

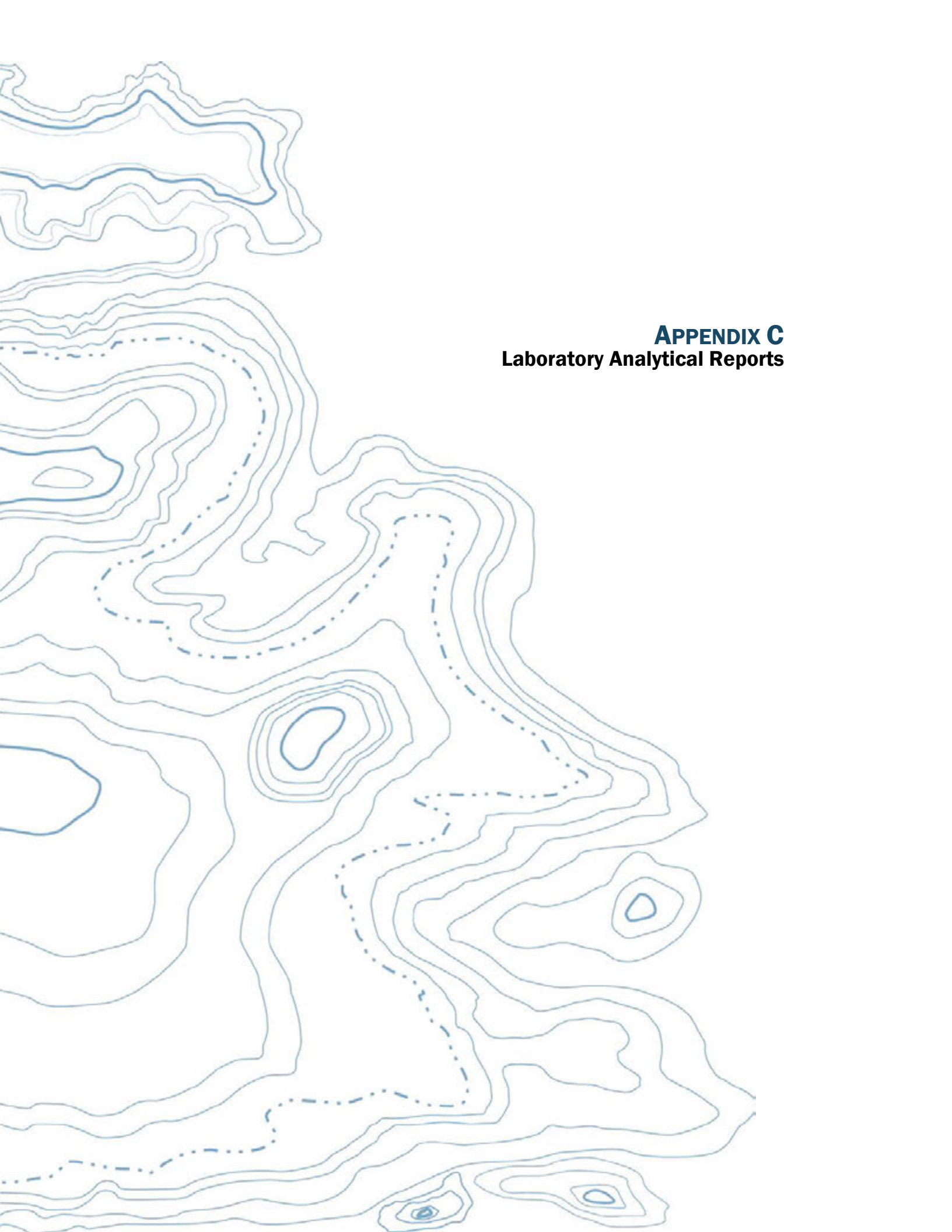
**Data Gap Assessment Report  
Appendix C - Laboratory Analytical  
Reports**

Former Cashmere Mill Site  
Cashmere, Washington

*for*  
**Washington State Department of Ecology**

May 7, 2014





**APPENDIX C**  
**Laboratory Analytical Reports**

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**Project:** Port of Chelan County – 2013 Cashmere Mill Data Gap Assessment – Direct Push Soil Data  
**GEI File No:** 18593-001-02  
**Date:** January 21, 2014

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## GENERAL

This report presents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of soil samples obtained from direct-push borings at the Former Cashmere Mill Site located in Cashmere, Washington.

### Objective and Quality Control (QC) Elements

The objective of the data quality assessment was to review laboratory analytical procedures and QC results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide quantitation limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The laboratory data was reviewed for the following QC elements:

- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory and Field Duplicates
- Miscellaneous

### Chemical Analysis Performed

The soil samples obtained during the sampling event were submitted to TestAmerica Laboratories, Incorporated (TestAmerica) of Portland, OR for one or more of the following analyses:

- Volatile Organic Compounds (VOCs) by Method SW8260C;
- Semi-volatile Organic Compounds (SVOCs) by Method SW8270;

- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Gasoline-Range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Volatile Petroleum Hydrocarbons (NWTPH/VPH) by Method NWTPH/VPH;
- Extractable Petroleum Hydrocarbons (NWTPH/EPH) by Method NWTPH/EPH;
- Metals by Methods 6020 and SW7471; and
- Mercury TCLP by Method SW7470.

#### **TestAmerica Sample Delivery Groups (SDGs)**

The following laboratory SDGs were delivered by TestAmerica and were reviewed by GeoEngineers for the QC elements listed above:

- 250-14066-1
- 250-14067-1
- 250-14116-1(-2)
- 250-14136-1
- 250-14161-1
- 250-14195-1

#### **DATA QUALITY ASSESSMENT SUMMARY**

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in two USEPA documents: USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (USEPA, 2010) and USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 2008).

#### **Chain-of-Custody Documentation**

Chain-of-custody forms were provided with the laboratory analytical reports. No transcription errors were found and the appropriate signatures were applied. The samples were transported to the laboratory at the appropriate temperatures of between 2 and 6 degrees Celsius. There were no anomalies mentioned in the sample receipt forms, with the following exceptions:

- SDG 250-14066-1: For Sample N-DP-19 (12-13), the laboratory noted the lid to the sample container was cracked. The lid was replaced by the laboratory. The sample was received contained a plastic zip bag, therefore, the likelihood of contamination to the sample is minimal.

For Sample N-DP-21A (10-10.5), the laboratory noted the sample was received broken, within a plastic zip bag. The sample was salvaged and placed in a new container by the laboratory.

Sample N-DP-9 (13-14) was labeled as N-DP-9 (14-15) on the sample container, but written as N-DP-9 (13-14) on the chain-of-custody form.

- SDG 250-14116-1(-2): For Sample N-DP-42(1.5-2.5), the laboratory noted the sample was received broken, within a plastic zip bag. The sample was salvaged and placed in a new container by the laboratory.



- SDG 250-14161-1: Sample S-DP-30(5.5-6) was labeled as S-DP-30(5-6) on the sample container, but written as S-DP-30(5.5-6) on the chain-of-custody form.
- SDG 250-14195-1: For Sample N-DP-3A(1.5-2.5), the laboratory noted the sample was received broken, within a plastic zip bag. The sample was salvaged and placed in a new container by the laboratory.

Sample S-DP-98(1-1.5) was labeled as S-DP-98(1-2) on the sample container, but written as S-DP-98(1-1.5) on the chain-of-custody form.

Sample N-DP-11(5-6) was labeled as N-DP-11(5.5-7) on the sample container, but written as N-DP-11(5-6) on the chain-of-custody form.

### Holding Times and Sample Preservation

The holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria and sample preservation exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Recommended holding time and sample preservation was met for all analyses, with the following exceptions:

- SDG 250-14116-1(-2): (NWTPH-Gx) The 14-day holding time for gasoline-range hydrocarbons in Sample N-DP-27(12-13) was exceeded by 7 days. The positive result for gasoline-range hydrocarbons was qualified as estimated (J) in this sample.

(NWTPH-Dx) The 14-day holding time for diesel- and residual-range organics in Sample N-DP-27(12-13) was exceeded by 7 days. The reporting limits for diesel- and residual-range organics were qualified as estimated (UJ) in this sample.

- SDG 250-14195-1: (VOCs) The 14-day holding time for all volatile target analytes in Samples S-DP-82(7.5-8.5), S-DP-95(3-4), and S-DP-88(7-8) was exceeded by 4 days. The positive results and reporting limits were qualified as estimated (J/UJ) in these samples.

(SVOCs) The 14-day holding time for all semi-volatile target analytes in Sample S-DP-88(7-8) was exceeded by 6 days. The positive results and reporting limits were qualified as estimated (J/UJ) in this sample.

(NWTPH/VPH) The 14-day holding time for all volatile petroleum hydrocarbons in Samples S-DP-75A(2-3) and S-DP-101(3-3.5) was exceeded by 13 days. The reporting limits were qualified as estimated (UJ) in these samples.

(NWTPH/EPH) The 14-day holding time for all extractable petroleum hydrocarbons in Samples S-DP-75A(2-3) and S-DP-101(3-3.5) was exceeded by 5 days. The positive results and reporting limits were qualified as estimated (J/UJ) in these samples.

(NWTPH-Gx) The 14-day holding time for all gasoline-range hydrocarbons in Samples S-DP-75A(5-6), S-DP-81(6-7), S-DP-88(7-8), and S-DP-101(7-7.5) was exceeded by 3 to 4 days, dependent upon the sample. The positive results and reporting limits were qualified as estimated (J/UJ) in these samples.

(NWTPH-Dx) The 14-day holding time for all diesel- and residual-range hydrocarbons in Samples S-DP-75A(5-6), S-DP-81(6-7), S-DP-88(7-8), and S-DP-101(7-7.5) was exceeded by 3 to 4 days,

dependent upon the sample. The positive results and reporting limits were qualified as estimated (J/UJ) in these samples.

(Metals) The 28-day holding time for mercury in Samples S-DP-87(5-6), S-DP-87(1.5-2.5), S-DP-78(0-1), S-DP-94(2-2.5), S-DP-86(5-5.5), S-DP-101(3-3.5), and S-DP-93(1-2) was not met. The positive results and reporting limits for mercury were qualified as estimated (J/UJ) in these samples.

### Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added at a known concentration and percent recoveries (%R) are calculated following analysis. All surrogate recoveries for field samples were within the laboratory control limits, with the following exceptions:

- SDG 250-14066-1: (NWTPH-Dx) The %R value for surrogate 1-chlorooctadecane was less than the control limit in Sample N-DP-8 (5.5-6.5). The positive results for diesel- and residual-range organics were qualified as estimated (J) in this sample.
- SDG 250-14195-1: (NWTPH-Gx) The %R values for surrogate a,a,a-trifluorotoluene (fid) were less than the control limits in Samples S-DP-96(7-8), S-DP-97(2-3), and S-DP-98(1-1.5). The positive results and reporting limits for gasoline-range hydrocarbons were qualified as estimated (J/UJ) in these samples.

(NWTPH-Dx) The %R value for surrogate 1-chlorooctadecane was greater than the control limit in Sample N-DP-3B(10-11). The positive results for diesel- and residual-range organics were qualified as estimated (J) in this sample.

### Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest into project samples. Method blanks were analyzed with each batch of samples, at a frequency of one per twenty samples. In cases where target analytes are qualified as non-detected because of blank contamination, the new reporting limit is elevated to the level of the former concentration reported in the sample. No method blank detections above the reporting limit were reported by the testing laboratory.

### Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery (%R) is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result value from the MS and MSD, the relative percent difference (RPD) is calculated. The %R control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the %R/RPD values were within the proper control limits, with the following exceptions:

- SDG 250-14116-1(-2): (Metals) The laboratory performed an MS/MSD sample set on Sample N-DP-27(12-13). The %R value for chromium was greater than the control limit in the MSD extracted on 9/30/2013. However, the %R value for this target analyte was within the control limit in the corresponding MS. No action was required for this outlier.
- SDG 250-14161-1: (SVOCs) The laboratory performed an MS/MSD sample set on Sample S-DP-7(1-2). The %R and RPD values for hexachlorocyclopentadiene were not recovered in the MS/MSD extracted on 9/18/2013. The reporting limit for this target analyte was qualified as estimated (UJ) in Sample S-DP-7(1-2).

Additionally, the %R values for hexachloroethane and 4,6-dinitro-2-methylphenol were less than the control limits in the same MS/MSD sample set. The reporting limits for hexachloroethane and 4,6-dinitro-2-methylphenol were qualified as estimated (UJ) in Sample S-DP-7(1-2). Also, in the same MS/MSD sample set, the %R value for 2,4-dinitrophenol was less than the control limit in the MSD. However, the %R value for this target analyte was within the control limit in the corresponding MS. No action was required for this outlier.

- SDG 250-14161-1: (Metals) The laboratory performed an MS/MSD sample set on Sample S-DP-20A(2.5-3.5). The %R value for barium was greater than the control limit in the MSD extracted on 9/17/2013. However, the %R value for this target analyte was within the control limit in the corresponding MS. No action was required for this outlier.

The laboratory performed an MS/MSD sample set on Sample S-DP-14(1.5-2.5). The %R values for barium were greater than the control limits in the MS/MSD extracted on 9/25/2013. The positive results for barium were qualified as estimated (J) in this sample.

- SDG 250-14195-1: (SVOCs) The laboratory performed an MS/MSD sample set on Sample S-DP-81(2-2.5). The %R values for hexachlorocyclopentadiene were less than the control limits in the MS/MSD extracted on 9/22/2013. The reporting limit for this target analyte was qualified as estimated (UJ) in Sample S-DP-81(2-2.5).

(NWTPH/VPH) The laboratory performed an MS/MSD sample set on Sample S-DP-75A(2-3). The %R values for C10-C12 aliphatics were less than the control limits in the MS/MSD extracted on 10/11/2013. The reporting limit for this target analyte was qualified as estimated (UJ) in Sample S-DP-75A(2-3).

(NWTPH/EPH) The laboratory performed an MS/MSD sample set on Sample S-DP-101(3-3.5). The %R and RPD values for C21-C34 aliphatics and C21-C34 aromatics were greater than the control limits in the MS/MSD extracted on 10/3/2013. The positive results for these target analytes were qualified as estimated (J) in Sample S-DP-101(3-3.5). Additionally, in the same MS/MSD sample set, several %R values exceeded the control limits in the MS. However, the %R values were within the control limit in the corresponding MSD. No action was required for these outliers.

(Metals) The laboratory performed an MS/MSD sample set on Sample S-DP-81(2-2.5). The %R value for chromium was greater than the control limit in the MSD extracted on 10/11/2013. However, the %R value was within the control limit in the corresponding MS. No action was required for this outlier.

The laboratory performed an MS/MSD sample set on Sample N-DP-39(2-3). The %R value for mercury was greater than the control limit in the MSD extracted on 9/18/2013. However, the %R value was within the control limit in the corresponding MS. No action was required for this outlier. Additionally, in the same MS/MSD sample set, the RPD was greater than the control limits. However, there were no positive results for this target analyte in this sample. No action was required for this outlier.

The laboratory performed an MS/MSD sample set on Sample S-DP-88(7-8). The %R value for mercury was less than the control limit in the MSD extracted on 10/2/2013. However, the %R value was within the control limit in the corresponding MS. No action was required for this outlier.

The laboratory performed an MS/MSD sample set on Sample S-DP-87(5-6). The %R and RPD values for mercury exceeded the control limits in the MS/MSD extracted on 10/9/2013. The positive result for mercury was qualified as estimated (J) in this sample.

#### **Laboratory Control Samples/Laboratory Control Sample Duplicates**

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The %R control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the %R/RPD values were within the proper control limits, with the following exceptions:

- SDG 250-14066-1: (SVOCs) The %R value for 4-nitrophenol was greater than the control limit in the LCS sample extracted on 9/13/2013. There were no positive results for 4-nitrophenol in the associated batch samples, therefore, no action was required for this outlier.
- SDG 250-14116-1: (VOCs) The %R value for dichlordifluoromethane was greater than the control limit in the LCS sample extracted on 9/17/2013. There were no positive results for dichlordifluoromethane in the associated batch samples, therefore, no action was required for this outlier.

(SVOCs) The %R value for hexachlorocyclopentadiene was less than the control limit in the LCS sample extracted on 9/16/2013. The reporting limits for hexachlorocyclopentadiene were qualified as estimated (UJ) in Samples N-DP-27(7-8) and N-DP-43(0.5-1.5).

- SDG 250-14136-1: (VOCs) The %R value for dichlordifluoromethane was greater than the control limit in the LCS sample extracted on 9/17/2013. There were no positive results for dichlordifluoromethane in the associated batch samples, therefore, no action was required for this outlier.

(SVOCs) The %R value for hexachlorocyclopentadiene was less than the control limit in the LCS sample extracted on 9/16/2013. The reporting limits for hexachlorocyclopentadiene were qualified as estimated (UJ) in Samples S-DP-2(1.5-2.5) and S-DP-13(0-1).

- SDG 250-14195-1 (NWTPH/EPH) The %R values for C10-C12 aromatics were less than the control limits in the LCS/LCSD sample extracted on 10/3/2013. The reporting limits were qualified as estimated (UJ) in Samples S-DP-75A(2-3) and S-DP-101(3-3.5). Additionally, in the same LCS/LCSD sample set, the %R value for C10-C12 aliphatics was less than the control limit in the LCS. However, the %R value for this target analyte was within the control limit in the corresponding LCSD. No action was required for this outlier.

### Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limit for soil samples is 50 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exceptions:

- SDG 250-14161-1: (NWTPH-Dx) A laboratory duplicate analysis was performed on Sample S-DP-7(6.5-7.5). The RPD was greater than the control limit for diesel-range organics, however there were no positive results for this target analyte in Sample S-DP-7(6.5-7.5). No action was required for this outlier.
- SDG 250-14195-1: (NWTPH-Dx) A laboratory duplicate analysis was performed on Sample S-DP-55(0.5-1.5). The RPD was greater than the control limit for diesel-range organics, however there were no positive results for this target analyte in Sample S-DP-55(0.5-1.5). No action was required for this outlier.

### Field Duplicates

Field duplicate samples are obtained and analyzed along with the primary project samples. The duplicate samples are analyzed for the same parameters as the associated primary samples. The RPD between the primary and duplicate samples is used to assess sample heterogeneity and laboratory precision, unless one or more of the samples used has a concentration greater than five times the method reporting limit for that sample. In such cases, the absolute difference is used instead of the RPD. The RPD control limit for soil samples is 50 percent.

There were no field duplicate samples collected during this sampling event.

### Miscellaneous

- (NWTPH-Dx) Several samples exhibited a chromatographic pattern that did not match a typical range for hydrocarbons. There were no qualification of the results from these samples, however, the results of these samples are considered biased high.

## **OVERALL ASSESSMENT**

The results of this Stage 2A data validation indicate that the laboratory followed the specified analytical methods. The accuracy of the data are acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values, with the exceptions noted above. The precision of the data also are acceptable, as demonstrated by the LCS/LCSD, MS/MSD, laboratory duplicate RPD values, with the exceptions noted above.

Selected data were qualified as follows:

- Estimated because of holding time, surrogate, MS/MSD, and LCS/LCSD outliers.

However, based on the data quality review, it is our opinion that the analytical data, including data qualified as noted above, are of acceptable quality for their intended use.

## **REFERENCES**

U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," OSWER 9240.1-45, EPA 540-R-10-011. January 2010.

U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," EPA-540-R-08-01. June 2008.

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
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Beaverton, OR 97008  
Tel: (503)906-9200

TestAmerica Job ID: 250-14066-1  
Client Project/Site: Cashmere Mill  
Revision: 1

For:  
GeoEngineers Inc  
523 East Second Ave  
Spokane, Washington 99202

Attn: Jodie Lamb



Authorized for release by:  
11/11/2013 4:25:40 PM

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### LINKS

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

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

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# Sample Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-14066-2	N-DP-5B (5-6)	Solid	09/10/13 09:58	09/11/13 09:25
250-14066-5	N-DP-8 (5.5-6.5)	Solid	09/10/13 09:04	09/11/13 09:25
250-14066-6	N-DP-8A (2-3)	Solid	09/10/13 09:05	09/11/13 09:25
250-14066-10	N-DP-9 (5-6)	Solid	09/10/13 08:16	09/11/13 09:25
250-14066-12	N-DP-19 (1-2)	Solid	09/10/13 10:20	09/11/13 09:25
250-14066-15	N-DP-21 (1.5-2.5)	Solid	09/10/13 10:55	09/11/13 09:25
250-14066-18	N-DP-23 (1-2)	Solid	09/10/13 12:25	09/11/13 09:25



# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

**Job ID: 250-14066-1**

**Laboratory: TestAmerica Portland**

## Narrative

### Job Narrative 250-14066-1

#### Comments

Revised Report: Includes 8260 VOC and 8270 SVOC results down to the MDL.

#### Receipt

The samples were received on 9/11/2013 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.5° C.

Except:

N-DP-19 (12-13) (250-14066-14) Lid to container was received cracked. New lid was placed on container. Not likely contaminated as sample was sealed in a ziplock bag as well.

N-DP-21A (10-10.5) (250-14066-17) Sample container received completely broken for 8 oz. jar. Sample was contained in ziplock bag. Sample was salvaged and placed into new 16oz. container in lab.

N-DP-9 (13-14) (250-14066-11) Sampled is labeled with a depth of 14-15, however COC indicates 13-14. Logged in per COC.

#### GC/MS VOA

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with batch 250-20098 for 1,1,1-TCA, Styrene, TCE, Chloroform, and cis-1,3\_DCP were outside control limits: (250-14097-1 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method 8270C: The laboratory control sample (LCS) for batch 191438 recovered outside control limits for the following analytes: 4-nitrophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

#### GC VOA

Method NWTPH-Gx: The following sample value reported for Gasoline Range Hydrocarbons is due to diesel overlap.

No other analytical or quality issues were noted.

#### GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to heavily weathered diesel as well as oil overlap. N-DP-8A (2-3) (250-14066-6)

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to oil overlap. N-DP-9 (5-6) (250-14066-10), (250-14066-2 DU), N-DP-5B (5-6) (250-14066-2), N-DP-8 (5.5-6.5) (250-14066-5), N-DP-19 (1-2) (250-14066-12).

Method NWTPH-Dx: The following sample(s) required a dilution due to the nature of the sample matrix: N-DP-8 (5.5-6.5) (250-14066-5). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method NWTPH-Dx: The matrix duplicate %RPD for 250-14054-a-1 associated with batch 250-20009 was outside the control limits due to non homogeneity of the sample. (250-14054-1 DU)

No other analytical or quality issues were noted.

# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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## Job ID: 250-14066-1 (Continued)

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### Laboratory: TestAmerica Portland (Continued)

#### Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 20123 were outside control limits for Ba, Cr and Pb. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

#### VOA Prep

No analytical or quality issues were noted.

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# Definitions/Glossary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

## Qualifiers

### GC/MS VOA

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

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
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.

### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

## Glossary

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



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

**Client Sample ID: N-DP-8A (2-3)**

**Date Collected: 09/10/13 09:05**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-6**

**Matrix: Solid**

**Percent Solids: 89.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		3300	670	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Benzene	ND		130	27	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Bromobenzene	ND		130	27	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Bromochloromethane	ND		130	32	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Bromodichloromethane	ND		130	20	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Bromoform	ND		670	130	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Bromomethane	ND		670	37	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
2-Butanone (MEK)	ND		1300	400	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
n-Butylbenzene	ND		670	69	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
sec-Butylbenzene	ND		130	27	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
tert-Butylbenzene	ND		130	17	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Carbon disulfide	ND		1300	52	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Carbon tetrachloride	ND		130	25	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Chlorobenzene	ND		130	25	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Chloroethane	ND		130	29	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Chloroform	ND		130	21	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Chloromethane	ND		670	20	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
2-Chlorotoluene	ND		130	17	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
4-Chlorotoluene	ND		130	24	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,2-Dibromo-3-Chloropropane	ND		670	130	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Dibromochloromethane	ND		130	23	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,2-Dibromoethane	ND		130	23	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Dibromomethane	ND		130	28	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,2-Dichloroethane	ND		130	21	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,3-Dichlorobenzene	ND		130	23	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,4-Dichlorobenzene	ND		130	39	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Dichlorodifluoromethane	ND		670	33	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,1-Dichloroethane	ND		130	25	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,1-Dichloroethene	ND		130	21	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
cis-1,2-Dichloroethene	ND		130	37	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
trans-1,2-Dichloroethene	ND		130	27	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,2-Dichloropropane	ND		130	21	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,3-Dichloropropane	ND		130	23	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
2,2-Dichloropropane	ND		130	23	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,1-Dichloropropene	ND		130	20	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
cis-1,3-Dichloropropene	ND		130	23	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
trans-1,3-Dichloropropene	ND		130	20	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Ethylbenzene	ND		130	24	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
<b>Hexachlorobutadiene</b>	<b>33</b>	<b>J B</b>	530	24	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
2-Hexanone	ND		1300	290	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Isopropylbenzene	ND		270	48	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
p-Isopropyltoluene	ND		270	15	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
4-Methyl-2-pentanone (MIBK)	ND		670	130	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Methyl tert-butyl ether	ND		130	17	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
<b>Methylene Chloride</b>	<b>89</b>	<b>J B</b>	670	19	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Naphthalene	ND		270	32	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
N-Propylbenzene	ND		130	28	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Styrene	ND		130	24	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,1,1,2-Tetrachloroethane	ND		130	24	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

**Client Sample ID: N-DP-8A (2-3)**

**Date Collected: 09/10/13 09:05**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-6**

**Matrix: Solid**

**Percent Solids: 89.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		130	32	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Tetrachloroethene	ND		130	36	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Toluene	ND		130	20	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,2,3-Trichlorobenzene	ND		670	130	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,2,4-Trichlorobenzene	ND		130	33	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,1,1-Trichloroethane	ND		130	28	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,1,2-Trichloroethane	ND		130	32	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Trichloroethene	ND		130	28	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Trichlorofluoromethane	ND		130	29	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,2,3-Trichloropropane	ND		130	28	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,2,4-Trimethylbenzene	ND		130	61	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,3,5-Trimethylbenzene	ND		130	32	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
Vinyl chloride	ND		670	130	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
m,p-Xylene	ND		270	48	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
o-Xylene	ND		130	31	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1
1,2-Dichlorobenzene	ND		130	19	ug/Kg	☼	09/13/13 09:52	09/13/13 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 125	09/13/13 09:52	09/13/13 13:41	1
4-Bromofluorobenzene (Surr)	102		75 - 125	09/13/13 09:52	09/13/13 13:41	1
Dibromofluoromethane (Surr)	97		75 - 125	09/13/13 09:52	09/13/13 13:41	1
Toluene-d8 (Surr)	102		75 - 125	09/13/13 09:52	09/13/13 13:41	1

**Client Sample ID: N-DP-9 (5-6)**

**Date Collected: 09/10/13 08:16**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-10**

**Matrix: Solid**

**Percent Solids: 90.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2600	520	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Benzene	ND		100	21	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Bromobenzene	ND		100	21	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Bromochloromethane	ND		100	25	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Bromodichloromethane	ND		100	16	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Bromoform	ND		520	100	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Bromomethane	ND		520	29	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
2-Butanone (MEK)	ND		1000	310	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
n-Butylbenzene	ND		520	54	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
sec-Butylbenzene	ND		100	21	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
tert-Butylbenzene	ND		100	14	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Carbon disulfide	ND		1000	41	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Carbon tetrachloride	ND		100	20	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Chlorobenzene	ND		100	20	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Chloroethane	ND		100	23	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Chloroform	ND		100	17	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Chloromethane	ND		520	16	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
2-Chlorotoluene	ND		100	14	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
4-Chlorotoluene	ND		100	19	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,2-Dibromo-3-Chloropropane	ND		520	100	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Dibromochloromethane	ND		100	18	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,2-Dibromoethane	ND		100	18	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Dibromomethane	ND		100	22	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

**Client Sample ID: N-DP-9 (5-6)**

**Date Collected: 09/10/13 08:16**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-10**

**Matrix: Solid**

**Percent Solids: 90.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		100	17	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,3-Dichlorobenzene	ND		100	18	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,4-Dichlorobenzene	ND		100	30	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Dichlorodifluoromethane	ND		520	26	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,1-Dichloroethane	ND		100	20	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,1-Dichloroethene	ND		100	17	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
cis-1,2-Dichloroethene	ND		100	29	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
trans-1,2-Dichloroethene	ND		100	21	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,2-Dichloropropane	ND		100	17	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,3-Dichloropropane	ND		100	18	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
2,2-Dichloropropane	ND		100	18	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,1-Dichloropropene	ND		100	16	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
cis-1,3-Dichloropropene	ND		100	18	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
trans-1,3-Dichloropropene	ND		100	16	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Ethylbenzene	ND		100	19	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Hexachlorobutadiene	ND		420	19	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
2-Hexanone	ND		1000	230	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Isopropylbenzene	ND		210	38	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
p-Isopropyltoluene	ND		210	11	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
4-Methyl-2-pentanone (MIBK)	ND		520	100	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Methyl tert-butyl ether	ND		100	14	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
<b>Methylene Chloride</b>	<b>50</b>	<b>J B</b>	520	15	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Naphthalene	ND		210	25	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
N-Propylbenzene	ND		100	22	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Styrene	ND		100	19	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,1,1,2-Tetrachloroethane	ND		100	19	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,1,2,2-Tetrachloroethane	ND		100	25	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Tetrachloroethene	ND		100	28	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Toluene	ND		100	16	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,2,3-Trichlorobenzene	ND		520	100	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,2,4-Trichlorobenzene	ND		100	26	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,1,1-Trichloroethane	ND		100	22	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,1,2-Trichloroethane	ND		100	25	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Trichloroethene	ND		100	22	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Trichlorofluoromethane	ND		100	23	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,2,3-Trichloropropane	ND		100	22	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,2,4-Trimethylbenzene	ND		100	48	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,3,5-Trimethylbenzene	ND		100	25	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
Vinyl chloride	ND		520	100	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
m,p-Xylene	ND		210	38	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
o-Xylene	ND		100	24	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1
1,2-Dichlorobenzene	ND		100	15	ug/Kg	☼	09/13/13 09:52	09/13/13 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125	09/13/13 09:52	09/13/13 14:05	1
4-Bromofluorobenzene (Surr)	102		75 - 125	09/13/13 09:52	09/13/13 14:05	1
Dibromofluoromethane (Surr)	93		75 - 125	09/13/13 09:52	09/13/13 14:05	1
Toluene-d8 (Surr)	101		75 - 125	09/13/13 09:52	09/13/13 14:05	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

**Client Sample ID: N-DP-8A (2-3)**

**Date Collected: 09/10/13 09:05**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-6**

**Matrix: Solid**

**Percent Solids: 89.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		340	11	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Acenaphthylene	ND		340	18	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Acetophenone	ND		340	21	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Anthracene	ND		340	18	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Atrazine	ND		340	38	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Benzidine	ND		3400	1000	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
<b>Benzo[a]anthracene</b>	<b>22</b>	<b>J</b>	340	21	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Benzo[a]pyrene	ND		340	21	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Benzo[b]fluoranthene	ND		340	27	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Benzo[g,h,i]perylene	ND		340	17	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Benzo[k]fluoranthene	ND		340	41	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Bis(2-chloroethoxy)methane	ND		340	24	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Bis(2-chloroethyl)ether	ND		340	17	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Bis(2-ethylhexyl) phthalate	ND		340	48	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Butyl benzyl phthalate	ND		340	44	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Caprolactam	ND		1700	110	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Carbazole	ND		340	37	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
<b>Chrysene</b>	<b>31</b>	<b>J</b>	340	28	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Di-n-butyl phthalate	ND		340	30	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Di-n-octyl phthalate	ND		340	15	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Dibenz(a,h)anthracene	ND		340	20	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Dibenzofuran	ND		340	21	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Diethyl phthalate	ND		680	27	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
<b>Dimethyl phthalate</b>	<b>550</b>	<b>B</b>	340	24	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Fluoranthene	ND		340	37	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Fluorene	ND		340	19	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Hexachlorobenzene	ND		340	30	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Hexachlorobutadiene	ND		340	10	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Hexachlorocyclopentadiene	ND		1700	52	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Hexachloroethane	ND		340	22	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Indeno[1,2,3-cd]pyrene	ND		340	23	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Naphthalene	ND		340	32	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Nitrobenzene	ND		340	23	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
<b>N-Nitrosodi-n-propylamine</b>	<b>140</b>	<b>J</b>	340	32	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		340	22	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Pentachlorophenol	ND		1700	340	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
Phenol	ND		340	19	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
<b>Phenanthrene</b>	<b>19</b>	<b>J</b>	340	18	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
<b>Pyrene</b>	<b>37</b>	<b>J</b>	340	12	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
2,2'-oxybis[1-chloropropane]	ND		340	24	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
2-Chloronaphthalene	ND		340	10	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
2-Chlorophenol	ND		340	22	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
2-Methylnaphthalene	ND		340	20	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
2-Methylphenol	ND		340	13	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
2-Nitroaniline	ND		1700	52	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
2-Nitrophenol	ND		340	10	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
2,4-Dichlorophenol	ND		340	10	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1
2,4-Dimethylphenol	ND		340	68	ug/Kg	*	09/13/13 19:40	09/16/13 15:17	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

**Client Sample ID: N-DP-8A (2-3)**

**Date Collected: 09/10/13 09:05**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-6**

**Matrix: Solid**

**Percent Solids: 89.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		1700	340	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
2,4-Dinitrotoluene	ND		340	68	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
2,6-Dinitrotoluene	ND		340	29	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
2,4,5-Trichlorophenol	ND		340	10	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
2,4,6-Trichlorophenol	ND		340	10	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
3,3'-Dichlorobenzidine	ND		680	93	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
3 & 4 Methylphenol	ND		340	34	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
3-Nitroaniline	ND		1700	75	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
4-Bromophenyl phenyl ether	ND		340	20	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
4-Chloro-3-methylphenol	ND		340	68	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
4-Chloroaniline	ND		340	85	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
4-Chlorophenyl phenyl ether	ND		340	22	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
4-Nitroaniline	ND		1700	75	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
4-Nitrophenol	ND *		1700	100	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
4,6-Dinitro-2-methylphenol	ND		1700	340	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
1,4-Dichlorobenzene	ND		340	14	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1
1,2,4-Trichlorobenzene	ND		340	29	ug/Kg	☼	09/13/13 19:40	09/16/13 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		53 - 120	09/13/13 19:40	09/16/13 15:17	1
Phenol-d5	89		52 - 120	09/13/13 19:40	09/16/13 15:17	1
Nitrobenzene-d5	91		50 - 120	09/13/13 19:40	09/16/13 15:17	1
2-Fluorobiphenyl	95		50 - 120	09/13/13 19:40	09/16/13 15:17	1
2,4,6-Tribromophenol	100		51 - 120	09/13/13 19:40	09/16/13 15:17	1
Terphenyl-d14	98		55 - 120	09/13/13 19:40	09/16/13 15:17	1

**Client Sample ID: N-DP-9 (5-6)**

**Date Collected: 09/10/13 08:16**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-10**

**Matrix: Solid**

**Percent Solids: 90.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	25	J	350	11	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Acenaphthylene	ND		350	18	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Acetophenone	ND		350	21	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Anthracene	ND		350	18	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Atrazine	ND		350	39	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Benzidine	ND		3500	1000	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Benzo[a]anthracene	ND		350	21	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Benzo[a]pyrene	ND		350	21	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Benzo[b]fluoranthene	ND		350	28	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Benzo[g,h,i]perylene	ND		350	17	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Benzo[k]fluoranthene	ND		350	42	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Bis(2-chloroethoxy)methane	ND		350	24	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Bis(2-chloroethyl)ether	ND		350	17	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Bis(2-ethylhexyl) phthalate	ND		350	48	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Butyl benzyl phthalate	ND		350	45	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Caprolactam	ND		1700	110	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Carbazole	ND		350	38	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Chrysene	ND		350	28	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Di-n-butyl phthalate	ND		350	30	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Di-n-octyl phthalate	ND		350	15	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

**Client Sample ID: N-DP-9 (5-6)**

**Date Collected: 09/10/13 08:16**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-10**

**Matrix: Solid**

**Percent Solids: 90.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		350	20	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Dibenzofuran	ND		350	21	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Diethyl phthalate	ND		690	27	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
<b>Dimethyl phthalate</b>	<b>760</b>	<b>B</b>	350	24	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Fluoranthene	ND		350	38	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Fluorene	ND		350	19	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Hexachlorobenzene	ND		350	30	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Hexachlorobutadiene	ND		350	11	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Hexachlorocyclopentadiene	ND		1700	53	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Hexachloroethane	ND		350	22	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Indeno[1,2,3-cd]pyrene	ND		350	23	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Naphthalene	ND		350	33	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Nitrobenzene	ND		350	23	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
N-Nitrosodi-n-propylamine	ND		350	33	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		350	22	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Pentachlorophenol	ND		1700	350	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Phenol	ND		350	19	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Phenanthrene	ND		350	18	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
Pyrene	ND		350	13	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
2,2'-oxybis[1-chloropropane]	ND		350	24	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
2-Chloronaphthalene	ND		350	11	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
2-Chlorophenol	ND		350	22	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
2-Methylnaphthalene	ND		350	20	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
2-Methylphenol	ND		350	14	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
2-Nitroaniline	ND		1700	53	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
2-Nitrophenol	ND		350	11	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
2,4-Dichlorophenol	ND		350	11	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
2,4-Dimethylphenol	ND		350	69	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
2,4-Dinitrophenol	ND		1700	350	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
2,4-Dinitrotoluene	ND		350	69	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
2,6-Dinitrotoluene	ND		350	29	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
2,4,5-Trichlorophenol	ND		350	11	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
2,4,6-Trichlorophenol	ND		350	11	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
3,3'-Dichlorobenzidine	ND		690	95	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
3 & 4 Methylphenol	ND		350	35	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
3-Nitroaniline	ND		1700	77	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
4-Bromophenyl phenyl ether	ND		350	20	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
4-Chloro-3-methylphenol	ND		350	69	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
4-Chloroaniline	ND		350	86	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
4-Chlorophenyl phenyl ether	ND		350	22	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
4-Nitroaniline	ND		1700	76	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
4-Nitrophenol	ND *		1700	100	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
4,6-Dinitro-2-methylphenol	ND		1700	350	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
1,4-Dichlorobenzene	ND		350	14	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1
1,2,4-Trichlorobenzene	ND		350	29	ug/Kg	☼	09/13/13 19:40	09/16/13 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	65		53 - 120	09/13/13 19:40	09/16/13 14:47	1
Phenol-d5	70		52 - 120	09/13/13 19:40	09/16/13 14:47	1

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

Client Sample ID: N-DP-9 (5-6)  
Date Collected: 09/10/13 08:16  
Date Received: 09/11/13 09:25

Lab Sample ID: 250-14066-10  
Matrix: Solid  
Percent Solids: 90.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75		50 - 120	09/13/13 19:40	09/16/13 14:47	1
2-Fluorobiphenyl	85		50 - 120	09/13/13 19:40	09/16/13 14:47	1
2,4,6-Tribromophenol	105		51 - 120	09/13/13 19:40	09/16/13 14:47	1
Terphenyl-d14	94		55 - 120	09/13/13 19:40	09/16/13 14:47	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-5B (5-6)**

**Date Collected: 09/10/13 09:58**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-2**

**Matrix: Solid**

**Percent Solids: 83.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.7		mg/Kg	☼	09/11/13 12:01	09/11/13 13:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	101		50 - 150				09/11/13 12:01	09/11/13 13:54	1

**Client Sample ID: N-DP-8 (5.5-6.5)**

**Date Collected: 09/10/13 09:04**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-5**

**Matrix: Solid**

**Percent Solids: 79.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.1		mg/Kg	☼	09/11/13 12:01	09/11/13 14:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	100		50 - 150				09/11/13 12:01	09/11/13 14:23	1

**Client Sample ID: N-DP-8A (2-3)**

**Date Collected: 09/10/13 09:05**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-6**

**Matrix: Solid**

**Percent Solids: 89.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	20		5.3		mg/Kg	☼	09/11/13 12:01	09/11/13 17:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	83		50 - 150				09/11/13 12:01	09/11/13 17:49	1

**Client Sample ID: N-DP-9 (5-6)**

**Date Collected: 09/10/13 08:16**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-10**

**Matrix: Solid**

**Percent Solids: 90.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.2		mg/Kg	☼	09/11/13 12:01	09/11/13 18:18	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	96		50 - 150				09/11/13 12:01	09/11/13 18:18	1

