed at 2- of 5-fold dilutions. No qualifications were applied, but the nondetected results from these samples are not comparable to those of other samples. And a few samples were reanalyzed at dilutions for specific analytes, to bring them within calibration range. Again, no qualifications were applied.

Field duplicate results were quite similar.

#### VII. Overall Assessment of Data

Overall data quality is acceptable, with no significant applied. All data are usable as reported for their intended purposes.

### **TOTAL PETROLEUM HYDROCARBON ANALYSES**

#### I. Holding Time and Chain of Custody (COC) Requirements

The samples were received by the laboratory and analyzed within the established holding times. No data were qualified.

#### II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

All MS/MSD results were within limits. No qualifications were applied.

#### III. Blanks

The laboratory (method) blanks yielded low concentrations of DRO and ORO. Field sample results less than their reporting limits were qualified as laboratory artifacts and flagged “U”. Higher concentration results were not qualified.

#### IV. Laboratory Control Sample (LCS)

All percent recoveries from the LCS analyses were within established control limits. No qualifications were applied.

#### V. Surrogates

Almost all surrogate recoveries were within QC limits. The exception was one (of three) surrogates in sample GW5. No qualifications were applied.

#### VI. Comments

Some detected concentrations were less than their RLs. These low-concentration results were qualified as estimated (flagged “J”). Due to matrix interference, sample GW5 and some soil samples were analyzed at 2- of 5-fold dilutions. No qualifications were applied, but the nondetected results from these samples are not comparable to those of other samples. And a few samples were reanalyzed at dilutions for DRO to bring it within calibration range. Again, no qualifications were applied.

Field duplicate results were quite similar.

#### VII. Overall Assessment of Data

Overall data quality is acceptable, with few qualifications applied. All data are usable as qualified for their intended purposes.

## METALS ANALYSES

### I. Holding Time and Chain of Custody (COC) Requirements

The samples were received by the laboratory and analyzed within the established holding time of 6 months from sample collection to analysis. No data were qualified.

### II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD analyses performed on samples from other sites were not evaluated. In the MS/MSD analyses performed on sample SB5 (16-18), recoveries of barium could not be determined because the unspiked sample concentration was much higher than the spike. No qualifications were applied for this data gap. Chromium recoveries were 73 and 83 percent, versus the QC limits of 75 to 125 percent. Since the average recovery was acceptable, no qualifications were applied. Selenium recoveries were acceptable, but the RPD was 23 percent, just above the limit of 20 percent. Selenium was not detected in the unspiked sample, so no qualifications were applied.

### III. Blanks

Some laboratory blanks yielded low concentrations of barium, chromium, and/or selenium. Field sample results less than their reporting limit were qualified as laboratory artifacts and flagged "U". Higher concentrations were not qualified. After applying these qualifications, the equipment and field blanks had chromium concentrations somewhat above their reporting limits. Soil and groundwater chromium concentrations were much higher, so they were not qualified.

### IV. Laboratory Control Sample (LCS)

All percent recoveries from the LCS analyses were within established control limits. No qualifications were applied.

### V. Comments

Some detected concentrations (including all for silver) were less than their RLs. These low-concentration results were qualified as estimated (flagged "J").

The soil field duplicate results were quite similar, but sample GW7-DP yielded considerably higher concentrations of chromium, lead, arsenic, and selenium than sample GW7. This is probably due to different amounts of suspended solids in the two portions of the sample. Therefore the detected results for chromium, lead, arsenic, and selenium in both portions of that sample were qualified as estimated and flagged "J".

### VI. Overall Assessment of Data

Overall data quality is acceptable, with no major qualifications applied. All data are usable as qualified for their intended purposes.