**Client Sample ID: N-DP-19 (1-2)**

**Date Collected: 09/10/13 10:20**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-12**

**Matrix: Solid**

**Percent Solids: 88.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.4		mg/Kg	☼	09/11/13 12:01	09/11/13 18:48	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	100		50 - 150				09/11/13 12:01	09/11/13 18:48	1

**Client Sample ID: N-DP-21 (1.5-2.5)**

**Date Collected: 09/10/13 10:55**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-15**

**Matrix: Solid**

**Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.3		mg/Kg	☼	09/11/13 12:01	09/11/13 19:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	85		50 - 150				09/11/13 12:01	09/11/13 19:17	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-23 (1-2)**

**Date Collected: 09/10/13 12:25**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-18**

**Matrix: Solid**

**Percent Solids: 92.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.9		mg/Kg	☼	09/11/13 12:01	09/11/13 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (fid)</i>	95		50 - 150				09/11/13 12:01	09/11/13 19:46	1



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-5B (5-6)**

**Date Collected: 09/10/13 09:58**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-2**

**Matrix: Solid**

**Percent Solids: 83.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	380		74		mg/Kg	☼	09/11/13 11:31	09/11/13 19:39	5
RRO (nC25-nC36)	1200		150		mg/Kg	☼	09/11/13 11:31	09/11/13 19:39	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	107		50 - 150				09/11/13 11:31	09/11/13 19:39	5

**Client Sample ID: N-DP-8 (5.5-6.5)**

**Date Collected: 09/10/13 09:04**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-5**

**Matrix: Solid**

**Percent Solids: 79.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	1400		310		mg/Kg	☼	09/11/13 11:31	09/12/13 11:07	20
RRO (nC25-nC36)	11000		630		mg/Kg	☼	09/11/13 11:31	09/12/13 11:07	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	42	X	50 - 150				09/11/13 11:31	09/12/13 11:07	20

**Client Sample ID: N-DP-8A (2-3)**

**Date Collected: 09/10/13 09:05**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-6**

**Matrix: Solid**

**Percent Solids: 89.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	110		14		mg/Kg	☼	09/11/13 11:31	09/12/13 15:01	1
RRO (nC25-nC36)	680		28		mg/Kg	☼	09/11/13 11:31	09/12/13 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	89		50 - 150				09/11/13 11:31	09/12/13 15:01	1

**Client Sample ID: N-DP-9 (5-6)**

**Date Collected: 09/10/13 08:16**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-10**

**Matrix: Solid**

**Percent Solids: 90.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	140		140		mg/Kg	☼	09/11/13 11:31	09/12/13 15:39	10
RRO (nC25-nC36)	1300		270		mg/Kg	☼	09/11/13 11:31	09/12/13 15:39	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	89		50 - 150				09/11/13 11:31	09/12/13 15:39	10

**Client Sample ID: N-DP-19 (1-2)**

**Date Collected: 09/10/13 10:20**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-12**

**Matrix: Solid**

**Percent Solids: 88.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	16		14		mg/Kg	☼	09/11/13 11:31	09/11/13 19:00	1
RRO (nC25-nC36)	130		28		mg/Kg	☼	09/11/13 11:31	09/11/13 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	87		50 - 150				09/11/13 11:31	09/11/13 19:00	1

**Client Sample ID: N-DP-21 (1.5-2.5)**

**Date Collected: 09/10/13 10:55**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-15**

**Matrix: Solid**

**Percent Solids: 95.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/11/13 11:31	09/11/13 19:19	1
RRO (nC25-nC36)	ND		26		mg/Kg	☼	09/11/13 11:31	09/11/13 19:19	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	98		50 - 150	09/11/13 11:31	09/11/13 19:19	1

**Client Sample ID: N-DP-23 (1-2)**

**Date Collected: 09/10/13 12:25**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-18**

**Matrix: Solid**

**Percent Solids: 92.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/11/13 11:31	09/11/13 19:39	1
RRO (nC25-nC36)	ND		27		mg/Kg	☼	09/11/13 11:31	09/11/13 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	93		50 - 150	09/11/13 11:31	09/11/13 19:39	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

**Client Sample ID: N-DP-8A (2-3)**

**Date Collected: 09/10/13 09:05**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-6**

**Matrix: Solid**

**Percent Solids: 89.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15		0.53		mg/Kg	☼	09/13/13 21:10	09/16/13 16:50	10
Barium	90		0.53		mg/Kg	☼	09/13/13 21:10	09/16/13 16:50	10
Cadmium	ND		0.53		mg/Kg	☼	09/13/13 21:10	09/16/13 16:50	10
Chromium	32		1.1		mg/Kg	☼	09/13/13 21:10	09/16/13 16:50	10
Lead	65		0.53		mg/Kg	☼	09/13/13 21:10	09/16/13 16:50	10
Selenium	ND		0.53		mg/Kg	☼	09/13/13 21:10	09/16/13 16:50	10
Silver	ND		0.53		mg/Kg	☼	09/13/13 21:10	09/16/13 16:50	10

**Client Sample ID: N-DP-9 (5-6)**

**Date Collected: 09/10/13 08:16**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-10**

**Matrix: Solid**

**Percent Solids: 90.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		0.53		mg/Kg	☼	09/13/13 21:10	09/16/13 16:53	10
Barium	95		0.53		mg/Kg	☼	09/13/13 21:10	09/16/13 16:53	10
Cadmium	ND		0.53		mg/Kg	☼	09/13/13 21:10	09/16/13 16:53	10
Chromium	47		1.1		mg/Kg	☼	09/13/13 21:10	09/16/13 16:53	10
Lead	5.7		0.53		mg/Kg	☼	09/13/13 21:10	09/16/13 16:53	10
Selenium	ND		0.53		mg/Kg	☼	09/13/13 21:10	09/16/13 16:53	10
Silver	ND		0.53		mg/Kg	☼	09/13/13 21:10	09/16/13 16:53	10



# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

## Method: 7471A - Mercury (CVAA)

**Client Sample ID: N-DP-8A (2-3)**

**Date Collected: 09/10/13 09:05**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-6**

**Matrix: Solid**

**Percent Solids: 89.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.091		mg/Kg	☼	09/12/13 15:37	09/12/13 20:35	1

**Client Sample ID: N-DP-9 (5-6)**

**Date Collected: 09/10/13 08:16**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-10**

**Matrix: Solid**

**Percent Solids: 90.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.073		mg/Kg	☼	09/12/13 15:37	09/12/13 20:43	1



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

## General Chemistry

**Client Sample ID: N-DP-5B (5-6)**

**Date Collected: 09/10/13 09:58**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-2**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.010		%			09/16/13 21:29	1
Percent Solids	84		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-8 (5.5-6.5)**

**Date Collected: 09/10/13 09:04**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-5**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		0.010		%			09/16/13 21:29	1
Percent Solids	79		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-8A (2-3)**

**Date Collected: 09/10/13 09:05**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-6**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.010		%			09/16/13 11:15	1
Percent Solids	90		0.010		%			09/16/13 11:15	1

**Client Sample ID: N-DP-9 (5-6)**

**Date Collected: 09/10/13 08:16**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-10**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.010		%			09/16/13 11:15	1
Percent Solids	91		0.010		%			09/16/13 11:15	1

**Client Sample ID: N-DP-19 (1-2)**

**Date Collected: 09/10/13 10:20**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-12**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		0.010		%			09/16/13 21:29	1
Percent Solids	88		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-21 (1.5-2.5)**

**Date Collected: 09/10/13 10:55**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-15**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.1		0.010		%			09/16/13 21:29	1
Percent Solids	96		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-23 (1-2)**

**Date Collected: 09/10/13 12:25**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14066-18**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.5		0.010		%			09/16/13 21:29	1
Percent Solids	93		0.010		%			09/16/13 21:29	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

**Lab Sample ID: MB 250-20098/1-A**

**Matrix: Solid**

**Analysis Batch: 20127**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20098**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2500	500	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Benzene	ND		100	20	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Bromobenzene	ND		100	20	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Bromochloromethane	ND		100	24	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Bromodichloromethane	ND		100	15	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Bromoform	ND		500	100	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Bromomethane	ND		500	28	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
2-Butanone (MEK)	ND		1000	300	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
n-Butylbenzene	ND		500	52	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
sec-Butylbenzene	ND		100	20	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
tert-Butylbenzene	ND		100	13	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Carbon disulfide	ND		1000	39	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Carbon tetrachloride	ND		100	19	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Chlorobenzene	ND		100	19	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Chloroethane	ND		100	22	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Chloroform	ND		100	16	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Chloromethane	ND		500	15	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
2-Chlorotoluene	ND		100	13	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
4-Chlorotoluene	ND		100	18	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,2-Dibromo-3-Chloropropane	ND		500	100	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Dibromochloromethane	ND		100	17	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,2-Dibromoethane	ND		100	17	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Dibromomethane	ND		100	21	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,2-Dichloroethane	ND		100	16	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,3-Dichlorobenzene	ND		100	17	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,4-Dichlorobenzene	ND		100	29	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Dichlorodifluoromethane	ND		500	25	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,1-Dichloroethane	ND		100	19	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,1-Dichloroethene	ND		100	16	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
trans-1,2-Dichloroethene	ND		100	20	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,2-Dichloropropane	ND		100	16	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,3-Dichloropropane	ND		100	17	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
2,2-Dichloropropane	ND		100	17	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,1-Dichloropropene	ND		100	15	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
cis-1,3-Dichloropropene	ND		100	17	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
trans-1,3-Dichloropropene	ND		100	15	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Ethylbenzene	ND		100	18	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Hexachlorobutadiene	87.6	J	400	18	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
2-Hexanone	ND		1000	220	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Isopropylbenzene	ND		200	36	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
p-Isopropyltoluene	ND		200	11	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
4-Methyl-2-pentanone (MIBK)	ND		500	100	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Methyl tert-butyl ether	ND		100	13	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Methylene Chloride	26.6	J	500	14	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Naphthalene	ND		200	24	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
N-Propylbenzene	ND		100	21	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Styrene	ND		100	18	ug/Kg		09/13/13 09:52	09/13/13 12:53	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

**Lab Sample ID: MB 250-20098/1-A**

**Matrix: Solid**

**Analysis Batch: 20127**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20098**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		100	18	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,1,2,2-Tetrachloroethane	ND		100	24	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Tetrachloroethene	ND		100	27	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Toluene	ND		100	15	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,2,3-Trichlorobenzene	ND		500	100	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,2,4-Trichlorobenzene	ND		100	25	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,1,1-Trichloroethane	ND		100	21	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,1,2-Trichloroethane	ND		100	24	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Trichloroethene	ND		100	21	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Trichlorofluoromethane	ND		100	22	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,2,3-Trichloropropane	ND		100	21	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,2,4-Trimethylbenzene	ND		100	46	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,3,5-Trimethylbenzene	ND		100	24	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
Vinyl chloride	ND		500	100	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
m,p-Xylene	ND		200	36	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
o-Xylene	ND		100	23	ug/Kg		09/13/13 09:52	09/13/13 12:53	1
1,2-Dichlorobenzene	ND		100	14	ug/Kg		09/13/13 09:52	09/13/13 12:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125	09/13/13 09:52	09/13/13 12:53	1
4-Bromofluorobenzene (Surr)	99		75 - 125	09/13/13 09:52	09/13/13 12:53	1
Dibromofluoromethane (Surr)	96		75 - 125	09/13/13 09:52	09/13/13 12:53	1
Toluene-d8 (Surr)	99		75 - 125	09/13/13 09:52	09/13/13 12:53	1

**Lab Sample ID: LCS 250-20098/2-A**

**Matrix: Solid**

**Analysis Batch: 20127**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20098**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	9990	12400		ug/Kg		124	65 - 150
Benzene	2000	1890		ug/Kg		95	80 - 120
Bromobenzene	2000	1860		ug/Kg		93	80 - 120
Bromochloromethane	2000	1870		ug/Kg		93	80 - 120
Bromodichloromethane	2000	1940		ug/Kg		97	80 - 140
Bromoform	2000	1840		ug/Kg		92	75 - 150
Bromomethane	2000	2080		ug/Kg		104	65 - 130
2-Butanone (MEK)	9990	11200		ug/Kg		112	70 - 125
n-Butylbenzene	2000	2030		ug/Kg		101	80 - 150
sec-Butylbenzene	2000	2170		ug/Kg		109	80 - 135
tert-Butylbenzene	2000	2030		ug/Kg		101	80 - 130
Carbon disulfide	4000	3750		ug/Kg		94	65 - 140
Carbon tetrachloride	2000	1990		ug/Kg		100	70 - 130
Chlorobenzene	2000	1900		ug/Kg		95	80 - 125
Chloroethane	2000	1860		ug/Kg		93	75 - 125
Chloroform	2000	1880		ug/Kg		94	80 - 120
Chloromethane	2000	2080		ug/Kg		104	40 - 150
2-Chlorotoluene	2000	1970		ug/Kg		98	80 - 120
4-Chlorotoluene	2000	2020		ug/Kg		101	80 - 125

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

**Lab Sample ID: LCS 250-20098/2-A**

**Matrix: Solid**

**Analysis Batch: 20127**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20098**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	2000	1930		ug/Kg		96	60 - 130
Dibromochloromethane	2000	1990		ug/Kg		99	75 - 125
1,2-Dibromoethane	2000	1970		ug/Kg		99	80 - 125
Dibromomethane	2000	1900		ug/Kg		95	80 - 120
1,2-Dichloroethane	2000	1880		ug/Kg		94	80 - 120
1,3-Dichlorobenzene	2000	1920		ug/Kg		96	80 - 125
1,4-Dichlorobenzene	2000	1850		ug/Kg		93	75 - 120
Dichlorodifluoromethane	2000	2030		ug/Kg		101	75 - 120
1,1-Dichloroethane	2000	1880		ug/Kg		94	80 - 120
1,1-Dichloroethene	2000	1910		ug/Kg		96	75 - 125
cis-1,2-Dichloroethene	2000	1920		ug/Kg		96	75 - 125
trans-1,2-Dichloroethene	2000	1860		ug/Kg		93	75 - 125
1,2-Dichloropropane	2000	1920		ug/Kg		96	80 - 125
1,3-Dichloropropane	2000	1940		ug/Kg		97	75 - 130
2,2-Dichloropropane	2000	2070		ug/Kg		104	70 - 130
1,1-Dichloropropene	2000	1930		ug/Kg		97	80 - 125
cis-1,3-Dichloropropene	2000	1900		ug/Kg		95	80 - 125
trans-1,3-Dichloropropene	2000	1920		ug/Kg		96	65 - 145
Ethylbenzene	2000	2040		ug/Kg		102	80 - 125
Hexachlorobutadiene	2000	2190		ug/Kg		110	80 - 150
2-Hexanone	9990	10800		ug/Kg		108	55 - 120
Isopropylbenzene	2000	2020		ug/Kg		101	80 - 130
p-Isopropyltoluene	2000	2060		ug/Kg		103	80 - 120
4-Methyl-2-pentanone (MIBK)	9990	11100		ug/Kg		111	50 - 120
Methyl tert-butyl ether	2000	1970		ug/Kg		99	75 - 125
Methylene Chloride	2000	1910		ug/Kg		96	75 - 125
Naphthalene	2000	2050		ug/Kg		102	80 - 130
N-Propylbenzene	2000	2120		ug/Kg		106	80 - 120
Styrene	2000	1840		ug/Kg		92	80 - 125
1,1,1,2-Tetrachloroethane	2000	2050		ug/Kg		103	80 - 130
1,1,1,2,2-Tetrachloroethane	2000	2030		ug/Kg		102	70 - 135
Tetrachloroethene	2000	1870		ug/Kg		94	80 - 125
Toluene	2000	1880		ug/Kg		94	80 - 120
1,2,3-Trichlorobenzene	2000	1950		ug/Kg		97	80 - 145
1,2,4-Trichlorobenzene	2000	2030		ug/Kg		102	85 - 150
1,1,1-Trichloroethane	2000	1960		ug/Kg		98	80 - 125
1,1,2-Trichloroethane	2000	1890		ug/Kg		95	80 - 125
Trichloroethene	2000	1810		ug/Kg		91	80 - 125
Trichlorofluoromethane	2000	2080		ug/Kg		104	55 - 150
1,2,3-Trichloropropane	2000	1940		ug/Kg		97	65 - 125
1,2,4-Trimethylbenzene	2000	2110		ug/Kg		106	80 - 135
1,3,5-Trimethylbenzene	2000	2140		ug/Kg		107	80 - 135
Vinyl chloride	2000	1640		ug/Kg		82	10 - 140
m,p-Xylene	4000	4100		ug/Kg		103	80 - 120
o-Xylene	2000	2000		ug/Kg		100	80 - 125
1,2-Dichlorobenzene	2000	1880		ug/Kg		94	80 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

Lab Sample ID: LCS 250-20098/2-A

Matrix: Solid

Analysis Batch: 20127

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20098

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 125
4-Bromofluorobenzene (Surr)	102		75 - 125
Dibromofluoromethane (Surr)	98		75 - 125
Toluene-d8 (Surr)	99		75 - 125

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

Lab Sample ID: MB 280-191438/1-A

Matrix: Solid

Analysis Batch: 191598

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		320	9.8	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Acenaphthylene	ND		320	16	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Acetophenone	ND		320	19	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Anthracene	ND		320	16	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Atrazine	ND		320	35	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Benzidine	ND		3200	950	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Benzo[a]anthracene	ND		320	19	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Benzo[a]pyrene	ND		320	19	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Benzo[b]fluoranthene	ND		320	25	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Benzo[g,h,i]perylene	ND		320	15	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Benzo[k]fluoranthene	ND		320	38	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Bis(2-chloroethoxy)methane	ND		320	22	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Bis(2-chloroethyl)ether	ND		320	16	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Bis(2-ethylhexyl) phthalate	ND		320	44	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Butyl benzyl phthalate	ND		320	41	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Caprolactam	ND		1500	100	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Carbazole	ND		320	34	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Chrysene	ND		320	26	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Di-n-butyl phthalate	ND		320	28	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Di-n-octyl phthalate	ND		320	14	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Dibenz(a,h)anthracene	ND		320	18	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Dibenzofuran	ND		320	19	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Diethyl phthalate	ND		630	25	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Dimethyl phthalate	44.1	J	320	22	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Fluoranthene	ND		320	34	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Fluorene	ND		320	17	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Hexachlorobenzene	ND		320	28	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Hexachlorobutadiene	ND		320	9.6	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Hexachlorocyclopentadiene	ND		1500	48	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Hexachloroethane	ND		320	20	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Indeno[1,2,3-cd]pyrene	ND		320	21	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Naphthalene	ND		320	30	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Nitrobenzene	ND		320	21	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
N-Nitrosodi-n-propylamine	ND		320	30	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		320	20	ug/Kg		09/13/13 19:40	09/16/13 11:37	1

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

**Lab Sample ID: MB 280-191438/1-A**

**Matrix: Solid**

**Analysis Batch: 191598**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 191438**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pentachlorophenol	ND		1500	320	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Phenol	ND		320	17	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Phenanthrene	ND		320	16	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
Pyrene	ND		320	12	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
2,2'-oxybis[1-chloropropane]	ND		320	22	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
2-Chloronaphthalene	ND		320	9.6	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
2-Chlorophenol	ND		320	20	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
2-Methylnaphthalene	ND		320	18	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
2-Methylphenol	ND		320	12	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
2-Nitroaniline	ND		1500	48	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
2-Nitrophenol	ND		320	9.6	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
2,4-Dichlorophenol	ND		320	9.6	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
2,4-Dimethylphenol	ND		320	63	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
2,4-Dinitrophenol	ND		1500	320	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
2,4-Dinitrotoluene	ND		320	63	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
2,6-Dinitrotoluene	ND		320	27	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
2,4,5-Trichlorophenol	ND		320	9.6	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
2,4,6-Trichlorophenol	ND		320	9.6	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
3,3'-Dichlorobenzidine	ND		630	86	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
3 & 4 Methylphenol	ND		320	32	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
3-Nitroaniline	ND		1500	70	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
4-Bromophenyl phenyl ether	ND		320	18	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
4-Chloro-3-methylphenol	ND		320	63	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
4-Chloroaniline	ND		320	78	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
4-Chlorophenyl phenyl ether	ND		320	20	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
4-Nitroaniline	ND		1500	69	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
4-Nitrophenol	ND		1500	93	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
4,6-Dinitro-2-methylphenol	ND		1500	320	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
1,4-Dichlorobenzene	ND		320	13	ug/Kg		09/13/13 19:40	09/16/13 11:37	1
1,2,4-Trichlorobenzene	ND		320	27	ug/Kg		09/13/13 19:40	09/16/13 11:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	73		53 - 120	09/13/13 19:40	09/16/13 11:37	1
Phenol-d5	75		52 - 120	09/13/13 19:40	09/16/13 11:37	1
Nitrobenzene-d5	81		50 - 120	09/13/13 19:40	09/16/13 11:37	1
2-Fluorobiphenyl	77		50 - 120	09/13/13 19:40	09/16/13 11:37	1
2,4,6-Tribromophenol	89		51 - 120	09/13/13 19:40	09/16/13 11:37	1
Terphenyl-d14	92		55 - 120	09/13/13 19:40	09/16/13 11:37	1

**Lab Sample ID: LCS 280-191438/2-A**

**Matrix: Solid**

**Analysis Batch: 191598**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 191438**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acenaphthene	2490	2090		ug/Kg		84	60 - 120
Acenaphthylene	2490	2010		ug/Kg		80	64 - 120
Anthracene	2490	2230		ug/Kg		89	63 - 120
Benzo[a]anthracene	2490	2140		ug/Kg		86	65 - 120

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

**Lab Sample ID: LCS 280-191438/2-A**

**Matrix: Solid**

**Analysis Batch: 191598**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 191438**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	2490	2170		ug/Kg		87	59 - 120
Benzo[b]fluoranthene	2490	2240		ug/Kg		90	47 - 129
Benzo[g,h,i]perylene	2490	2190		ug/Kg		88	55 - 126
Benzo[k]fluoranthene	2490	2250		ug/Kg		90	48 - 130
Bis(2-chloroethoxy)methane	2490	1970		ug/Kg		79	56 - 120
Bis(2-chloroethyl)ether	2490	1840		ug/Kg		74	51 - 120
Bis(2-ethylhexyl) phthalate	2490	2310		ug/Kg		93	65 - 120
Butyl benzyl phthalate	2490	2270		ug/Kg		91	65 - 120
Carbazole	2490	2290		ug/Kg		92	64 - 120
Chrysene	2490	2090		ug/Kg		84	64 - 120
Di-n-butyl phthalate	2490	2390		ug/Kg		96	67 - 120
Di-n-octyl phthalate	2490	2260		ug/Kg		91	66 - 120
Dibenz(a,h)anthracene	2490	2230		ug/Kg		89	50 - 133
Dibenzofuran	2490	2150		ug/Kg		86	61 - 120
Diethyl phthalate	2490	2360		ug/Kg		95	66 - 120
Dimethyl phthalate	2490	2340		ug/Kg		94	65 - 120
Fluoranthene	2490	2320		ug/Kg		93	66 - 120
Fluorene	2490	2230		ug/Kg		90	64 - 120
Hexachlorobenzene	2490	2480		ug/Kg		99	62 - 120
Hexachlorobutadiene	2490	2200		ug/Kg		88	53 - 120
Hexachlorocyclopentadiene	2490	1270	J	ug/Kg		51	47 - 120
Hexachloroethane	2490	2060		ug/Kg		83	51 - 120
Indeno[1,2,3-cd]pyrene	2490	2220		ug/Kg		89	63 - 120
Naphthalene	2490	2010		ug/Kg		81	57 - 120
Nitrobenzene	2490	2130		ug/Kg		86	54 - 120
N-Nitrosodi-n-propylamine	2490	2120		ug/Kg		85	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	2490	2210		ug/Kg		89	61 - 120
Pentachlorophenol	4980	4060		ug/Kg		81	56 - 120
Phenol	2490	1920		ug/Kg		77	56 - 120
Phenanthrene	2490	2270		ug/Kg		91	64 - 120
Pyrene	2490	2260		ug/Kg		91	64 - 120
2,2'-oxybis[1-chloropropane]	2490	1950		ug/Kg		78	49 - 120
2-Chloronaphthalene	2490	1990		ug/Kg		80	59 - 120
2-Chlorophenol	2490	1910		ug/Kg		76	57 - 120
2-Methylnaphthalene	2490	2000		ug/Kg		80	57 - 120
2-Methylphenol	2490	1990		ug/Kg		80	56 - 120
2-Nitroaniline	2490	2420		ug/Kg		97	63 - 120
2-Nitrophenol	2490	1880		ug/Kg		75	56 - 120
2,4-Dichlorophenol	2490	1960		ug/Kg		79	60 - 120
2,4-Dimethylphenol	2490	2080		ug/Kg		83	54 - 120
2,4-Dinitrophenol	4980	3960		ug/Kg		80	46 - 120
2,4-Dinitrotoluene	2490	2250		ug/Kg		90	68 - 120
2,6-Dinitrotoluene	2490	2180		ug/Kg		88	64 - 120
2,4,5-Trichlorophenol	2490	2190		ug/Kg		88	64 - 120
2,4,6-Trichlorophenol	2490	2140		ug/Kg		86	61 - 120
3,3'-Dichlorobenzidine	2490	1690		ug/Kg		68	30 - 120
3 & 4 Methylphenol	2490	2090		ug/Kg		84	53 - 120

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

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

**Lab Sample ID: LCS 280-191438/2-A**

**Matrix: Solid**

**Analysis Batch: 191598**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 191438**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	2490	1770		ug/Kg		71	47 - 120
4-Bromophenyl phenyl ether	2490	2270		ug/Kg		91	64 - 120
4-Chloro-3-methylphenol	2490	2300		ug/Kg		92	63 - 120
4-Chloroaniline	2490	1400		ug/Kg		56	28 - 120
4-Chlorophenyl phenyl ether	2490	2160		ug/Kg		87	64 - 120
4-Nitroaniline	2490	2070		ug/Kg		83	64 - 120
4-Nitrophenol	4980	6100	*	ug/Kg		122	63 - 121
4,6-Dinitro-2-methylphenol	4980	4300		ug/Kg		86	57 - 120
1,4-Dichlorobenzene	2490	1890		ug/Kg		76	52 - 120
1,2,4-Trichlorobenzene	2490	1970		ug/Kg		79	52 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	78		53 - 120
Phenol-d5	83		52 - 120
Nitrobenzene-d5	89		50 - 120
2-Fluorobiphenyl	85		50 - 120
2,4,6-Tribromophenol	110		51 - 120
Terphenyl-d14	99		55 - 120

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-20011/1-A**

**Matrix: Solid**

**Analysis Batch: 20042**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20011**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		3.9		mg/Kg		09/11/13 12:01	09/11/13 12:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	102		50 - 150	09/11/13 12:01	09/11/13 12:56	1

**Lab Sample ID: LCS 250-20011/2-A**

**Matrix: Solid**

**Analysis Batch: 20042**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20011**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	25.0	24.8		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	107		50 - 150

**Lab Sample ID: 250-14066-5 MS**

**Matrix: Solid**

**Analysis Batch: 20042**

**Client Sample ID: N-DP-8 (5.5-6.5)**

**Prep Type: Total/NA**

**Prep Batch: 20011**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	ND		38.3	40.0		mg/Kg	☼	98	65 - 130

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 250-14066-5 MS**  
**Matrix: Solid**  
**Analysis Batch: 20042**

**Client Sample ID: N-DP-8 (5.5-6.5)**  
**Prep Type: Total/NA**  
**Prep Batch: 20011**

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	105		50 - 150

**Lab Sample ID: 250-14066-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 20042**

**Client Sample ID: N-DP-5B (5-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 20011**

Analyte	Sample		DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Gasoline Range Hydrocarbons	ND		ND		mg/Kg	*	NC	40

	DU	DU	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	101		50 - 150

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-20009/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20063**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20009**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
DRO (C10-C25)	ND		12		mg/Kg		09/11/13 11:31	09/11/13 17:21	1
RRO (nC25-nC36)	ND		25		mg/Kg		09/11/13 11:31	09/11/13 17:21	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctadecane	87		50 - 150	09/11/13 11:31	09/11/13 17:21	1

**Lab Sample ID: MB 250-20009/1-B**  
**Matrix: Solid**  
**Analysis Batch: 20063**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20009**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
DRO (C10-C25)	ND		12		mg/Kg		09/11/13 11:31	09/11/13 18:40	1
RRO (nC25-nC36)	ND		25		mg/Kg		09/11/13 11:31	09/11/13 18:40	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctadecane	96		50 - 150	09/11/13 11:31	09/11/13 18:40	1

**Lab Sample ID: LCS 250-20009/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20063**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20009**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
DRO (C10-C25)	124	127		mg/Kg		102	50 - 150
RRO (nC25-nC36)	74.7	72.7		mg/Kg		97	50 - 150

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctadecane	94		50 - 150

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 250-20009/2-B**

**Matrix: Solid**

**Analysis Batch: 20063**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20009**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C25)	124	129		mg/Kg		103	50 - 150
RRO (nC25-nC36)	74.7	77.8		mg/Kg		104	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctadecane	104		50 - 150

**Lab Sample ID: 250-14066-2 DU**

**Matrix: Solid**

**Analysis Batch: 20063**

**Client Sample ID: N-DP-5B (5-6)**

**Prep Type: Total/NA**

**Prep Batch: 20009**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
DRO (C10-C25)	380		305		mg/Kg	☼	23	40
RRO (nC25-nC36)	1200		1010		mg/Kg	☼	17	40

Surrogate	DU %Recovery	DU Qualifier	Limits
1-Chlorooctadecane	82		50 - 150

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

**Lab Sample ID: MB 250-20123/1-A**

**Matrix: Solid**

**Analysis Batch: 20165**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20123**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.49		mg/Kg		09/13/13 21:10	09/16/13 16:27	10
Barium	ND		0.49		mg/Kg		09/13/13 21:10	09/16/13 16:27	10
Cadmium	ND		0.49		mg/Kg		09/13/13 21:10	09/16/13 16:27	10
Chromium	ND		0.98		mg/Kg		09/13/13 21:10	09/16/13 16:27	10
Lead	ND		0.49		mg/Kg		09/13/13 21:10	09/16/13 16:27	10
Selenium	ND		0.49		mg/Kg		09/13/13 21:10	09/16/13 16:27	10
Silver	ND		0.49		mg/Kg		09/13/13 21:10	09/16/13 16:27	10

**Lab Sample ID: LCS 250-20123/2-A**

**Matrix: Solid**

**Analysis Batch: 20165**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20123**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	48.3	47.8		mg/Kg		99	80 - 120
Barium	48.3	47.9		mg/Kg		99	80 - 120
Cadmium	48.3	47.8		mg/Kg		99	80 - 120
Chromium	48.3	49.4		mg/Kg		102	80 - 120
Lead	48.3	50.2		mg/Kg		104	80 - 120
Selenium	48.3	47.6		mg/Kg		98	80 - 120
Silver	24.2	24.5		mg/Kg		101	80 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 250-20067/10-A

Matrix: Solid

Analysis Batch: 20082

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20067

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.096		mg/Kg		09/12/13 15:37	09/12/13 20:11	1

Lab Sample ID: LCS 250-20067/11-A

Matrix: Solid

Analysis Batch: 20082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20067

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.531	0.568		mg/Kg		107	80 - 120

## Method: D2216-80 - Percent Dry Weight (Solids) per ASTM D2216-80

Lab Sample ID: 250-14066-2 DU

Matrix: Solid

Analysis Batch: 20168

Client Sample ID: N-DP-5B (5-6)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	16		17		%		7	20
Percent Solids	84		83		%		1	20

# Certification Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

## Laboratory: TestAmerica Portland

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14

## Laboratory: TestAmerica Denver

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	11-30-13
A2LA	ISO/IEC 17025		2907.01	11-30-13
Alaska (UST)	State Program	10	UST-30	04-05-14
Arizona	State Program	9	AZ0713	12-19-13
Arkansas DEQ	State Program	6	88-0687	06-01-14
California	ELAP	9	2513	08-31-14
Colorado	State Program	8	N/A	09-30-14
Connecticut	State Program	1	PH-0686	09-30-14
Florida	NELAP	4	E87667	06-30-14
Idaho	State Program	10	CO00026	09-30-13
Illinois	NELAP	5	200017	04-30-14
Iowa	State Program	7	370	12-01-14
Kansas	NELAP	7	E-10166	04-30-14
Louisiana	NELAP	6	30785	06-30-14 *
Maine	State Program	1	CO0002	03-03-15
Maryland	State Program	3	268	03-31-14
Minnesota	NELAP	5	8-999-405	12-31-13
Nevada	State Program	9	CO0026	09-01-14
New Hampshire	NELAP	1	205310	04-28-14
New Jersey	NELAP	2	CO004	06-30-14
New Mexico	State Program	6	CO00026	06-30-14 *
New York	NELAP	2	11964	04-01-14
North Carolina DENR	State Program	4	358	12-31-13
North Dakota	State Program	8	R-034	06-30-14 *
Oklahoma	State Program	6	8614	08-31-14
Oregon	NELAP	10	CO200001	01-16-14
Pennsylvania	NELAP	3	68-00664	07-30-14
South Carolina	State Program	4	72002	06-30-14 *
Tennessee	State Program	4	TN02944	09-30-13
Texas	NELAP	6	T104704183-08-TX	10-01-14
USDA	Federal		P330-13-00202	07-02-16
Utah	NELAP	8	CO000262012-4	07-31-14
Virginia	NELAP	3	460232	06-14-14
Washington	State Program	10	C583	08-03-14
West Virginia DEP	State Program	3	354	11-30-13
Wisconsin	State Program	5	999615430	08-31-14
Wyoming (UST)	A2LA	8		11-30-13

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

# Method Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14066-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PRT
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL PRT
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL PRT
6020	Metals (ICP/MS)	SW846	TAL PRT
7471A	Mercury (CVAA)	SW846	TAL PRT
D2216-80	Percent Dry Weight (Solids) per ASTM D2216-80	ASTM	TAL PRT

**Protocol References:**

ASTM = ASTM International

NWTPH = Northwest Total Petroleum Hydrocarbon

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

**Laboratory References:**

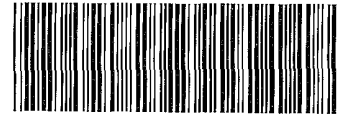
TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TestAmerica Portland

9405 SW Nimbus Avenue

Chain of Custody



250-14066 Chain of Custody

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Beaverton, OR 97008  
phone 503.906.9200 fax 503.906.9210

Regulatory Program:  DW  NPDES  RCRA

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: <i>Jodie Lamb</i>		Site Contact: <i>Jodie Lamb</i>		Date: <i>9/10/13</i>		COC No:		
Your Company Name here: <i>GeoEngineers</i>		Tel/Fax:		Lab Contact:		Carrier:		_____ of _____ COCs		
Address: <i>523 E 2nd Ave</i>		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>GRAPH BY NUTRIENT-SUBSTRATE DATE BY NUTRIENT-DYNAMICS VOICE BY EPA 8260 SOLUBLE BY EPA 8210 METALS BY EPA 8210</i>				For Lab Use Only:		
City/State/Zip: <i>SPOKANE WA 99202</i>		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS						Walk-in Client:		
(xxx) xxx-xxxx: <i>509 8873111</i> Phone: <i>363 3125</i>		TAT if different from Below _____						Lab Sampling:		
(xxx) xxx-xxxx: _____ FAX: _____		<input type="checkbox"/> 2 weeks						Job / SDG No.:		
Project Name: <i>Cashmere Mill ST</i>		<input checked="" type="checkbox"/> 1 week						Sampler: <i>AKEN</i>		
Site: _____		<input type="checkbox"/> 2 days		Sample Specific Notes:						
P O # _____		<input type="checkbox"/> 1 day								
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.				
<i>N-DP-5B (2.5-3.5)</i>		<i>9/10/13</i>	<i>0942</i>	<i>G</i>	<i>S</i>	<i>2</i>	<i>M</i>	<i>Random MS/MSD</i>		
<i>N-DP-5B (5-6)</i>			<i>0958</i>					<i>XX</i>		
<i>N-DP-5B (11-12)</i>			<i>1005</i>							
<i>N-DP-8 (0-1)</i>			<i>0847</i>							
<i>N-DP-8 (5.5-6.5)</i>			<i>0904</i>					<i>XX</i>		
<i>N-DP-8A (2-3)</i>			<i>0905</i>					<i>XX XX XX</i>		
<i>N-DP-8A (7.5-8)</i>			<i>0932</i>							
<i>N-DP-8A (11-12)</i>			<i>1008</i>					<i>XX</i>		
<i>N-DP-9 (0-1)</i>			<i>0813</i>							
<i>N-DP-9 (5-6)</i>			<i>0816</i>					<i>XX XX XX</i>		
<i>N-DP-9 (13-14)</i>			<i>0835</i>							
<i>N-DP-9 (1-2)</i>			<i>1020</i>					<i>XX</i>		
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for <i>1</i> Months					
Special Instructions/QC Requirements & Comments: <i>METALS = ARSENIC, BARIUM, CADMIUM, CHROMIUM, MERCURY, LEAD, SELENIUM, AND SILVER</i>										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): <i>3.5</i>		Obs'd:		Therm ID No.:		
Relinquished by: <i>Dave Thompson</i>		Company: <i>GeoEngineers</i>		Date/Time: <i>9/10 14 30</i>		Received by: <i>[Signature]</i>		Company: <i>TAP</i>		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		

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**TestAmerica Portland**

9405 SW Nimbus Avenue

Beaverton, OR 97008  
phone 503.906.9200 fax 503.906.9210

**Chain of Custody Record**

14066

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact		Project Manager: <u>Jodie Lamb</u>		Site Contact: <u>ELH</u>		Date: <u>9/10/13</u>		COC No:			
Your Company Name here <u>GeoEngineers</u>		Tel/Fax:		Lab Contact:		Carrier: <u>UPS</u>		_____ of _____ COCs			
Address <u>523 E 2nd Ave</u>		Analysis Turnaround Time									
City/State/Zip <u>Spokane WA 99202</u>		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS		Filtered Sample (Y/N) Perform MS/MSD (Y/N) GRABBY-NITRATE-GX-W/SGC DRINK-WATER-DX-W/SGC VOCs BY EPA 8260 SVOCs BY EPA 8270 METALS BY EPA 8210/1000						For Lab Use Only:	
(xxx) xxx-xxxx Phone <u>509 363 7125</u>		TAT if different from Below _____								Walk-in Client:	
(xxx) xxx-xxxx FAX _____		<input type="checkbox"/> 2 weeks								Lab Sampling:	
Project Name: <u>Cosmate Mill St.</u>		<input checked="" type="checkbox"/> 1 week								Job / SDG No.:	
Site: <u>Cosmate</u>		<input type="checkbox"/> 2 days		Sampler: <u>KAH CH</u>							
P O # <u>18593 001 02</u>		<input type="checkbox"/> 1 day									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:				
<u>N-DP-19(5-6)</u>		<u>9/10/13</u>	<u>1027</u>	<u>G</u>	<u>S</u>	<u>2</u>	<u>Random MS/MSD</u>				
<u>N-DP-19(12-13)</u>			<u>1031</u>								
<u>N-DP-21(1.5-2.5)</u>			<u>1055</u>				<u>XX</u>				
<u>N-DP-21(6-7)</u>			<u>1108</u>								
<u>N-DP-21A(10-10.5)</u>			<u>1145</u>								
<u>N-DP-23(1-2)</u>			<u>1225</u>				<u>XX</u>				
<u>N-DP-23(6.5-7.5)</u>			<u>1230</u>								
<u>N-DP-23(12.5-13.5)</u>			<u>1225</u>								
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for <u>1</u> Months						
Special Instructions/QC Requirements & Comments: <u>METALS = ARSENIC, BARIUM, CADMIUM, CHROMIUM, MERCURY, LEAD, SELENIUM, AND SILVER</u>											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: <u>3.5</u>		Therm ID No.: <u>digit 1/L</u>		Corr'd:			
Relinquished by: <u>Dave Thompson</u>		Company: <u>GeoEngineers</u>		Date/Time: <u>9/10 14:30</u>		Received by: <u>AM. h</u>		Company: <u>TAP</u>			
Relinquished by:		Company:		Date/Time:		Received by:		Company:			
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:			

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## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14066-1

**Login Number: 14066**

**List Source: TestAmerica Portland**

**List Number: 1**

**Creator: Svabik-Seror, Philip M**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Label for N-DP-9(13-14) does not match COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Two containers received broken.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14066-1

**Login Number: 14066**

**List Number: 1**

**Creator: Roman, Alex F**

**List Source: TestAmerica Denver**

**List Creation: 09/12/13 01:07 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	blank
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Portland  
9405 SW Nimbus Ave.  
Beaverton, OR 97008  
Tel: (503)906-9200

TestAmerica Job ID: 250-14067-1  
Client Project/Site: Cashmere Mill  
Revision: 1

For:  
GeoEngineers Inc  
523 East Second Ave  
Spokane, Washington 99202

Attn: Jodie Lamb



Authorized for release by:  
11/11/2013 4:48:10 PM

Vanessa Berry, Project Manager I  
(503)906-9233  
[vanessa.frahs@testamericainc.com](mailto:vanessa.frahs@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

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# Sample Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14067-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-14067-2	N-DP-1 (6-7)	Solid	09/09/13 12:05	09/11/13 09:25
250-14067-4	N-DP-2 (2.5-3)	Solid	09/09/13 16:26	09/11/13 09:25
250-14067-8	N-DP-3 (5-6)	Solid	09/09/13 12:55	09/11/13 09:25
250-14067-12	N-DP-5 (2-3)	Solid	09/09/13 17:00	09/11/13 09:25
250-14067-13	N-DP-6 (3-4)	Solid	09/09/13 15:46	09/11/13 09:25
250-14067-17	N-DP-10 (5-6)	Solid	09/09/13 15:00	09/11/13 09:25
250-14067-20	N-DP-15 (6-7)	Solid	09/09/13 14:04	09/11/13 09:25



# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14067-1

**Job ID: 250-14067-1**

**Laboratory: TestAmerica Portland**

## Narrative

### Job Narrative 250-14067-1

#### Comments

Revised Report: Includes 8260 VOC results down to the MDL.

#### Receipt

The samples were received on 9/11/2013 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° C.

#### GC VOA

Method NWTPH-Gx: The Gasoline Range Hydrocarbons (GRH) concentration reported for the following sample(s) is due to the presence of discrete peaks: N-DP-1 (6-7) (250-14067-2), N-DP-2 (2.5-3) (250-14067-4), N-DP-3 (5-6) (250-14067-8).

No other analytical or quality issues were noted.

#### GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to a non-typical hydrocarbon pattern. N-DP-3 (5-6) (250-14067-8)

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to oil overlap. N-DP-5 (2-3) (250-14067-12)

Method NWTPH-Dx: The matrix duplicate %RPD for 250-14054-a-1 associated with batch 250-20009 was outside the control limits due to non homogeneity of the sample. (250-14054-1 DU)

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to a non-typical pattern. N-DP-1 (6-7) (250-14067-2), N-DP-2 (2.5-3) (250-14067-4)

Method NWTPH-Dx: The matrix duplicate %RPD for 250-14054-a-1 associated with batch 250-20009 was outside the control limits due to non homogeneity of the sample. (250-14054-1 DU)

No other analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

#### VOA Prep

No analytical or quality issues were noted.

# Definitions/Glossary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14067-1

## 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.

## Glossary

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

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14067-1

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

**Client Sample ID: N-DP-1 (6-7)**

**Date Collected: 09/09/13 12:05**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-2**

**Matrix: Solid**

**Percent Solids: 76.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		540	110	ug/Kg	☼	09/17/13 16:45	09/20/13 22:04	1
Benzene	ND		180	36	ug/Kg	☼	09/17/13 16:45	09/20/13 22:04	1
Ethylbenzene	ND		180	32	ug/Kg	☼	09/17/13 16:45	09/20/13 22:04	1
<b>Toluene</b>	<b>240</b>		180	27	ug/Kg	☼	09/17/13 16:45	09/20/13 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 125				09/17/13 16:45	09/20/13 22:04	1
4-Bromofluorobenzene (Surr)	100		75 - 125				09/17/13 16:45	09/20/13 22:04	1
Dibromofluoromethane (Surr)	96		75 - 125				09/17/13 16:45	09/20/13 22:04	1
Toluene-d8 (Surr)	98		75 - 125				09/17/13 16:45	09/20/13 22:04	1

**Client Sample ID: N-DP-2 (2.5-3)**

**Date Collected: 09/09/13 16:26**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-4**

**Matrix: Solid**

**Percent Solids: 71.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		670	130	ug/Kg	☼	09/17/13 16:45	09/20/13 22:28	1
Benzene	ND		220	45	ug/Kg	☼	09/17/13 16:45	09/20/13 22:28	1
Ethylbenzene	ND		220	40	ug/Kg	☼	09/17/13 16:45	09/20/13 22:28	1
<b>Toluene</b>	<b>92</b>	<b>J</b>	220	34	ug/Kg	☼	09/17/13 16:45	09/20/13 22:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 125				09/17/13 16:45	09/20/13 22:28	1
4-Bromofluorobenzene (Surr)	103		75 - 125				09/17/13 16:45	09/20/13 22:28	1
Dibromofluoromethane (Surr)	94		75 - 125				09/17/13 16:45	09/20/13 22:28	1
Toluene-d8 (Surr)	97		75 - 125				09/17/13 16:45	09/20/13 22:28	1

**Client Sample ID: N-DP-3 (5-6)**

**Date Collected: 09/09/13 12:55**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-8**

**Matrix: Solid**

**Percent Solids: 77.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		590	120	ug/Kg	☼	09/17/13 16:45	09/20/13 22:53	1
Benzene	ND		200	39	ug/Kg	☼	09/17/13 16:45	09/20/13 22:53	1
Ethylbenzene	ND		200	36	ug/Kg	☼	09/17/13 16:45	09/20/13 22:53	1
<b>Toluene</b>	<b>66</b>	<b>J</b>	200	30	ug/Kg	☼	09/17/13 16:45	09/20/13 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 125				09/17/13 16:45	09/20/13 22:53	1
4-Bromofluorobenzene (Surr)	102		75 - 125				09/17/13 16:45	09/20/13 22:53	1
Dibromofluoromethane (Surr)	94		75 - 125				09/17/13 16:45	09/20/13 22:53	1
Toluene-d8 (Surr)	99		75 - 125				09/17/13 16:45	09/20/13 22:53	1

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14067-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-1 (6-7)**

**Date Collected: 09/09/13 12:05**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-2**

**Matrix: Solid**

**Percent Solids: 76.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	24		7.1		mg/Kg	☼	09/11/13 12:01	09/11/13 20:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	101		50 - 150				09/11/13 12:01	09/11/13 20:15	1

**Client Sample ID: N-DP-2 (2.5-3)**

**Date Collected: 09/09/13 16:26**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-4**

**Matrix: Solid**

**Percent Solids: 71.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	69		9.0		mg/Kg	☼	09/11/13 12:01	09/11/13 20:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	99		50 - 150				09/11/13 12:01	09/11/13 20:44	1

**Client Sample ID: N-DP-3 (5-6)**

**Date Collected: 09/09/13 12:55**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-8**

**Matrix: Solid**

**Percent Solids: 77.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	19		7.9		mg/Kg	☼	09/11/13 12:01	09/11/13 21:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	100		50 - 150				09/11/13 12:01	09/11/13 21:12	1

**Client Sample ID: N-DP-5 (2-3)**

**Date Collected: 09/09/13 17:00**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-12**

**Matrix: Solid**

**Percent Solids: 91.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.7		mg/Kg	☼	09/11/13 12:01	09/11/13 22:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	101		50 - 150				09/11/13 12:01	09/11/13 22:09	1

**Client Sample ID: N-DP-6 (3-4)**

**Date Collected: 09/09/13 15:46**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-13**

**Matrix: Solid**

**Percent Solids: 76.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.6		mg/Kg	☼	09/11/13 12:03	09/11/13 23:06	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	100		50 - 150				09/11/13 12:03	09/11/13 23:06	1

**Client Sample ID: N-DP-10 (5-6)**

**Date Collected: 09/09/13 15:00**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-17**

**Matrix: Solid**

**Percent Solids: 95.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.6		mg/Kg	☼	09/11/13 12:03	09/11/13 23:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	99		50 - 150				09/11/13 12:03	09/11/13 23:34	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14067-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-15 (6-7)**

**Date Collected: 09/09/13 14:04**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-20**

**Matrix: Solid**

**Percent Solids: 93.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.6		mg/Kg	☼	09/11/13 12:03	09/12/13 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (fid)</i>	92		50 - 150				09/11/13 12:03	09/12/13 00:03	1



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14067-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-1 (6-7)**

**Date Collected: 09/09/13 12:05**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-2**

**Matrix: Solid**

**Percent Solids: 76.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	38		16		mg/Kg	☼	09/11/13 11:31	09/11/13 19:59	1
RRO (nC25-nC36)	150		33		mg/Kg	☼	09/11/13 11:31	09/11/13 19:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	90		50 - 150				09/11/13 11:31	09/11/13 19:59	1

**Client Sample ID: N-DP-2 (2.5-3)**

**Date Collected: 09/09/13 16:26**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-4**

**Matrix: Solid**

**Percent Solids: 71.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	290		17		mg/Kg	☼	09/11/13 11:31	09/11/13 20:18	1
RRO (nC25-nC36)	150		35		mg/Kg	☼	09/11/13 11:31	09/11/13 20:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	119		50 - 150				09/11/13 11:31	09/11/13 20:18	1

**Client Sample ID: N-DP-3 (5-6)**

**Date Collected: 09/09/13 12:55**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-8**

**Matrix: Solid**

**Percent Solids: 77.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	220		16		mg/Kg	☼	09/11/13 11:31	09/12/13 15:01	1
RRO (nC25-nC36)	160		32		mg/Kg	☼	09/11/13 11:31	09/12/13 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	64		50 - 150				09/11/13 11:31	09/12/13 15:01	1

**Client Sample ID: N-DP-5 (2-3)**

**Date Collected: 09/09/13 17:00**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-12**

**Matrix: Solid**

**Percent Solids: 91.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	19		14		mg/Kg	☼	09/11/13 11:31	09/12/13 15:20	1
RRO (nC25-nC36)	94		27		mg/Kg	☼	09/11/13 11:31	09/12/13 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	81		50 - 150				09/11/13 11:31	09/12/13 15:20	1

**Client Sample ID: N-DP-6 (3-4)**

**Date Collected: 09/09/13 15:46**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-13**

**Matrix: Solid**

**Percent Solids: 76.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		16		mg/Kg	☼	09/11/13 11:31	09/12/13 15:39	1
RRO (nC25-nC36)	38		32		mg/Kg	☼	09/11/13 11:31	09/12/13 15:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	91		50 - 150				09/11/13 11:31	09/12/13 15:39	1

**Client Sample ID: N-DP-10 (5-6)**

**Date Collected: 09/09/13 15:00**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-17**

**Matrix: Solid**

**Percent Solids: 95.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/11/13 11:31	09/11/13 21:16	1
RRO (nC25-nC36)	ND		26		mg/Kg	☼	09/11/13 11:31	09/11/13 21:16	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14067-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	78		50 - 150	09/11/13 11:31	09/11/13 21:16	1

**Client Sample ID: N-DP-15 (6-7)**

**Date Collected: 09/09/13 14:04**

**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-20**

**Matrix: Solid**

**Percent Solids: 93.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/11/13 11:31	09/11/13 21:55	1
RRO (nC25-nC36)	ND		27		mg/Kg	☼	09/11/13 11:31	09/11/13 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	87		50 - 150	09/11/13 11:31	09/11/13 21:55	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14067-1

## General Chemistry

**Client Sample ID: N-DP-1 (6-7)**  
**Date Collected: 09/09/13 12:05**  
**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		0.010		%			09/12/13 17:27	1
Percent Solids	76		0.010		%			09/12/13 17:27	1

**Client Sample ID: N-DP-2 (2.5-3)**  
**Date Collected: 09/09/13 16:26**  
**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28		0.010		%			09/12/13 17:27	1
Percent Solids	72		0.010		%			09/12/13 17:27	1

**Client Sample ID: N-DP-3 (5-6)**  
**Date Collected: 09/09/13 12:55**  
**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		0.010		%			09/12/13 17:27	1
Percent Solids	78		0.010		%			09/12/13 17:27	1

**Client Sample ID: N-DP-5 (2-3)**  
**Date Collected: 09/09/13 17:00**  
**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-12**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		0.010		%			09/12/13 17:27	1
Percent Solids	92		0.010		%			09/12/13 17:27	1

**Client Sample ID: N-DP-6 (3-4)**  
**Date Collected: 09/09/13 15:46**  
**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-13**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24		0.010		%			09/12/13 17:47	1
Percent Solids	76		0.010		%			09/12/13 17:47	1

**Client Sample ID: N-DP-10 (5-6)**  
**Date Collected: 09/09/13 15:00**  
**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-17**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.7		0.010		%			09/12/13 17:47	1
Percent Solids	95		0.010		%			09/12/13 17:47	1

**Client Sample ID: N-DP-15 (6-7)**  
**Date Collected: 09/09/13 14:04**  
**Date Received: 09/11/13 09:25**

**Lab Sample ID: 250-14067-20**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.6		0.010		%			09/12/13 17:47	1
Percent Solids	93		0.010		%			09/12/13 17:47	1

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14067-1

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

Lab Sample ID: MB 250-20216/1-A

Matrix: Solid

Analysis Batch: 20244

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		290	58	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Benzene	ND		98	20	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Ethylbenzene	ND		98	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Toluene	ND		98	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125	09/17/13 17:00	09/18/13 07:35	1
4-Bromofluorobenzene (Surr)	98		75 - 125	09/17/13 17:00	09/18/13 07:35	1
Dibromofluoromethane (Surr)	96		75 - 125	09/17/13 17:00	09/18/13 07:35	1
Toluene-d8 (Surr)	99		75 - 125	09/17/13 17:00	09/18/13 07:35	1

Lab Sample ID: LCS 250-20216/2-A

Matrix: Solid

Analysis Batch: 20244

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20216

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Xylenes, Total	5800	5700		ug/Kg		98	70 - 130
Benzene	1930	1800		ug/Kg		93	80 - 120
Ethylbenzene	1930	1890		ug/Kg		98	80 - 125
Toluene	1930	1790		ug/Kg		92	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		75 - 125
4-Bromofluorobenzene (Surr)	105		75 - 125
Dibromofluoromethane (Surr)	102		75 - 125
Toluene-d8 (Surr)	103		75 - 125

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 250-20011/1-A

Matrix: Solid

Analysis Batch: 20042

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20011

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		3.9		mg/Kg		09/11/13 12:01	09/11/13 12:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	102		50 - 150	09/11/13 12:01	09/11/13 12:56	1

Lab Sample ID: LCS 250-20011/2-A

Matrix: Solid

Analysis Batch: 20042

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Gasoline Range Hydrocarbons	25.0	24.8		mg/Kg		99	70 - 130

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14067-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 250-20011/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20042**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20011**

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	107		50 - 150

**Lab Sample ID: 250-14067-12 DU**  
**Matrix: Solid**  
**Analysis Batch: 20042**

**Client Sample ID: N-DP-5 (2-3)**  
**Prep Type: Total/NA**  
**Prep Batch: 20011**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Gasoline Range Hydrocarbons	ND		ND		mg/Kg	*	NC	40

	DU	DU	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	102		50 - 150

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-20009/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20063**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20009**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
DRO (C10-C25)	ND		12		mg/Kg		09/11/13 11:31	09/11/13 17:21	1
RRO (nC25-nC36)	ND		25		mg/Kg		09/11/13 11:31	09/11/13 17:21	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctadecane	87		50 - 150	09/11/13 11:31	09/11/13 17:21	1

**Lab Sample ID: LCS 250-20009/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20063**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20009**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
DRO (C10-C25)	124	127		mg/Kg		102	50 - 150
RRO (nC25-nC36)	74.7	72.7		mg/Kg		97	50 - 150

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctadecane	94		50 - 150

# Certification Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14067-1

## Laboratory: TestAmerica Portland

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14

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# Method Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14067-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PRT
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL PRT
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL PRT
D2216-80	Percent Dry Weight (Solids) per ASTM D2216-80	ASTM	TAL PRT

**Protocol References:**

ASTM = ASTM International

NWTPH = Northwest Total Petroleum Hydrocarbon

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

**Laboratory References:**

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200





## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14067-1

Login Number: 14067

List Number: 1

Creator: Svabik-Seror, Philip M

List Source: TestAmerica Portland

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Portland  
9405 SW Nimbus Ave.  
Beaverton, OR 97008  
Tel: (503)906-9200

TestAmerica Job ID: 250-14116-1  
Client Project/Site: Cashmere Mill  
Revision: 2

For:  
GeoEngineers Inc  
523 East Second Ave  
Spokane, Washington 99202

Attn: Dave Lauder



Authorized for release by:  
11/11/2013 4:20:32 PM

Vanessa Berry, Project Manager I  
(503)906-9233  
[vanessa.frahs@testamericainc.com](mailto:vanessa.frahs@testamericainc.com)

### LINKS

Review your project  
results through  
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Have a Question?



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[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

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# Sample Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-14116-1	N-DP-7(0-1)	Solid	09/10/13 14:55	09/12/13 09:50
250-14116-5	N-DP-16(7-8)	Solid	09/10/13 14:04	09/12/13 09:50
250-14116-8	N-DP-25(6-7)	Solid	09/11/13 14:15	09/12/13 09:50
250-14116-11	N-DP-30(8-9)	Solid	09/10/13 15:50	09/12/13 09:50
250-14116-14	N-DP-27(7-8)	Solid	09/10/13 18:27	09/12/13 09:50
250-14116-15	N-DP-27(12-13)	Solid	09/10/13 18:37	09/12/13 09:50
250-14116-17	N-DP-31(8-9)	Solid	09/10/13 16:37	09/12/13 09:50
250-14116-19	N-DP-32(3-4)	Solid	09/10/13 17:04	09/12/13 09:50
250-14116-22	N-DP-35(2-3)	Solid	09/11/13 11:16	09/12/13 09:50
250-14116-23	N-DP-35(7-8)	Solid	09/11/13 11:20	09/12/13 09:50
250-14116-26	N-DP-36(7-8)	Solid	09/11/13 08:47	09/12/13 09:50
250-14116-28	N-DP-43(0.5-1.5)	Solid	09/11/13 09:30	09/12/13 09:50
250-14116-29	N-DP-43(8-9)	Solid	09/11/13 09:35	09/12/13 09:50
250-14116-31	N-DP-33(5-6)	Solid	09/11/13 12:18	09/12/13 09:50
250-14116-32	N-DP-42(1.5-2.5)	Solid	09/11/13 10:20	09/12/13 09:50
250-14116-33	N-DP-42(7.5-8.5)	Solid	09/11/13 10:25	09/12/13 09:50
250-14116-36	N-DP-44(9-10)	Solid	09/11/13 11:30	09/12/13 09:50
250-14116-38	N-DP-45(8.5-9.5)	Solid	09/11/13 12:36	09/12/13 09:50

# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

**Job ID: 250-14116-1**

**Laboratory: TestAmerica Portland**

## Narrative

### Job Narrative 250-14116-1

#### Comments

Revised Report: Includes 8260 VOC and 8270 SVOC results down to the MDL.  
The Gx, Dx, and Metals for 250-14116-15 were added as follow-ups. The Gx and DX were run past holding time.

#### Receipt

The samples were received on 9/12/2013 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.3° C and 3.6° C.

#### Except:

N-DP-42(1.5-2.5) (250-14116-32) 8 oz. jar for this sample was received broken. Since sample was contained within plastic ziplock bag, it was transferred into a new 8 oz jar in lab.

#### GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 20244 recovered outside control limits for the following analytes: dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method 8270C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 191624 recovered outside control limits for the following analyte: hexachlorocyclopentadiene. Hexachlorocyclopentadiene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

No other analytical or quality issues were noted.

#### GC VOA

No analytical or quality issues were noted.

#### GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons appear to be due to heavily weathered diesel and/or a light weight oil. N-DP-27(7-8) (250-14116-14)

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to oil overlap. (250-14054-2 DU), KEEL-1351C (250-14054-2)

No other analytical or quality issues were noted.

#### Metals

No analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

#### VOA Prep

No analytical or quality issues were noted.



# Definitions/Glossary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control 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.

### 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.
*	LCS or LCSD exceeds the control limits

### GC VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

### GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

### Metals

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits

### General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

## Glossary

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

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Client Sample ID: N-DP-27(7-8)**

**Date Collected: 09/10/13 18:27**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-14**

**Matrix: Solid**

**Percent Solids: 90.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		3200	650	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Benzene	ND		130	26	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Bromobenzene	ND		130	26	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Bromochloromethane	ND		130	31	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Bromodichloromethane	ND		130	19	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Bromoform	ND		650	130	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Bromomethane	ND		650	36	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
2-Butanone (MEK)	ND		1300	390	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
n-Butylbenzene	ND		650	67	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
sec-Butylbenzene	ND		130	26	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
tert-Butylbenzene	ND		130	17	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Carbon disulfide	ND		1300	50	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Carbon tetrachloride	ND		130	25	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Chlorobenzene	ND		130	25	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Chloroethane	ND		130	28	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Chloroform	ND		130	21	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Chloromethane	ND		650	19	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
2-Chlorotoluene	ND		130	17	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
4-Chlorotoluene	ND		130	23	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,2-Dibromo-3-Chloropropane	ND		650	130	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Dibromochloromethane	ND		130	22	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,2-Dibromoethane	ND		130	22	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Dibromomethane	ND		130	27	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,2-Dichloroethane	ND		130	21	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,3-Dichlorobenzene	ND		130	22	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,4-Dichlorobenzene	ND		130	37	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Dichlorodifluoromethane	ND	*	650	32	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,1-Dichloroethane	ND		130	25	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,1-Dichloroethene	ND		130	21	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
cis-1,2-Dichloroethene	ND		130	36	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
trans-1,2-Dichloroethene	ND		130	26	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,2-Dichloropropane	ND		130	21	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,3-Dichloropropane	ND		130	22	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
2,2-Dichloropropane	ND		130	22	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,1-Dichloropropene	ND		130	19	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
cis-1,3-Dichloropropene	ND		130	22	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
trans-1,3-Dichloropropene	ND		130	19	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Ethylbenzene	ND		130	23	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
<b>Hexachlorobutadiene</b>	<b>31</b>	<b>J B</b>	520	23	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
2-Hexanone	ND		1300	280	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Isopropylbenzene	ND		260	46	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
p-Isopropyltoluene	ND		260	14	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
4-Methyl-2-pentanone (MIBK)	ND		650	130	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Methyl tert-butyl ether	ND		130	17	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Methylene Chloride	ND		650	18	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Naphthalene	ND		260	31	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
N-Propylbenzene	ND		130	27	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Styrene	ND		130	23	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,1,1,2-Tetrachloroethane	ND		130	23	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Client Sample ID: N-DP-27(7-8)**

**Date Collected: 09/10/13 18:27**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-14**

**Matrix: Solid**

**Percent Solids: 90.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		130	31	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Tetrachloroethene	ND		130	35	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Toluene	ND		130	19	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,2,3-Trichlorobenzene	ND		650	130	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,2,4-Trichlorobenzene	ND		130	32	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,1,1-Trichloroethane	ND		130	27	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,1,2-Trichloroethane	ND		130	31	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Trichloroethene	ND		130	27	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Trichlorofluoromethane	ND		130	28	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,2,3-Trichloropropane	ND		130	27	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,2,4-Trimethylbenzene	ND		130	59	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,3,5-Trimethylbenzene	ND		130	31	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
Vinyl chloride	ND		650	130	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
m,p-Xylene	ND		260	46	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
o-Xylene	ND		130	30	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
1,2-Dichlorobenzene	ND		130	18	ug/Kg	☼	09/17/13 17:00	09/18/13 08:48	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	102		75 - 125				09/17/13 17:00	09/18/13 08:48	1
4-Bromofluorobenzene (Surr)	98		75 - 125				09/17/13 17:00	09/18/13 08:48	1
Dibromofluoromethane (Surr)	97		75 - 125				09/17/13 17:00	09/18/13 08:48	1
Toluene-d8 (Surr)	101		75 - 125				09/17/13 17:00	09/18/13 08:48	1

**Client Sample ID: N-DP-43(0.5-1.5)**

**Date Collected: 09/11/13 09:30**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-28**

**Matrix: Solid**

**Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		3700	740	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Benzene	ND		150	30	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Bromobenzene	ND		150	30	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Bromochloromethane	ND		150	36	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Bromodichloromethane	ND		150	22	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Bromoform	ND		740	150	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Bromomethane	ND		740	41	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
2-Butanone (MEK)	ND		1500	440	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
n-Butylbenzene	ND		740	77	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
sec-Butylbenzene	ND		150	30	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
tert-Butylbenzene	ND		150	19	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Carbon disulfide	ND		1500	58	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Carbon tetrachloride	ND		150	28	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Chlorobenzene	ND		150	28	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Chloroethane	ND		150	33	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Chloroform	ND		150	24	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Chloromethane	ND		740	22	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
2-Chlorotoluene	ND		150	19	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
4-Chlorotoluene	ND		150	27	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,2-Dibromo-3-Chloropropane	ND		740	150	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Dibromochloromethane	ND		150	25	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,2-Dibromoethane	ND		150	25	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Dibromomethane	ND		150	31	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Client Sample ID: N-DP-43(0.5-1.5)**

**Date Collected: 09/11/13 09:30**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-28**

**Matrix: Solid**

**Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		150	24	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,3-Dichlorobenzene	ND		150	25	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,4-Dichlorobenzene	ND		150	43	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Dichlorodifluoromethane	ND	*	740	37	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,1-Dichloroethane	ND		150	28	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,1-Dichloroethene	ND		150	24	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
cis-1,2-Dichloroethene	ND		150	41	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
trans-1,2-Dichloroethene	ND		150	30	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,2-Dichloropropane	ND		150	24	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,3-Dichloropropane	ND		150	25	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
2,2-Dichloropropane	ND		150	25	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,1-Dichloropropene	ND		150	22	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
cis-1,3-Dichloropropene	ND		150	25	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
trans-1,3-Dichloropropene	ND		150	22	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Ethylbenzene	ND		150	27	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
<b>Hexachlorobutadiene</b>	<b>42</b>	<b>J B</b>	590	27	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
2-Hexanone	ND		1500	330	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Isopropylbenzene	ND		300	53	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
p-Isopropyltoluene	ND		300	16	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
4-Methyl-2-pentanone (MIBK)	ND		740	150	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Methyl tert-butyl ether	ND		150	19	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
<b>Methylene Chloride</b>	<b>31</b>	<b>J</b>	740	21	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Naphthalene	ND		300	36	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
N-Propylbenzene	ND		150	31	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Styrene	ND		150	27	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,1,1,2-Tetrachloroethane	ND		150	27	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,1,2,2-Tetrachloroethane	ND		150	36	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Tetrachloroethene	ND		150	40	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Toluene	ND		150	22	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,2,3-Trichlorobenzene	ND		740	150	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,2,4-Trichlorobenzene	ND		150	37	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,1,1-Trichloroethane	ND		150	31	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,1,2-Trichloroethane	ND		150	36	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Trichloroethene	ND		150	31	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Trichlorofluoromethane	ND		150	33	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,2,3-Trichloropropane	ND		150	31	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,2,4-Trimethylbenzene	ND		150	68	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,3,5-Trimethylbenzene	ND		150	36	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
Vinyl chloride	ND		740	150	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
m,p-Xylene	ND		300	53	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
o-Xylene	ND		150	34	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
1,2-Dichlorobenzene	ND		150	21	ug/Kg	☼	09/17/13 17:00	09/18/13 08:24	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	100		75 - 125				09/17/13 17:00	09/18/13 08:24	1
4-Bromofluorobenzene (Surr)	101		75 - 125				09/17/13 17:00	09/18/13 08:24	1
Dibromofluoromethane (Surr)	97		75 - 125				09/17/13 17:00	09/18/13 08:24	1
Toluene-d8 (Surr)	100		75 - 125				09/17/13 17:00	09/18/13 08:24	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Client Sample ID: N-DP-27(7-8)**

**Date Collected: 09/10/13 18:27**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-14**

**Matrix: Solid**

**Percent Solids: 90.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		360	11	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Acenaphthylene	ND		360	18	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Acetophenone	ND		360	22	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Anthracene	ND		360	18	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Atrazine	ND		360	40	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Benzidine	ND		3600	1100	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
<b>Benzo[a]anthracene</b>	<b>81</b>	<b>J</b>	360	22	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
<b>Benzo[a]pyrene</b>	<b>46</b>	<b>J</b>	360	22	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
<b>Benzo[b]fluoranthene</b>	<b>200</b>	<b>J</b>	360	28	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
<b>Benzo[g,h,i]perylene</b>	<b>97</b>	<b>J</b>	360	17	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Benzo[k]fluoranthene	ND		360	43	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Bis(2-chloroethoxy)methane	ND		360	25	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Bis(2-chloroethyl)ether	ND		360	18	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Bis(2-ethylhexyl) phthalate	ND		360	50	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Butyl benzyl phthalate	ND		360	46	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Caprolactam	ND		1700	110	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Carbazole	ND		360	39	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
<b>Chrysene</b>	<b>130</b>	<b>J</b>	360	29	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Di-n-butyl phthalate	ND		360	31	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Di-n-octyl phthalate	ND		360	16	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
<b>Dibenz(a,h)anthracene</b>	<b>82</b>	<b>J</b>	360	21	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Dibenzofuran	ND		360	22	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Diethyl phthalate	ND		710	28	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
<b>Dimethyl phthalate</b>	<b>86</b>	<b>J B</b>	360	25	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
<b>Fluoranthene</b>	<b>140</b>	<b>J</b>	360	39	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Fluorene	ND		360	19	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Hexachlorobenzene	ND		360	31	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Hexachlorobutadiene	ND		360	11	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Hexachlorocyclopentadiene	ND *		1700	54	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Hexachloroethane	ND		360	23	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>140</b>	<b>J</b>	360	24	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Naphthalene	ND		360	34	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Nitrobenzene	ND		360	24	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
N-Nitrosodi-n-propylamine	ND		360	34	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		360	23	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Pentachlorophenol	ND		1700	360	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
Phenol	ND		360	19	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
<b>Phenanthrene</b>	<b>63</b>	<b>J</b>	360	18	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
<b>Pyrene</b>	<b>170</b>	<b>J</b>	360	13	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
2,2'-oxybis[1-chloropropane]	ND		360	25	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
2-Chloronaphthalene	ND		360	11	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
2-Chlorophenol	ND		360	23	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
2-Methylnaphthalene	ND		360	21	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
2-Methylphenol	ND		360	14	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
2-Nitroaniline	ND		1700	54	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
2-Nitrophenol	ND		360	11	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
2,4-Dichlorophenol	ND		360	11	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
2,4-Dimethylphenol	ND		360	71	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Client Sample ID: N-DP-27(7-8)**

**Date Collected: 09/10/13 18:27**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-14**

**Matrix: Solid**

**Percent Solids: 90.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		1700	360	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
2,4-Dinitrotoluene	ND		360	71	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
2,6-Dinitrotoluene	ND		360	30	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
2,4,5-Trichlorophenol	ND		360	11	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
2,4,6-Trichlorophenol	ND		360	11	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
3,3'-Dichlorobenzidine	ND		710	97	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
3 & 4 Methylphenol	ND		360	36	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
3-Nitroaniline	ND		1700	79	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
4-Bromophenyl phenyl ether	ND		360	21	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
4-Chloro-3-methylphenol	ND		360	71	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
4-Chloroaniline	ND		360	89	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
4-Chlorophenyl phenyl ether	ND		360	23	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
4-Nitroaniline	ND		1700	78	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
4-Nitrophenol	ND		1700	100	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
4,6-Dinitro-2-methylphenol	ND		1700	360	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
1,4-Dichlorobenzene	ND		360	15	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1
1,2,4-Trichlorobenzene	ND		360	30	ug/Kg	☼	09/16/13 15:40	09/17/13 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		53 - 120	09/16/13 15:40	09/17/13 13:41	1
Phenol-d5	80		52 - 120	09/16/13 15:40	09/17/13 13:41	1
Nitrobenzene-d5	69		50 - 120	09/16/13 15:40	09/17/13 13:41	1
2-Fluorobiphenyl	77		50 - 120	09/16/13 15:40	09/17/13 13:41	1
2,4,6-Tribromophenol	89		51 - 120	09/16/13 15:40	09/17/13 13:41	1
Terphenyl-d14	90		55 - 120	09/16/13 15:40	09/17/13 13:41	1

**Client Sample ID: N-DP-43(0.5-1.5)**

**Date Collected: 09/11/13 09:30**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-28**

**Matrix: Solid**

**Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		340	11	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Acenaphthylene	ND		340	18	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Acetophenone	ND		340	21	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Anthracene	ND		340	18	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Atrazine	ND		340	38	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Benzidine	ND		3400	1000	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Benzo[a]anthracene	ND		340	21	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Benzo[a]pyrene	ND		340	21	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Benzo[b]fluoranthene	ND		340	27	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Benzo[g,h,i]perylene	ND		340	17	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Benzo[k]fluoranthene	ND		340	41	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Bis(2-chloroethoxy)methane	ND		340	24	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Bis(2-chloroethyl)ether	ND		340	17	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Bis(2-ethylhexyl) phthalate	ND		340	47	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Butyl benzyl phthalate	ND		340	44	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Caprolactam	ND		1700	110	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Carbazole	ND		340	37	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Chrysene	ND		340	28	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Di-n-butyl phthalate	ND		340	30	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Di-n-octyl phthalate	ND		340	15	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Client Sample ID: N-DP-43(0.5-1.5)**

**Date Collected: 09/11/13 09:30**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-28**

**Matrix: Solid**

**Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		340	20	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Dibenzofuran	ND		340	21	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Diethyl phthalate	ND		680	27	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
<b>Dimethyl phthalate</b>	<b>35</b>	<b>J B</b>	340	24	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Fluoranthene	ND		340	37	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Fluorene	ND		340	19	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Hexachlorobenzene	ND		340	30	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Hexachlorobutadiene	ND		340	10	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Hexachlorocyclopentadiene	ND	*	1700	52	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Hexachloroethane	ND		340	22	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Indeno[1,2,3-cd]pyrene	ND		340	23	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Naphthalene	ND		340	32	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Nitrobenzene	ND		340	23	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
N-Nitrosodi-n-propylamine	ND		340	32	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		340	22	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Pentachlorophenol	ND		1700	340	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Phenol	ND		340	19	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Phenanthrene	ND		340	18	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
Pyrene	ND		340	12	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
2,2'-oxybis[1-chloropropane]	ND		340	24	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
2-Chloronaphthalene	ND		340	10	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
2-Chlorophenol	ND		340	22	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
2-Methylnaphthalene	ND		340	20	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
2-Methylphenol	ND		340	13	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
2-Nitroaniline	ND		1700	52	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
2-Nitrophenol	ND		340	10	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
2,4-Dichlorophenol	ND		340	10	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
2,4-Dimethylphenol	ND		340	68	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
2,4-Dinitrophenol	ND		1700	340	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
2,4-Dinitrotoluene	ND		340	68	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
2,6-Dinitrotoluene	ND		340	29	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
2,4,5-Trichlorophenol	ND		340	10	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
2,4,6-Trichlorophenol	ND		340	10	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
3,3'-Dichlorobenzidine	ND		680	93	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
3 & 4 Methylphenol	ND		340	34	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
3-Nitroaniline	ND		1700	75	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
4-Bromophenyl phenyl ether	ND		340	20	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
4-Chloro-3-methylphenol	ND		340	68	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
4-Chloroaniline	ND		340	85	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
4-Chlorophenyl phenyl ether	ND		340	22	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
4-Nitroaniline	ND		1700	75	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
4-Nitrophenol	ND		1700	100	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
4,6-Dinitro-2-methylphenol	ND		1700	340	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
1,4-Dichlorobenzene	ND		340	14	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1
1,2,4-Trichlorobenzene	ND		340	29	ug/Kg	☼	09/16/13 15:40	09/17/13 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		53 - 120	09/16/13 15:40	09/17/13 14:07	1
Phenol-d5	86		52 - 120	09/16/13 15:40	09/17/13 14:07	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

Client Sample ID: N-DP-43(0.5-1.5)

Date Collected: 09/11/13 09:30

Date Received: 09/12/13 09:50

Lab Sample ID: 250-14116-28

Matrix: Solid

Percent Solids: 96.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75		50 - 120	09/16/13 15:40	09/17/13 14:07	1
2-Fluorobiphenyl	77		50 - 120	09/16/13 15:40	09/17/13 14:07	1
2,4,6-Tribromophenol	85		51 - 120	09/16/13 15:40	09/17/13 14:07	1
Terphenyl-d14	90		55 - 120	09/16/13 15:40	09/17/13 14:07	1



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-16(7-8)**

**Date Collected: 09/10/13 14:04**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-5**

**Matrix: Solid**

**Percent Solids: 88.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.6		mg/Kg	☼	09/17/13 10:41	09/17/13 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	85		50 - 150				09/17/13 10:41	09/17/13 14:04	1

**Client Sample ID: N-DP-25(6-7)**

**Date Collected: 09/11/13 14:15**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-8**

**Matrix: Solid**

**Percent Solids: 85.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.8		mg/Kg	☼	09/17/13 10:41	09/17/13 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	97		50 - 150				09/17/13 10:41	09/17/13 14:32	1

**Client Sample ID: N-DP-30(8-9)**

**Date Collected: 09/10/13 15:50**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-11**

**Matrix: Solid**

**Percent Solids: 94.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.5		mg/Kg	☼	09/17/13 10:41	09/17/13 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	97		50 - 150				09/17/13 10:41	09/17/13 15:00	1

**Client Sample ID: N-DP-27(7-8)**

**Date Collected: 09/10/13 18:27**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-14**

**Matrix: Solid**

**Percent Solids: 90.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.2		mg/Kg	☼	09/17/13 10:41	09/18/13 11:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	109		50 - 150				09/17/13 10:41	09/18/13 11:07	1

**Client Sample ID: N-DP-27(12-13)**

**Date Collected: 09/10/13 18:37**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-15**

**Matrix: Solid**

**Percent Solids: 88.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	23	H	11		mg/Kg	☼	10/01/13 10:46	10/02/13 01:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	91		50 - 150				10/01/13 10:46	10/02/13 01:29	1

**Client Sample ID: N-DP-31(8-9)**

**Date Collected: 09/10/13 16:37**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-17**

**Matrix: Solid**

**Percent Solids: 90.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.5		mg/Kg	☼	09/17/13 10:41	09/17/13 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	89		50 - 150				09/17/13 10:41	09/17/13 15:28	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-32(3-4)**

**Date Collected: 09/10/13 17:04**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-19**

**Matrix: Solid**

**Percent Solids: 87.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.2		mg/Kg	☼	09/17/13 10:41	09/18/13 06:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	113		50 - 150				09/17/13 10:41	09/18/13 06:33	1

**Client Sample ID: N-DP-35(2-3)**

**Date Collected: 09/11/13 11:16**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-22**

**Matrix: Solid**

**Percent Solids: 96.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.4		mg/Kg	☼	09/17/13 10:41	09/18/13 07:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	114		50 - 150				09/17/13 10:41	09/18/13 07:03	1

**Client Sample ID: N-DP-35(7-8)**

**Date Collected: 09/11/13 11:20**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-23**

**Matrix: Solid**

**Percent Solids: 92.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.4		mg/Kg	☼	09/17/13 10:41	09/18/13 07:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	116		50 - 150				09/17/13 10:41	09/18/13 07:34	1

**Client Sample ID: N-DP-36(7-8)**

**Date Collected: 09/11/13 08:47**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-26**

**Matrix: Solid**

**Percent Solids: 86.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.9		mg/Kg	☼	09/17/13 10:41	09/18/13 10:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	111		50 - 150				09/17/13 10:41	09/18/13 10:06	1

**Client Sample ID: N-DP-43(0.5-1.5)**

**Date Collected: 09/11/13 09:30**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-28**

**Matrix: Solid**

**Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.9		mg/Kg	☼	09/17/13 10:41	09/18/13 08:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	113		50 - 150				09/17/13 10:41	09/18/13 08:35	1