## **APPENDIX F**

### **SUMMARY OF ANALYTICAL RESULTS**

TABLE F-1																			
SUMMARY OF ANALYTICAL RESULTS FROM SUBSURFACE SOIL SAMPLES																			
FASHIONS R BOUTIQUE, DELLWOOD, MISSOURI																			
Analyte	Sample Number (Depth, ft bgs)																	Lowest Default Target Level¹	RBTL Non-Residential²
	SB-1 (12.5-14.5)	SB-1 (20-22)	SB-2 (6-8)	SB-2 (18-20)	SB-3 (5-7)	SB-3 (15-17)	SB-4 (10-12)	SB-4 (18-20)	SB-4 (18-20)-FD	SB-5 (13-15)	SB-5 (16-18)	SB-6 (6-8)	SB-6 (13-15)	SB-7 (11-13)	SB-7 (18-20)	SB-8 (11-13)	SB-8 (21-23)		
DETECTED VOLATILE ORGANIC COMPOUNDS (mg/kg)																			
Acetone	0.0224 J	0.0130 J	ND	ND	0.0707	0.0154 J	ND	ND	0.0102 J	0.00301	ND	0.00163 J	0.0204 J	ND	0.0111 J	0.123	0.0718	4.20	115,000
Benzene	0.00867	ND	ND	ND	0.00106 J	ND	ND	ND	ND	ND	ND	ND	ND	0.00351	ND	ND	ND	0.0561	7.15
Carbon Disulfide	0.00584	ND	ND	ND	0.00933	ND	ND	ND	ND	ND	ND	0.0117	ND	ND	ND	ND	ND	6.26	172
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00146 J	ND	0.00189	ND	ND	ND	39.9	5,200
Isopropylbenzene	0.138	0.00741	ND	ND	ND	ND	ND	ND	ND	0.00855	3.75	0.00695	ND	0.00463	ND	ND	ND	10.5	267
4-Isopropyltoluene	0.0447	0.00185 J	ND	ND	ND	ND	ND	ND	ND	ND	0.583	0.000835 J	ND	0.00213	ND	ND	ND	271	28,800
Methylene Chloride	0.0128	0.0130	0.0126	0.0127	0.0137	0.0117	0.0100	0.0122	0.0300	0.0139	0.196 J ³	0.0257	0.0121	0.0124	0.0124	0.0187	0.0132	0.0176	77
Methyl tert-butyl ether	ND	ND	ND	ND	ND	0.0140	0.00519	0.00498	0.00485	ND	ND	ND	ND	ND	0.00156 J	ND	ND	0.398	615
m-Xylene & p-Xylene	ND	0.000704 J B	ND	ND	0.00110 J B	ND	ND	ND	ND	ND	ND	0.0117	ND	0.00301 J	ND	ND	ND	NE	NE
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.42	ND	ND	ND	ND	ND	ND	0.325	443
n-Butylbenzene	1.7	0.0781	0.00111 J	ND	ND	ND	0.00144 J	ND	ND	0.0198	21.6	0.00296	ND	0.0309	ND	ND	ND	41.6	3,080
n-Propylbenzene	0.640	0.0710	0.000685 J	ND	ND	ND	ND	ND	ND	0.0298	31.4	0.0281	ND	0.0149	ND	ND	ND	13.0	1,060
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00192 J	ND	0.000862 J	ND	ND	ND	NE	NE
sec-Butylbenzene	0.376	0.0283	ND	ND	ND	ND	0.00236	0.000968 J	ND	0.00940	5.16	0.00492	ND	0.0415	ND	ND	ND	35.2	1,710
Toluene	ND	ND	ND	ND	0.00204 J	ND	ND	ND	ND	ND	ND	0.00306	ND	0.00124 J	ND	0.00109 J	0.00123 J	29.8	13,800
1,2,4-Trimethylbenzene	0.0185	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00696	ND	0.00565	ND	ND	ND	3.93	373
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00434	ND	0.00121 J	ND	ND	ND	0.882	59.6
Xylenes, Total	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0136	ND	0.00387 J	ND	ND	ND	24.7	663
DETECTED TOTAL PETROLEUM HYDROCARBONS (mg/kg)																			
TPH-ORO	10.6 J B	9.62 J B	10.2 J B	9.70 J B	51.1 J B	9.62 J B	9.76 J B	9.83 J B	9.83 J B	10.2 J B	19.8 J B	9.96 J B	9.61 J B	10.3 J B	7.17 J B	10 J B	9.58 J B	124,000	NE
TPH-GRO	153	6.46	ND	ND	ND	ND	1.84	0.636	ND	1.86	1,930	14.4	ND	26.5 J	ND	ND	ND	385	9,620
TPH-DRO	13.7 J B	10.0 J B	8.68 J B	8.66 J B	ND	8.02 J B	8.88 J B	8.68 J B	8.87 J B	9.40 J B	67.9 B	9.11 J B	8.94 J B	9.78 J B	7.75 J B	9.50 J B	8.68 J B	4,150	109,000
DETECTED METALS (mg/kg)																			
Arsenic	3.82	4.59	5.88	3.17	8.01	1.46	6.93	12.9	11.6	13.1	7.51	6.87	5.07	5.30	4.65	8.74	3.56	3.89	NE
Barium	86	72.6	193	85.4	151	103	161	136	145	138	139	123	111	109	69.4	223	74.5	2,043	NE
Chromium	12.1	20	13.3	19.5	18	16.6	17.1	15.5	17.8	23.4	21.1	10.2	15.7	13.5	15.9	21.5	11.6	74,600	NE
Lead	8.09	8.03	11.9	8.80	15	8.61	8.18	11	10.1	13.9	12.9	26.9	8.85	8.11	10.3	13.5	7.11	3.74	NE