**Client Sample ID: N-DP-43(8-9)**

**Date Collected: 09/11/13 09:35**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-29**

**Matrix: Solid**

**Percent Solids: 96.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.5		mg/Kg	☼	09/17/13 10:41	09/18/13 10:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	114		50 - 150				09/17/13 10:41	09/18/13 10:36	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-33(5-6)**

**Date Collected: 09/11/13 12:18**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-31**

**Matrix: Solid**

**Percent Solids: 94.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.6		mg/Kg	☼	09/17/13 10:41	09/18/13 04:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	63		50 - 150				09/17/13 10:41	09/18/13 04:01	1

**Client Sample ID: N-DP-42(1.5-2.5)**

**Date Collected: 09/11/13 10:20**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-32**

**Matrix: Solid**

**Percent Solids: 87.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.3		mg/Kg	☼	09/17/13 10:41	09/18/13 04:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	66		50 - 150				09/17/13 10:41	09/18/13 04:31	1

**Client Sample ID: N-DP-42(7.5-8.5)**

**Date Collected: 09/11/13 10:25**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-33**

**Matrix: Solid**

**Percent Solids: 84.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.2		mg/Kg	☼	09/17/13 11:26	09/18/13 05:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	69		50 - 150				09/17/13 11:26	09/18/13 05:02	1

**Client Sample ID: N-DP-44(9-10)**

**Date Collected: 09/11/13 11:30**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-36**

**Matrix: Solid**

**Percent Solids: 95.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.0		mg/Kg	☼	09/17/13 11:26	09/18/13 05:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	114		50 - 150				09/17/13 11:26	09/18/13 05:32	1

**Client Sample ID: N-DP-45(8.5-9.5)**

**Date Collected: 09/11/13 12:36**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-38**

**Matrix: Solid**

**Percent Solids: 92.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.1		mg/Kg	☼	09/17/13 11:26	09/18/13 06:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	113		50 - 150				09/17/13 11:26	09/18/13 06:03	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) - DL4

**Client Sample ID: N-DP-7(0-1)**  
**Date Collected: 09/10/13 14:55**  
**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-1**  
**Matrix: Solid**  
**Percent Solids: 96.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.1		mg/Kg	☼	09/17/13 10:41	09/17/13 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a</i> -Trifluorotoluene ( <i>fid</i> )	103		50 - 150				09/17/13 10:41	09/17/13 12:46	1

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

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-7(0-1)**

**Date Collected: 09/10/13 14:55**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-1**

**Matrix: Solid**

**Percent Solids: 96.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/17/13 05:35	09/17/13 11:07	1
RRO (nC25-nC36)	ND		26		mg/Kg	☼	09/17/13 05:35	09/17/13 11:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	104		50 - 150				09/17/13 05:35	09/17/13 11:07	1

**Client Sample ID: N-DP-16(7-8)**

**Date Collected: 09/10/13 14:04**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-5**

**Matrix: Solid**

**Percent Solids: 88.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/17/13 05:35	09/17/13 11:26	1
RRO (nC25-nC36)	ND		28		mg/Kg	☼	09/17/13 05:35	09/17/13 11:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	96		50 - 150				09/17/13 05:35	09/17/13 11:26	1

**Client Sample ID: N-DP-25(6-7)**

**Date Collected: 09/11/13 14:15**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-8**

**Matrix: Solid**

**Percent Solids: 85.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/17/13 05:35	09/17/13 11:44	1
RRO (nC25-nC36)	ND		29		mg/Kg	☼	09/17/13 05:35	09/17/13 11:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	97		50 - 150				09/17/13 05:35	09/17/13 11:44	1

**Client Sample ID: N-DP-30(8-9)**

**Date Collected: 09/10/13 15:50**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-11**

**Matrix: Solid**

**Percent Solids: 94.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/17/13 05:35	09/17/13 12:03	1
RRO (nC25-nC36)	ND		26		mg/Kg	☼	09/17/13 05:35	09/17/13 12:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	100		50 - 150				09/17/13 05:35	09/17/13 12:03	1

**Client Sample ID: N-DP-27(7-8)**

**Date Collected: 09/10/13 18:27**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-14**

**Matrix: Solid**

**Percent Solids: 90.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	19		14		mg/Kg	☼	09/17/13 05:35	09/17/13 12:20	1
RRO (nC25-nC36)	37		27		mg/Kg	☼	09/17/13 05:35	09/17/13 12:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	105		50 - 150				09/17/13 05:35	09/17/13 12:20	1

**Client Sample ID: N-DP-27(12-13)**

**Date Collected: 09/10/13 18:37**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-15**

**Matrix: Solid**

**Percent Solids: 88.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND	H	14		mg/Kg	☼	10/03/13 12:49	10/04/13 13:00	1
RRO (nC25-nC36)	ND	H	28		mg/Kg	☼	10/03/13 12:49	10/04/13 13:00	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	107		50 - 150				10/03/13 12:49	10/04/13 13:00	1	
<b>Client Sample ID: N-DP-31(8-9)</b>							<b>Lab Sample ID: 250-14116-17</b>			
<b>Date Collected: 09/10/13 16:37</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/12/13 09:50</b>							<b>Percent Solids: 90.1</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		14		mg/Kg	☼	09/17/13 05:35	09/17/13 12:39	1	
RRO (nC25-nC36)	ND		28		mg/Kg	☼	09/17/13 05:35	09/17/13 12:39	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	103		50 - 150				09/17/13 05:35	09/17/13 12:39	1	
<b>Client Sample ID: N-DP-32(3-4)</b>							<b>Lab Sample ID: 250-14116-19</b>			
<b>Date Collected: 09/10/13 17:04</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/12/13 09:50</b>							<b>Percent Solids: 87.1</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		14		mg/Kg	☼	09/17/13 05:35	09/17/13 12:58	1	
RRO (nC25-nC36)	35		29		mg/Kg	☼	09/17/13 05:35	09/17/13 12:58	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	100		50 - 150				09/17/13 05:35	09/17/13 12:58	1	
<b>Client Sample ID: N-DP-35(2-3)</b>							<b>Lab Sample ID: 250-14116-22</b>			
<b>Date Collected: 09/11/13 11:16</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/12/13 09:50</b>							<b>Percent Solids: 96.5</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		13		mg/Kg	☼	09/17/13 05:35	09/17/13 13:17	1	
RRO (nC25-nC36)	ND		26		mg/Kg	☼	09/17/13 05:35	09/17/13 13:17	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	104		50 - 150				09/17/13 05:35	09/17/13 13:17	1	
<b>Client Sample ID: N-DP-35(7-8)</b>							<b>Lab Sample ID: 250-14116-23</b>			
<b>Date Collected: 09/11/13 11:20</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/12/13 09:50</b>							<b>Percent Solids: 92.3</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		13		mg/Kg	☼	09/17/13 05:35	09/17/13 14:14	1	
RRO (nC25-nC36)	ND		27		mg/Kg	☼	09/17/13 05:35	09/17/13 14:14	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	97		50 - 150				09/17/13 05:35	09/17/13 14:14	1	
<b>Client Sample ID: N-DP-36(7-8)</b>							<b>Lab Sample ID: 250-14116-26</b>			
<b>Date Collected: 09/11/13 08:47</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/12/13 09:50</b>							<b>Percent Solids: 86.1</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		14		mg/Kg	☼	09/17/13 05:35	09/17/13 14:33	1	
RRO (nC25-nC36)	ND		29		mg/Kg	☼	09/17/13 05:35	09/17/13 14:33	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	101		50 - 150				09/17/13 05:35	09/17/13 14:33	1	

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-43(0.5-1.5)**

**Date Collected: 09/11/13 09:30**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-28**

**Matrix: Solid**

**Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/17/13 05:35	09/17/13 14:52	1
RRO (nC25-nC36)	ND		26		mg/Kg	☼	09/17/13 05:35	09/17/13 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	102		50 - 150				09/17/13 05:35	09/17/13 14:52	1

**Client Sample ID: N-DP-43(8-9)**

**Date Collected: 09/11/13 09:35**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-29**

**Matrix: Solid**

**Percent Solids: 96.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/17/13 05:35	09/17/13 15:11	1
RRO (nC25-nC36)	ND		26		mg/Kg	☼	09/17/13 05:35	09/17/13 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	98		50 - 150				09/17/13 05:35	09/17/13 15:11	1

**Client Sample ID: N-DP-33(5-6)**

**Date Collected: 09/11/13 12:18**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-31**

**Matrix: Solid**

**Percent Solids: 94.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/17/13 05:35	09/17/13 15:31	1
RRO (nC25-nC36)	ND		26		mg/Kg	☼	09/17/13 05:35	09/17/13 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	105		50 - 150				09/17/13 05:35	09/17/13 15:31	1

**Client Sample ID: N-DP-42(1.5-2.5)**

**Date Collected: 09/11/13 10:20**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-32**

**Matrix: Solid**

**Percent Solids: 87.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/17/13 05:35	09/17/13 15:49	1
RRO (nC25-nC36)	ND		28		mg/Kg	☼	09/17/13 05:35	09/17/13 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	96		50 - 150				09/17/13 05:35	09/17/13 15:49	1

**Client Sample ID: N-DP-42(7.5-8.5)**

**Date Collected: 09/11/13 10:25**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-33**

**Matrix: Solid**

**Percent Solids: 84.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		15		mg/Kg	☼	09/17/13 05:35	09/17/13 16:06	1
RRO (nC25-nC36)	ND		29		mg/Kg	☼	09/17/13 05:35	09/17/13 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	104		50 - 150				09/17/13 05:35	09/17/13 16:06	1

**Client Sample ID: N-DP-44(9-10)**

**Date Collected: 09/11/13 11:30**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-36**

**Matrix: Solid**

**Percent Solids: 95.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/17/13 05:35	09/17/13 14:14	1
RRO (nC25-nC36)	ND		26		mg/Kg	☼	09/17/13 05:35	09/17/13 14:14	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Chlorooctadecane	90		50 - 150	09/17/13 05:35	09/17/13 14:14	1

**Client Sample ID: N-DP-45(8.5-9.5)**

**Date Collected: 09/11/13 12:36**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-38**

**Matrix: Solid**

**Percent Solids: 92.1**

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
DRO (C10-C25)	ND		14		mg/Kg	☼	09/17/13 05:35	09/17/13 14:33	1
RRO (nC25-nC36)	ND		27		mg/Kg	☼	09/17/13 05:35	09/17/13 14:33	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1-Chlorooctadecane	90		50 - 150	09/17/13 05:35	09/17/13 14:33	1



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Client Sample ID: N-DP-27(7-8)**

**Date Collected: 09/10/13 18:27**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-14**

**Matrix: Solid**

**Percent Solids: 90.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		0.54		mg/Kg	☼	09/13/13 21:13	09/16/13 23:06	10
Barium	130		0.54		mg/Kg	☼	09/13/13 21:13	09/16/13 23:06	10
Cadmium	ND		0.54		mg/Kg	☼	09/13/13 21:13	09/16/13 23:06	10
Chromium	29		1.1		mg/Kg	☼	09/13/13 21:13	09/16/13 23:06	10
Lead	170		0.54		mg/Kg	☼	09/13/13 21:13	09/16/13 23:06	10
Selenium	ND		0.54		mg/Kg	☼	09/13/13 21:13	09/16/13 23:06	10
Silver	ND		0.54		mg/Kg	☼	09/13/13 21:13	09/16/13 23:06	10

**Client Sample ID: N-DP-27(12-13)**

**Date Collected: 09/10/13 18:37**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-15**

**Matrix: Solid**

**Percent Solids: 88.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5		0.56		mg/Kg	☼	09/30/13 12:32	09/30/13 17:03	10
Barium	41		0.56		mg/Kg	☼	09/30/13 12:32	09/30/13 17:03	10
Cadmium	ND		0.56		mg/Kg	☼	09/30/13 12:32	09/30/13 17:03	10
Chromium	69		1.1		mg/Kg	☼	09/30/13 12:32	09/30/13 17:03	10
Lead	1.2		0.56		mg/Kg	☼	09/30/13 12:32	09/30/13 17:03	10
Selenium	ND		0.56		mg/Kg	☼	09/30/13 12:32	09/30/13 17:03	10
Silver	ND		0.56		mg/Kg	☼	09/30/13 12:32	09/30/13 17:03	10

**Client Sample ID: N-DP-43(0.5-1.5)**

**Date Collected: 09/11/13 09:30**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-28**

**Matrix: Solid**

**Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.75		0.50		mg/Kg	☼	09/13/13 21:13	09/16/13 23:10	10
Barium	79		0.50		mg/Kg	☼	09/13/13 21:13	09/16/13 23:10	10
Cadmium	ND		0.50		mg/Kg	☼	09/13/13 21:13	09/16/13 23:10	10
Chromium	10		1.0		mg/Kg	☼	09/13/13 21:13	09/16/13 23:10	10
Lead	1.6		0.50		mg/Kg	☼	09/13/13 21:13	09/16/13 23:10	10
Selenium	ND		0.50		mg/Kg	☼	09/13/13 21:13	09/16/13 23:10	10
Silver	ND		0.50		mg/Kg	☼	09/13/13 21:13	09/16/13 23:10	10

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Method: 7471A - Mercury (CVAA)

**Client Sample ID: N-DP-27(7-8)**

**Date Collected: 09/10/13 18:27**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-14**

**Matrix: Solid**

**Percent Solids: 90.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.1		0.37		mg/Kg	☼	09/17/13 16:17	09/18/13 13:31	4

**Client Sample ID: N-DP-27(12-13)**

**Date Collected: 09/10/13 18:37**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-15**

**Matrix: Solid**

**Percent Solids: 88.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.10		mg/Kg	☼	10/02/13 14:45	10/02/13 21:20	1

**Client Sample ID: N-DP-43(0.5-1.5)**

**Date Collected: 09/11/13 09:30**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-28**

**Matrix: Solid**

**Percent Solids: 96.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.083		mg/Kg	☼	09/17/13 16:17	09/18/13 13:34	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## General Chemistry

**Client Sample ID: N-DP-7(0-1)**  
**Date Collected: 09/10/13 14:55**  
**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.3		0.010		%			09/16/13 21:29	1
Percent Solids	97		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-16(7-8)**  
**Date Collected: 09/10/13 14:04**  
**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		0.010		%			09/16/13 21:29	1
Percent Solids	88		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-25(6-7)**  
**Date Collected: 09/11/13 14:15**  
**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.010		%			09/16/13 21:29	1
Percent Solids	86		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-30(8-9)**  
**Date Collected: 09/10/13 15:50**  
**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-11**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.5		0.010		%			09/16/13 21:29	1
Percent Solids	94		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-27(7-8)**  
**Date Collected: 09/10/13 18:27**  
**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-14**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.010		%			09/16/13 21:29	1
Percent Solids	91		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-27(12-13)**  
**Date Collected: 09/10/13 18:37**  
**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-15**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12	H	0.010		%			10/01/13 21:27	1
Percent Solids	88	H	0.010		%			10/01/13 21:27	1

**Client Sample ID: N-DP-31(8-9)**  
**Date Collected: 09/10/13 16:37**  
**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-17**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.9		0.010		%			09/16/13 21:29	1
Percent Solids	90		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-32(3-4)**  
**Date Collected: 09/10/13 17:04**  
**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-19**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.010		%			09/16/13 21:29	1
Percent Solids	87		0.010		%			09/16/13 21:29	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## General Chemistry

**Client Sample ID: N-DP-35(2-3)**

**Date Collected: 09/11/13 11:16**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-22**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.5		0.010		%			09/16/13 21:29	1
Percent Solids	96		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-35(7-8)**

**Date Collected: 09/11/13 11:20**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-23**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.7		0.010		%			09/16/13 21:29	1
Percent Solids	92		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-36(7-8)**

**Date Collected: 09/11/13 08:47**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-26**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.010		%			09/16/13 21:29	1
Percent Solids	86		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-43(0.5-1.5)**

**Date Collected: 09/11/13 09:30**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-28**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.7		0.010		%			09/16/13 21:29	1
Percent Solids	96		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-43(8-9)**

**Date Collected: 09/11/13 09:35**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-29**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.6		0.010		%			09/16/13 21:29	1
Percent Solids	96		0.010		%			09/16/13 21:29	1

**Client Sample ID: N-DP-33(5-6)**

**Date Collected: 09/11/13 12:18**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-31**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.2		0.010		%			09/16/13 21:32	1
Percent Solids	95		0.010		%			09/16/13 21:32	1

**Client Sample ID: N-DP-42(1.5-2.5)**

**Date Collected: 09/11/13 10:20**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-32**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		0.010		%			09/16/13 21:32	1
Percent Solids	88		0.010		%			09/16/13 21:32	1

**Client Sample ID: N-DP-42(7.5-8.5)**

**Date Collected: 09/11/13 10:25**

**Date Received: 09/12/13 09:50**

**Lab Sample ID: 250-14116-33**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		0.010		%			09/16/13 21:32	1
Percent Solids	85		0.010		%			09/16/13 21:32	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## General Chemistry

Client Sample ID: N-DP-44(9-10)

Date Collected: 09/11/13 11:30

Date Received: 09/12/13 09:50

Lab Sample ID: 250-14116-36

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.2		0.010		%			09/16/13 21:32	1
Percent Solids	96		0.010		%			09/16/13 21:32	1

Client Sample ID: N-DP-45(8.5-9.5)

Date Collected: 09/11/13 12:36

Date Received: 09/12/13 09:50

Lab Sample ID: 250-14116-38

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.9		0.010		%			09/16/13 21:32	1
Percent Solids	92		0.010		%			09/16/13 21:32	1

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Lab Sample ID: MB 250-20216/1-A**

**Matrix: Solid**

**Analysis Batch: 20244**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20216**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2400	490	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Benzene	ND		98	20	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromobenzene	ND		98	20	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromochloromethane	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromodichloromethane	ND		98	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromoform	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromomethane	ND		490	27	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
2-Butanone (MEK)	ND		980	290	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
n-Butylbenzene	ND		490	51	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
sec-Butylbenzene	ND		98	20	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
tert-Butylbenzene	ND		98	13	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Carbon disulfide	ND		980	38	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Carbon tetrachloride	ND		98	19	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Chlorobenzene	ND		98	19	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Chloroethane	ND		98	22	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Chloroform	ND		98	16	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Chloromethane	ND		490	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
2-Chlorotoluene	ND		98	13	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
4-Chlorotoluene	ND		98	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dibromo-3-Chloropropane	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Dibromochloromethane	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dibromoethane	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Dibromomethane	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dichloroethane	ND		98	16	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,3-Dichlorobenzene	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,4-Dichlorobenzene	ND		98	28	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Dichlorodifluoromethane	ND		490	24	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1-Dichloroethane	ND		98	19	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1-Dichloroethene	ND		98	16	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
cis-1,2-Dichloroethene	ND		98	27	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
trans-1,2-Dichloroethene	ND		98	20	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dichloropropane	ND		98	16	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,3-Dichloropropane	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
2,2-Dichloropropane	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1-Dichloropropene	ND		98	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
cis-1,3-Dichloropropene	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
trans-1,3-Dichloropropene	ND		98	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Ethylbenzene	ND		98	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Hexachlorobutadiene	105	J	390	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
2-Hexanone	ND		980	220	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Isopropylbenzene	ND		200	35	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
p-Isopropyltoluene	ND		200	11	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
4-Methyl-2-pentanone (MIBK)	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Methyl tert-butyl ether	ND		98	13	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Methylene Chloride	ND		490	14	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Naphthalene	24.3	J	200	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
N-Propylbenzene	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Styrene	ND		98	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Lab Sample ID: MB 250-20216/1-A**

**Matrix: Solid**

**Analysis Batch: 20244**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20216**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		98	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1,2,2-Tetrachloroethane	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Tetrachloroethene	ND		98	26	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Toluene	ND		98	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2,3-Trichlorobenzene	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2,4-Trichlorobenzene	25.6	J	98	24	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1,1-Trichloroethane	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1,2-Trichloroethane	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Trichloroethene	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Trichlorofluoromethane	ND		98	22	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2,3-Trichloropropane	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2,4-Trimethylbenzene	ND		98	45	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,3,5-Trimethylbenzene	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Vinyl chloride	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
m,p-Xylene	ND		200	35	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
o-Xylene	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dichlorobenzene	ND		98	14	ug/Kg		09/17/13 17:00	09/18/13 07:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		75 - 125	09/17/13 17:00	09/18/13 07:35	1
4-Bromofluorobenzene (Surr)	98		75 - 125	09/17/13 17:00	09/18/13 07:35	1
Dibromofluoromethane (Surr)	96		75 - 125	09/17/13 17:00	09/18/13 07:35	1
Toluene-d8 (Surr)	99		75 - 125	09/17/13 17:00	09/18/13 07:35	1

**Lab Sample ID: LCS 250-20216/2-A**

**Matrix: Solid**

**Analysis Batch: 20244**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20216**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	1930	1800		ug/Kg		93	80 - 120
Bromobenzene	1930	1780		ug/Kg		92	80 - 120
Bromochloromethane	1930	1900		ug/Kg		98	80 - 120
Bromodichloromethane	1930	1910		ug/Kg		99	80 - 140
Bromoform	1930	1770		ug/Kg		92	75 - 150
Bromomethane	1930	2190		ug/Kg		113	65 - 130
2-Butanone (MEK)	9660	10400		ug/Kg		107	70 - 125
n-Butylbenzene	1930	1920		ug/Kg		99	80 - 150
sec-Butylbenzene	1930	2010		ug/Kg		104	80 - 135
tert-Butylbenzene	1930	1860		ug/Kg		96	80 - 130
Carbon disulfide	3860	3910		ug/Kg		101	65 - 140
Carbon tetrachloride	1930	1920		ug/Kg		99	70 - 130
Chlorobenzene	1930	1840		ug/Kg		95	80 - 125
Chloroethane	1930	2040		ug/Kg		106	75 - 125
Chloroform	1930	1830		ug/Kg		95	80 - 120
Chloromethane	1930	2280		ug/Kg		118	40 - 150
2-Chlorotoluene	1930	1830		ug/Kg		95	80 - 120
4-Chlorotoluene	1930	1880		ug/Kg		97	80 - 125

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Lab Sample ID: LCS 250-20216/2-A**

**Matrix: Solid**

**Analysis Batch: 20244**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20216**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	1930	1940		ug/Kg		100	60 - 130
Dibromochloromethane	1930	2010		ug/Kg		104	75 - 125
1,2-Dibromoethane	1930	1950		ug/Kg		101	80 - 125
Dibromomethane	1930	1890		ug/Kg		98	80 - 120
1,2-Dichloroethane	1930	1890		ug/Kg		98	80 - 120
1,3-Dichlorobenzene	1930	1810		ug/Kg		94	80 - 125
1,4-Dichlorobenzene	1930	1730		ug/Kg		89	75 - 120
Dichlorodifluoromethane	1930	2370	*	ug/Kg		123	75 - 120
1,1-Dichloroethane	1930	1810		ug/Kg		94	80 - 120
1,1-Dichloroethene	1930	1790		ug/Kg		93	75 - 125
cis-1,2-Dichloroethene	1930	1850		ug/Kg		96	75 - 125
trans-1,2-Dichloroethene	1930	1780		ug/Kg		92	75 - 125
1,2-Dichloropropane	1930	1850		ug/Kg		96	80 - 125
1,3-Dichloropropane	1930	1910		ug/Kg		99	75 - 130
2,2-Dichloropropane	1930	2040		ug/Kg		106	70 - 130
1,1-Dichloropropene	1930	1830		ug/Kg		94	80 - 125
cis-1,3-Dichloropropene	1930	1790		ug/Kg		93	80 - 125
trans-1,3-Dichloropropene	1930	1910		ug/Kg		99	65 - 145
Ethylbenzene	1930	1890		ug/Kg		98	80 - 125
Hexachlorobutadiene	1930	2150		ug/Kg		111	80 - 150
2-Hexanone	9660	10800		ug/Kg		112	55 - 120
Isopropylbenzene	1930	1850		ug/Kg		96	80 - 130
p-Isopropyltoluene	1930	1910		ug/Kg		99	80 - 120
4-Methyl-2-pentanone (MIBK)	9660	10900		ug/Kg		113	50 - 120
Methyl tert-butyl ether	1930	2070		ug/Kg		107	75 - 125
Methylene Chloride	1930	1890		ug/Kg		98	75 - 125
Naphthalene	1930	2030		ug/Kg		105	80 - 130
N-Propylbenzene	1930	1970		ug/Kg		102	80 - 120
Styrene	1930	1750		ug/Kg		91	80 - 125
1,1,1,2-Tetrachloroethane	1930	2040		ug/Kg		106	80 - 130
1,1,2,2-Tetrachloroethane	1930	1950		ug/Kg		101	70 - 135
Tetrachloroethene	1930	1740		ug/Kg		90	80 - 125
Toluene	1930	1790		ug/Kg		92	80 - 120
1,2,3-Trichlorobenzene	1930	1970		ug/Kg		102	80 - 145
1,2,4-Trichlorobenzene	1930	2020		ug/Kg		105	85 - 150
1,1,1-Trichloroethane	1930	1880		ug/Kg		97	80 - 125
1,1,2-Trichloroethane	1930	1890		ug/Kg		98	80 - 125
Trichloroethene	1930	1740		ug/Kg		90	80 - 125
Trichlorofluoromethane	1930	2210		ug/Kg		114	55 - 150
1,2,3-Trichloropropane	1930	1870		ug/Kg		97	65 - 125
1,2,4-Trimethylbenzene	1930	1960		ug/Kg		101	80 - 135
1,3,5-Trimethylbenzene	1930	1980		ug/Kg		102	80 - 135
Vinyl chloride	1930	1780		ug/Kg		92	10 - 140
m,p-Xylene	3860	3820		ug/Kg		99	80 - 120
o-Xylene	1930	1880		ug/Kg		98	80 - 125
1,2-Dichlorobenzene	1930	1800		ug/Kg		93	80 - 120

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Lab Sample ID: LCS 250-20216/2-A**

**Matrix: Solid**

**Analysis Batch: 20244**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20216**

<i>Surrogate</i>	<i>LCS %Recovery</i>	<i>LCS Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	101		75 - 125
4-Bromofluorobenzene (Surr)	105		75 - 125
Dibromofluoromethane (Surr)	102		75 - 125
Toluene-d8 (Surr)	103		75 - 125

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

**Lab Sample ID: MB 280-191624/1-A**

**Matrix: Solid**

**Analysis Batch: 191806**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 191624**

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Acenaphthene	ND		310	9.7	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Acenaphthylene	ND		310	16	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Acetophenone	ND		310	19	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Anthracene	ND		310	16	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Atrazine	ND		310	35	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Benzidine	ND		3100	940	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Benzo[a]anthracene	ND		310	19	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Benzo[a]pyrene	ND		310	19	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Benzo[b]fluoranthene	ND		310	25	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Benzo[g,h,i]perylene	ND		310	15	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Benzo[k]fluoranthene	ND		310	38	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Bis(2-chloroethoxy)methane	ND		310	22	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Bis(2-chloroethyl)ether	ND		310	16	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Bis(2-ethylhexyl) phthalate	ND		310	44	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Butyl benzyl phthalate	ND		310	41	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Caprolactam	ND		1500	100	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Carbazole	ND		310	34	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Chrysene	ND		310	26	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Di-n-butyl phthalate	ND		310	27	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Di-n-octyl phthalate	ND		310	14	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Dibenz(a,h)anthracene	ND		310	18	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Dibenzofuran	ND		310	19	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Diethyl phthalate	ND		620	25	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Dimethyl phthalate	31.2	J	310	22	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Fluoranthene	ND		310	34	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Fluorene	ND		310	17	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Hexachlorobenzene	ND		310	27	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Hexachlorobutadiene	ND		310	9.5	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Hexachlorocyclopentadiene	ND		1500	47	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Hexachloroethane	ND		310	20	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Indeno[1,2,3-cd]pyrene	ND		310	21	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Naphthalene	ND		310	29	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Nitrobenzene	ND		310	21	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
N-Nitrosodi-n-propylamine	ND		310	29	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		310	20	ug/Kg		09/16/13 15:40	09/17/13 12:49	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Lab Sample ID: MB 280-191624/1-A**

**Matrix: Solid**

**Analysis Batch: 191806**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 191624**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pentachlorophenol	ND		1500	310	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Phenol	ND		310	17	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Phenanthrene	ND		310	16	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Pyrene	ND		310	11	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,2'-oxybis[1-chloropropane]	ND		310	22	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2-Chloronaphthalene	ND		310	9.5	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2-Chlorophenol	ND		310	20	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2-Methylnaphthalene	ND		310	18	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2-Methylphenol	ND		310	12	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2-Nitroaniline	ND		1500	47	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2-Nitrophenol	ND		310	9.5	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,4-Dichlorophenol	ND		310	9.5	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,4-Dimethylphenol	ND		310	62	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,4-Dinitrophenol	ND		1500	320	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,4-Dinitrotoluene	ND		310	62	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,6-Dinitrotoluene	ND		310	26	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,4,5-Trichlorophenol	ND		310	9.5	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,4,6-Trichlorophenol	ND		310	9.5	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
3,3'-Dichlorobenzidine	ND		620	85	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
3 & 4 Methylphenol	ND		310	31	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
3-Nitroaniline	ND		1500	69	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
4-Bromophenyl phenyl ether	ND		310	18	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
4-Chloro-3-methylphenol	ND		310	62	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
4-Chloroaniline	ND		310	78	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
4-Chlorophenyl phenyl ether	ND		310	20	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
4-Nitroaniline	ND		1500	69	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
4-Nitrophenol	ND		1500	92	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
4,6-Dinitro-2-methylphenol	ND		1500	310	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
1,4-Dichlorobenzene	ND		310	13	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
1,2,4-Trichlorobenzene	ND		310	26	ug/Kg		09/16/13 15:40	09/17/13 12:49	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	78		53 - 120	09/16/13 15:40	09/17/13 12:49	1
Phenol-d5	80		52 - 120	09/16/13 15:40	09/17/13 12:49	1
Nitrobenzene-d5	72		50 - 120	09/16/13 15:40	09/17/13 12:49	1
2-Fluorobiphenyl	78		50 - 120	09/16/13 15:40	09/17/13 12:49	1
2,4,6-Tribromophenol	84		51 - 120	09/16/13 15:40	09/17/13 12:49	1
Terphenyl-d14	86		55 - 120	09/16/13 15:40	09/17/13 12:49	1

**Lab Sample ID: LCS 280-191624/2-A**

**Matrix: Solid**

**Analysis Batch: 191806**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 191624**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acenaphthene	2570	1980		ug/Kg		77	60 - 120
Acenaphthylene	2570	1910		ug/Kg		74	64 - 120
Anthracene	2570	2080		ug/Kg		81	63 - 120
Benzo[a]anthracene	2570	2130		ug/Kg		83	65 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Lab Sample ID: LCS 280-191624/2-A**

**Matrix: Solid**

**Analysis Batch: 191806**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 191624**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	2570	2190		ug/Kg		85	59 - 120
Benzo[b]fluoranthene	2570	2360		ug/Kg		92	47 - 129
Benzo[g,h,i]perylene	2570	2290		ug/Kg		89	55 - 126
Benzo[k]fluoranthene	2570	2220		ug/Kg		86	48 - 130
Bis(2-chloroethoxy)methane	2570	1810		ug/Kg		70	56 - 120
Bis(2-chloroethyl)ether	2570	1850		ug/Kg		72	51 - 120
Bis(2-ethylhexyl) phthalate	2570	2070		ug/Kg		81	65 - 120
Butyl benzyl phthalate	2570	2140		ug/Kg		83	65 - 120
Carbazole	2570	2070		ug/Kg		81	64 - 120
Chrysene	2570	2060		ug/Kg		80	64 - 120
Di-n-butyl phthalate	2570	2170		ug/Kg		84	67 - 120
Di-n-octyl phthalate	2570	2130		ug/Kg		83	66 - 120
Dibenz(a,h)anthracene	2570	2290		ug/Kg		89	50 - 133
Dibenzofuran	2570	2010		ug/Kg		78	61 - 120
Diethyl phthalate	2570	2120		ug/Kg		82	66 - 120
Dimethyl phthalate	2570	2180		ug/Kg		85	65 - 120
Fluoranthene	2570	2190		ug/Kg		85	66 - 120
Fluorene	2570	2070		ug/Kg		80	64 - 120
Hexachlorobenzene	2570	2130		ug/Kg		83	62 - 120
Hexachlorobutadiene	2570	1950		ug/Kg		76	53 - 120
Hexachlorocyclopentadiene	2570	1140	J *	ug/Kg		44	47 - 120
Hexachloroethane	2570	1720		ug/Kg		67	51 - 120
Indeno[1,2,3-cd]pyrene	2570	2270		ug/Kg		88	63 - 120
Naphthalene	2570	1860		ug/Kg		72	57 - 120
Nitrobenzene	2570	1790		ug/Kg		69	54 - 120
N-Nitrosodi-n-propylamine	2570	1910		ug/Kg		74	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	2570	2060		ug/Kg		80	61 - 120
Pentachlorophenol	5140	3820		ug/Kg		74	56 - 120
Phenol	2570	1950		ug/Kg		76	56 - 120
Phenanthrene	2570	2090		ug/Kg		81	64 - 120
Pyrene	2570	2060		ug/Kg		80	64 - 120
2,2'-oxybis[1-chloropropane]	2570	1720		ug/Kg		67	49 - 120
2-Chloronaphthalene	2570	1930		ug/Kg		75	59 - 120
2-Chlorophenol	2570	1990		ug/Kg		77	57 - 120
2-Methylnaphthalene	2570	1960		ug/Kg		76	57 - 120
2-Methylphenol	2570	1910		ug/Kg		74	56 - 120
2-Nitroaniline	2570	1880		ug/Kg		73	63 - 120
2-Nitrophenol	2570	2100		ug/Kg		82	56 - 120
2,4-Dichlorophenol	2570	2050		ug/Kg		80	60 - 120
2,4-Dimethylphenol	2570	1940		ug/Kg		75	54 - 120
2,4-Dinitrophenol	5140	4090		ug/Kg		79	46 - 120
2,4-Dinitrotoluene	2570	2260		ug/Kg		88	68 - 120
2,6-Dinitrotoluene	2570	2120		ug/Kg		82	64 - 120
2,4,5-Trichlorophenol	2570	2150		ug/Kg		83	64 - 120
2,4,6-Trichlorophenol	2570	2180		ug/Kg		85	61 - 120
3,3'-Dichlorobenzidine	2570	1510		ug/Kg		59	30 - 120
3 & 4 Methylphenol	2570	1970		ug/Kg		76	53 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Lab Sample ID: LCS 280-191624/2-A**

**Matrix: Solid**

**Analysis Batch: 191806**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 191624**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	2570	1770		ug/Kg		69	47 - 120
4-Bromophenyl phenyl ether	2570	2140		ug/Kg		83	64 - 120
4-Chloro-3-methylphenol	2570	2130		ug/Kg		83	63 - 120
4-Chloroaniline	2570	1450		ug/Kg		56	28 - 120
4-Chlorophenyl phenyl ether	2570	2070		ug/Kg		80	64 - 120
4-Nitroaniline	2570	2020		ug/Kg		78	64 - 120
4-Nitrophenol	5140	4120		ug/Kg		80	63 - 121
4,6-Dinitro-2-methylphenol	5140	4520		ug/Kg		88	57 - 120
1,4-Dichlorobenzene	2570	1870		ug/Kg		73	52 - 120
1,2,4-Trichlorobenzene	2570	1940		ug/Kg		75	52 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	76		53 - 120
Phenol-d5	77		52 - 120
Nitrobenzene-d5	70		50 - 120
2-Fluorobiphenyl	75		50 - 120
2,4,6-Tribromophenol	88		51 - 120
Terphenyl-d14	85		55 - 120

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-20183/1-A**

**Matrix: Solid**

**Analysis Batch: 20224**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20183**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.0		mg/Kg		09/17/13 10:41	09/17/13 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	104		50 - 150	09/17/13 10:41	09/17/13 11:31	1

**Lab Sample ID: LCS 250-20183/2-A**

**Matrix: Solid**

**Analysis Batch: 20224**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20183**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	24.8	25.9		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	106		50 - 150

**Lab Sample ID: 250-14116-23 MS**

**Matrix: Solid**

**Analysis Batch: 20241**

**Client Sample ID: N-DP-35(7-8)**

**Prep Type: Total/NA**

**Prep Batch: 20183**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	ND		27.7	32.6		mg/Kg	☼	117	65 - 130

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 250-14116-23 MS**  
**Matrix: Solid**  
**Analysis Batch: 20241**

**Client Sample ID: N-DP-35(7-8)**  
**Prep Type: Total/NA**  
**Prep Batch: 20183**

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	114		50 - 150

**Lab Sample ID: 250-14116-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 20224**

**Client Sample ID: N-DP-7(0-1)**  
**Prep Type: Total/NA**  
**Prep Batch: 20183**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Gasoline Range Hydrocarbons	ND		ND		mg/Kg	☼	NC	40

	DU	DU	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	101		50 - 150

**Lab Sample ID: 250-14116-28 DU**  
**Matrix: Solid**  
**Analysis Batch: 20241**

**Client Sample ID: N-DP-43(0.5-1.5)**  
**Prep Type: Total/NA**  
**Prep Batch: 20183**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Gasoline Range Hydrocarbons	ND		ND		mg/Kg	☼	NC	40

	DU	DU	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	114		50 - 150

**Lab Sample ID: MB 250-20667/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20715**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20667**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Hydrocarbons	ND		3.9		mg/Kg		10/01/13 10:46	10/01/13 17:57	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
a,a,a-Trifluorotoluene (fid)	100		50 - 150	10/01/13 10:46	10/01/13 17:57	1

**Lab Sample ID: LCS 250-20667/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20715**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20667**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	104		50 - 150

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-20173/1-B**

**Matrix: Solid**

**Analysis Batch: 20155**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20173**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		12		mg/Kg		09/17/13 05:35	09/17/13 11:07	1
RRO (nC25-nC36)	ND		25		mg/Kg		09/17/13 05:35	09/17/13 11:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	93		50 - 150				09/17/13 05:35	09/17/13 11:07	1

**Lab Sample ID: LCS 250-20173/2-B**

**Matrix: Solid**

**Analysis Batch: 20155**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20173**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
DRO (C10-C25)	124	128		mg/Kg		103	50 - 150
RRO (nC25-nC36)	74.4	74.0		mg/Kg		100	50 - 150
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctadecane	101		50 - 150				

**Lab Sample ID: 250-14116-1 DU**

**Matrix: Solid**

**Analysis Batch: 20155**

**Client Sample ID: N-DP-7(0-1)**

**Prep Type: Total/NA**

**Prep Batch: 20173**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
DRO (C10-C25)	ND		ND		mg/Kg	☼	NC	40
RRO (nC25-nC36)	ND		ND		mg/Kg	☼	NC	40
Surrogate	DU %Recovery	DU Qualifier	Limits					
1-Chlorooctadecane	93		50 - 150					

**Lab Sample ID: MB 250-20775/1-B**

**Matrix: Solid**

**Analysis Batch: 20787**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20775**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		12		mg/Kg		10/03/13 12:49	10/04/13 12:04	1
RRO (nC25-nC36)	ND		25		mg/Kg		10/03/13 12:49	10/04/13 12:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	108		50 - 150				10/03/13 12:49	10/04/13 12:04	1

**Lab Sample ID: LCS 250-20775/2-B**

**Matrix: Solid**

**Analysis Batch: 20787**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20775**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
DRO (C10-C25)	124	133		mg/Kg		107	50 - 150
RRO (nC25-nC36)	74.4	78.8		mg/Kg		106	50 - 150

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 250-20775/2-B**  
**Matrix: Solid**  
**Analysis Batch: 20787**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20775**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctadecane	115		50 - 150

**Lab Sample ID: 250-14116-15 DU**  
**Matrix: Solid**  
**Analysis Batch: 20787**

**Client Sample ID: N-DP-27(12-13)**  
**Prep Type: Total/NA**  
**Prep Batch: 20775**

Analyte	Sample		DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
DRO (C10-C25)	ND	H	ND		mg/Kg	☼	10	40
RRO (nC25-nC36)	ND	H	ND		mg/Kg	☼	5	40

Surrogate	DU		Limits
	%Recovery	Qualifier	
1-Chlorooctadecane	97		50 - 150

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

**Lab Sample ID: MB 250-20124/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20181**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20124**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.49		mg/Kg		09/13/13 21:13	09/16/13 21:31	10
Barium	ND		0.49		mg/Kg		09/13/13 21:13	09/16/13 21:31	10
Cadmium	ND		0.49		mg/Kg		09/13/13 21:13	09/16/13 21:31	10
Chromium	ND		0.99		mg/Kg		09/13/13 21:13	09/16/13 21:31	10
Lead	ND		0.49		mg/Kg		09/13/13 21:13	09/16/13 21:31	10
Selenium	ND		0.49		mg/Kg		09/13/13 21:13	09/16/13 21:31	10
Silver	ND		0.49		mg/Kg		09/13/13 21:13	09/16/13 21:31	10

**Lab Sample ID: LCS 250-20124/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20181**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20124**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	48.2	49.1		mg/Kg		102	80 - 120
Barium	48.2	51.7		mg/Kg		107	80 - 120
Cadmium	48.2	52.6		mg/Kg		109	80 - 120
Chromium	48.2	51.5		mg/Kg		107	80 - 120
Lead	48.2	55.3		mg/Kg		115	80 - 120
Selenium	48.2	50.1		mg/Kg		104	80 - 120
Silver	24.1	27.0		mg/Kg		112	80 - 120

**Lab Sample ID: MB 250-20625/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20650**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20625**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.48		mg/Kg		09/30/13 12:32	09/30/13 16:43	10
Barium	ND		0.48		mg/Kg		09/30/13 12:32	09/30/13 16:43	10

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

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

**Lab Sample ID: MB 250-20625/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20650**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20625**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.48		mg/Kg		09/30/13 12:32	09/30/13 16:43	10
Chromium	ND		0.96		mg/Kg		09/30/13 12:32	09/30/13 16:43	10
Lead	ND		0.48		mg/Kg		09/30/13 12:32	09/30/13 16:43	10
Selenium	ND		0.48		mg/Kg		09/30/13 12:32	09/30/13 16:43	10
Silver	ND		0.48		mg/Kg		09/30/13 12:32	09/30/13 16:43	10

**Lab Sample ID: LCS 250-20625/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20650**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20625**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.6	49.4		mg/Kg		99	80 - 120
Barium	49.6	50.7		mg/Kg		102	80 - 120
Cadmium	49.6	50.9		mg/Kg		103	80 - 120
Chromium	49.6	51.6		mg/Kg		104	80 - 120
Lead	49.6	52.1		mg/Kg		105	80 - 120
Selenium	49.6	48.7		mg/Kg		98	80 - 120
Silver	24.8	26.3		mg/Kg		106	80 - 120

**Lab Sample ID: 250-14116-15 MS**  
**Matrix: Solid**  
**Analysis Batch: 20650**

**Client Sample ID: N-DP-27(12-13)**  
**Prep Type: Total/NA**  
**Prep Batch: 20625**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.5		54.3	53.7		mg/Kg	☼	96	75 - 125
Barium	41		54.3	95.8		mg/Kg	☼	102	75 - 125
Cadmium	ND		54.3	53.7		mg/Kg	☼	99	75 - 125
Chromium	69		54.3	126		mg/Kg	☼	105	75 - 125
Lead	1.2		54.3	55.9		mg/Kg	☼	101	75 - 125
Selenium	ND		54.3	52.0		mg/Kg	☼	96	75 - 125
Silver	ND		27.1	27.2		mg/Kg	☼	100	75 - 125

**Lab Sample ID: 250-14116-15 MSD**  
**Matrix: Solid**  
**Analysis Batch: 20650**

**Client Sample ID: N-DP-27(12-13)**  
**Prep Type: Total/NA**  
**Prep Batch: 20625**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.5		55.5	55.8		mg/Kg	☼	98	75 - 125	4	40
Barium	41		55.5	93.0		mg/Kg	☼	95	75 - 125	3	40
Cadmium	ND		55.5	54.8		mg/Kg	☼	99	75 - 125	2	40
Chromium	69		55.5	148	F	mg/Kg	☼	142	75 - 125	16	40
Lead	1.2		55.5	57.1		mg/Kg	☼	101	75 - 125	2	40
Selenium	ND		55.5	52.4		mg/Kg	☼	94	75 - 125	1	40
Silver	ND		27.8	28.1		mg/Kg	☼	101	75 - 125	3	40

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 250-20208/10-A**  
**Matrix: Solid**  
**Analysis Batch: 20254**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20208**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.089		mg/Kg		09/17/13 16:17	09/18/13 13:22	1

**Lab Sample ID: LCS 250-20208/11-A**  
**Matrix: Solid**  
**Analysis Batch: 20254**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20208**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.525	0.517		mg/Kg		98	80 - 120

**Lab Sample ID: MB 250-20740/10-A**  
**Matrix: Solid**  
**Analysis Batch: 20750**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20740**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.097		mg/Kg		10/02/13 14:45	10/02/13 21:15	1

**Lab Sample ID: LCS 250-20740/11-A**  
**Matrix: Solid**  
**Analysis Batch: 20750**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20740**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.535	0.562		mg/Kg		105	80 - 120

## Method: D2216-80 - Percent Dry Weight (Solids) per ASTM D2216-80

**Lab Sample ID: 250-14116-31 DU**  
**Matrix: Solid**  
**Analysis Batch: 20169**

**Client Sample ID: N-DP-33(5-6)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	5.2		4.6		%		13	20
Percent Solids	95		95		%		0.7	20

# Certification Summary

Client: GeoEngineers Inc  
 Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

## Laboratory: TestAmerica Portland

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14

## Laboratory: TestAmerica Denver

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	11-30-13
A2LA	ISO/IEC 17025		2907.01	11-30-13
Alaska (UST)	State Program	10	UST-30	04-05-14
Arizona	State Program	9	AZ0713	12-19-13
Arkansas DEQ	State Program	6	88-0687	06-01-14
California	ELAP	9	2513	08-31-14
Colorado	State Program	8	N/A	09-30-14
Connecticut	State Program	1	PH-0686	09-30-14
Florida	NELAP	4	E87667	06-30-14
Idaho	State Program	10	CO00026	09-30-13
Illinois	NELAP	5	200017	04-30-14
Iowa	State Program	7	370	12-01-14
Kansas	NELAP	7	E-10166	04-30-14
Louisiana	NELAP	6	30785	06-30-14 *
Maine	State Program	1	CO0002	03-03-15
Maryland	State Program	3	268	03-31-14
Minnesota	NELAP	5	8-999-405	12-31-13
Nevada	State Program	9	CO0026	09-01-14
New Hampshire	NELAP	1	205310	04-28-14
New Jersey	NELAP	2	CO004	06-30-14
New Mexico	State Program	6	CO00026	06-30-14 *
New York	NELAP	2	11964	04-01-14
North Carolina DENR	State Program	4	358	12-31-13
North Dakota	State Program	8	R-034	06-30-14 *
Oklahoma	State Program	6	8614	08-31-14
Oregon	NELAP	10	CO200001	01-16-14
Pennsylvania	NELAP	3	68-00664	07-30-14
South Carolina	State Program	4	72002	06-30-14 *
Tennessee	State Program	4	TN02944	09-30-13
Texas	NELAP	6	T104704183-08-TX	10-01-14
USDA	Federal		P330-13-00202	07-02-16
Utah	NELAP	8	CO000262012-4	07-31-14
Virginia	NELAP	3	460232	06-14-14
Washington	State Program	10	C583	08-03-14
West Virginia DEP	State Program	3	354	11-30-13
Wisconsin	State Program	5	999615430	08-31-14
Wyoming (UST)	A2LA	8		11-30-13

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

# Method Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14116-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PRT
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL PRT
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL PRT
6020	Metals (ICP/MS)	SW846	TAL PRT
7471A	Mercury (CVAA)	SW846	TAL PRT
D2216-80	Percent Dry Weight (Solids) per ASTM D2216-80	ASTM	TAL PRT

**Protocol References:**

ASTM = ASTM International

NWTPH = Northwest Total Petroleum Hydrocarbon

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

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

**TestAmerica Portland**

9405 SW Nimbus Avenue

Beaverton, OR 97008  
phone 503.906.9200 fax 503.906.9210

**Chain of Custody**



250-14116 Chain of Custody

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA

Client Contact		Project Manager: <u>J Lamb</u>		Site Contact: <u>E...</u>		Date: <u>9/11/13</u>		COC No:	
Your Company Name here: <u>Geo Engineers</u>		Tel/Fax:		Lab Contact:		Carrier: <u>UPS</u>		of COCs	
Address: <u>523 E 2nd Ave</u>		Analysis Turnaround Time							
City/State/Zip: <u>Spokane WA 99202</u>		<input type="checkbox"/> CALENDAR DAYS		<input checked="" type="checkbox"/> WORKING DAYS					
(xxx) xxx-xxxx Phone: <u>509 363 3125</u>		TAT if different from Below							
(xxx) xxx-xxxx FAX:		<input type="checkbox"/> 2 weeks							
Project Name: <u>Cashmere mill site</u>		<input checked="" type="checkbox"/> 1 week							
Site: <u>Cashmere</u>		<input type="checkbox"/> 2 days							
P O #: <u>18593 00102</u>		<input type="checkbox"/> 1 day							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes:
N-DP-7 (0-1)		9/10/13	1455					XX	RANDOM MS/MSD
N-DP-7 (5-6)			1505						
N-DP-7 (11-12)			1510						
N-DP-16 (1-2)			1402 ✓						
N-DP-16 (7-8)			1404					XX	
N-DP-16 (12-13)			1406						
N-DP-25 (1.5-2.5)		9/11/13	1412						
N-DP-25 (6-7)			1415					XX	
N-DP-25 (11.5-12.5)			1420						
N-DP-30 (0-1)		9/10/13	1535						
N-DP-30 (8-9)			1550					XX	
N-DP-30 (11-12)			1555						
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for <u>1</u> Months				
Special Instructions/QC Requirements & Comments: <u>METALS = ARSENIC, BARIUM, CADMIUM, CHROMIUM, MERCURY, LEAD, SELENIUM, AND SILVER</u>									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: <u>3.6, 2.3</u>		Corr'd:		Therm ID No.:	
Relinquished by: <u>Dove Thompson</u>		Company: <u>Geo Engineers</u>		Date/Time: <u>9/11/13 1440</u>		Received by: <u>[Signature]</u>		Company: <u>TAP</u>	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:	

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11/11/2013



TestAmerica Portland

9405 SW Nimbus Avenue

Beaverton, OR 97008  
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Chain of Custody Record



TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact		Project Manager: <u>J Lamb</u>		Site Contact: <u>ELH</u>		Date: <u>9/11/13</u>		COC No:	
Your Company Name here: <u>GeoEngineers</u>		Tel/Fax:		Lab Contact:		Carrier: <u>UPS</u>		_____ of _____ COCs	
Address: <u>523 E 2nd Ave</u>		Analysis Turnaround Time							
City/State/Zip: <u>Spokane WA 99202</u>		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ Depth BY ALUMINUM - GX W / LGSL Depth BY NICKEL - PX w / SSC VOLS BY EPA 8260 SVOLS BY EPA 8270 METALS BY EPA 6050 / 7000					
(xxx) xxx-xxxx Phone: <u>509 363 3125</u>		TAT if different from Below _____							
(xxx) xxx-xxxx FAX _____		<input type="checkbox"/> 2 weeks							
Project Name: <u>Cashmere Mill site</u>		<input checked="" type="checkbox"/> 1 week							
Site: <u>Cashmere</u>		<input type="checkbox"/> 2 days							
P O # <u>19593 001 02</u>		<input type="checkbox"/> 1 day							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:		
N-DR-27 (1.5-2.5)		9/10/13	1824				Run down MS/MSD		
N-DR-27 (7-8)			1807				XXXXXX		
N-DR-27 (12-13)			1837						
N-DR-31 (2-3)			1620						
N-DR-31 (8-9)			1637				XX		
<del>N-DR-31 ( )</del>		<del>_____</del>							
N-DR-31 (13-14)			1629						
N-DR-32 (3-4)			1704				XX		
N-DR-32 (5-6)			1704						
N-DR-32 (13-14)			1708						
N-DR-35 (2-3)		9/11/13	1116				XX		
N-DR-35 (7-8)			1120				XX		
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for <u>1</u> Months				
Special Instructions/QC Requirements & Comments: <u>METALS = ARSENIC, BARIUM, CADMIUM, CHROMIUM, MERCURY, LEAD, SELENIUM, AND SILVER</u>									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): <u>3.6 23</u> Obs'd:		Therm ID No.:		Corr'd:	
Relinquished by: <u>Dave Thompson</u>		Company: <u>GeoEngineers</u>		Date/Time: <u>9/11 1440</u>		Received by: <u>[Signature]</u>		Company: <u>TAP</u>	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:	

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TestAmerica Portland

9405 SW Nimbus Avenue

Beaverton, OR 97008

phone 503.906.9200 fax 503.906.9210

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact		Project Manager: <b>J Lamb</b>		Site Contact: <b>ELH</b>		Date: <b>9/11/13</b>		COC No:			
Your Company Name here <b>GEOSING NEARS</b>		Tel/Fax:		Lab Contact:		Carrier: <b>LPS</b>		_____ of _____ COCs			
Address <b>523 E 2nd Ave</b>		Analysis Turnaround Time									
City/State/Zip <b>Spokane WA 99202</b>		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS		Filtered Sample (Y/N)   Perform MS / MSD (Y/N)   <b>GR2H BY NUTTPH - SX W/SSC</b> <b>GR2H BY NUTTPH - DX W/SSC</b> <b>GR2H BY NUTTPH - DX W/SSC</b> <b>GR2H BY EPA 8210</b> <b>METALS BY EPA 8000/7000</b>						For Lab Use Only:	
(xxx) xxx-xxxx Phone <b>509 363 3125</b>		TAT if different from Below _____								Walk-in Client:	
(xxx) xxx-xxxx FAX		<input type="checkbox"/> 2 weeks								Lab Sampling:	
Project Name: <b>Cashmere Mill site</b>		<input checked="" type="checkbox"/> 1 week								Job / SDG No.:	
Site: <b>CASHMERE</b>		<input type="checkbox"/> 2 days								Sampler:	
P O # <b>18598 001 02</b>		<input type="checkbox"/> 1 day									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:				
✓ N-DP-35 (10.5-11.5)		9/11/13	1124				Random MS/MSD				
✓ N-DP-36 (2-3)			0845								
✓ N-DP-36 (7-8)			0847				XX				
✓ N-DP-36 (12-13)			0850								
✓ N-DP-43 (0.5-1.5)			0930				XX XX				
✓ N-DP-43 (8-9)			0935				XX				
✓ N-DP-33 (0-1)			1215								
✓ N-DP-33 (5-6)			1218				XX				
✓ N-DP-42 (1.5-2.5)			1020				XX				
✓ N-DP-42 (7.5-8.5)			1025				XX				
✓ N-DP-42 (11-12)			1055								
✓ N-DP-44 (2-3)			1123								
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for <u>1</u> Months						
Special Instructions/QC Requirements & Comments: <b>METALS = ARSENIC, BARIUM, CADMIUM, CHROMIUM, MERCURY, LEAD, SELENIUM, AND SILVER</b> <b>3.6, 2.3</b>											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____		Therm ID No.:		Corr'd: _____			
Relinquished by: <b>Dave Thompson</b>		Company:		Date/Time: <b>9/11/140</b>		Received by: <b>AKM</b>		Company: <b>THO</b>			
Relinquished by:		Company:		Date/Time:		Received by:		Company:			
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:			

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**TestAmerica Portland**

9405 SW Nimbus Avenue

Beaverton, OR 97008

phone 503.906.9200 fax 503.906.9210

**Chain of Custody Record**

14116  
**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other

<b>Client Contact</b>		<b>Project Manager:</b> J Lamb		<b>Site Contact:</b> ELH		<b>Date:</b> 9/11/13		<b>COC No:</b>	
Your Company Name here: <u>GeoEng. inc</u>		Tel/Fax:		Lab Contact:		Carrier: <u>UPS</u>		_____ of _____ COCs	
Address: <u>523 E 2nd Ave</u>		<b>Analysis Turnaround Time</b>		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ ICP-MS BY NUTRI - GX W/SGC D-PTH CASH BY NUTRI - PX W/SGC VOCs BY EPA 8260 SWCS BY EPA 8270 METALS BY EPA 8210/100/1000/1000		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input checked="" type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>For Lab Use Only:</b> Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____ Sampler: _____ Sample Specific Notes: _____	
City/State/Zip: <u>Spokane WA 99202</u>									
(xxx) xxx-xxxx Phone: <u>509 363 3125</u>									
(xxx) xxx-xxxx FAX:									
Project Name: <u>Cashmere Mill site</u>									
Site: <u>Cashmere</u>									
P O #: <u>18593 001 07</u>									

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	ICP-MS BY NUTRI - GX W/SGC	D-PTH	CASH BY NUTRI - PX W/SGC	VOCs BY EPA 8260	SWCS BY EPA 8270	METALS BY EPA 8210/100/1000/1000	Sample Specific Notes:
N-DR-44 (9-10)	9/11/13	1130						X	X					Random MS/MSA
N-DR-45 (1-2)	↓	1205												
N-DR-45 (8.5-9.5)	↓	1236						X	X					

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

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

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client  Disposal by Lab  Archive for 1 Months

Special Instructions/QC Requirements & Comments:  
 METALS = ARSENIC, BARIUM, CADMIUM, CHROMIUM, MERCURY, LEAD, SELENIUM, AND SILVER

Custody Seals Intact:  Yes  No

Custody Seal No.: \_\_\_\_\_ Cooler Temp. (°C): \_\_\_\_\_ Obs'd: \_\_\_\_\_ Corr'd: \_\_\_\_\_ Therm ID No.: \_\_\_\_\_

Relinquished by: <u>Aone Thompson</u>	Company: <u>GeoEng. inc</u>	Date/Time: <u>9/11 14:30</u>	Received by: <u>AT</u>	Company: <u>TAP</u>	Date/Time: <u>9/12/13 @ 0950</u>
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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11/11/2013



## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14116-1

**Login Number: 14116**

**List Source: TestAmerica Portland**

**List Number: 1**

**Creator: Svabik-Seror, Philip M**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	No name.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	N-DP-42(1.5-2.5) 8 oz jar received broken.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14116-1

**Login Number: 14116**

**List Source: TestAmerica Denver**

**List Number: 1**

**List Creation: 09/14/13 12:56 PM**

**Creator: Knauf, James R**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	FIELD LEFT BLANK
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Portland  
9405 SW Nimbus Ave.  
Beaverton, OR 97008  
Tel: (503)906-9200

TestAmerica Job ID: 250-14136-1  
Client Project/Site: Cashmere Mill  
Revision: 2

For:  
GeoEngineers Inc  
523 East Second Ave  
Spokane, Washington 99202

Attn: Jodie Lamb



Authorized for release by:  
11/13/2013 10:29:29 AM

Vanessa Berry, Project Manager I  
(503)906-9233  
[vanessa.frahs@testamericainc.com](mailto:vanessa.frahs@testamericainc.com)

### LINKS

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

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

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# Sample Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-14136-4	S-DP-2(1.5-2.5)	Solid	09/12/13 09:25	09/13/13 09:55
250-14136-6	S-DP-4(1-2)	Solid	09/12/13 10:30	09/13/13 09:55
250-14136-11	S-DP-9(6.5-7.5)	Solid	09/12/13 11:20	09/13/13 09:55
250-14136-12	S-DP-10(1-2)	Solid	09/12/13 11:04	09/13/13 09:55
250-14136-15	S-DP-11(5-6.5)	Solid	09/12/13 10:10	09/13/13 09:55
250-14136-16	S-DP-13(0-1)	Solid	09/12/13 09:34	09/13/13 09:55
250-14136-19	S-DP-5(2.5-3.5)	Solid	09/12/13 09:55	09/13/13 09:55
250-14136-23	S-DP-21(11-12)	Solid	09/12/13 11:44	09/13/13 09:55
250-14136-24	N-DP-47(1.5-2.5)	Solid	09/11/13 14:14	09/13/13 09:55
250-14136-26	N-DP-48(5-6)	Solid	09/11/13 17:23	09/13/13 09:55
250-14136-27	N-DP-49(2-3)	Solid	09/11/13 17:40	09/13/13 09:55
250-14136-29	N-DP-50(6-7)	Solid	09/11/13 15:13	09/13/13 09:55
250-14136-32	N-DP-52(6.5-7.5)	Solid	09/11/13 15:40	09/13/13 09:55
250-14136-34	N-DP-53(1.5-2.5)	Solid	09/11/13 16:10	09/13/13 09:55
250-14136-35	N-DP-54(1.5-2.5)	Solid	09/11/13 16:35	09/13/13 09:55

# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## Job ID: 250-14136-1

### Laboratory: TestAmerica Portland

#### Narrative

#### Job Narrative 250-14136-1

#### Comments

Revised Report 2: Sample IDs changed to match COC.  
Revised Report: Includes 8260 VOC and 8270 SVOC results down to the MDL.

#### Receipt

The samples were received on 9/13/2013 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.0° C and 1.0° C.

#### GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 20244 recovered outside control limits for the following analytes: dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method 8270C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 191624 recovered outside control limits for the following analyte: hexachlorocyclopentadiene. Hexachlorocyclopentadiene has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

No other analytical or quality issues were noted.

#### GC VOA

No analytical or quality issues were noted.

#### GC Semi VOA

Method NWTPH-Dx: The following sample(s) required a dilution due to the nature of the sample matrix: (250-14129-2 DU), (250-14129-3 DU), S-69 (250-14129-2), S-70 (250-14129-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to weathered diesel.S-DP-2(1.5-2.5) (250-14136-4)

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to diesel as well as oil overlap.S-DP-47(1.5-2.5) (250-14136-24)

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to oil overlap. (250-14129-2 DU), (250-14129-3 DU), S-69 (250-14129-2), S-70 (250-14129-3), S-DP-4(1-2) (250-14136-6)

Method NWTPH-Dx: The following sample(s) required a dilution due to the nature of the sample matrix: (250-14129-2 DU), S-69 (250-14129-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No other analytical or quality issues were noted.

#### Metals

No analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

#### VOA Prep

No analytical or quality issues were noted.

# Definitions/Glossary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS Semi VOA

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

## Glossary

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

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

**Client Sample ID: S-DP-2(1.5-2.5)**

**Date Collected: 09/12/13 09:25**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-4**

**Matrix: Solid**

**Percent Solids: 72.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		4400	890	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Benzene	ND		180	35	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Bromobenzene	ND		180	35	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Bromochloromethane	ND		180	43	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Bromodichloromethane	ND		180	27	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Bromoform	ND		890	180	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Bromomethane	ND		890	50	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
2-Butanone (MEK)	ND		1800	530	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
n-Butylbenzene	ND		890	92	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
sec-Butylbenzene	ND		180	35	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
tert-Butylbenzene	ND		180	23	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Carbon disulfide	ND		1800	69	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Carbon tetrachloride	ND		180	34	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Chlorobenzene	ND		180	34	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Chloroethane	ND		180	39	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Chloroform	ND		180	28	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Chloromethane	ND		890	27	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
2-Chlorotoluene	ND		180	23	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
4-Chlorotoluene	ND		180	32	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,2-Dibromo-3-Chloropropane	ND		890	180	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Dibromochloromethane	ND		180	30	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,2-Dibromoethane	ND		180	30	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Dibromomethane	ND		180	37	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,2-Dichloroethane	ND		180	28	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,3-Dichlorobenzene	ND		180	30	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,4-Dichlorobenzene	ND		180	51	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Dichlorodifluoromethane	ND *		890	44	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,1-Dichloroethane	ND		180	34	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,1-Dichloroethene	ND		180	28	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
cis-1,2-Dichloroethene	ND		180	50	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
trans-1,2-Dichloroethene	ND		180	35	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,2-Dichloropropane	ND		180	28	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,3-Dichloropropane	ND		180	30	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
2,2-Dichloropropane	ND		180	30	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,1-Dichloropropene	ND		180	27	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
cis-1,3-Dichloropropene	ND		180	30	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
trans-1,3-Dichloropropene	ND		180	27	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Ethylbenzene	ND		180	32	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Hexachlorobutadiene	ND		710	32	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
2-Hexanone	ND		1800	390	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Isopropylbenzene	ND		350	64	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
p-Isopropyltoluene	ND		350	20	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
4-Methyl-2-pentanone (MIBK)	ND		890	180	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Methyl tert-butyl ether	ND		180	23	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Methylene Chloride	ND		890	25	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Naphthalene	ND		350	43	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
N-Propylbenzene	ND		180	37	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Styrene	ND		180	32	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,1,1,2-Tetrachloroethane	ND		180	32	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

**Client Sample ID: S-DP-2(1.5-2.5)**

**Date Collected: 09/12/13 09:25**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-4**

**Matrix: Solid**

**Percent Solids: 72.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		180	43	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Tetrachloroethene	ND		180	48	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Toluene	ND		180	27	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,2,3-Trichlorobenzene	ND		890	180	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,2,4-Trichlorobenzene	ND		180	44	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,1,1-Trichloroethane	ND		180	37	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,1,2-Trichloroethane	ND		180	43	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Trichloroethene	ND		180	37	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Trichlorofluoromethane	ND		180	39	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,2,3-Trichloropropane	ND		180	37	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,2,4-Trimethylbenzene	ND		180	82	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,3,5-Trimethylbenzene	ND		180	43	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
Vinyl chloride	ND		890	180	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
m,p-Xylene	ND		350	64	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
o-Xylene	ND		180	41	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1
1,2-Dichlorobenzene	ND		180	25	ug/Kg	☼	09/17/13 17:00	09/18/13 10:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125	09/17/13 17:00	09/18/13 10:01	1
4-Bromofluorobenzene (Surr)	104		75 - 125	09/17/13 17:00	09/18/13 10:01	1
Dibromofluoromethane (Surr)	95		75 - 125	09/17/13 17:00	09/18/13 10:01	1
Toluene-d8 (Surr)	100		75 - 125	09/17/13 17:00	09/18/13 10:01	1

**Client Sample ID: S-DP-13(0-1)**

**Date Collected: 09/12/13 09:34**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-16**

**Matrix: Solid**

**Percent Solids: 83.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		3400	690	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Benzene	ND		140	27	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Bromobenzene	ND		140	27	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Bromochloromethane	ND		140	33	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Bromodichloromethane	ND		140	21	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Bromoform	ND		690	140	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Bromomethane	ND		690	38	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
2-Butanone (MEK)	ND		1400	410	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
n-Butylbenzene	ND		690	71	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
sec-Butylbenzene	ND		140	27	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
tert-Butylbenzene	ND		140	18	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Carbon disulfide	ND		1400	54	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Carbon tetrachloride	ND		140	26	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Chlorobenzene	ND		140	26	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Chloroethane	ND		140	30	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Chloroform	ND		140	22	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Chloromethane	ND		690	21	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
2-Chlorotoluene	ND		140	18	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
4-Chlorotoluene	ND		140	25	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,2-Dibromo-3-Chloropropane	ND		690	140	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Dibromochloromethane	ND		140	23	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,2-Dibromoethane	ND		140	23	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Dibromomethane	ND		140	29	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

**Client Sample ID: S-DP-13(0-1)**

**Date Collected: 09/12/13 09:34**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-16**

**Matrix: Solid**

**Percent Solids: 83.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		140	22	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,3-Dichlorobenzene	ND		140	23	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,4-Dichlorobenzene	ND		140	40	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Dichlorodifluoromethane	ND	*	690	34	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,1-Dichloroethane	ND		140	26	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,1-Dichloroethene	ND		140	22	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
cis-1,2-Dichloroethene	ND		140	38	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
trans-1,2-Dichloroethene	ND		140	27	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,2-Dichloropropane	ND		140	22	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,3-Dichloropropane	ND		140	23	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
2,2-Dichloropropane	ND		140	23	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,1-Dichloropropene	ND		140	21	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
cis-1,3-Dichloropropene	ND		140	23	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
trans-1,3-Dichloropropene	ND		140	21	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Ethylbenzene	ND		140	25	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Hexachlorobutadiene	ND		550	25	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
2-Hexanone	ND		1400	300	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Isopropylbenzene	ND		270	49	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
p-Isopropyltoluene	ND		270	15	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
4-Methyl-2-pentanone (MIBK)	ND		690	140	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Methyl tert-butyl ether	ND		140	18	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Methylene Chloride	ND		690	19	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Naphthalene	ND		270	33	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
N-Propylbenzene	ND		140	29	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Styrene	ND		140	25	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,1,1,2-Tetrachloroethane	ND		140	25	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,1,2,2-Tetrachloroethane	ND		140	33	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Tetrachloroethene	ND		140	37	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Toluene	ND		140	21	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,2,3-Trichlorobenzene	ND		690	140	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,2,4-Trichlorobenzene	ND		140	34	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,1,1-Trichloroethane	ND		140	29	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,1,2-Trichloroethane	ND		140	33	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Trichloroethene	ND		140	29	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Trichlorofluoromethane	ND		140	30	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,2,3-Trichloropropane	ND		140	29	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,2,4-Trimethylbenzene	ND		140	63	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,3,5-Trimethylbenzene	ND		140	33	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
Vinyl chloride	ND		690	140	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
m,p-Xylene	ND		270	49	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
o-Xylene	ND		140	32	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
1,2-Dichlorobenzene	ND		140	19	ug/Kg	☼	09/17/13 17:00	09/18/13 10:25	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	99		75 - 125				09/17/13 17:00	09/18/13 10:25	1
4-Bromofluorobenzene (Surr)	101		75 - 125				09/17/13 17:00	09/18/13 10:25	1
Dibromofluoromethane (Surr)	94		75 - 125				09/17/13 17:00	09/18/13 10:25	1
Toluene-d8 (Surr)	100		75 - 125				09/17/13 17:00	09/18/13 10:25	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

**Client Sample ID: S-DP-2(1.5-2.5)**

**Date Collected: 09/12/13 09:25**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-4**

**Matrix: Solid**

**Percent Solids: 72.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		430	13	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Acenaphthylene	ND		430	22	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Acetophenone	ND		430	26	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Anthracene	ND		430	22	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Atrazine	ND		430	48	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Benzidine	ND		4300	1300	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Benzo[a]anthracene	ND		430	26	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Benzo[a]pyrene	ND		430	26	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Benzo[b]fluoranthene	ND		430	34	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Benzo[g,h,i]perylene	ND		430	21	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Benzo[k]fluoranthene	ND		430	52	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Bis(2-chloroethoxy)methane	ND		430	30	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Bis(2-chloroethyl)ether	ND		430	22	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Bis(2-ethylhexyl) phthalate	ND		430	60	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Butyl benzyl phthalate	ND		430	56	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Caprolactam	ND		2100	140	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Carbazole	ND		430	47	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Chrysene	ND		430	35	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Di-n-butyl phthalate	ND		430	38	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Di-n-octyl phthalate	ND		430	19	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Dibenz(a,h)anthracene	ND		430	25	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Dibenzofuran	ND		430	26	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Diethyl phthalate	ND		860	34	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
<b>Dimethyl phthalate</b>	<b>380</b>	<b>J B</b>	430	30	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Fluoranthene	ND		430	47	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Fluorene	ND		430	24	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Hexachlorobenzene	ND		430	38	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Hexachlorobutadiene	ND		430	13	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Hexachlorocyclopentadiene	ND *		2100	65	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Hexachloroethane	ND		430	28	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Indeno[1,2,3-cd]pyrene	ND		430	29	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Naphthalene	ND		430	41	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Nitrobenzene	ND		430	29	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
N-Nitrosodi-n-propylamine	ND		430	41	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		430	27	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Pentachlorophenol	ND		2100	430	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Phenol	ND		430	24	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Phenanthrene	ND		430	22	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
Pyrene	ND		430	16	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
2,2'-oxybis[1-chloropropane]	ND		430	30	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
2-Chloronaphthalene	ND		430	13	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
2-Chlorophenol	ND		430	27	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
2-Methylnaphthalene	ND		430	25	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
2-Methylphenol	ND		430	17	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
2-Nitroaniline	ND		2100	65	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
2-Nitrophenol	ND		430	13	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
2,4-Dichlorophenol	ND		430	13	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1
2,4-Dimethylphenol	ND		430	86	ug/Kg	*	09/16/13 15:40	09/17/13 14:33	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

**Client Sample ID: S-DP-2(1.5-2.5)**

**Date Collected: 09/12/13 09:25**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-4**

**Matrix: Solid**

**Percent Solids: 72.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		2100	440	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
2,4-Dinitrotoluene	ND		430	86	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
2,6-Dinitrotoluene	ND		430	37	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
2,4,5-Trichlorophenol	ND		430	13	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
2,4,6-Trichlorophenol	ND		430	13	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
3,3'-Dichlorobenzidine	ND		860	120	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
3 & 4 Methylphenol	ND		430	43	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
3-Nitroaniline	ND		2100	96	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
4-Bromophenyl phenyl ether	ND		430	25	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
4-Chloro-3-methylphenol	ND		430	86	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
4-Chloroaniline	ND		430	110	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
4-Chlorophenyl phenyl ether	ND		430	27	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
4-Nitroaniline	ND		2100	95	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
4-Nitrophenol	ND		2100	130	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
4,6-Dinitro-2-methylphenol	ND		2100	430	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
1,4-Dichlorobenzene	ND		430	18	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1
1,2,4-Trichlorobenzene	ND		430	37	ug/Kg	☼	09/16/13 15:40	09/17/13 14:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		53 - 120	09/16/13 15:40	09/17/13 14:33	1
Phenol-d5	79		52 - 120	09/16/13 15:40	09/17/13 14:33	1
Nitrobenzene-d5	70		50 - 120	09/16/13 15:40	09/17/13 14:33	1
2-Fluorobiphenyl	72		50 - 120	09/16/13 15:40	09/17/13 14:33	1
2,4,6-Tribromophenol	85		51 - 120	09/16/13 15:40	09/17/13 14:33	1
Terphenyl-d14	86		55 - 120	09/16/13 15:40	09/17/13 14:33	1

**Client Sample ID: S-DP-13(0-1)**

**Date Collected: 09/12/13 09:34**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-16**

**Matrix: Solid**

**Percent Solids: 83.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		380	12	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Acenaphthylene	ND		380	19	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Acetophenone	ND		380	23	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Anthracene	ND		380	19	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Atrazine	ND		380	42	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Benzidine	ND		3800	1100	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Benzo[a]anthracene	ND		380	23	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Benzo[a]pyrene	ND		380	23	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Benzo[b]fluoranthene	ND		380	30	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Benzo[g,h,i]perylene	ND		380	18	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Benzo[k]fluoranthene	ND		380	46	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Bis(2-chloroethoxy)methane	ND		380	26	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Bis(2-chloroethyl)ether	ND		380	19	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Bis(2-ethylhexyl) phthalate	ND		380	52	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Butyl benzyl phthalate	ND		380	49	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Caprolactam	ND		1800	120	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Carbazole	ND		380	41	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Chrysene	ND		380	31	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Di-n-butyl phthalate	ND		380	33	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Di-n-octyl phthalate	ND		380	16	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

**Client Sample ID: S-DP-13(0-1)**

**Date Collected: 09/12/13 09:34**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-16**

**Matrix: Solid**

**Percent Solids: 83.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		380	22	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Dibenzofuran	ND		380	23	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Diethyl phthalate	ND		750	30	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
<b>Dimethyl phthalate</b>	<b>120</b>	<b>J B</b>	380	26	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Fluoranthene	ND		380	41	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Fluorene	ND		380	20	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Hexachlorobenzene	ND		380	33	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Hexachlorobutadiene	ND		380	11	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Hexachlorocyclopentadiene	ND	*	1800	57	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Hexachloroethane	ND		380	24	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Indeno[1,2,3-cd]pyrene	ND		380	25	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Naphthalene	ND		380	35	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Nitrobenzene	ND		380	25	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
N-Nitrosodi-n-propylamine	ND		380	35	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		380	24	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Pentachlorophenol	ND		1800	380	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Phenol	ND		380	20	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Phenanthrene	ND		380	19	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
Pyrene	ND		380	14	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
2,2'-oxybis[1-chloropropane]	ND		380	26	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
2-Chloronaphthalene	ND		380	11	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
2-Chlorophenol	ND		380	24	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
2-Methylnaphthalene	ND		380	22	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
2-Methylphenol	ND		380	15	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
2-Nitroaniline	ND		1800	57	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
2-Nitrophenol	ND		380	11	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
2,4-Dichlorophenol	ND		380	11	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
2,4-Dimethylphenol	ND		380	75	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
2,4-Dinitrophenol	ND		1800	380	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
2,4-Dinitrotoluene	ND		380	75	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
2,6-Dinitrotoluene	ND		380	32	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
2,4,5-Trichlorophenol	ND		380	11	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
2,4,6-Trichlorophenol	ND		380	11	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
3,3'-Dichlorobenzidine	ND		750	100	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
3 & 4 Methylphenol	ND		380	38	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
3-Nitroaniline	ND		1800	83	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
4-Bromophenyl phenyl ether	ND		380	22	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
4-Chloro-3-methylphenol	ND		380	75	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
4-Chloroaniline	ND		380	93	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
4-Chlorophenyl phenyl ether	ND		380	24	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
4-Nitroaniline	ND		1800	83	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
4-Nitrophenol	ND		1800	110	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
4,6-Dinitro-2-methylphenol	ND		1800	380	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
1,4-Dichlorobenzene	ND		380	15	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1
1,2,4-Trichlorobenzene	ND		380	32	ug/Kg	☼	09/16/13 15:40	09/17/13 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	81		53 - 120	09/16/13 15:40	09/17/13 14:59	1
Phenol-d5	82		52 - 120	09/16/13 15:40	09/17/13 14:59	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

Client Sample ID: S-DP-13(0-1)  
Date Collected: 09/12/13 09:34  
Date Received: 09/13/13 09:55

Lab Sample ID: 250-14136-16  
Matrix: Solid  
Percent Solids: 83.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75		50 - 120	09/16/13 15:40	09/17/13 14:59	1
2-Fluorobiphenyl	78		50 - 120	09/16/13 15:40	09/17/13 14:59	1
2,4,6-Tribromophenol	87		51 - 120	09/16/13 15:40	09/17/13 14:59	1
Terphenyl-d14	87		55 - 120	09/16/13 15:40	09/17/13 14:59	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-2(1.5-2.5)**

**Date Collected: 09/12/13 09:25**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-4**

**Matrix: Solid**

**Percent Solids: 72.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	40		7.1		mg/Kg	☼	09/17/13 11:26	09/18/13 10:04	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	80		50 - 150				09/17/13 11:26	09/18/13 10:04	1

**Client Sample ID: S-DP-4(1-2)**

**Date Collected: 09/12/13 10:30**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-6**

**Matrix: Solid**

**Percent Solids: 86.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.5		mg/Kg	☼	09/17/13 11:26	09/18/13 10:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	89		50 - 150				09/17/13 11:26	09/18/13 10:32	1

**Client Sample ID: S-DP-9(6.5-7.5)**

**Date Collected: 09/12/13 11:20**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-11**

**Matrix: Solid**

**Percent Solids: 91.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.3		mg/Kg	☼	09/17/13 11:26	09/18/13 11:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	86		50 - 150				09/17/13 11:26	09/18/13 11:00	1

**Client Sample ID: S-DP-10(1-2)**

**Date Collected: 09/12/13 11:04**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-12**

**Matrix: Solid**

**Percent Solids: 72.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.2		mg/Kg	☼	09/17/13 11:37	09/17/13 13:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	99		50 - 150				09/17/13 11:37	09/17/13 13:00	1

**Client Sample ID: S-DP-11(5-6.5)**

**Date Collected: 09/12/13 10:10**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-15**

**Matrix: Solid**

**Percent Solids: 90.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.5		mg/Kg	☼	09/17/13 11:37	09/17/13 14:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	102		50 - 150				09/17/13 11:37	09/17/13 14:01	1

**Client Sample ID: S-DP-13(0-1)**

**Date Collected: 09/12/13 09:34**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-16**

**Matrix: Solid**

**Percent Solids: 83.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.5		mg/Kg	☼	09/17/13 11:37	09/17/13 15:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	100		50 - 150				09/17/13 11:37	09/17/13 15:05	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-5(2.5-3.5)**

**Date Collected: 09/12/13 09:55**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-19**

**Matrix: Solid**

**Percent Solids: 85.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.6		mg/Kg	☼	09/17/13 11:37	09/17/13 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	96		50 - 150				09/17/13 11:37	09/17/13 15:36	1