Notes:

Only select analytes are listed in this table. A full analytical report is in Appendix E.

Bold font indicates concentration above reporting limit.

Blue fill indicates concentration above Default Target Level.

<sup>1</sup> Missouri Department of Natural Resources, Missouri Risk-Based Corrective Action, Lowest Default Target Level

<sup>2</sup> Missouri Risk-Based Corrective Action Tier 1 RBTL for non-residential land use, soil type 3, subsurface soil indoor inhalation of vapor emissions

<sup>3</sup> The sample result is above the LDTL, but is below the laboratory reporting limit

B	Compound was found in the blank and sample.
ft bgs	Feet below ground surface
J	Result is less than the reporting limit but greater than or equal to the method detection limit.
mg/kg	Milligrams per kilogram
ND	Not detected
NE	Not established
TPH-DRO	Total petroleum hydrocarbons - diesel range organics
TPH-GRO	Total petroleum hydrocarbons - gasoline range organics
TPH-ORO	Total petroleum hydrocarbons - oil range organics

TABLE F-2

SUMMARY OF ANALYTICAL RESULTS FROM GROUNDWATER SAMPLES  
FASHIONS R BOUTIQUE, DELLWOOD, MISSOURI

Analyte	Sample Location (Sample Number)									Lowest Default Target Level <sup>1</sup>	RBTL Non-Residential <sup>2</sup>
	SB-1 (GW1)	SB-2 (GW2)	SB-3 (GW3)	SB-4 (GW4)	SB-5 (GW5)	SB-7 (GW7)	SB-7 (GW7-FD)	Equipment Blank	Field Blank		
DETECTED VOLATILE ORGANIC COMPOUNDS (µg/L)											
Acetone	8.17 J	3.36 J	25.6	6.06 J	31.2	14.5 J	5.76 J	5.28 J	5.25 J	2,970	814,000,000
Benzene	1.61	ND	8.15	ND	1.18	ND	ND	ND	ND	5	15,100
Carbon Disulfide	0.377 J	0.612 J	0.678 J	0.312 J	1.29	1.06	0.635 J	ND	ND	527	309,000
Ethylbenzene	1.10	ND	12.6	ND	3.16	ND	ND	ND	ND	700	2,350,000
Isopropylbenzene	40.90	ND	166	ND	102	3.23	3.42	ND	ND	330	85,600
4-Isopropyltoluene	3.75	0.221 J	24.1	ND	9.46	1.28	1.14	ND	ND	786	2,210,000
Methylene Chloride	ND	ND	ND	ND	16.90	ND	ND	ND	ND	5	358,000
Methyl tert-butyl ether	ND	1.80	38	17.5	2.09	2.99	2.84	ND	ND	128	2,980,000
n-Butylbenzene	99.6	0.244 J	308	4.86	310	16.5	14.1	ND	ND	98.9	195,000
n-Propylbenzene	239	ND	962	ND	586	19.4	20.1	ND	ND	115	244,000
o-Xylene	ND	ND	ND	ND	1.18	ND	ND	ND	ND	NE	NE
sec-Butylbenzene	34.2	1.55	105	1.93	79.90	ND	6.54	ND	ND	106	137,000
1,2,4-Trimethylbenzene	ND	ND	ND	1.02	ND	ND	ND	ND	ND	82.8	17,700
1,3,5-Trimethylbenzene	4.81	ND	ND	ND	ND	ND	ND	ND	ND	464	12,500
DETECTED POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)											
Acenaphthene	1.13 J	ND	6.57	ND	7.19	ND	ND	ND	ND	165	40,900,000
Fluorene	0.844 J	ND	5.38	ND	6.12	ND	ND	ND	ND	103	74,100,000
Naphthalene	ND	ND	285	ND	ND	ND	ND	ND	ND	1.09	37,200