**Client Sample ID: S-DP-21(11-12)**

**Date Collected: 09/12/13 11:44**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-23**

**Matrix: Solid**

**Percent Solids: 85.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.4		mg/Kg	☼	09/17/13 11:37	09/17/13 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	75		50 - 150				09/17/13 11:37	09/17/13 16:06	1

**Client Sample ID: N-DP-47(1.5-2.5)**

**Date Collected: 09/11/13 14:14**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-24**

**Matrix: Solid**

**Percent Solids: 90.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.0		mg/Kg	☼	09/17/13 11:37	09/18/13 11:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	82		50 - 150				09/17/13 11:37	09/18/13 11:28	1

**Client Sample ID: N-DP-48(5-6)**

**Date Collected: 09/11/13 17:23**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-26**

**Matrix: Solid**

**Percent Solids: 93.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.4		mg/Kg	☼	09/17/13 11:37	09/18/13 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	93		50 - 150				09/17/13 11:37	09/18/13 11:56	1

**Client Sample ID: N-DP-49(2-3)**

**Date Collected: 09/11/13 17:40**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-27**

**Matrix: Solid**

**Percent Solids: 94.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.6		mg/Kg	☼	09/17/13 11:37	09/18/13 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	96		50 - 150				09/17/13 11:37	09/18/13 12:24	1

**Client Sample ID: N-DP-50(6-7)**

**Date Collected: 09/11/13 15:13**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-29**

**Matrix: Solid**

**Percent Solids: 84.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.4		mg/Kg	☼	09/17/13 11:37	09/17/13 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	89		50 - 150				09/17/13 11:37	09/17/13 19:09	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-52(6.5-7.5)**

**Date Collected: 09/11/13 15:40**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-32**

**Matrix: Solid**

**Percent Solids: 82.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.5		mg/Kg	☼	09/17/13 11:37	09/17/13 19:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (fid)</i>	97		50 - 150				09/17/13 11:37	09/17/13 19:39	1

**Client Sample ID: N-DP-53(1.5-2.5)**

**Date Collected: 09/11/13 16:10**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-34**

**Matrix: Solid**

**Percent Solids: 96.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.5		mg/Kg	☼	09/17/13 11:37	09/17/13 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (fid)</i>	98		50 - 150				09/17/13 11:37	09/17/13 20:09	1

**Client Sample ID: N-DP-54(1.5-2.5)**

**Date Collected: 09/11/13 16:35**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-35**

**Matrix: Solid**

**Percent Solids: 83.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.6		mg/Kg	☼	09/17/13 11:37	09/17/13 20:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (fid)</i>	87		50 - 150				09/17/13 11:37	09/17/13 20:40	1



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-2(1.5-2.5)**

**Date Collected: 09/12/13 09:25**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-4**

**Matrix: Solid**

**Percent Solids: 72.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	80		17		mg/Kg	☼	09/17/13 05:36	09/17/13 19:35	1
RRO (nC25-nC36)	130		34		mg/Kg	☼	09/17/13 05:36	09/17/13 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	70		50 - 150				09/17/13 05:36	09/17/13 19:35	1

**Client Sample ID: S-DP-4(1-2)**

**Date Collected: 09/12/13 10:30**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-6**

**Matrix: Solid**

**Percent Solids: 86.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	280		140		mg/Kg	☼	09/17/13 05:36	09/18/13 12:38	10
RRO (nC25-nC36)	1300		290		mg/Kg	☼	09/17/13 05:36	09/18/13 12:38	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	107		50 - 150				09/17/13 05:36	09/18/13 12:38	10

**Client Sample ID: S-DP-9(6.5-7.5)**

**Date Collected: 09/12/13 11:20**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-11**

**Matrix: Solid**

**Percent Solids: 91.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/17/13 05:36	09/17/13 20:14	1
RRO (nC25-nC36)	ND		27		mg/Kg	☼	09/17/13 05:36	09/17/13 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	106		50 - 150				09/17/13 05:36	09/17/13 20:14	1

**Client Sample ID: S-DP-10(1-2)**

**Date Collected: 09/12/13 11:04**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-12**

**Matrix: Solid**

**Percent Solids: 72.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		17		mg/Kg	☼	09/17/13 05:36	09/17/13 20:34	1
RRO (nC25-nC36)	ND		34		mg/Kg	☼	09/17/13 05:36	09/17/13 20:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	84		50 - 150				09/17/13 05:36	09/17/13 20:34	1

**Client Sample ID: S-DP-11(5-6.5)**

**Date Collected: 09/12/13 10:10**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-15**

**Matrix: Solid**

**Percent Solids: 90.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/19/13 08:44	09/19/13 12:39	1
RRO (nC25-nC36)	ND		28		mg/Kg	☼	09/19/13 08:44	09/19/13 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	74		50 - 150				09/19/13 08:44	09/19/13 12:39	1

**Client Sample ID: S-DP-13(0-1)**

**Date Collected: 09/12/13 09:34**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-16**

**Matrix: Solid**

**Percent Solids: 83.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	17		15		mg/Kg	☼	09/19/13 08:44	09/19/13 12:57	1
RRO (nC25-nC36)	85		30		mg/Kg	☼	09/19/13 08:44	09/19/13 12:57	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	83		50 - 150				09/19/13 08:44	09/19/13 12:57	1	
<b>Client Sample ID: S-DP-5(2.5-3.5)</b>							<b>Lab Sample ID: 250-14136-19</b>			
<b>Date Collected: 09/12/13 09:55</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/13/13 09:55</b>							<b>Percent Solids: 85.5</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		14		mg/Kg	☼	09/19/13 08:44	09/19/13 13:16	1	
RRO (nC25-nC36)	ND		29		mg/Kg	☼	09/19/13 08:44	09/19/13 13:16	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	75		50 - 150				09/19/13 08:44	09/19/13 13:16	1	
<b>Client Sample ID: S-DP-21(11-12)</b>							<b>Lab Sample ID: 250-14136-23</b>			
<b>Date Collected: 09/12/13 11:44</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/13/13 09:55</b>							<b>Percent Solids: 85.2</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		14		mg/Kg	☼	09/19/13 08:44	09/19/13 13:35	1	
RRO (nC25-nC36)	ND		29		mg/Kg	☼	09/19/13 08:44	09/19/13 13:35	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	74		50 - 150				09/19/13 08:44	09/19/13 13:35	1	
<b>Client Sample ID: N-DP-47(1.5-2.5)</b>							<b>Lab Sample ID: 250-14136-24</b>			
<b>Date Collected: 09/11/13 14:14</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/13/13 09:55</b>							<b>Percent Solids: 90.0</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	210		14		mg/Kg	☼	09/17/13 05:36	09/17/13 21:33	1	
RRO (nC25-nC36)	530		28		mg/Kg	☼	09/17/13 05:36	09/17/13 21:33	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	108		50 - 150				09/17/13 05:36	09/17/13 21:33	1	
<b>Client Sample ID: N-DP-48(5-6)</b>							<b>Lab Sample ID: 250-14136-26</b>			
<b>Date Collected: 09/11/13 17:23</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/13/13 09:55</b>							<b>Percent Solids: 93.4</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		13		mg/Kg	☼	09/17/13 05:36	09/17/13 21:52	1	
RRO (nC25-nC36)	ND		27		mg/Kg	☼	09/17/13 05:36	09/17/13 21:52	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	106		50 - 150				09/17/13 05:36	09/17/13 21:52	1	
<b>Client Sample ID: N-DP-49(2-3)</b>							<b>Lab Sample ID: 250-14136-27</b>			
<b>Date Collected: 09/11/13 17:40</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/13/13 09:55</b>							<b>Percent Solids: 94.3</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		13		mg/Kg	☼	09/17/13 05:36	09/17/13 22:12	1	
RRO (nC25-nC36)	35		26		mg/Kg	☼	09/17/13 05:36	09/17/13 22:12	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	104		50 - 150				09/17/13 05:36	09/17/13 22:12	1	

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-50(6-7)**

**Date Collected: 09/11/13 15:13**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-29**

**Matrix: Solid**

**Percent Solids: 84.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		15		mg/Kg	☼	09/17/13 05:36	09/17/13 22:32	1
RRO (nC25-nC36)	ND		29		mg/Kg	☼	09/17/13 05:36	09/17/13 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	103		50 - 150				09/17/13 05:36	09/17/13 22:32	1

**Client Sample ID: N-DP-52(6.5-7.5)**

**Date Collected: 09/11/13 15:40**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-32**

**Matrix: Solid**

**Percent Solids: 82.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		15		mg/Kg	☼	09/17/13 05:36	09/17/13 22:52	1
RRO (nC25-nC36)	ND		30		mg/Kg	☼	09/17/13 05:36	09/17/13 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	97		50 - 150				09/17/13 05:36	09/17/13 22:52	1

**Client Sample ID: N-DP-53(1.5-2.5)**

**Date Collected: 09/11/13 16:10**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-34**

**Matrix: Solid**

**Percent Solids: 96.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/17/13 05:36	09/17/13 22:32	1
RRO (nC25-nC36)	ND		26		mg/Kg	☼	09/17/13 05:36	09/17/13 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	75		50 - 150				09/17/13 05:36	09/17/13 22:32	1

**Client Sample ID: N-DP-54(1.5-2.5)**

**Date Collected: 09/11/13 16:35**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-35**

**Matrix: Solid**

**Percent Solids: 83.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		15		mg/Kg	☼	09/17/13 05:36	09/17/13 22:52	1
RRO (nC25-nC36)	ND		30		mg/Kg	☼	09/17/13 05:36	09/17/13 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	95		50 - 150				09/17/13 05:36	09/17/13 22:52	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

**Client Sample ID: S-DP-2(1.5-2.5)**

**Date Collected: 09/12/13 09:25**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-4**

**Matrix: Solid**

**Percent Solids: 72.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>3.5</b>		0.66		mg/Kg	☼	09/17/13 08:54	09/17/13 20:07	10
<b>Barium</b>	<b>120</b>		0.66		mg/Kg	☼	09/17/13 08:54	09/17/13 20:07	10
Cadmium	ND		0.66		mg/Kg	☼	09/17/13 08:54	09/17/13 20:07	10
<b>Chromium</b>	<b>63</b>		1.3		mg/Kg	☼	09/17/13 08:54	09/17/13 20:07	10
<b>Lead</b>	<b>18</b>		0.66		mg/Kg	☼	09/17/13 08:54	09/17/13 20:07	10
Selenium	ND		0.66		mg/Kg	☼	09/17/13 08:54	09/17/13 20:07	10
Silver	ND		0.66		mg/Kg	☼	09/17/13 08:54	09/17/13 20:07	10

**Client Sample ID: S-DP-13(0-1)**

**Date Collected: 09/12/13 09:34**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-16**

**Matrix: Solid**

**Percent Solids: 83.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>3.9</b>		0.57		mg/Kg	☼	09/17/13 08:54	09/17/13 20:10	10
<b>Barium</b>	<b>110</b>		0.57		mg/Kg	☼	09/17/13 08:54	09/17/13 20:10	10
Cadmium	ND		0.57		mg/Kg	☼	09/17/13 08:54	09/17/13 20:10	10
<b>Chromium</b>	<b>78</b>		1.1		mg/Kg	☼	09/17/13 08:54	09/17/13 20:10	10
<b>Lead</b>	<b>5.3</b>		0.57		mg/Kg	☼	09/17/13 08:54	09/17/13 20:10	10
Selenium	ND		0.57		mg/Kg	☼	09/17/13 08:54	09/17/13 20:10	10
Silver	ND		0.57		mg/Kg	☼	09/17/13 08:54	09/17/13 20:10	10

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## Method: 7471A - Mercury (CVAA)

**Client Sample ID: S-DP-2(1.5-2.5)**

**Date Collected: 09/12/13 09:25**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-4**

**Matrix: Solid**

**Percent Solids: 72.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.13		mg/Kg	☼	09/17/13 16:17	09/18/13 13:36	1

**Client Sample ID: S-DP-13(0-1)**

**Date Collected: 09/12/13 09:34**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-16**

**Matrix: Solid**

**Percent Solids: 83.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.12		mg/Kg	☼	09/17/13 16:17	09/18/13 13:39	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## General Chemistry

**Client Sample ID: S-DP-2(1.5-2.5)**

**Date Collected: 09/12/13 09:25**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-4**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28		0.010		%			09/16/13 21:35	1
Percent Solids	72		0.010		%			09/16/13 21:35	1

**Client Sample ID: S-DP-4(1-2)**

**Date Collected: 09/12/13 10:30**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-6**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.010		%			09/16/13 21:35	1
Percent Solids	87		0.010		%			09/16/13 21:35	1

**Client Sample ID: S-DP-9(6.5-7.5)**

**Date Collected: 09/12/13 11:20**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-11**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.8		0.010		%			09/16/13 21:35	1
Percent Solids	91		0.010		%			09/16/13 21:35	1

**Client Sample ID: S-DP-10(1-2)**

**Date Collected: 09/12/13 11:04**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-12**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		0.010		%			09/16/13 21:35	1
Percent Solids	73		0.010		%			09/16/13 21:35	1

**Client Sample ID: S-DP-11(5-6.5)**

**Date Collected: 09/12/13 10:10**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-15**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.010		%			09/16/13 21:35	1
Percent Solids	90		0.010		%			09/16/13 21:35	1

**Client Sample ID: S-DP-13(0-1)**

**Date Collected: 09/12/13 09:34**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-16**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.010		%			09/16/13 21:35	1
Percent Solids	84		0.010		%			09/16/13 21:35	1

**Client Sample ID: S-DP-5(2.5-3.5)**

**Date Collected: 09/12/13 09:55**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-19**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		0.010		%			09/16/13 21:35	1
Percent Solids	85		0.010		%			09/16/13 21:35	1

**Client Sample ID: S-DP-21(11-12)**

**Date Collected: 09/12/13 11:44**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-23**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		0.010		%			09/16/13 21:35	1
Percent Solids	85		0.010		%			09/16/13 21:35	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## General Chemistry

**Client Sample ID: N-DP-47(1.5-2.5)**

**Date Collected: 09/11/13 14:14**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-24**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.010		%			09/16/13 21:32	1
Percent Solids	90		0.010		%			09/16/13 21:32	1

**Client Sample ID: N-DP-48(5-6)**

**Date Collected: 09/11/13 17:23**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-26**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.6		0.010		%			09/16/13 21:32	1
Percent Solids	93		0.010		%			09/16/13 21:32	1

**Client Sample ID: N-DP-49(2-3)**

**Date Collected: 09/11/13 17:40**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-27**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.7		0.010		%			09/16/13 21:32	1
Percent Solids	94		0.010		%			09/16/13 21:32	1

**Client Sample ID: N-DP-50(6-7)**

**Date Collected: 09/11/13 15:13**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-29**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		0.010		%			09/16/13 21:32	1
Percent Solids	85		0.010		%			09/16/13 21:32	1

**Client Sample ID: N-DP-52(6.5-7.5)**

**Date Collected: 09/11/13 15:40**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-32**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		0.010		%			09/16/13 21:35	1
Percent Solids	83		0.010		%			09/16/13 21:35	1

**Client Sample ID: N-DP-53(1.5-2.5)**

**Date Collected: 09/11/13 16:10**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-34**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.2		0.010		%			09/16/13 21:35	1
Percent Solids	97		0.010		%			09/16/13 21:35	1

**Client Sample ID: N-DP-54(1.5-2.5)**

**Date Collected: 09/11/13 16:35**

**Date Received: 09/13/13 09:55**

**Lab Sample ID: 250-14136-35**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		0.010		%			09/16/13 21:32	1
Percent Solids	83		0.010		%			09/16/13 21:32	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

**Lab Sample ID: MB 250-20216/1-A**

**Matrix: Solid**

**Analysis Batch: 20244**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20216**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2400	490	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Benzene	ND		98	20	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromobenzene	ND		98	20	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromochloromethane	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromodichloromethane	ND		98	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromoform	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromomethane	ND		490	27	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
2-Butanone (MEK)	ND		980	290	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
n-Butylbenzene	ND		490	51	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
sec-Butylbenzene	ND		98	20	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
tert-Butylbenzene	ND		98	13	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Carbon disulfide	ND		980	38	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Carbon tetrachloride	ND		98	19	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Chlorobenzene	ND		98	19	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Chloroethane	ND		98	22	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Chloroform	ND		98	16	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Chloromethane	ND		490	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
2-Chlorotoluene	ND		98	13	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
4-Chlorotoluene	ND		98	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dibromo-3-Chloropropane	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Dibromochloromethane	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dibromoethane	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Dibromomethane	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dichloroethane	ND		98	16	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,3-Dichlorobenzene	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,4-Dichlorobenzene	ND		98	28	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Dichlorodifluoromethane	ND		490	24	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1-Dichloroethane	ND		98	19	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1-Dichloroethene	ND		98	16	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
cis-1,2-Dichloroethene	ND		98	27	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
trans-1,2-Dichloroethene	ND		98	20	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dichloropropane	ND		98	16	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,3-Dichloropropane	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
2,2-Dichloropropane	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1-Dichloropropene	ND		98	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
cis-1,3-Dichloropropene	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
trans-1,3-Dichloropropene	ND		98	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Ethylbenzene	ND		98	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Hexachlorobutadiene	105	J	390	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
2-Hexanone	ND		980	220	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Isopropylbenzene	ND		200	35	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
p-Isopropyltoluene	ND		200	11	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
4-Methyl-2-pentanone (MIBK)	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Methyl tert-butyl ether	ND		98	13	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Methylene Chloride	ND		490	14	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Naphthalene	24.3	J	200	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
N-Propylbenzene	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Styrene	ND		98	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

**Lab Sample ID: MB 250-20216/1-A**

**Matrix: Solid**

**Analysis Batch: 20244**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20216**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		98	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1,2,2-Tetrachloroethane	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Tetrachloroethene	ND		98	26	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Toluene	ND		98	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2,3-Trichlorobenzene	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2,4-Trichlorobenzene	25.6	J	98	24	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1,1-Trichloroethane	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1,2-Trichloroethane	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Trichloroethene	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Trichlorofluoromethane	ND		98	22	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2,3-Trichloropropane	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2,4-Trimethylbenzene	ND		98	45	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,3,5-Trimethylbenzene	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Vinyl chloride	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
m,p-Xylene	ND		200	35	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
o-Xylene	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dichlorobenzene	ND		98	14	ug/Kg		09/17/13 17:00	09/18/13 07:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		75 - 125	09/17/13 17:00	09/18/13 07:35	1
4-Bromofluorobenzene (Surr)	98		75 - 125	09/17/13 17:00	09/18/13 07:35	1
Dibromofluoromethane (Surr)	96		75 - 125	09/17/13 17:00	09/18/13 07:35	1
Toluene-d8 (Surr)	99		75 - 125	09/17/13 17:00	09/18/13 07:35	1

**Lab Sample ID: LCS 250-20216/2-A**

**Matrix: Solid**

**Analysis Batch: 20244**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20216**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	1930	1800		ug/Kg		93	80 - 120
Bromobenzene	1930	1780		ug/Kg		92	80 - 120
Bromochloromethane	1930	1900		ug/Kg		98	80 - 120
Bromodichloromethane	1930	1910		ug/Kg		99	80 - 140
Bromoform	1930	1770		ug/Kg		92	75 - 150
Bromomethane	1930	2190		ug/Kg		113	65 - 130
2-Butanone (MEK)	9660	10400		ug/Kg		107	70 - 125
n-Butylbenzene	1930	1920		ug/Kg		99	80 - 150
sec-Butylbenzene	1930	2010		ug/Kg		104	80 - 135
tert-Butylbenzene	1930	1860		ug/Kg		96	80 - 130
Carbon disulfide	3860	3910		ug/Kg		101	65 - 140
Carbon tetrachloride	1930	1920		ug/Kg		99	70 - 130
Chlorobenzene	1930	1840		ug/Kg		95	80 - 125
Chloroethane	1930	2040		ug/Kg		106	75 - 125
Chloroform	1930	1830		ug/Kg		95	80 - 120
Chloromethane	1930	2280		ug/Kg		118	40 - 150
2-Chlorotoluene	1930	1830		ug/Kg		95	80 - 120
4-Chlorotoluene	1930	1880		ug/Kg		97	80 - 125

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

**Lab Sample ID: LCS 250-20216/2-A**

**Matrix: Solid**

**Analysis Batch: 20244**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20216**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	1930	1940		ug/Kg		100	60 - 130
Dibromochloromethane	1930	2010		ug/Kg		104	75 - 125
1,2-Dibromoethane	1930	1950		ug/Kg		101	80 - 125
Dibromomethane	1930	1890		ug/Kg		98	80 - 120
1,2-Dichloroethane	1930	1890		ug/Kg		98	80 - 120
1,3-Dichlorobenzene	1930	1810		ug/Kg		94	80 - 125
1,4-Dichlorobenzene	1930	1730		ug/Kg		89	75 - 120
Dichlorodifluoromethane	1930	2370	*	ug/Kg		123	75 - 120
1,1-Dichloroethane	1930	1810		ug/Kg		94	80 - 120
1,1-Dichloroethene	1930	1790		ug/Kg		93	75 - 125
cis-1,2-Dichloroethene	1930	1850		ug/Kg		96	75 - 125
trans-1,2-Dichloroethene	1930	1780		ug/Kg		92	75 - 125
1,2-Dichloropropane	1930	1850		ug/Kg		96	80 - 125
1,3-Dichloropropane	1930	1910		ug/Kg		99	75 - 130
2,2-Dichloropropane	1930	2040		ug/Kg		106	70 - 130
1,1-Dichloropropene	1930	1830		ug/Kg		94	80 - 125
cis-1,3-Dichloropropene	1930	1790		ug/Kg		93	80 - 125
trans-1,3-Dichloropropene	1930	1910		ug/Kg		99	65 - 145
Ethylbenzene	1930	1890		ug/Kg		98	80 - 125
Hexachlorobutadiene	1930	2150		ug/Kg		111	80 - 150
2-Hexanone	9660	10800		ug/Kg		112	55 - 120
Isopropylbenzene	1930	1850		ug/Kg		96	80 - 130
p-Isopropyltoluene	1930	1910		ug/Kg		99	80 - 120
4-Methyl-2-pentanone (MIBK)	9660	10900		ug/Kg		113	50 - 120
Methyl tert-butyl ether	1930	2070		ug/Kg		107	75 - 125
Methylene Chloride	1930	1890		ug/Kg		98	75 - 125
Naphthalene	1930	2030		ug/Kg		105	80 - 130
N-Propylbenzene	1930	1970		ug/Kg		102	80 - 120
Styrene	1930	1750		ug/Kg		91	80 - 125
1,1,1,2-Tetrachloroethane	1930	2040		ug/Kg		106	80 - 130
1,1,2,2-Tetrachloroethane	1930	1950		ug/Kg		101	70 - 135
Tetrachloroethene	1930	1740		ug/Kg		90	80 - 125
Toluene	1930	1790		ug/Kg		92	80 - 120
1,2,3-Trichlorobenzene	1930	1970		ug/Kg		102	80 - 145
1,2,4-Trichlorobenzene	1930	2020		ug/Kg		105	85 - 150
1,1,1-Trichloroethane	1930	1880		ug/Kg		97	80 - 125
1,1,2-Trichloroethane	1930	1890		ug/Kg		98	80 - 125
Trichloroethene	1930	1740		ug/Kg		90	80 - 125
Trichlorofluoromethane	1930	2210		ug/Kg		114	55 - 150
1,2,3-Trichloropropane	1930	1870		ug/Kg		97	65 - 125
1,2,4-Trimethylbenzene	1930	1960		ug/Kg		101	80 - 135
1,3,5-Trimethylbenzene	1930	1980		ug/Kg		102	80 - 135
Vinyl chloride	1930	1780		ug/Kg		92	10 - 140
m,p-Xylene	3860	3820		ug/Kg		99	80 - 120
o-Xylene	1930	1880		ug/Kg		98	80 - 125
1,2-Dichlorobenzene	1930	1800		ug/Kg		93	80 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

Lab Sample ID: LCS 250-20216/2-A

Matrix: Solid

Analysis Batch: 20244

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20216

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		75 - 125
4-Bromofluorobenzene (Surr)	105		75 - 125
Dibromofluoromethane (Surr)	102		75 - 125
Toluene-d8 (Surr)	103		75 - 125

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

Lab Sample ID: MB 280-191624/1-A

Matrix: Solid

Analysis Batch: 191806

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 191624

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		310	9.7	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Acenaphthylene	ND		310	16	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Acetophenone	ND		310	19	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Anthracene	ND		310	16	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Atrazine	ND		310	35	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Benzidine	ND		3100	940	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Benzo[a]anthracene	ND		310	19	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Benzo[a]pyrene	ND		310	19	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Benzo[b]fluoranthene	ND		310	25	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Benzo[g,h,i]perylene	ND		310	15	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Benzo[k]fluoranthene	ND		310	38	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Bis(2-chloroethoxy)methane	ND		310	22	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Bis(2-chloroethyl)ether	ND		310	16	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Bis(2-ethylhexyl) phthalate	ND		310	44	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Butyl benzyl phthalate	ND		310	41	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Caprolactam	ND		1500	100	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Carbazole	ND		310	34	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Chrysene	ND		310	26	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Di-n-butyl phthalate	ND		310	27	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Di-n-octyl phthalate	ND		310	14	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Dibenz(a,h)anthracene	ND		310	18	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Dibenzofuran	ND		310	19	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Diethyl phthalate	ND		620	25	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Dimethyl phthalate	31.2	J	310	22	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Fluoranthene	ND		310	34	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Fluorene	ND		310	17	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Hexachlorobenzene	ND		310	27	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Hexachlorobutadiene	ND		310	9.5	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Hexachlorocyclopentadiene	ND		1500	47	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Hexachloroethane	ND		310	20	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Indeno[1,2,3-cd]pyrene	ND		310	21	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Naphthalene	ND		310	29	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Nitrobenzene	ND		310	21	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
N-Nitrosodi-n-propylamine	ND		310	29	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		310	20	ug/Kg		09/16/13 15:40	09/17/13 12:49	1

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

**Lab Sample ID: MB 280-191624/1-A**

**Matrix: Solid**

**Analysis Batch: 191806**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 191624**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pentachlorophenol	ND		1500	310	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Phenol	ND		310	17	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Phenanthrene	ND		310	16	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
Pyrene	ND		310	11	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,2'-oxybis[1-chloropropane]	ND		310	22	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2-Chloronaphthalene	ND		310	9.5	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2-Chlorophenol	ND		310	20	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2-Methylnaphthalene	ND		310	18	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2-Methylphenol	ND		310	12	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2-Nitroaniline	ND		1500	47	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2-Nitrophenol	ND		310	9.5	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,4-Dichlorophenol	ND		310	9.5	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,4-Dimethylphenol	ND		310	62	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,4-Dinitrophenol	ND		1500	320	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,4-Dinitrotoluene	ND		310	62	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,6-Dinitrotoluene	ND		310	26	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,4,5-Trichlorophenol	ND		310	9.5	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
2,4,6-Trichlorophenol	ND		310	9.5	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
3,3'-Dichlorobenzidine	ND		620	85	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
3 & 4 Methylphenol	ND		310	31	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
3-Nitroaniline	ND		1500	69	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
4-Bromophenyl phenyl ether	ND		310	18	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
4-Chloro-3-methylphenol	ND		310	62	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
4-Chloroaniline	ND		310	78	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
4-Chlorophenyl phenyl ether	ND		310	20	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
4-Nitroaniline	ND		1500	69	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
4-Nitrophenol	ND		1500	92	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
4,6-Dinitro-2-methylphenol	ND		1500	310	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
1,4-Dichlorobenzene	ND		310	13	ug/Kg		09/16/13 15:40	09/17/13 12:49	1
1,2,4-Trichlorobenzene	ND		310	26	ug/Kg		09/16/13 15:40	09/17/13 12:49	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	78		53 - 120	09/16/13 15:40	09/17/13 12:49	1
Phenol-d5	80		52 - 120	09/16/13 15:40	09/17/13 12:49	1
Nitrobenzene-d5	72		50 - 120	09/16/13 15:40	09/17/13 12:49	1
2-Fluorobiphenyl	78		50 - 120	09/16/13 15:40	09/17/13 12:49	1
2,4,6-Tribromophenol	84		51 - 120	09/16/13 15:40	09/17/13 12:49	1
Terphenyl-d14	86		55 - 120	09/16/13 15:40	09/17/13 12:49	1

**Lab Sample ID: LCS 280-191624/2-A**

**Matrix: Solid**

**Analysis Batch: 191806**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 191624**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acenaphthene	2570	1980		ug/Kg		77	60 - 120
Acenaphthylene	2570	1910		ug/Kg		74	64 - 120
Anthracene	2570	2080		ug/Kg		81	63 - 120
Benzo[a]anthracene	2570	2130		ug/Kg		83	65 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

Lab Sample ID: LCS 280-191624/2-A

Matrix: Solid

Analysis Batch: 191806

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 191624

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	2570	2190		ug/Kg		85	59 - 120
Benzo[b]fluoranthene	2570	2360		ug/Kg		92	47 - 129
Benzo[g,h,i]perylene	2570	2290		ug/Kg		89	55 - 126
Benzo[k]fluoranthene	2570	2220		ug/Kg		86	48 - 130
Bis(2-chloroethoxy)methane	2570	1810		ug/Kg		70	56 - 120
Bis(2-chloroethyl)ether	2570	1850		ug/Kg		72	51 - 120
Bis(2-ethylhexyl) phthalate	2570	2070		ug/Kg		81	65 - 120
Butyl benzyl phthalate	2570	2140		ug/Kg		83	65 - 120
Carbazole	2570	2070		ug/Kg		81	64 - 120
Chrysene	2570	2060		ug/Kg		80	64 - 120
Di-n-butyl phthalate	2570	2170		ug/Kg		84	67 - 120
Di-n-octyl phthalate	2570	2130		ug/Kg		83	66 - 120
Dibenz(a,h)anthracene	2570	2290		ug/Kg		89	50 - 133
Dibenzofuran	2570	2010		ug/Kg		78	61 - 120
Diethyl phthalate	2570	2120		ug/Kg		82	66 - 120
Dimethyl phthalate	2570	2180		ug/Kg		85	65 - 120
Fluoranthene	2570	2190		ug/Kg		85	66 - 120
Fluorene	2570	2070		ug/Kg		80	64 - 120
Hexachlorobenzene	2570	2130		ug/Kg		83	62 - 120
Hexachlorobutadiene	2570	1950		ug/Kg		76	53 - 120
Hexachlorocyclopentadiene	2570	1140	J *	ug/Kg		44	47 - 120
Hexachloroethane	2570	1720		ug/Kg		67	51 - 120
Indeno[1,2,3-cd]pyrene	2570	2270		ug/Kg		88	63 - 120
Naphthalene	2570	1860		ug/Kg		72	57 - 120
Nitrobenzene	2570	1790		ug/Kg		69	54 - 120
N-Nitrosodi-n-propylamine	2570	1910		ug/Kg		74	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	2570	2060		ug/Kg		80	61 - 120
Pentachlorophenol	5140	3820		ug/Kg		74	56 - 120
Phenol	2570	1950		ug/Kg		76	56 - 120
Phenanthrene	2570	2090		ug/Kg		81	64 - 120
Pyrene	2570	2060		ug/Kg		80	64 - 120
2,2'-oxybis[1-chloropropane]	2570	1720		ug/Kg		67	49 - 120
2-Chloronaphthalene	2570	1930		ug/Kg		75	59 - 120
2-Chlorophenol	2570	1990		ug/Kg		77	57 - 120
2-Methylnaphthalene	2570	1960		ug/Kg		76	57 - 120
2-Methylphenol	2570	1910		ug/Kg		74	56 - 120
2-Nitroaniline	2570	1880		ug/Kg		73	63 - 120
2-Nitrophenol	2570	2100		ug/Kg		82	56 - 120
2,4-Dichlorophenol	2570	2050		ug/Kg		80	60 - 120
2,4-Dimethylphenol	2570	1940		ug/Kg		75	54 - 120
2,4-Dinitrophenol	5140	4090		ug/Kg		79	46 - 120
2,4-Dinitrotoluene	2570	2260		ug/Kg		88	68 - 120
2,6-Dinitrotoluene	2570	2120		ug/Kg		82	64 - 120
2,4,5-Trichlorophenol	2570	2150		ug/Kg		83	64 - 120
2,4,6-Trichlorophenol	2570	2180		ug/Kg		85	61 - 120
3,3'-Dichlorobenzidine	2570	1510		ug/Kg		59	30 - 120
3 & 4 Methylphenol	2570	1970		ug/Kg		76	53 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

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

**Lab Sample ID: LCS 280-191624/2-A**

**Matrix: Solid**

**Analysis Batch: 191806**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 191624**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	2570	1770		ug/Kg		69	47 - 120
4-Bromophenyl phenyl ether	2570	2140		ug/Kg		83	64 - 120
4-Chloro-3-methylphenol	2570	2130		ug/Kg		83	63 - 120
4-Chloroaniline	2570	1450		ug/Kg		56	28 - 120
4-Chlorophenyl phenyl ether	2570	2070		ug/Kg		80	64 - 120
4-Nitroaniline	2570	2020		ug/Kg		78	64 - 120
4-Nitrophenol	5140	4120		ug/Kg		80	63 - 121
4,6-Dinitro-2-methylphenol	5140	4520		ug/Kg		88	57 - 120
1,4-Dichlorobenzene	2570	1870		ug/Kg		73	52 - 120
1,2,4-Trichlorobenzene	2570	1940		ug/Kg		75	52 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	76		53 - 120
Phenol-d5	77		52 - 120
Nitrobenzene-d5	70		50 - 120
2-Fluorobiphenyl	75		50 - 120
2,4,6-Tribromophenol	88		51 - 120
Terphenyl-d14	85		55 - 120

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-20183/1-A**

**Matrix: Solid**

**Analysis Batch: 20224**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20183**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.0		mg/Kg		09/17/13 10:41	09/17/13 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	104		50 - 150	09/17/13 10:41	09/17/13 11:31	1

**Lab Sample ID: LCS 250-20183/2-A**

**Matrix: Solid**

**Analysis Batch: 20224**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20183**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	24.8	25.9		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	106		50 - 150

**Lab Sample ID: MB 250-20185/1-A**

**Matrix: Solid**

**Analysis Batch: 20228**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20185**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.0		mg/Kg		09/17/13 10:51	09/17/13 11:35	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 250-20185/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20228**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20185**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene (fid)	111		50 - 150	09/17/13 10:51	09/17/13 11:35	1

**Lab Sample ID: LCS 250-20185/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20228**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20185**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Gasoline Range Hydrocarbons	24.7	30.7		mg/Kg		125	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene (fid)	113		50 - 150

**Lab Sample ID: 250-14136-15 MS**  
**Matrix: Solid**  
**Analysis Batch: 20228**

**Client Sample ID: S-DP-11(5-6.5)**  
**Prep Type: Total/NA**  
**Prep Batch: 20185**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Gasoline Range Hydrocarbons	ND		34.3	36.8		mg/Kg	☼	97	65 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene (fid)	98		50 - 150

**Lab Sample ID: 250-14136-12 DU**  
**Matrix: Solid**  
**Analysis Batch: 20228**

**Client Sample ID: S-DP-10(1-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 20185**

Analyte	Sample Result	Sample Qualifier	Spike Added	DU DU		Unit	D	RPD	Limit
				Result	Qualifier				
Gasoline Range Hydrocarbons	ND		ND	ND		mg/Kg	☼	NC	40

Surrogate	DU DU		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene (fid)	100		50 - 150

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-20174/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20155**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20174**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
DRO (C10-C25)	ND		12		mg/Kg		09/17/13 05:36	09/17/13 17:39	1
RRO (nC25-nC36)	ND		25		mg/Kg		09/17/13 05:36	09/17/13 17:39	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctadecane	93		50 - 150	09/17/13 05:36	09/17/13 17:39	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 250-20174/1-B**

**Matrix: Solid**

**Analysis Batch: 20154**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20174**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		12		mg/Kg		09/17/13 05:36	09/17/13 17:39	1
RRO (nC25-nC36)	ND		25		mg/Kg		09/17/13 05:36	09/17/13 17:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	107		50 - 150				09/17/13 05:36	09/17/13 17:39	1

**Lab Sample ID: LCS 250-20174/2-A**

**Matrix: Solid**

**Analysis Batch: 20155**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20174**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C25)	124	123		mg/Kg		100	50 - 150
RRO (nC25-nC36)	74.2	71.9		mg/Kg		97	50 - 150
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctadecane	105		50 - 150				

**Lab Sample ID: LCS 250-20174/2-B**

**Matrix: Solid**

**Analysis Batch: 20154**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20174**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C25)	124	129		mg/Kg		105	50 - 150
RRO (nC25-nC36)	74.2	76.9		mg/Kg		104	50 - 150
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctadecane	112		50 - 150				

**Lab Sample ID: MB 250-20284/1-B**

**Matrix: Solid**

**Analysis Batch: 20346**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20284**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		12		mg/Kg		09/19/13 08:44	09/19/13 11:43	1
RRO (nC25-nC36)	ND		25		mg/Kg		09/19/13 08:44	09/19/13 11:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	91		50 - 150				09/19/13 08:44	09/19/13 11:43	1

**Lab Sample ID: LCS 250-20284/2-B**

**Matrix: Solid**

**Analysis Batch: 20346**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20284**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C25)	124	124		mg/Kg		100	50 - 150
RRO (nC25-nC36)	74.6	73.9		mg/Kg		99	50 - 150

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 250-20284/2-B**  
**Matrix: Solid**  
**Analysis Batch: 20346**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20284**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctadecane	103		50 - 150

**Lab Sample ID: 250-14136-15 DU**  
**Matrix: Solid**  
**Analysis Batch: 20346**

**Client Sample ID: S-DP-11(5-6.5)**  
**Prep Type: Total/NA**  
**Prep Batch: 20284**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
DRO (C10-C25)	ND		ND		mg/Kg	☼	NC	40
RRO (nC25-nC36)	ND		ND		mg/Kg	☼	22	40

Surrogate	DU		Limits
	%Recovery	Qualifier	
1-Chlorooctadecane	77		50 - 150

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

**Lab Sample ID: MB 250-20179/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20218**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20179**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.48		mg/Kg		09/17/13 08:54	09/17/13 17:27	10
Barium	ND		0.48		mg/Kg		09/17/13 08:54	09/17/13 17:27	10
Cadmium	ND		0.48		mg/Kg		09/17/13 08:54	09/17/13 17:27	10
Chromium	ND		0.95		mg/Kg		09/17/13 08:54	09/17/13 17:27	10
Lead	ND		0.48		mg/Kg		09/17/13 08:54	09/17/13 17:27	10
Selenium	ND		0.48		mg/Kg		09/17/13 08:54	09/17/13 17:27	10
Silver	ND		0.48		mg/Kg		09/17/13 08:54	09/17/13 17:27	10

**Lab Sample ID: LCS 250-20179/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20218**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20179**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	49.1	49.1		mg/Kg		100	80 - 120
Barium	49.1	51.7		mg/Kg		105	80 - 120
Cadmium	49.1	53.0		mg/Kg		108	80 - 120
Chromium	49.1	51.5		mg/Kg		105	80 - 120
Lead	49.1	53.5		mg/Kg		109	80 - 120
Selenium	49.1	50.6		mg/Kg		103	80 - 120
Silver	24.5	26.8		mg/Kg		109	80 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 250-20208/10-A

Matrix: Solid

Analysis Batch: 20254

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20208

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.089		mg/Kg		09/17/13 16:17	09/18/13 13:22	1

Lab Sample ID: LCS 250-20208/11-A

Matrix: Solid

Analysis Batch: 20254

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20208

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.525	0.517		mg/Kg		98	80 - 120

## Method: D2216-80 - Percent Dry Weight (Solids) per ASTM D2216-80

Lab Sample ID: 250-14136-4 DU

Matrix: Solid

Analysis Batch: 20170

Client Sample ID: S-DP-2(1.5-2.5)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Percent Moisture	28		28		%		1	20
Percent Solids	72		72		%		0.4	20

# Certification Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

## Laboratory: TestAmerica Portland

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14

## Laboratory: TestAmerica Denver

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	11-30-13
A2LA	ISO/IEC 17025		2907.01	11-30-13
Alaska (UST)	State Program	10	UST-30	04-05-14
Arizona	State Program	9	AZ0713	12-19-13
Arkansas DEQ	State Program	6	88-0687	06-01-14
California	ELAP	9	2513	08-31-14
Colorado	State Program	8	N/A	09-30-14
Connecticut	State Program	1	PH-0686	09-30-14
Florida	NELAP	4	E87667	06-30-14
Idaho	State Program	10	CO00026	09-30-13
Illinois	NELAP	5	200017	04-30-14
Iowa	State Program	7	370	12-01-14
Kansas	NELAP	7	E-10166	04-30-14
Louisiana	NELAP	6	30785	06-30-14 *
Maine	State Program	1	CO0002	03-03-15
Maryland	State Program	3	268	03-31-14
Minnesota	NELAP	5	8-999-405	12-31-13
Nevada	State Program	9	CO0026	09-01-14
New Hampshire	NELAP	1	205310	04-28-14
New Jersey	NELAP	2	CO004	06-30-14
New Mexico	State Program	6	CO00026	06-30-14 *
New York	NELAP	2	11964	04-01-14
North Carolina DENR	State Program	4	358	12-31-13
North Dakota	State Program	8	R-034	06-30-14 *
Oklahoma	State Program	6	8614	08-31-14
Oregon	NELAP	10	CO200001	01-16-14
Pennsylvania	NELAP	3	68-00664	07-30-14
South Carolina	State Program	4	72002	06-30-14 *
Tennessee	State Program	4	TN02944	09-30-13
Texas	NELAP	6	T104704183-08-TX	10-01-14
USDA	Federal		P330-13-00202	07-02-16
Utah	NELAP	8	CO000262012-4	07-31-14
Virginia	NELAP	3	460232	06-14-14
Washington	State Program	10	C583	08-03-14
West Virginia DEP	State Program	3	354	11-30-13
Wisconsin	State Program	5	999615430	08-31-14
Wyoming (UST)	A2LA	8		11-30-13

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

# Method Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14136-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PRT
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL PRT
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL PRT
6020	Metals (ICP/MS)	SW846	TAL PRT
7471A	Mercury (CVAA)	SW846	TAL PRT
D2216-80	Percent Dry Weight (Solids) per ASTM D2216-80	ASTM	TAL PRT

**Protocol References:**

ASTM = ASTM International

NWTPH = Northwest Total Petroleum Hydrocarbon

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

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

**TestAmerica Portland**

9405 SW Nimbus Avenue

**Chain of Custody**



250-14136 Chain of Custody

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

Beaverton, OR 97008  
phone 503.906.9200 fax 503.906.9210

Regulatory Program:  DW  NPDES  RCRA

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: <u>J Lamb</u>		Site Contact: <u>ETH</u>		Date: <u>9/12/13</u>		COC No:	
Your Company Name here <u>GeoEngineers</u>		Tel/Fax:		Lab Contact:		Carrier: <u>UPS</u>		of COCs	
Address <u>523 e 2nd Ave</u>		Analysis Turnaround Time							
City/State/Zip <u>Spokane WA 99202</u>		<input type="checkbox"/> CALENDAR DAYS		<input checked="" type="checkbox"/> WORKING DAYS					
(xxx) xxx-xxxx		TAT if different from Below							
Phones <u>509 343 3125</u>		<input type="checkbox"/> 2 weeks							
(xxx) xxx-xxxx		<input checked="" type="checkbox"/> 1 week							
FAX		<input type="checkbox"/> 2 days							
Project Name: <u>Cashmere Mill Site</u>		<input type="checkbox"/> 1 day							
Site: <u>Cashmere</u>									
P O # <u>18593 001 02</u>									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	
* S-DP-1A (2-3)		9/12/13	0820	G	S	2			
* S-DP-1A (5.5-6.5)			0828						
* S-DP-1A (10-11)			0826						
* S-DP-2 (1.5-2.5)			0925					XX	XX
* S-DP-2 (7.5-8.5)									
* S-DP-4 (1-2)			1030					XX	
* S-DP-4 (5-6)			1035						
* S-DP-4 (10-10.5)			1040						
* S-DP-4A (2-3)			1100						
* S-DP-9 (3-4)			1115						
* S-DP-9 (6.5-7.5)			1120					XX	
* S-DP-10 (1-2)			1104					XX	
Preservation Used: 1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for <u>1</u> Months				
Special Instructions/QC Requirements & Comments: METALS = ARSENIC, BARIUM, CADMIUM, CHROMIUM, MERCURY, LEAD, SELENIUM, AND SILVER									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____		Corr'd: _____		Therm ID No.:	
Relinquished by: <u>Dave Thompson</u>		Company: <u>GeoEngineers</u>		Date/Time:		Received by: <u>Tom Krause</u>		Company: <u>TA</u>	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:	

For Lab Use Only:

Walk-in Client:

Lab Sampling:

Job / SDG No.:

Sampler:

Sample Specific Notes:

Random ms/msd

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11/13/2013



Beaverton, OR 97008  
phone 503.906.9200 fax 503.906.9210

Regulatory Program:  DW  NPDES  RCRA  Other:

TestAmerica Laboratories, Inc.