Phenanthrene	0.681 J	ND	5.83	ND	7.46	ND	ND	ND	ND	75	30,100,000
DETECTED TOTAL PETROLEUM HYDROCARBONS (µg/L)											
TPH-ORO	224 J B	252 J B	663 J B	282 J B	503 J B	248 J B	239 J B	298 J B	286 J B	31,800	NE
TPH-GRO	2,700	ND	104,000	400	15,900	1,590	1,250	ND	ND	18,100	454,000
TPH-DRO	3,080 B	202 J B	68,800 B	292 J B	64,100 B	851 B	711 B	181 J B	187 J B	34,300	2,830,000
DETECTED METALS (µg/L)											
Arsenic	15.6	20.9	47	221	142	59.3	129	ND	ND	10	NE
Barium	1,140 B	1,100 B	3,750 B	4,210 B	1,900 B	2,000 B	2,190 B	1.53 J B	0.494 J B	2,000	NE
Cadmium	2.01	50.1	2.47	171	5.8	65.6	90.6	ND	ND	5	NE
Chromium	14.7	13.5	37.1	170 B	33.7	45.6	147	4.01 B	2.31 B	100	NE
Lead	7.62	8.98	351	301	15.4	54.5	168	ND	ND	15	NE
Selenium	0.320 J B	ND	0.757 J	6.87	0.502	0.435 J	2.36	ND	ND	50	NE
Silver	ND	ND	ND	2.97	ND	ND	0.982 J	ND	ND	78	NE

Notes:

Only select analytes are listed in this table. A full analytical report is in Appendix E.

Bold font indicates concentration above reporting limit.

Blue fill indicates concentration above Default Target Level.

<sup>1</sup> Missouri Department of Natural Resources, Missouri Risk-Based Corrective Action, Lowest Default Target Level

<sup>2</sup> Missouri Risk-Based Corrective Action Tier 1 RBTL for non-residential land use, soil type 3, groundwater indoor inhalation of vapor emissions

- B

Compound was found in the blank and sample.
- J

Result is less than the reporting limit but greater than or equal to the method detection limit.
- ND

Not detected
- NE

Not established
- TPH-DRO

Total petroleum hydrocarbons - diesel range organics
- TPH-GRO

Total petroleum hydrocarbons - gasoline range organics
- TPH-ORO

Total petroleum hydrocarbons - oil range organics
- µg/L

Micrograms per liter

**ATTACHMENT 1**

**FASHIONS R BOUTIQUE PROPERTY PROFILE PHASE II FORM**



United States  
ENVIRONMENTAL PROTECTION AGENCY  
Washington, DC 20460

Form Approved  
OMB Number No. 2050-0192  
Expires 07-31-2012

PROPERTY PROFILE FORM—Brownfields

Public reporting burden for this collection of information is estimated to average 1.50 hours per response, including the time for reviewing instructions, searching data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate, or any other aspect of this collection of information, including suggestions for reducing this burden, to the Environmental Protection Agency, Office of Environmental Information, Code 2822T, Washington, DC 20460 and to the Paperwork Reduction Project, Office of Management and Budget, Washington, DC 20503. DO NOT RETURN your form to either of these addresses. Send your completed form to the address provided by the issuing office.

PART I- PROPERTY INFORMATION

COOPERATIVE AGREEMENT RECIPIENT INFORMATION

1. Cooperative Agreement Recipient Name (State/Tribe for Section 128(a) Cooperative Agreements; requestor/contractor for TBAs):

City of Dellwood

2. Cooperative Agreement Number (contract number for TBAs):

3. What type of cooperative agreement funding is being used for this property?

- ☐ Assessment ☐ Section 128(a) – State and Tribal Response  
☐ Revolving Loan Fund ☒ TBA (EPA Regions Only)  
☐ Cleanup

4. For Assessment, Cleanup, and Revolving Loan Fund cooperative agreements, what type of funding is being used at this property?

- ☐ Hazardous Substance ☐ Petroleum ☐ Both

5a. Indicate if this form is the initial or Updated Form:

- ☒ Initial Form ☐ Updated Form

5b. If "Updated Form," what's the ACRES Property ID?

PROPERTY BACKGROUND INFORMATION

6. Property Name: Fashions R Boutique

7a. Street Address: 9844 West Florissant Avenue

7b. City: Dellwood

7c. County: St. Louis

7d. State: MO

7e. Zip code: 63136

8. Size (in acres): 0.55

9. Parcel Number(s): 11G111170

STATE & TRIBAL BROWNFIELDS/VOLUNTARY RESPONSE PROGRAM INFORMATION

10. State & Tribal Program Enrollment (If the property is not enrolled in a state program, check Property Not Enrolled check box):

Date of Enrollment: ID Number (if applicable): ☐ Property Not Enrolled in a State or Tribal Program

PROPERTY GEOGRAPHIC INFORMATION (EPA Brownfields Program, or its contractors, will provide complete latitude/longitude information if cooperative agreement recipients are unable)

11a. Latitude  
(use 00.000000 decimal  
degree format):

38.74686

11b. Longitude  
(use -000.000000 decimal  
degree format):

-90.279024

11c. Horizontal Collection Method:

Global Positioning Method- Unspecified Parameters

11d. Source Map Scale Number (Only if a map/photo was used):

11e. Reference Point (e.g., Center of Facility or Station):

Center of a Facility or Station

11f. Horizontal Reference Datum (Choose one):

- ☐ NAD27-North American Datum of 1927 ☐ WGS84-World Geodetic System of 1984  
☒ NAD83-North American Datum of 1983

## PART II- ENVIRONMENTAL ACTIVITIES

**ENVIRONMENTAL ASSESSMENT INFORMATION** (mandatory for Assessment Cooperative Agreements, State & Tribal Property-Specific Assessments, and TBAs; as available for Cleanup and RLF cooperative agreement recipients; CA = Cooperative Agreement)

**Table A – Environmental Assessment Activity** (If there are multiple assessments, please use a separate line for each assessment)

Environmental Assessment Detail			Source of Funding (enter one source of funding per line; do not include funding received prior to the award of this)					Name of Entity Providing Funds	Amount of Funding Expended on this Activity
Activity	Start Date	Completion Date	This US EPA CA	Other Federal	State/Tribal (exclude §128(a) funds)	Local Gov't	Private/ Other		
Phase II	2/6/2018	5/8/2018	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US EPA	\$43,686.15
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