Client Contact		Project Manager:		Site Contact:		Date: 9/12/13		COC No:	
Your Company Name here: <b>GeoEngineers</b>		Tel/Fax:		Lab Contact:		Carrier: <b>LPS</b>		_____ of _____ COCs	
Address: <b>523 E 2nd Ave</b>		Analysis Turnaround Time							
City/State/Zip: <b>SPOKANE WA 99202</b>		<input type="checkbox"/> CALENDAR DAYS		<input checked="" type="checkbox"/> WORKING DAYS					
(xxx) xxx-xxxx Phone: <b>509 363 3125</b>		TAT if different from Below _____							
(xxx) xxx-xxxx FAX:		<input type="checkbox"/> 2 weeks							
Project Name: <b>Cashmere Mill Site</b>		<input checked="" type="checkbox"/> 1 week							
Site: <b>Cashmere</b>		<input type="checkbox"/> 2 days							
PO# <b>18593 001 02</b>		<input type="checkbox"/> 1 day							

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Other	For Lab Use Only:
* S-DP-10(7-8)	9/12/13	1106	G	S	2				Random MS/MSD
X S-DP-11(0-1)		1007							
X S-DP-11(5-6.5)		1010					XX		
X S-DP-13(0-1)		0934					XXXXX		
X S-DP-13(6-7)		0936							
X S-DP-13(11-12)		0940							
X S-DP-5(2.5-3.5)		0955					XX		
X S-DP-5A(7-8)		1005							
X S-DP-21(0-1)		1140							
X S-DP-21(5-6)		1142							
X S-DP-21(11-12)		1144					XX		

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

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

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client  Disposal by Lab  Archive for 1 Months

Special Instructions/QC Requirements & Comments:

**METALS = ARSENIC, BARIUM, CADMIUM, CHROMIUM, MERCURY, LEAD, SELENIUM + SILVER**

12/13/13 1:00 PM

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____	Corr'd: _____	Therm ID No.:
Relinquished by: <b>Dave Thompson</b>	Company: <b>GeoEngineers</b>	Date/Time: <b>9/12 1415</b>	Received by: <b>Tom Knowlton</b>	Company: <b>TAP</b>
Relinquished by:	Company:	Date/Time:	Received by:	Company:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:

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11/13/2013

Beaverton, OR 97008  
phone 503.906.9200 fax 503.906.9210

Regulatory Program:  DW  NPDES  RCRA  Other:

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: <u>J Lamb</u>			Site Contact: <u>ELH</u>		Date: <u>7/12/13</u>		COC No:	
Your Company Name here <u>Geo Engineers</u>		Tel/Fax:			Lab Contact:		Carrier: <u>UPS</u>		_____ of _____ COCs	
Address <u>523 E 2nd Ave</u>		Analysis Turnaround Time			Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.: Sampler: Sample Specific Notes:	
City/State/Zip <u>Spokane WA 99202</u>		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS								
(xxx) xxx-xxxx Phone <u>509 363 3125</u>		TAT if different from Below								
(xxx) xxx-xxxx FAX		<input type="checkbox"/> 2 weeks <input checked="" type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day								
Project Name: <u>Cashmere mill st</u>		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.				
Site: <u>Cashmere</u>										
P O # <u>18593 001 02</u>										
1. N-DR-47 (1.5-2.5)		9/11/13	1414	G	S	2	X	X		
2. N-DR-48 (1-2)			1720							
3. N-DR-48 (5-6)			1723				X	X		
4. N-DR-49 (2-3)			1740				X	X		
5. N-DR-50 (2-3)			1510							
6. N-DR-50 (6-7)			1513				X	X		
7. N-DR-50 (10-11)			1516							
8. N-DR-52 (1-2)			1520							
9. N-DR-52 (6.5-7.5)			1540				X	X		
10. N-DR-52 (12.5-13.5)			1545							
11. N-DR-53 (1.5-2.5)			1610				X	X		
12. N-DR-54 (1.5-2.5)			1635				X	X		
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for <u>1</u> Months				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										
Special Instructions/QC Requirements & Comments: METALS = ARSENIC, BARIUM, CADMIUM, CHROMIUM, MERCURY, LEAD, SELENIUM, AND SILVER										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:			Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____			
Relinquished by: <u>Dave Thompson</u>		Company: <u>Geo Engineers</u>			Date/Time: <u>9/12 1415</u>		Received by: <u>Tom Krause</u>		Company: <u>TAJ</u>	
Relinquished by:		Company:			Date/Time:		Received by:		Date/Time: <u>09/13/13 0955</u>	
Relinquished by:		Company:			Date/Time:		Received in Laboratory by:		Date/Time:	

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11/13/2013



## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14136-1

**Login Number: 14136**

**List Source: TestAmerica Portland**

**List Number: 1**

**Creator: Svabik-Seror, Philip M**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14136-1

**Login Number: 14136**

**List Number: 1**

**Creator: Roman, Alex F**

**List Source: TestAmerica Denver**

**List Creation: 09/14/13 04:02 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Portland  
9405 SW Nimbus Ave.  
Beaverton, OR 97008  
Tel: (503)906-9200

TestAmerica Job ID: 250-14161-1  
Client Project/Site: Cashmere Mill  
Revision: 2

For:  
GeoEngineers Inc  
523 East Second Ave  
Spokane, Washington 99202

Attn: Jodie Lamb



Authorized for release by:  
11/19/2013 2:54:45 PM

Vanessa Berry, Project Manager I  
(503)906-9233  
[vanessa.frahs@testamericainc.com](mailto:vanessa.frahs@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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

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# Sample Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-14161-1	S-DP-7(1-2)	Solid	09/12/13 12:35	09/16/13 09:32
250-14161-2	S-DP-7(6.5-7.5)	Solid	09/12/13 12:40	09/16/13 09:32
250-14161-4	S-DP-8(6.5-7.5)	Solid	09/12/13 13:00	09/16/13 09:32
250-14161-5	S-DP-14(1.5-2.5)	Solid	09/12/13 12:45	09/16/13 09:32
250-14161-6	S-DP-14(5-6)	Solid	09/12/13 12:47	09/16/13 09:32
250-14161-7	S-DP-15(2-3)	Solid	09/12/13 13:30	09/16/13 09:32
250-14161-10	S-DP-16(5-6)	Solid	09/12/13 13:43	09/16/13 09:32
250-14161-11	S-DP-18(0-1)	Solid	09/12/13 14:10	09/16/13 09:32
250-14161-14	S-DP-20A(2.5-3.5)	Solid	09/12/13 14:05	09/16/13 09:32
250-14161-17	S-DP-22(6-7)	Solid	09/13/13 09:10	09/16/13 09:32
250-14161-18	S-DP-23(2-3)	Solid	09/13/13 10:05	09/16/13 09:32
250-14161-20	S-DP-24(2-3)	Solid	09/13/13 09:30	09/16/13 09:32
250-14161-23	S-DP-25(5-6)	Solid	09/13/13 09:50	09/16/13 09:32
250-14161-24	S-DP-26(1-2)	Solid	09/12/13 17:35	09/16/13 09:32
250-14161-26	S-DP-27(3-4)	Solid	09/12/13 14:45	09/16/13 09:32
250-14161-30	S-DP-28(3-4)	Solid	09/12/13 16:45	09/16/13 09:32
250-14161-33	S-DP-29(8-9)	Solid	09/12/13 16:30	09/16/13 09:32
250-14161-34	S-DP-30(1-2)	Solid	09/12/13 14:36	09/16/13 09:32
250-14161-36	S-DP-32(3-4)	Solid	09/12/13 16:55	09/16/13 09:32
250-14161-38	S-DP-37(1-2)	Solid	09/13/13 10:35	09/16/13 09:32
250-14161-40	S-DP-39(2-3)	Solid	09/12/13 17:15	09/16/13 09:32
250-14161-43	S-DP-42(5-6)	Solid	09/13/13 10:16	09/16/13 09:32
250-14161-45	S-DP-42(19-20)	Solid	09/13/13 10:38	09/16/13 09:32
250-14161-46	S-DP-50(3-4)	Solid	09/12/13 17:25	09/16/13 09:32
250-14161-49	S-DP-53(7-8)	Solid	09/13/13 10:45	09/16/13 09:32
250-14161-50	S-DP-35(2-3)	Solid	09/12/13 16:00	09/16/13 09:32
250-14161-52	S-DP-40(1-2)	Solid	09/12/13 16:25	09/16/13 09:32

# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

**Job ID: 250-14161-1**

**Laboratory: TestAmerica Portland**

## Narrative

### Job Narrative 250-14161-1

#### Comments

Revised Report 2: Dx and Dx with silica gel cleanup are listed separately on the results pages.  
Revised Report: Includes 8260 VOC and 8270 SVOC results down to the MDL.

#### Receipt

The samples were received on 9/16/2013 9:32 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.3° C, 3.5° C and 5.3° C.

Except:

S-DP-30(5.5-6) (250-14161-35) COC indicates a sample ID of "S-DP-30(5.5-6)." However, containers are labeled with and ID of "S-DP-30(5-6)." Logged in per COC.

#### GC/MS VOA

Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 20244 recovered outside control limits for the following analytes: dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method 8270C: The following samples were diluted due to the abundance of non-target analytes: (250-14161-1 MS), (250-14161-1 MSD), S-DP-7(1-2) (250-14161-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

#### GC VOA

Method NWTPH-Gx: The reported GX values for the following sample(s) is due to diesel overlap. S-DP-7(1-2) (250-14161-1)

No other analytical or quality issues were noted.

#### GC Semi VOA

Method NWTPH-Dx: Detected hydrocarbons appear to be due to biogenic interference. (250-14151-1 DU), S-1, 9-12-13, 0-6"bgs (250-14151-1)

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to oil overlap. S-DP-26(1-2) (250-14161-24), S-DP-28(3-4) (250-14161-30)

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to weathered diesel. S-DP-7(1-2) (250-14161-1)

Method NWTPH-Dx: Detected hydrocarbons appear to be due to individual peaks as well as oil. S-DP-15(2-3) (250-14161-7)

Method NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to mainly oil overlap, but there is diesel present.

No other analytical or quality issues were noted.

#### Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 20180 were outside control limits Ba Ni Sb. The associated laboratory control sample (LCS) recovery met acceptance criteria. (250-14161-14 MS), (250-14161-14 MSD)

No other analytical or quality issues were noted.

# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

---

## Job ID: 250-14161-1 (Continued)

---

### Laboratory: TestAmerica Portland (Continued)

#### Organic Prep

No analytical or quality issues were noted.

#### VOA Prep

No analytical or quality issues were noted.

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# Definitions/Glossary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## 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.
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.

### GC/MS Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
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.
F	MS/MSD Recovery and/or RPD exceeds the control limits
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits

### General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

## Glossary

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

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Client Sample ID: S-DP-7(1-2)**

**Date Collected: 09/12/13 12:35**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-1**

**Matrix: Solid**

**Percent Solids: 79.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		4100	810	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Benzene	ND		160	32	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Bromobenzene	ND		160	32	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Bromochloromethane	ND		160	39	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Bromodichloromethane	ND		160	24	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Bromoform	ND		810	160	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Bromomethane	ND		810	45	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
2-Butanone (MEK)	ND		1600	490	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
n-Butylbenzene	ND		810	84	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
sec-Butylbenzene	ND		160	32	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
tert-Butylbenzene	ND		160	21	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Carbon disulfide	ND		1600	63	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Carbon tetrachloride	ND		160	31	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Chlorobenzene	ND		160	31	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Chloroethane	ND		160	36	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Chloroform	ND		160	26	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Chloromethane	ND		810	24	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
2-Chlorotoluene	ND		160	21	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
4-Chlorotoluene	ND		160	29	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,2-Dibromo-3-Chloropropane	ND		810	160	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Dibromochloromethane	ND		160	28	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,2-Dibromoethane	ND		160	28	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Dibromomethane	ND		160	34	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,2-Dichloroethane	ND		160	26	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,3-Dichlorobenzene	ND		160	28	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,4-Dichlorobenzene	ND		160	47	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Dichlorodifluoromethane	ND	*	810	41	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,1-Dichloroethane	ND		160	31	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,1-Dichloroethene	ND		160	26	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
cis-1,2-Dichloroethene	ND		160	45	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
trans-1,2-Dichloroethene	ND		160	32	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,2-Dichloropropane	ND		160	26	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,3-Dichloropropane	ND		160	28	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
2,2-Dichloropropane	ND		160	28	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,1-Dichloropropene	ND		160	24	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
cis-1,3-Dichloropropene	ND		160	28	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
trans-1,3-Dichloropropene	ND		160	24	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Ethylbenzene	ND		160	29	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Hexachlorobutadiene	ND		650	29	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
2-Hexanone	ND		1600	360	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Isopropylbenzene	ND		320	58	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
<b>p-Isopropyltoluene</b>	<b>40</b>	<b>J</b>	320	18	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
4-Methyl-2-pentanone (MIBK)	ND		810	160	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Methyl tert-butyl ether	ND		160	21	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Methylene Chloride	ND		810	23	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
<b>Naphthalene</b>	<b>51</b>	<b>J B</b>	320	39	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
N-Propylbenzene	ND		160	34	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Styrene	ND		160	29	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,1,1,2-Tetrachloroethane	ND		160	29	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Client Sample ID: S-DP-7(1-2)**  
**Date Collected: 09/12/13 12:35**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-1**  
**Matrix: Solid**  
**Percent Solids: 79.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		160	39	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Tetrachloroethene	ND		160	44	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
<b>Toluene</b>	<b>47</b>	<b>J</b>	160	24	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,2,3-Trichlorobenzene	ND		810	160	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,2,4-Trichlorobenzene	ND		160	41	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,1,1-Trichloroethane	ND		160	34	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,1,2-Trichloroethane	ND		160	39	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Trichloroethene	ND		160	34	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Trichlorofluoromethane	ND		160	36	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,2,3-Trichloropropane	ND		160	34	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
<b>1,2,4-Trimethylbenzene</b>	<b>110</b>	<b>J</b>	160	75	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,3,5-Trimethylbenzene	ND		160	39	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
Vinyl chloride	ND		810	160	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
m,p-Xylene	ND		320	58	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
o-Xylene	ND		160	37	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
1,2-Dichlorobenzene	ND		160	23	ug/Kg	☼	09/17/13 17:00	09/18/13 09:13	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	100		75 - 125				09/17/13 17:00	09/18/13 09:13	1
4-Bromofluorobenzene (Surr)	103		75 - 125				09/17/13 17:00	09/18/13 09:13	1
Dibromofluoromethane (Surr)	97		75 - 125				09/17/13 17:00	09/18/13 09:13	1
Toluene-d8 (Surr)	100		75 - 125				09/17/13 17:00	09/18/13 09:13	1

**Client Sample ID: S-DP-14(1.5-2.5)**  
**Date Collected: 09/12/13 12:45**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-5**  
**Matrix: Solid**  
**Percent Solids: 97.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		3100	620	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Benzene	ND		120	25	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Bromobenzene	ND		120	25	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Bromochloromethane	ND		120	30	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Bromodichloromethane	ND		120	18	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Bromoform	ND		620	120	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Bromomethane	ND		620	35	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
2-Butanone (MEK)	ND		1200	370	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
n-Butylbenzene	ND		620	64	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
sec-Butylbenzene	ND		120	25	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
tert-Butylbenzene	ND		120	16	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Carbon disulfide	ND		1200	48	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Carbon tetrachloride	ND		120	23	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Chlorobenzene	ND		120	23	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Chloroethane	ND		120	27	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Chloroform	ND		120	20	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Chloromethane	ND		620	18	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
2-Chlorotoluene	ND		120	16	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
4-Chlorotoluene	ND		120	22	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,2-Dibromo-3-Chloropropane	ND		620	120	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Dibromochloromethane	ND		120	21	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,2-Dibromoethane	ND		120	21	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Dibromomethane	ND		120	26	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Client Sample ID: S-DP-14(1.5-2.5)**

**Date Collected: 09/12/13 12:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-5**

**Matrix: Solid**

**Percent Solids: 97.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		120	20	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,3-Dichlorobenzene	ND		120	21	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,4-Dichlorobenzene	ND		120	36	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Dichlorodifluoromethane	ND		620	31	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,1-Dichloroethane	ND		120	23	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,1-Dichloroethene	ND		120	20	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
cis-1,2-Dichloroethene	ND		120	35	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
trans-1,2-Dichloroethene	ND		120	25	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,2-Dichloropropane	ND		120	20	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,3-Dichloropropane	ND		120	21	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
2,2-Dichloropropane	ND		120	21	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,1-Dichloropropene	ND		120	18	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
cis-1,3-Dichloropropene	ND		120	21	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
trans-1,3-Dichloropropene	ND		120	18	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Ethylbenzene	ND		120	22	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Hexachlorobutadiene	ND		490	22	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
2-Hexanone	ND		1200	270	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Isopropylbenzene	ND		250	44	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
<b>p-Isopropyltoluene</b>	<b>20</b>	<b>J</b>	250	14	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
4-Methyl-2-pentanone (MIBK)	ND		620	120	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Methyl tert-butyl ether	ND		120	16	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Methylene Chloride	ND		620	17	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Naphthalene	ND		250	30	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
N-Propylbenzene	ND		120	26	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Styrene	ND		120	22	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,1,1,2-Tetrachloroethane	ND		120	22	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,1,2,2-Tetrachloroethane	ND		120	30	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Tetrachloroethene	ND		120	33	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Toluene	ND		120	18	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,2,3-Trichlorobenzene	ND		620	120	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,2,4-Trichlorobenzene	ND		120	31	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,1,1-Trichloroethane	ND		120	26	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,1,2-Trichloroethane	ND		120	30	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Trichloroethene	ND		120	26	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Trichlorofluoromethane	ND		120	27	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,2,3-Trichloropropane	ND		120	26	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,2,4-Trimethylbenzene	ND		120	57	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,3,5-Trimethylbenzene	ND		120	30	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
Vinyl chloride	ND		620	120	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
m,p-Xylene	ND		250	44	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
o-Xylene	ND		120	28	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1
1,2-Dichlorobenzene	ND		120	17	ug/Kg	☼	09/25/13 16:07	09/26/13 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 125	09/25/13 16:07	09/26/13 14:13	1
4-Bromofluorobenzene (Surr)	92		75 - 125	09/25/13 16:07	09/26/13 14:13	1
Dibromofluoromethane (Surr)	89		75 - 125	09/25/13 16:07	09/26/13 14:13	1
Toluene-d8 (Surr)	93		75 - 125	09/25/13 16:07	09/26/13 14:13	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Client Sample ID: S-DP-20A(2.5-3.5)**

**Date Collected: 09/12/13 14:05**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-14**

**Matrix: Solid**

**Percent Solids: 77.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		4600	920	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Benzene	ND		180	37	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Bromobenzene	ND		180	37	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Bromochloromethane	ND		180	44	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Bromodichloromethane	ND		180	28	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Bromoform	ND		920	180	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Bromomethane	ND		920	52	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
2-Butanone (MEK)	ND		1800	550	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
n-Butylbenzene	ND		920	96	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
sec-Butylbenzene	ND		180	37	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
tert-Butylbenzene	ND		180	24	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Carbon disulfide	ND		1800	72	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Carbon tetrachloride	ND		180	35	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Chlorobenzene	ND		180	35	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Chloroethane	ND		180	41	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Chloroform	ND		180	30	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Chloromethane	ND		920	28	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
2-Chlorotoluene	ND		180	24	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
4-Chlorotoluene	ND		180	33	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,2-Dibromo-3-Chloropropane	ND		920	180	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Dibromochloromethane	ND		180	31	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,2-Dibromoethane	ND		180	31	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Dibromomethane	ND		180	39	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,2-Dichloroethane	ND		180	30	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,3-Dichlorobenzene	ND		180	31	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,4-Dichlorobenzene	ND		180	54	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Dichlorodifluoromethane	ND *		920	46	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,1-Dichloroethane	ND		180	35	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,1-Dichloroethene	ND		180	30	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
cis-1,2-Dichloroethene	ND		180	52	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
trans-1,2-Dichloroethene	ND		180	37	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,2-Dichloropropane	ND		180	30	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,3-Dichloropropane	ND		180	31	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
2,2-Dichloropropane	ND		180	31	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,1-Dichloropropene	ND		180	28	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
cis-1,3-Dichloropropene	ND		180	31	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
trans-1,3-Dichloropropene	ND		180	28	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Ethylbenzene	ND		180	33	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Hexachlorobutadiene	ND		740	33	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
2-Hexanone	ND		1800	410	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Isopropylbenzene	ND		370	67	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
p-Isopropyltoluene	ND		370	20	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
4-Methyl-2-pentanone (MIBK)	ND		920	180	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Methyl tert-butyl ether	ND		180	24	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Methylene Chloride	ND		920	26	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Naphthalene	ND		370	44	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
N-Propylbenzene	ND		180	39	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Styrene	ND		180	33	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,1,1,2-Tetrachloroethane	ND		180	33	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Client Sample ID: S-DP-20A(2.5-3.5)**

**Date Collected: 09/12/13 14:05**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-14**

**Matrix: Solid**

**Percent Solids: 77.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		180	44	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Tetrachloroethene	ND		180	50	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Toluene	ND		180	28	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,2,3-Trichlorobenzene	ND		920	180	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,2,4-Trichlorobenzene	ND		180	46	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,1,1-Trichloroethane	ND		180	39	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,1,2-Trichloroethane	ND		180	44	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Trichloroethene	ND		180	39	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Trichlorofluoromethane	ND		180	41	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,2,3-Trichloropropane	ND		180	39	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,2,4-Trimethylbenzene	ND		180	85	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,3,5-Trimethylbenzene	ND		180	44	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
Vinyl chloride	ND		920	180	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
m,p-Xylene	ND		370	67	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
o-Xylene	ND		180	42	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
1,2-Dichlorobenzene	ND		180	26	ug/Kg	☼	09/17/13 17:00	09/18/13 09:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	99		75 - 125				09/17/13 17:00	09/18/13 09:37	1
4-Bromofluorobenzene (Surr)	103		75 - 125				09/17/13 17:00	09/18/13 09:37	1
Dibromofluoromethane (Surr)	94		75 - 125				09/17/13 17:00	09/18/13 09:37	1
Toluene-d8 (Surr)	100		75 - 125				09/17/13 17:00	09/18/13 09:37	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Client Sample ID: S-DP-7(1-2)**

**Date Collected: 09/12/13 12:35**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-1**

**Matrix: Solid**

**Percent Solids: 79.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1600	51	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Acenaphthylene	ND		1600	84	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Acetophenone	ND		1600	99	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
<b>Anthracene</b>	<b>84</b>	<b>J</b>	1600	84	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Atrazine	ND		1600	180	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Benzidine	ND		16000	4900	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
<b>Benzo[a]anthracene</b>	<b>160</b>	<b>J</b>	1600	99	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Benzo[a]pyrene	ND		1600	99	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Benzo[b]fluoranthene	ND		1600	130	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
<b>Benzo[g,h,i]perylene</b>	<b>110</b>	<b>J</b>	1600	79	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Benzo[k]fluoranthene	ND		1600	200	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Bis(2-chloroethoxy)methane	ND		1600	110	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Bis(2-chloroethyl)ether	ND		1600	82	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Bis(2-ethylhexyl) phthalate	ND		1600	230	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Butyl benzyl phthalate	ND		1600	210	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Caprolactam	ND		7900	530	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Carbazole	ND		1600	180	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
<b>Chrysene</b>	<b>200</b>	<b>J</b>	1600	130	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Di-n-butyl phthalate	ND		1600	140	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Di-n-octyl phthalate	ND		1600	71	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Dibenz(a,h)anthracene	ND		1600	94	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Dibenzofuran	ND		1600	99	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Diethyl phthalate	ND		3300	130	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
<b>Dimethyl phthalate</b>	<b>470</b>	<b>J B</b>	1600	110	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
<b>Fluoranthene</b>	<b>250</b>	<b>J</b>	1600	180	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Fluorene	ND		1600	89	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Hexachlorobenzene	ND		1600	140	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Hexachlorobutadiene	ND		1600	50	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Hexachlorocyclopentadiene	ND		7900	250	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Hexachloroethane	ND		1600	110	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Indeno[1,2,3-cd]pyrene	ND		1600	110	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Naphthalene	ND		1600	150	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Nitrobenzene	ND		1600	110	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
N-Nitrosodi-n-propylamine	ND		1600	150	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
n-Nitrosodiphenylamine(as diphenylamine)	ND		1600	100	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Pentachlorophenol	ND		7900	1600	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
Phenol	ND		1600	89	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
<b>Phenanthrene</b>	<b>240</b>	<b>J</b>	1600	84	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
<b>Pyrene</b>	<b>390</b>	<b>J</b>	1600	60	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
2,2'-oxybis[1-chloropropane]	ND		1600	110	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
2-Chloronaphthalene	ND		1600	50	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
2-Chlorophenol	ND		1600	100	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
2-Methylnaphthalene	ND		1600	94	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
2-Methylphenol	ND		1600	64	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
2-Nitroaniline	ND		7900	250	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
2-Nitrophenol	ND		1600	50	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
2,4-Dichlorophenol	ND		1600	50	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4
2,4-Dimethylphenol	ND		1600	330	ug/Kg	*	09/18/13 19:20	09/20/13 18:22	4

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Client Sample ID: S-DP-7(1-2)**

**Date Collected: 09/12/13 12:35**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-1**

**Matrix: Solid**

**Percent Solids: 79.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		7900	1700	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
2,4-Dinitrotoluene	ND		1600	330	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
2,6-Dinitrotoluene	ND		1600	140	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
2,4,5-Trichlorophenol	ND		1600	50	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
2,4,6-Trichlorophenol	ND		1600	50	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
3,3'-Dichlorobenzidine	ND		3300	450	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
3 & 4 Methylphenol	ND		1600	160	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
3-Nitroaniline	ND		7900	360	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
4-Bromophenyl phenyl ether	ND		1600	94	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
4-Chloro-3-methylphenol	ND		1600	330	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
4-Chloroaniline	ND		1600	410	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
4-Chlorophenyl phenyl ether	ND		1600	100	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
4-Nitroaniline	ND		7900	360	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
4-Nitrophenol	ND		7900	480	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
4,6-Dinitro-2-methylphenol	ND		7900	1600	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
1,4-Dichlorobenzene	ND		1600	67	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4
1,2,4-Trichlorobenzene	ND		1600	140	ug/Kg	☼	09/18/13 19:20	09/20/13 18:22	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	87	D	53 - 120	09/18/13 19:20	09/20/13 18:22	4
Phenol-d5	93	D	52 - 120	09/18/13 19:20	09/20/13 18:22	4
Nitrobenzene-d5	86	D	50 - 120	09/18/13 19:20	09/20/13 18:22	4
2-Fluorobiphenyl	93	D	50 - 120	09/18/13 19:20	09/20/13 18:22	4
2,4,6-Tribromophenol	94	D	51 - 120	09/18/13 19:20	09/20/13 18:22	4
Terphenyl-d14	99	D	55 - 120	09/18/13 19:20	09/20/13 18:22	4

**Client Sample ID: S-DP-14(1.5-2.5)**

**Date Collected: 09/12/13 12:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-5**

**Matrix: Solid**

**Percent Solids: 97.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		6700	210	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Acenaphthylene	ND		6700	350	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Acetophenone	ND		6700	410	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Anthracene	ND		6700	350	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Atrazine	ND		6700	760	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Benzidine	ND		67000	20000	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Benzo[a]anthracene	ND		6700	410	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Benzo[a]pyrene	ND		6700	410	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Benzo[b]fluoranthene	ND		6700	530	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Benzo[g,h,i]perylene	ND		6700	330	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Benzo[k]fluoranthene	ND		6700	820	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Bis(2-chloroethoxy)methane	ND		6700	470	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Bis(2-chloroethyl)ether	ND		6700	340	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Bis(2-ethylhexyl) phthalate	ND		6700	940	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Butyl benzyl phthalate	ND		6700	880	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Caprolactam	ND		33000	2200	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Carbazole	ND		6700	730	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Chrysene	ND		6700	550	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Di-n-butyl phthalate	ND		6700	590	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Di-n-octyl phthalate	ND		6700	290	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Client Sample ID: S-DP-14(1.5-2.5)**

**Date Collected: 09/12/13 12:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-5**

**Matrix: Solid**

**Percent Solids: 97.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		6700	390	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Dibenzofuran	ND		6700	410	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Diethyl phthalate	ND		13000	530	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Dimethyl phthalate	ND		6700	470	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Fluoranthene	ND		6700	730	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Fluorene	ND		6700	370	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Hexachlorobenzene	ND		6700	590	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Hexachlorobutadiene	ND		6700	200	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Hexachlorocyclopentadiene	ND		33000	1000	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Hexachloroethane	ND		6700	430	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Indeno[1,2,3-cd]pyrene	ND		6700	450	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Naphthalene	ND		6700	630	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Nitrobenzene	ND		6700	450	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
N-Nitrosodi-n-propylamine	ND		6700	630	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
n-Nitrosodiphenylamine(as diphenylamine)	ND		6700	430	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Pentachlorophenol	ND		33000	6700	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Phenol	ND		6700	370	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Phenanthrene	ND		6700	350	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
Pyrene	ND		6700	250	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
2,2'-oxybis[1-chloropropane]	ND		6700	470	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
2-Chloronaphthalene	ND		6700	200	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
2-Chlorophenol	ND		6700	430	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
2-Methylnaphthalene	ND		6700	390	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
2-Methylphenol	ND		6700	270	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
2-Nitroaniline	ND		33000	1000	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
2-Nitrophenol	ND		6700	200	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
2,4-Dichlorophenol	ND		6700	200	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
2,4-Dimethylphenol	ND		6700	1300	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
2,4-Dinitrophenol	ND		33000	6800	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
2,4-Dinitrotoluene	ND		6700	1300	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
2,6-Dinitrotoluene	ND		6700	570	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
2,4,5-Trichlorophenol	ND		6700	200	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
2,4,6-Trichlorophenol	ND		6700	200	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
3,3'-Dichlorobenzidine	ND		13000	1800	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
3 & 4 Methylphenol	ND		6700	670	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
3-Nitroaniline	ND		33000	1500	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
4-Bromophenyl phenyl ether	ND		6700	390	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
4-Chloro-3-methylphenol	ND		6700	1300	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
4-Chloroaniline	ND		6700	1700	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
4-Chlorophenyl phenyl ether	ND		6700	430	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
4-Nitroaniline	ND		33000	1500	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
4-Nitrophenol	ND		33000	2000	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
4,6-Dinitro-2-methylphenol	ND		33000	6700	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
1,4-Dichlorobenzene	ND		6700	280	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20
1,2,4-Trichlorobenzene	ND		6700	570	ug/Kg	☼	09/26/13 19:40	09/30/13 22:38	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	47	D X	53 - 120	09/26/13 19:40	09/30/13 22:38	20
Phenol-d5	47	D X	52 - 120	09/26/13 19:40	09/30/13 22:38	20

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Client Sample ID: S-DP-14(1.5-2.5)**

**Date Collected: 09/12/13 12:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-5**

**Matrix: Solid**

**Percent Solids: 97.0**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	47	D X	50 - 120	09/26/13 19:40	09/30/13 22:38	20
2-Fluorobiphenyl	50	D	50 - 120	09/26/13 19:40	09/30/13 22:38	20
2,4,6-Tribromophenol	36	D X	51 - 120	09/26/13 19:40	09/30/13 22:38	20
Terphenyl-d14	53	D X	55 - 120	09/26/13 19:40	09/30/13 22:38	20

**Client Sample ID: S-DP-20A(2.5-3.5)**

**Date Collected: 09/12/13 14:05**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-14**

**Matrix: Solid**

**Percent Solids: 77.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		410	13	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Acenaphthylene	ND		410	21	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Acetophenone	ND		410	25	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Anthracene	ND		410	21	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Atrazine	ND		410	46	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Benzidine	ND		4100	1200	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Benzo[a]anthracene	ND		410	25	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Benzo[a]pyrene	ND		410	25	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Benzo[b]fluoranthene	ND		410	33	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Benzo[g,h,i]perylene	ND		410	20	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Benzo[k]fluoranthene	ND		410	50	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Bis(2-chloroethoxy)methane	ND		410	29	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Bis(2-chloroethyl)ether	ND		410	21	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Bis(2-ethylhexyl) phthalate	ND		410	58	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Butyl benzyl phthalate	ND		410	54	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Caprolactam	ND		2000	130	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Carbazole	ND		410	45	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Chrysene	ND		410	34	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Di-n-butyl phthalate	ND		410	36	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Di-n-octyl phthalate	ND		410	18	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Dibenz(a,h)anthracene	ND		410	24	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Dibenzofuran	ND		410	25	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Diethyl phthalate	ND		830	33	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
<b>Dimethyl phthalate</b>	<b>300</b>	<b>J B</b>	410	29	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Fluoranthene	ND		410	45	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Fluorene	ND		410	23	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Hexachlorobenzene	ND		410	36	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Hexachlorobutadiene	ND		410	13	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Hexachlorocyclopentadiene	ND		2000	63	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Hexachloroethane	ND		410	27	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Indeno[1,2,3-cd]pyrene	ND		410	28	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Naphthalene	ND		410	39	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Nitrobenzene	ND		410	28	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
N-Nitrosodi-n-propylamine	ND		410	39	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		410	26	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Pentachlorophenol	ND		2000	410	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Phenol	ND		410	23	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Phenanthrene	ND		410	21	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
Pyrene	ND		410	15	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Client Sample ID: S-DP-20A(2.5-3.5)**

**Date Collected: 09/12/13 14:05**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-14**

**Matrix: Solid**

**Percent Solids: 77.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	ND		410	29	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
2-Chloronaphthalene	ND		410	13	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
2-Chlorophenol	ND		410	26	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
2-Methylnaphthalene	ND		410	24	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
2-Methylphenol	ND		410	16	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
2-Nitroaniline	ND		2000	63	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
2-Nitrophenol	ND		410	13	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
2,4-Dichlorophenol	ND		410	13	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
2,4-Dimethylphenol	ND		410	83	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
2,4-Dinitrophenol	ND		2000	420	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
2,4-Dinitrotoluene	ND		410	83	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
2,6-Dinitrotoluene	ND		410	35	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
2,4,5-Trichlorophenol	ND		410	13	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
2,4,6-Trichlorophenol	ND		410	13	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
3,3'-Dichlorobenzidine	ND		830	110	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
3 & 4 Methylphenol	ND		410	41	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
3-Nitroaniline	ND		2000	91	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
4-Bromophenyl phenyl ether	ND		410	24	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
4-Chloro-3-methylphenol	ND		410	83	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
4-Chloroaniline	ND		410	100	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
4-Chlorophenyl phenyl ether	ND		410	26	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
4-Nitroaniline	ND		2000	91	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
4-Nitrophenol	ND		2000	120	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
4,6-Dinitro-2-methylphenol	ND		2000	410	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
1,4-Dichlorobenzene	ND		410	17	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1
1,2,4-Trichlorobenzene	ND		410	35	ug/Kg	☼	09/18/13 19:20	09/20/13 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		53 - 120	09/18/13 19:20	09/20/13 19:42	1
Phenol-d5	85		52 - 120	09/18/13 19:20	09/20/13 19:42	1
Nitrobenzene-d5	84		50 - 120	09/18/13 19:20	09/20/13 19:42	1
2-Fluorobiphenyl	85		50 - 120	09/18/13 19:20	09/20/13 19:42	1
2,4,6-Tribromophenol	89		51 - 120	09/18/13 19:20	09/20/13 19:42	1
Terphenyl-d14	97		55 - 120	09/18/13 19:20	09/20/13 19:42	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-7(1-2)**