12. Indicate whether cleanup is required: ☐ Yes ☒ No ☐ Unknown

### CONTAMINANTS & MEDIA AFFECTED INFORMATION (mandatory for all cooperative agreement types)

**Table B - Contaminants and Media Affected** (check all that apply):

Contaminants			
Class of Contaminant	REC*	Found	Cleaned Up
Petroleum/Petroleum Products	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Controlled Substances	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Asbestos	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCBs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lead	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PAHs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Contaminants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No Contaminants	<input type="checkbox"/>		
Unknown			

Media		
Media	Affected	Cleaned Up
Soil	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air	<input type="checkbox"/>	<input type="checkbox"/>
Surface Water	<input type="checkbox"/>	<input type="checkbox"/>
Ground Water	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Building Materials	<input type="checkbox"/>	<input type="checkbox"/>
Sediments	<input type="checkbox"/>	<input type="checkbox"/>
No Media Affected	<input type="checkbox"/>	
Unknown	<input type="checkbox"/>	

\*REC = Recognized Environmental Conditions ☐

### ENVIRONMENTAL CLEANUP INFORMATION (mandatory for Cleanup and RLF

Cooperative Agreements and State & Tribal Property-Specific Cleanups; as available for Assessment Cooperative Agreements and TBAs)

13. Cleanup Activity Start Date: \_\_\_\_\_ 14. Cleanup Activity Completion Date: \_\_\_\_\_ 15. Acres Cleaned Up: \_\_\_\_\_

16. Date No Further Action/Cleanup Completion Document Issued

(If the property was not enrolled in a state or tribal program, leave blank):

Date: \_\_\_\_\_

17. Number of Cleanup Jobs Leveraged: \_\_\_\_\_

18. If EPA Brownfields funding was used, indicate the type and amount (If any non-EPA funding was used, fill out Table C):

Type Amount  
☐ Cleanup Cooperative Agreement \_\_\_\_\_

Type Amount  
☐ RLF Subgrant \_\_\_\_\_

☐ Section 128(a) State/Tribal Cooperative Agreement \_\_\_\_\_

☐ RLF Loan \_\_\_\_\_  
 Date RLF Loan Signed \_\_\_\_\_

**Table C - Environmental Cleanup Leveraged Funding Detail**

Source of Funding (enter one source of funding per line; do not include funding received prior to the award of this EPA Cooperative Agreement)				Name of Entity Providing Funds	Amount of Funding Expended on this Activity
Other Federal	State/Tribal (exclude §128(a) funds)	Local Gov't	Private/ Other		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

## PART II- ENVIRONMENTAL ACTIVITIES (continued)

### INSTITUTIONAL & ENGINEERING CONTROLS INFORMATION *(mandatory for all cooperative agreement types)*

19a. Indicate whether Institutional Controls are required: ☐ Yes ☐ No ☒ Unknown

19b. If Institutional Controls were required, indicate the category (check all that apply):

- ☐ Proprietary Controls (e.g., easements, covenants) ☐ Governmental Controls (e.g., zoning, building codes)
- ☐ Informational Devices (e.g., state registries, deed notices) ☐ Enforcement/Permit Tools (e.g., permits, consent decrees)

Additional Institutional Controls Information:

Subject property not being used at this time. Playground removed.

Address of Data Source (URL if available):

19c. Indicate whether Institutional Controls in place: ☐ Yes ☒ No Date: \_\_\_\_\_

20a. Indicate whether Engineering Controls are required: ☐ Yes ☐ No ☒ Unknown

20b. If Engineering Controls were required, indicate the category (check all that apply):

- ☐ Cover Technologies (e.g., Capping) ☐ Immobilization Process (e.g., Encapsulation, In-Situ Solidification) ☐ Engineered Barriers (e.g., Slurry Walls, Sheet)
- ☐ Security (e.g., Guard, Fences) ☐ Other \_\_\_\_\_

Additional Engineering Controls Information:

Address of Data Source (URL if available):

20c. Indicate whether Engineering Controls in place: ☐ Yes ☒ No Date: \_\_\_\_\_

### REDEVELOPMENT AND OTHER LEVERAGED ACCOMPLISHMENTS *(Mandatory for Assessment, Cleanup and RLF Cooperative Agreements; as available for State and Tribal Property Specific Activities and TBAs)*