**Date Collected: 09/12/13 12:35**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-1**

**Matrix: Solid**

**Percent Solids: 79.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	81		6.5		mg/Kg	☼	09/17/13 11:37	09/17/13 21:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	98		50 - 150				09/17/13 11:37	09/17/13 21:41	1

**Client Sample ID: S-DP-7(6.5-7.5)**

**Date Collected: 09/12/13 12:40**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-2**

**Matrix: Solid**

**Percent Solids: 92.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.1		mg/Kg	☼	09/25/13 14:49	09/25/13 18:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	104		50 - 150				09/25/13 14:49	09/25/13 18:11	1

**Client Sample ID: S-DP-8(6.5-7.5)**

**Date Collected: 09/12/13 13:00**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-4**

**Matrix: Solid**

**Percent Solids: 91.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.3		mg/Kg	☼	09/17/13 11:37	09/18/13 12:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	80		50 - 150				09/17/13 11:37	09/18/13 12:52	1

**Client Sample ID: S-DP-14(1.5-2.5)**

**Date Collected: 09/12/13 12:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-5**

**Matrix: Solid**

**Percent Solids: 97.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.9		mg/Kg	☼	09/17/13 11:37	09/18/13 13:20	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	93		50 - 150				09/17/13 11:37	09/18/13 13:20	1

**Client Sample ID: S-DP-14(5-6)**

**Date Collected: 09/12/13 12:47**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-6**

**Matrix: Solid**

**Percent Solids: 86.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.0		mg/Kg	☼	09/25/13 14:49	09/25/13 18:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	103		50 - 150				09/25/13 14:49	09/25/13 18:39	1

**Client Sample ID: S-DP-15(2-3)**

**Date Collected: 09/12/13 13:30**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-7**

**Matrix: Solid**

**Percent Solids: 47.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		15		mg/Kg	☼	09/17/13 11:37	09/18/13 13:48	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	97		50 - 150				09/17/13 11:37	09/18/13 13:48	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-16(5-6)**

**Date Collected: 09/12/13 13:43**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-10**

**Matrix: Solid**

**Percent Solids: 87.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.9		mg/Kg	☼	09/17/13 11:37	09/18/13 14:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	98		50 - 150				09/17/13 11:37	09/18/13 14:16	1

**Client Sample ID: S-DP-18(0-1)**

**Date Collected: 09/12/13 14:10**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-11**

**Matrix: Solid**

**Percent Solids: 89.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	10		6.4		mg/Kg	☼	09/17/13 11:37	09/18/13 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	96		50 - 150				09/17/13 11:37	09/18/13 15:40	1

**Client Sample ID: S-DP-20A(2.5-3.5)**

**Date Collected: 09/12/13 14:05**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-14**

**Matrix: Solid**

**Percent Solids: 77.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.4		mg/Kg	☼	09/17/13 11:37	09/18/13 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	95		50 - 150				09/17/13 11:37	09/18/13 16:09	1

**Client Sample ID: S-DP-22(6-7)**

**Date Collected: 09/13/13 09:10**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-17**

**Matrix: Solid**

**Percent Solids: 90.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.7		mg/Kg	☼	09/17/13 11:37	09/18/13 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	96		50 - 150				09/17/13 11:37	09/18/13 16:37	1

**Client Sample ID: S-DP-23(2-3)**

**Date Collected: 09/13/13 10:05**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-18**

**Matrix: Solid**

**Percent Solids: 94.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.5		mg/Kg	☼	09/19/13 10:06	09/19/13 12:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	84		50 - 150				09/19/13 10:06	09/19/13 12:07	1

**Client Sample ID: S-DP-24(2-3)**

**Date Collected: 09/13/13 09:30**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-20**

**Matrix: Solid**

**Percent Solids: 80.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.5		mg/Kg	☼	09/19/13 10:06	09/19/13 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	100		50 - 150				09/19/13 10:06	09/19/13 13:03	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-25(5-6)**

**Date Collected: 09/13/13 09:50**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-23**

**Matrix: Solid**

**Percent Solids: 77.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.5		mg/Kg	☼	09/19/13 10:06	09/19/13 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	86		50 - 150				09/19/13 10:06	09/19/13 13:31	1

**Client Sample ID: S-DP-26(1-2)**

**Date Collected: 09/12/13 17:35**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-24**

**Matrix: Solid**

**Percent Solids: 84.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.6		mg/Kg	☼	09/19/13 10:06	09/19/13 20:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	100		50 - 150				09/19/13 10:06	09/19/13 20:06	1

**Client Sample ID: S-DP-27(3-4)**

**Date Collected: 09/12/13 14:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-26**

**Matrix: Solid**

**Percent Solids: 72.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.8		mg/Kg	☼	09/19/13 10:06	09/19/13 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	100		50 - 150				09/19/13 10:06	09/19/13 14:28	1

**Client Sample ID: S-DP-28(3-4)**

**Date Collected: 09/12/13 16:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-30**

**Matrix: Solid**

**Percent Solids: 92.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.0		mg/Kg	☼	09/19/13 10:06	09/19/13 15:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	99		50 - 150				09/19/13 10:06	09/19/13 15:53	1

**Client Sample ID: S-DP-29(8-9)**

**Date Collected: 09/12/13 16:30**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-33**

**Matrix: Solid**

**Percent Solids: 90.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.4		mg/Kg	☼	09/19/13 10:06	09/19/13 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	100		50 - 150				09/19/13 10:06	09/19/13 16:21	1

**Client Sample ID: S-DP-30(1-2)**

**Date Collected: 09/12/13 14:36**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-34**

**Matrix: Solid**

**Percent Solids: 92.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.6		mg/Kg	☼	09/19/13 10:06	09/19/13 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	101		50 - 150				09/19/13 10:06	09/19/13 16:49	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-32(3-4)**

**Date Collected: 09/12/13 16:55**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-36**

**Matrix: Solid**

**Percent Solids: 87.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.2		mg/Kg	☼	09/19/13 10:06	09/19/13 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	103		50 - 150				09/19/13 10:06	09/19/13 17:17	1

**Client Sample ID: S-DP-37(1-2)**

**Date Collected: 09/13/13 10:35**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-38**

**Matrix: Solid**

**Percent Solids: 90.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.9		mg/Kg	☼	09/19/13 10:06	09/19/13 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	102		50 - 150				09/19/13 10:06	09/19/13 17:45	1

**Client Sample ID: S-DP-39(2-3)**

**Date Collected: 09/12/13 17:15**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-40**

**Matrix: Solid**

**Percent Solids: 66.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		8.6		mg/Kg	☼	09/19/13 10:06	09/19/13 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	91		50 - 150				09/19/13 10:06	09/19/13 18:42	1

**Client Sample ID: S-DP-42(5-6)**

**Date Collected: 09/13/13 10:16**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-43**

**Matrix: Solid**

**Percent Solids: 83.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.5		mg/Kg	☼	09/19/13 10:06	09/19/13 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	102		50 - 150				09/19/13 10:06	09/19/13 19:10	1

**Client Sample ID: S-DP-42(19-20)**

**Date Collected: 09/13/13 10:38**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-45**

**Matrix: Solid**

**Percent Solids: 83.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.0		mg/Kg	☼	09/19/13 10:06	09/19/13 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	103		50 - 150				09/19/13 10:06	09/19/13 19:38	1

**Client Sample ID: S-DP-50(3-4)**

**Date Collected: 09/12/13 17:25**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-46**

**Matrix: Solid**

**Percent Solids: 92.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.6		mg/Kg	☼	09/19/13 10:06	09/19/13 21:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	103		50 - 150				09/19/13 10:06	09/19/13 21:01	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-53(7-8)**

**Date Collected: 09/13/13 10:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-49**

**Matrix: Solid**

**Percent Solids: 76.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.0		mg/Kg	☼	09/19/13 10:06	09/19/13 21:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (fid)</i>	89		50 - 150				09/19/13 10:06	09/19/13 21:29	1

**Client Sample ID: S-DP-35(2-3)**

**Date Collected: 09/12/13 16:00**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-50**

**Matrix: Solid**

**Percent Solids: 93.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.2		mg/Kg	☼	09/19/13 10:06	09/19/13 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (fid)</i>	96		50 - 150				09/19/13 10:06	09/19/13 21:57	1

**Client Sample ID: S-DP-40(1-2)**

**Date Collected: 09/12/13 16:25**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-52**

**Matrix: Solid**

**Percent Solids: 95.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.8		mg/Kg	☼	09/19/13 10:06	09/19/13 22:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (fid)</i>	100		50 - 150				09/19/13 10:06	09/19/13 22:25	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-7(1-2)**

**Date Collected: 09/12/13 12:35**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-1**

**Matrix: Solid**

**Percent Solids: 79.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	770		310		mg/Kg	☼	09/19/13 08:44	09/19/13 14:17	20
RRO (nC25-nC36)	2800		620		mg/Kg	☼	09/19/13 08:44	09/19/13 14:17	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	95		50 - 150				09/19/13 08:44	09/19/13 14:17	20

**Client Sample ID: S-DP-7(6.5-7.5)**

**Date Collected: 09/12/13 12:40**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-2**

**Matrix: Solid**

**Percent Solids: 92.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/26/13 09:06	09/26/13 20:59	1
RRO (nC25-nC36)	69		27		mg/Kg	☼	09/26/13 09:06	09/26/13 20:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	80		50 - 150				09/26/13 09:06	09/26/13 20:59	1

**Client Sample ID: S-DP-8(6.5-7.5)**

**Date Collected: 09/12/13 13:00**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-4**

**Matrix: Solid**

**Percent Solids: 91.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/19/13 08:44	09/19/13 16:13	1
RRO (nC25-nC36)	ND		27		mg/Kg	☼	09/19/13 08:44	09/19/13 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	83		50 - 150				09/19/13 08:44	09/19/13 16:13	1

**Client Sample ID: S-DP-14(1.5-2.5)**

**Date Collected: 09/12/13 12:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-5**

**Matrix: Solid**

**Percent Solids: 97.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		510		mg/Kg	☼	09/19/13 08:44	09/19/13 15:54	40
RRO (nC25-nC36)	2700		1000		mg/Kg	☼	09/19/13 08:44	09/19/13 15:54	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	77		50 - 150				09/19/13 08:44	09/19/13 15:54	40

**Client Sample ID: S-DP-15(2-3)**

**Date Collected: 09/12/13 13:30**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-7**

**Matrix: Solid**

**Percent Solids: 47.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	110		26		mg/Kg	☼	09/19/13 08:44	09/19/13 16:33	1
RRO (nC25-nC36)	110		51		mg/Kg	☼	09/19/13 08:44	09/19/13 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	81		50 - 150				09/19/13 08:44	09/19/13 16:33	1

**Client Sample ID: S-DP-16(5-6)**

**Date Collected: 09/12/13 13:43**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-10**

**Matrix: Solid**

**Percent Solids: 87.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/19/13 08:44	09/19/13 17:10	1
RRO (nC25-nC36)	87		28		mg/Kg	☼	09/19/13 08:44	09/19/13 17:10	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	83		50 - 150				09/19/13 08:44	09/19/13 17:10	1
<b>Client Sample ID: S-DP-18(0-1)</b> <b>Date Collected: 09/12/13 14:10</b> <b>Date Received: 09/16/13 09:32</b>							<b>Lab Sample ID: 250-14161-11</b> <b>Matrix: Solid</b> <b>Percent Solids: 89.0</b>		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		270		mg/Kg	☼	09/19/13 08:44	09/19/13 14:17	20
RRO (nC25-nC36)	1700		550		mg/Kg	☼	09/19/13 08:44	09/19/13 14:17	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	92		50 - 150				09/19/13 08:44	09/19/13 14:17	20
<b>Client Sample ID: S-DP-20A(2.5-3.5)</b> <b>Date Collected: 09/12/13 14:05</b> <b>Date Received: 09/16/13 09:32</b>							<b>Lab Sample ID: 250-14161-14</b> <b>Matrix: Solid</b> <b>Percent Solids: 77.0</b>		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		16		mg/Kg	☼	09/19/13 08:44	09/19/13 16:51	1
RRO (nC25-nC36)	ND		32		mg/Kg	☼	09/19/13 08:44	09/19/13 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	76		50 - 150				09/19/13 08:44	09/19/13 16:51	1
<b>Client Sample ID: S-DP-22(6-7)</b> <b>Date Collected: 09/13/13 09:10</b> <b>Date Received: 09/16/13 09:32</b>							<b>Lab Sample ID: 250-14161-17</b> <b>Matrix: Solid</b> <b>Percent Solids: 90.7</b>		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/19/13 08:44	09/19/13 15:54	1
RRO (nC25-nC36)	ND		27		mg/Kg	☼	09/19/13 08:44	09/19/13 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	79		50 - 150				09/19/13 08:44	09/19/13 15:54	1
<b>Client Sample ID: S-DP-23(2-3)</b> <b>Date Collected: 09/13/13 10:05</b> <b>Date Received: 09/16/13 09:32</b>							<b>Lab Sample ID: 250-14161-18</b> <b>Matrix: Solid</b> <b>Percent Solids: 94.3</b>		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/19/13 08:44	09/19/13 16:13	1
RRO (nC25-nC36)	ND		26		mg/Kg	☼	09/19/13 08:44	09/19/13 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	84		50 - 150				09/19/13 08:44	09/19/13 16:13	1
<b>Client Sample ID: S-DP-24(2-3)</b> <b>Date Collected: 09/13/13 09:30</b> <b>Date Received: 09/16/13 09:32</b>							<b>Lab Sample ID: 250-14161-20</b> <b>Matrix: Solid</b> <b>Percent Solids: 80.9</b>		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		15		mg/Kg	☼	09/19/13 08:44	09/19/13 16:33	1
RRO (nC25-nC36)	ND		30		mg/Kg	☼	09/19/13 08:44	09/19/13 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	92		50 - 150				09/19/13 08:44	09/19/13 16:33	1



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-25(5-6)**

**Date Collected: 09/13/13 09:50**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-23**

**Matrix: Solid**

**Percent Solids: 77.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		16		mg/Kg	☼	09/19/13 08:44	09/19/13 16:51	1
RRO (nC25-nC36)	ND		32		mg/Kg	☼	09/19/13 08:44	09/19/13 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	71		50 - 150				09/19/13 08:44	09/19/13 16:51	1

**Client Sample ID: S-DP-26(1-2)**

**Date Collected: 09/12/13 17:35**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-24**

**Matrix: Solid**

**Percent Solids: 84.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	18		15		mg/Kg	☼	09/19/13 08:44	09/19/13 17:10	1
RRO (nC25-nC36)	130		29		mg/Kg	☼	09/19/13 08:44	09/19/13 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	93		50 - 150				09/19/13 08:44	09/19/13 17:10	1

**Client Sample ID: S-DP-27(3-4)**

**Date Collected: 09/12/13 14:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-26**

**Matrix: Solid**

**Percent Solids: 72.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		17		mg/Kg	☼	09/20/13 07:17	09/20/13 12:35	1
RRO (nC25-nC36)	ND		34		mg/Kg	☼	09/20/13 07:17	09/20/13 12:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	77		50 - 150				09/20/13 07:17	09/20/13 12:35	1

**Client Sample ID: S-DP-28(3-4)**

**Date Collected: 09/12/13 16:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-30**

**Matrix: Solid**

**Percent Solids: 92.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	22		13		mg/Kg	☼	09/20/13 07:17	09/20/13 12:54	1
RRO (nC25-nC36)	95		27		mg/Kg	☼	09/20/13 07:17	09/20/13 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	79		50 - 150				09/20/13 07:17	09/20/13 12:54	1

**Client Sample ID: S-DP-29(8-9)**

**Date Collected: 09/12/13 16:30**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-33**

**Matrix: Solid**

**Percent Solids: 90.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/20/13 07:17	09/20/13 13:12	1
RRO (nC25-nC36)	ND		28		mg/Kg	☼	09/20/13 07:17	09/20/13 13:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	79		50 - 150				09/20/13 07:17	09/20/13 13:12	1

**Client Sample ID: S-DP-30(1-2)**

**Date Collected: 09/12/13 14:36**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-34**

**Matrix: Solid**

**Percent Solids: 92.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	380		13		mg/Kg	☼	09/20/13 07:17	09/20/13 13:32	1
RRO (nC25-nC36)	440		27		mg/Kg	☼	09/20/13 07:17	09/20/13 13:32	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	121		50 - 150				09/20/13 07:17	09/20/13 13:32	1	
<b>Client Sample ID: S-DP-32(3-4)</b> <b>Date Collected: 09/12/13 16:55</b> <b>Date Received: 09/16/13 09:32</b>							<b>Lab Sample ID: 250-14161-36</b> <b>Matrix: Solid</b> <b>Percent Solids: 87.0</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		14		mg/Kg	☼	09/20/13 07:17	09/20/13 13:51	1	
RRO (nC25-nC36)	ND		29		mg/Kg	☼	09/20/13 07:17	09/20/13 13:51	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	77		50 - 150				09/20/13 07:17	09/20/13 13:51	1	
<b>Client Sample ID: S-DP-37(1-2)</b> <b>Date Collected: 09/13/13 10:35</b> <b>Date Received: 09/16/13 09:32</b>							<b>Lab Sample ID: 250-14161-38</b> <b>Matrix: Solid</b> <b>Percent Solids: 90.2</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	130		14		mg/Kg	☼	09/20/13 07:17	09/20/13 14:09	1	
RRO (nC25-nC36)	450		28		mg/Kg	☼	09/20/13 07:17	09/20/13 14:09	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	93		50 - 150				09/20/13 07:17	09/20/13 14:09	1	
<b>Client Sample ID: S-DP-39(2-3)</b> <b>Date Collected: 09/12/13 17:15</b> <b>Date Received: 09/16/13 09:32</b>							<b>Lab Sample ID: 250-14161-40</b> <b>Matrix: Solid</b> <b>Percent Solids: 66.1</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		19		mg/Kg	☼	09/20/13 07:17	09/20/13 15:06	1	
RRO (nC25-nC36)	ND		37		mg/Kg	☼	09/20/13 07:17	09/20/13 15:06	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	76		50 - 150				09/20/13 07:17	09/20/13 15:06	1	
<b>Client Sample ID: S-DP-42(5-6)</b> <b>Date Collected: 09/13/13 10:16</b> <b>Date Received: 09/16/13 09:32</b>							<b>Lab Sample ID: 250-14161-43</b> <b>Matrix: Solid</b> <b>Percent Solids: 83.7</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		15		mg/Kg	☼	09/20/13 07:17	09/20/13 15:25	1	
RRO (nC25-nC36)	ND		30		mg/Kg	☼	09/20/13 07:17	09/20/13 15:25	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	89		50 - 150				09/20/13 07:17	09/20/13 15:25	1	
<b>Client Sample ID: S-DP-42(19-20)</b> <b>Date Collected: 09/13/13 10:38</b> <b>Date Received: 09/16/13 09:32</b>							<b>Lab Sample ID: 250-14161-45</b> <b>Matrix: Solid</b> <b>Percent Solids: 83.6</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		15		mg/Kg	☼	09/20/13 07:17	09/20/13 15:44	1	
RRO (nC25-nC36)	ND		30		mg/Kg	☼	09/20/13 07:17	09/20/13 15:44	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	69		50 - 150				09/20/13 07:17	09/20/13 15:44	1	

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-50(3-4)**

**Date Collected: 09/12/13 17:25**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-46**

**Matrix: Solid**

**Percent Solids: 92.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/20/13 07:17	09/20/13 16:03	1
RRO (nC25-nC36)	ND		27		mg/Kg	☼	09/20/13 07:17	09/20/13 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	85		50 - 150				09/20/13 07:17	09/20/13 16:03	1

**Client Sample ID: S-DP-53(7-8)**

**Date Collected: 09/13/13 10:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-49**

**Matrix: Solid**

**Percent Solids: 76.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		16		mg/Kg	☼	09/20/13 07:17	09/20/13 15:06	1
RRO (nC25-nC36)	ND		32		mg/Kg	☼	09/20/13 07:17	09/20/13 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	90		50 - 150				09/20/13 07:17	09/20/13 15:06	1

**Client Sample ID: S-DP-35(2-3)**

**Date Collected: 09/12/13 16:00**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-50**

**Matrix: Solid**

**Percent Solids: 93.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/20/13 07:17	09/20/13 15:25	1
RRO (nC25-nC36)	ND		27		mg/Kg	☼	09/20/13 07:17	09/20/13 15:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	98		50 - 150				09/20/13 07:17	09/20/13 15:25	1

**Client Sample ID: S-DP-40(1-2)**

**Date Collected: 09/12/13 16:25**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-52**

**Matrix: Solid**

**Percent Solids: 95.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/20/13 07:17	09/20/13 15:44	1
RRO (nC25-nC36)	ND		26		mg/Kg	☼	09/20/13 07:17	09/20/13 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	98		50 - 150				09/20/13 07:17	09/20/13 15:44	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

**Client Sample ID: S-DP-7(6.5-7.5)**

**Date Collected: 09/12/13 12:40**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-2**

**Matrix: Solid**

**Percent Solids: 92.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14	1.3	mg/Kg	☼	09/26/13 09:06	09/27/13 00:09	1
RRO (nC25-nC36)	ND		27	2.9	mg/Kg	☼	09/26/13 09:06	09/27/13 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	99		50 - 150				09/26/13 09:06	09/27/13 00:09	1

**Client Sample ID: S-DP-14(5-6)**

**Date Collected: 09/12/13 12:47**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-6**

**Matrix: Solid**

**Percent Solids: 86.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	110		14	1.4	mg/Kg	☼	09/26/13 09:06	09/27/13 00:28	1
RRO (nC25-nC36)	690		29	3.1	mg/Kg	☼	09/26/13 09:06	09/27/13 00:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	100		50 - 150				09/26/13 09:06	09/27/13 00:28	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Client Sample ID: S-DP-7(1-2)**

**Date Collected: 09/12/13 12:35**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-1**

**Matrix: Solid**

**Percent Solids: 79.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.7		0.62		mg/Kg	☼	09/17/13 08:54	09/17/13 18:14	10
Barium	72		0.62		mg/Kg	☼	09/17/13 08:54	09/17/13 18:14	10
Cadmium	ND		0.62		mg/Kg	☼	09/17/13 08:54	09/17/13 18:14	10
Chromium	48		1.2		mg/Kg	☼	09/17/13 08:54	09/17/13 18:14	10
Lead	31		0.62		mg/Kg	☼	09/17/13 08:54	09/17/13 18:14	10
Selenium	ND		0.62		mg/Kg	☼	09/17/13 08:54	09/17/13 18:14	10
Silver	ND		0.62		mg/Kg	☼	09/17/13 08:54	09/17/13 18:14	10

**Client Sample ID: S-DP-14(1.5-2.5)**

**Date Collected: 09/12/13 12:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-5**

**Matrix: Solid**

**Percent Solids: 97.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		0.50		mg/Kg	☼	09/25/13 13:27	09/25/13 17:40	10
Barium	82		0.50		mg/Kg	☼	09/25/13 13:27	09/25/13 17:40	10
Cadmium	ND		0.50		mg/Kg	☼	09/25/13 13:27	09/25/13 17:40	10
Chromium	25		1.0		mg/Kg	☼	09/25/13 13:27	09/25/13 17:40	10
Lead	9.2		0.50		mg/Kg	☼	09/25/13 13:27	09/25/13 17:40	10
Selenium	ND		0.50		mg/Kg	☼	09/25/13 13:27	09/25/13 17:40	10
Silver	ND		0.50		mg/Kg	☼	09/25/13 13:27	09/25/13 17:40	10

**Client Sample ID: S-DP-20A(2.5-3.5)**

**Date Collected: 09/12/13 14:05**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-14**

**Matrix: Solid**

**Percent Solids: 77.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		0.63		mg/Kg	☼	09/17/13 08:56	09/17/13 20:50	10
Barium	110		0.63		mg/Kg	☼	09/17/13 08:56	09/17/13 20:50	10
Cadmium	ND		0.63		mg/Kg	☼	09/17/13 08:56	09/17/13 20:50	10
Chromium	50		1.3		mg/Kg	☼	09/17/13 08:56	09/17/13 20:50	10
Lead	15		0.63		mg/Kg	☼	09/17/13 08:56	09/17/13 20:50	10
Selenium	ND		0.63		mg/Kg	☼	09/17/13 08:56	09/17/13 20:50	10
Silver	ND		0.63		mg/Kg	☼	09/17/13 08:56	09/17/13 20:50	10

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: 7471A - Mercury (CVAA)

**Client Sample ID: S-DP-7(1-2)**

**Date Collected: 09/12/13 12:35**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-1**

**Matrix: Solid**

**Percent Solids: 79.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.11		mg/Kg	☼	09/17/13 16:17	09/18/13 14:16	1

**Client Sample ID: S-DP-14(1.5-2.5)**

**Date Collected: 09/12/13 12:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-5**

**Matrix: Solid**

**Percent Solids: 97.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.071		mg/Kg	☼	09/26/13 14:59	09/26/13 19:32	1

**Client Sample ID: S-DP-20A(2.5-3.5)**

**Date Collected: 09/12/13 14:05**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-14**

**Matrix: Solid**

**Percent Solids: 77.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.12		mg/Kg	☼	09/17/13 16:17	09/18/13 14:25	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## General Chemistry

**Client Sample ID: S-DP-7(1-2)**  
**Date Collected: 09/12/13 12:35**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		0.010		%			09/16/13 23:03	1
Percent Solids	79		0.010		%			09/16/13 23:03	1

**Client Sample ID: S-DP-7(6.5-7.5)**  
**Date Collected: 09/12/13 12:40**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.7	H	0.010		%			09/26/13 10:18	1
Percent Solids	92	H	0.010		%			09/26/13 10:18	1

**Client Sample ID: S-DP-8(6.5-7.5)**  
**Date Collected: 09/12/13 13:00**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.010		%			09/16/13 23:03	1
Percent Solids	92		0.010		%			09/16/13 23:03	1

**Client Sample ID: S-DP-14(1.5-2.5)**  
**Date Collected: 09/12/13 12:45**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.0		0.010		%			09/16/13 23:03	1
Percent Solids	97		0.010		%			09/16/13 23:03	1

**Client Sample ID: S-DP-14(5-6)**  
**Date Collected: 09/12/13 12:47**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13	H	0.010		%			09/26/13 10:18	1
Percent Solids	87	H	0.010		%			09/26/13 10:18	1

**Client Sample ID: S-DP-15(2-3)**  
**Date Collected: 09/12/13 13:30**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	53		0.010		%			09/16/13 23:03	1
Percent Solids	47		0.010		%			09/16/13 23:03	1

**Client Sample ID: S-DP-16(5-6)**  
**Date Collected: 09/12/13 13:43**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.010		%			09/16/13 23:03	1
Percent Solids	87		0.010		%			09/16/13 23:03	1

**Client Sample ID: S-DP-18(0-1)**  
**Date Collected: 09/12/13 14:10**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-11**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		0.010		%			09/16/13 23:03	1
Percent Solids	89		0.010		%			09/16/13 23:03	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## General Chemistry

**Client Sample ID: S-DP-20A(2.5-3.5)**

**Date Collected: 09/12/13 14:05**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-14**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		0.010		%			09/16/13 23:03	1
Percent Solids	77		0.010		%			09/16/13 23:03	1

**Client Sample ID: S-DP-22(6-7)**

**Date Collected: 09/13/13 09:10**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-17**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.010		%			09/16/13 23:05	1
Percent Solids	91		0.010		%			09/16/13 23:05	1

**Client Sample ID: S-DP-23(2-3)**

**Date Collected: 09/13/13 10:05**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-18**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.7		0.010		%			09/16/13 23:05	1
Percent Solids	94		0.010		%			09/16/13 23:05	1

**Client Sample ID: S-DP-24(2-3)**

**Date Collected: 09/13/13 09:30**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-20**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		0.010		%			09/16/13 23:05	1
Percent Solids	81		0.010		%			09/16/13 23:05	1

**Client Sample ID: S-DP-25(5-6)**

**Date Collected: 09/13/13 09:50**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-23**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		0.010		%			09/16/13 23:05	1
Percent Solids	78		0.010		%			09/16/13 23:05	1

**Client Sample ID: S-DP-26(1-2)**

**Date Collected: 09/12/13 17:35**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-24**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.010		%			09/16/13 23:03	1
Percent Solids	84		0.010		%			09/16/13 23:03	1

**Client Sample ID: S-DP-27(3-4)**

**Date Collected: 09/12/13 14:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-26**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		0.010		%			09/16/13 23:03	1
Percent Solids	73		0.010		%			09/16/13 23:03	1

**Client Sample ID: S-DP-28(3-4)**

**Date Collected: 09/12/13 16:45**

**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-30**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.2		0.010		%			09/16/13 23:03	1
Percent Solids	93		0.010		%			09/16/13 23:03	1

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## General Chemistry

**Client Sample ID: S-DP-29(8-9)**  
**Date Collected: 09/12/13 16:30**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-33**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.9		0.010		%			09/16/13 23:03	1
Percent Solids	90		0.010		%			09/16/13 23:03	1

**Client Sample ID: S-DP-30(1-2)**  
**Date Collected: 09/12/13 14:36**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-34**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		0.010		%			09/16/13 23:03	1
Percent Solids	92		0.010		%			09/16/13 23:03	1

**Client Sample ID: S-DP-32(3-4)**  
**Date Collected: 09/12/13 16:55**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-36**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.010		%			09/16/13 23:03	1
Percent Solids	87		0.010		%			09/16/13 23:03	1

**Client Sample ID: S-DP-37(1-2)**  
**Date Collected: 09/13/13 10:35**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-38**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.010		%			09/16/13 23:05	1
Percent Solids	90		0.010		%			09/16/13 23:05	1

**Client Sample ID: S-DP-39(2-3)**  
**Date Collected: 09/12/13 17:15**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-40**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	34		0.010		%			09/16/13 23:03	1
Percent Solids	66		0.010		%			09/16/13 23:03	1

**Client Sample ID: S-DP-42(5-6)**  
**Date Collected: 09/13/13 10:16**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-43**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.010		%			09/16/13 23:05	1
Percent Solids	84		0.010		%			09/16/13 23:05	1

**Client Sample ID: S-DP-42(19-20)**  
**Date Collected: 09/13/13 10:38**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-45**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.010		%			09/16/13 23:05	1
Percent Solids	84		0.010		%			09/16/13 23:05	1

**Client Sample ID: S-DP-50(3-4)**  
**Date Collected: 09/12/13 17:25**  
**Date Received: 09/16/13 09:32**

**Lab Sample ID: 250-14161-46**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.1		0.010		%			09/16/13 23:03	1
Percent Solids	93		0.010		%			09/16/13 23:03	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## General Chemistry

Client Sample ID: S-DP-53(7-8)

Date Collected: 09/13/13 10:45

Date Received: 09/16/13 09:32

Lab Sample ID: 250-14161-49

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	23		0.010		%			09/16/13 23:05	1
Percent Solids	77		0.010		%			09/16/13 23:05	1

Client Sample ID: S-DP-35(2-3)

Date Collected: 09/12/13 16:00

Date Received: 09/16/13 09:32

Lab Sample ID: 250-14161-50

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		0.010		%			09/16/13 23:03	1
Percent Solids	93		0.010		%			09/16/13 23:03	1

Client Sample ID: S-DP-40(1-2)

Date Collected: 09/12/13 16:25

Date Received: 09/16/13 09:32

Lab Sample ID: 250-14161-52

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.2		0.010		%			09/16/13 23:03	1
Percent Solids	96		0.010		%			09/16/13 23:03	1

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: MB 250-20216/1-A**

**Matrix: Solid**

**Analysis Batch: 20244**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20216**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2400	490	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Benzene	ND		98	20	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromobenzene	ND		98	20	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromochloromethane	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromodichloromethane	ND		98	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromoform	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Bromomethane	ND		490	27	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
2-Butanone (MEK)	ND		980	290	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
n-Butylbenzene	ND		490	51	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
sec-Butylbenzene	ND		98	20	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
tert-Butylbenzene	ND		98	13	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Carbon disulfide	ND		980	38	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Carbon tetrachloride	ND		98	19	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Chlorobenzene	ND		98	19	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Chloroethane	ND		98	22	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Chloroform	ND		98	16	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Chloromethane	ND		490	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
2-Chlorotoluene	ND		98	13	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
4-Chlorotoluene	ND		98	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dibromo-3-Chloropropane	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Dibromochloromethane	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dibromoethane	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Dibromomethane	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dichloroethane	ND		98	16	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,3-Dichlorobenzene	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,4-Dichlorobenzene	ND		98	28	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Dichlorodifluoromethane	ND		490	24	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1-Dichloroethane	ND		98	19	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1-Dichloroethene	ND		98	16	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
cis-1,2-Dichloroethene	ND		98	27	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
trans-1,2-Dichloroethene	ND		98	20	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dichloropropane	ND		98	16	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,3-Dichloropropane	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
2,2-Dichloropropane	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1-Dichloropropene	ND		98	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
cis-1,3-Dichloropropene	ND		98	17	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
trans-1,3-Dichloropropene	ND		98	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Ethylbenzene	ND		98	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Hexachlorobutadiene	105	J	390	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
2-Hexanone	ND		980	220	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Isopropylbenzene	ND		200	35	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
p-Isopropyltoluene	ND		200	11	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
4-Methyl-2-pentanone (MIBK)	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Methyl tert-butyl ether	ND		98	13	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Methylene Chloride	ND		490	14	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Naphthalene	24.3	J	200	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
N-Propylbenzene	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Styrene	ND		98	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: MB 250-20216/1-A**

**Matrix: Solid**

**Analysis Batch: 20244**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20216**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		98	18	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1,2,2-Tetrachloroethane	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Tetrachloroethene	ND		98	26	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Toluene	ND		98	15	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2,3-Trichlorobenzene	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2,4-Trichlorobenzene	25.6	J	98	24	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1,1-Trichloroethane	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,1,2-Trichloroethane	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Trichloroethene	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Trichlorofluoromethane	ND		98	22	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2,3-Trichloropropane	ND		98	21	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2,4-Trimethylbenzene	ND		98	45	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,3,5-Trimethylbenzene	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
Vinyl chloride	ND		490	98	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
m,p-Xylene	ND		200	35	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
o-Xylene	ND		98	23	ug/Kg		09/17/13 17:00	09/18/13 07:35	1
1,2-Dichlorobenzene	ND		98	14	ug/Kg		09/17/13 17:00	09/18/13 07:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125	09/17/13 17:00	09/18/13 07:35	1
4-Bromofluorobenzene (Surr)	98		75 - 125	09/17/13 17:00	09/18/13 07:35	1
Dibromofluoromethane (Surr)	96		75 - 125	09/17/13 17:00	09/18/13 07:35	1
Toluene-d8 (Surr)	99		75 - 125	09/17/13 17:00	09/18/13 07:35	1

**Lab Sample ID: LCS 250-20216/2-A**

**Matrix: Solid**

**Analysis Batch: 20244**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20216**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	9660	10900		ug/Kg		113	65 - 150
Benzene	1930	1800		ug/Kg		93	80 - 120
Bromobenzene	1930	1780		ug/Kg		92	80 - 120
Bromochloromethane	1930	1900		ug/Kg		98	80 - 120
Bromodichloromethane	1930	1910		ug/Kg		99	80 - 140
Bromoform	1930	1770		ug/Kg		92	75 - 150
Bromomethane	1930	2190		ug/Kg		113	65 - 130
2-Butanone (MEK)	9660	10400		ug/Kg		107	70 - 125
n-Butylbenzene	1930	1920		ug/Kg		99	80 - 150
sec-Butylbenzene	1930	2010		ug/Kg		104	80 - 135
tert-Butylbenzene	1930	1860		ug/Kg		96	80 - 130
Carbon disulfide	3860	3910		ug/Kg		101	65 - 140
Carbon tetrachloride	1930	1920		ug/Kg		99	70 - 130
Chlorobenzene	1930	1840		ug/Kg		95	80 - 125
Chloroethane	1930	2040		ug/Kg		106	75 - 125
Chloroform	1930	1830		ug/Kg		95	80 - 120
Chloromethane	1930	2280		ug/Kg		118	40 - 150
2-Chlorotoluene	1930	1830		ug/Kg		95	80 - 120
4-Chlorotoluene	1930	1880		ug/Kg		97	80 - 125

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: LCS 250-20216/2-A**

**Matrix: Solid**

**Analysis Batch: 20244**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20216**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	1930	1940		ug/Kg		100	60 - 130
Dibromochloromethane	1930	2010		ug/Kg		104	75 - 125
1,2-Dibromoethane	1930	1950		ug/Kg		101	80 - 125
Dibromomethane	1930	1890		ug/Kg		98	80 - 120
1,2-Dichloroethane	1930	1890		ug/Kg		98	80 - 120
1,3-Dichlorobenzene	1930	1810		ug/Kg		94	80 - 125
1,4-Dichlorobenzene	1930	1730		ug/Kg		89	75 - 120
Dichlorodifluoromethane	1930	2370	*	ug/Kg		123	75 - 120
1,1-Dichloroethane	1930	1810		ug/Kg		94	80 - 120
1,1-Dichloroethene	1930	1790		ug/Kg		93	75 - 125
cis-1,2-Dichloroethene	1930	1850		ug/Kg		96	75 - 125
trans-1,2-Dichloroethene	1930	1780		ug/Kg		92	75 - 125
1,2-Dichloropropane	1930	1850		ug/Kg		96	80 - 125
1,3-Dichloropropane	1930	1910		ug/Kg		99	75 - 130
2,2-Dichloropropane	1930	2040		ug/Kg		106	70 - 130
1,1-Dichloropropene	1930	1830		ug/Kg		94	80 - 125
cis-1,3-Dichloropropene	1930	1790		ug/Kg		93	80 - 125
trans-1,3-Dichloropropene	1930	1910		ug/Kg		99	65 - 145
Ethylbenzene	1930	1890		ug/Kg		98	80 - 125
Hexachlorobutadiene	1930	2150		ug/Kg		111	80 - 150
2-Hexanone	9660	10800		ug/Kg		112	55 - 120
Isopropylbenzene	1930	1850		ug/Kg		96	80 - 130
p-Isopropyltoluene	1930	1910		ug/Kg		99	80 - 120
4-Methyl-2-pentanone (MIBK)	9660	10900		ug/Kg		113	50 - 120
Methyl tert-butyl ether	1930	2070		ug/Kg		107	75 - 125
Methylene Chloride	1930	1890		ug/Kg		98	75 - 125
Naphthalene	1930	2030		ug/Kg		105	80 - 130
N-Propylbenzene	1930	1970		ug/Kg		102	80 - 120
Styrene	1930	1750		ug/Kg		91	80 - 125
1,1,1,2-Tetrachloroethane	1930	2040		ug/Kg		106	80 - 130
1,1,2,2-Tetrachloroethane	1930	1950		ug/Kg		101	70 - 135
Tetrachloroethene	1930	1740		ug/Kg		90	80 - 125
Toluene	1930	1790		ug/Kg		92	80 - 120
1,2,3-Trichlorobenzene	1930	1970		ug/Kg		102	80 - 145
1,2,4-Trichlorobenzene	1930	2020		ug/Kg		105	85 - 150
1,1,1-Trichloroethane	1930	1880		ug/Kg		97	80 - 125
1,1,2-Trichloroethane	1930	1890		ug/Kg		98	80 - 125
Trichloroethene	1930	1740		ug/Kg		90	80 - 125
Trichlorofluoromethane	1930	2210		ug/Kg		114	55 - 150
1,2,3-Trichloropropane	1930	1870		ug/Kg		97	65 - 125
1,2,4-Trimethylbenzene	1930	1960		ug/Kg		101	80 - 135
1,3,5-Trimethylbenzene	1930	1980		ug/Kg		102	80 - 135
Vinyl chloride	1930	1780		ug/Kg		92	10 - 140
m,p-Xylene	3860	3820		ug/Kg		99	80 - 120
o-Xylene	1930	1880		ug/Kg		98	80 - 125
1,2-Dichlorobenzene	1930	1800		ug/Kg		93	80 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: LCS 250-20216/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20244**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20216**

<i>Surrogate</i>	<i>LCS %Recovery</i>	<i>LCS Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	101		75 - 125
4-Bromofluorobenzene (Surr)	105		75 - 125
Dibromofluoromethane (Surr)	