21. Redevelopment Start Date: \_\_\_\_\_ 22. Redevelopment Completion Date: \_\_\_\_\_

Table D- Redevelopment Leveraged Funding Detail

Source of Funding (enter one source of funding per line; do not include funding received prior to the award of this EPA Cooperative Agreement)				Name of Entity Providing Funds	Amount of Funding Expended on this Activity
Other Federal	State/Tribal	Local Gov't	Private/ Other		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

23. Number of Redevelopment Jobs Leveraged: \_\_\_\_\_

24. Future Use and Estimated Acreage (check all that apply; For properties with multi-story buildings only, please indicate also the square footage for each type of reuse (e.g. a three story building with first floor commercial and remaining floors residential).

- ☐ Multi-story building
- ☒ Greenspace 0.55 acres \_\_\_\_\_ sq. ft. ☒ Commercial 0.55 acres \_\_\_\_\_ sq. ft.
- ☐ Industrial \_\_\_\_\_ acres \_\_\_\_\_ sq. ft. ☐ Residential \_\_\_\_\_ acres \_\_\_\_\_ sq. ft.

25. Actual Acreage(s) and Type(s) of Greenspace Created: \_\_\_\_\_ commercial redevelopment or community garden



## PART II- ENVIRONMENTAL ACTIVITIES (continued)

### ANECODOTAL PROPERTY INFORMATION (as available for all cooperative agreement types)

#### 26. Property Highlights:

The approximately 0.55-acre site currently hosts no structures and is a partially paved vacant lot. The foundation of a former building is still apparent at the site. Potential plans are for commercial redevelopment or a community garden. In June 2017, Terracon conducted a Phase I Environmental Site Assessment TBA of the site on behalf of the Missouri Department of Natural Resources (MDNR). The Phase I TBA identified a REC associated with historical use of the site as an auto service and machine shop. During the Phase II TBA, soil and groundwater sampling results detected VOCs, PAHs, TPH and RCRA metals above MDNR Default Target Levels, likely due to historic use of the site as an auto service and machine shop.

### PROPERTY PHOTOGRAPH INFORMATION

27. Indicate whether photographs are available: ☒ Yes ☐ No 28. Indicate whether video is available: ☐ Yes ☒ No

## PART III- ADDITIONAL PROPERTY INFORMATION

### PROPERTY HISTORY INFORMATION

#### 29. Property Description / History / Past Ownership:

Historical documentation identifies the site in the Historical Auto Service database from approximately 1986 to 1989. The building burned in 2014.

30. Predominant Past Use(s) (check all that apply; For properties with multi-story buildings only, please indicate also the square footage for each type of reuse (e.g. a three story building with first floor commercial and remaining floors residential):

☐ Multi-story building

☐ Greenspace \_\_\_\_\_ acres \_\_\_\_\_ sq. ft. ☒ Commercial \_\_\_\_\_ 0.55 acres \_\_\_\_\_ sq. ft.

☐ Residential \_\_\_\_\_ acres \_\_\_\_\_ sq. ft. ☐ Industrial \_\_\_\_\_ acres \_\_\_\_\_ sq. ft.

### OWNERSHIP & SUPERFUND LIABILITY (Mandatory for Cleanup and RLF Cooperative Agreements)

#### 31a. Ownership Entity:

☐ Government (Tribal, State, Local) ☒ Private

32a. During the life of the cooperative agreement, did ownership change?

☐ Yes ☒ No

#### 31b. Current Owner:

Juanita Moore

32b. If "yes," did Superfund federal landowner liability protections factor into the ownership change?

☐ Yes ☐ No ☐ Unknown

## PART IV- APPROVALS

#### 33. Cooperative Agreement Recipient Project Manager

Name (please print):

Signature

Date:

#### 34. US EPA Regional Representative

Name (please print):

Signature

Date: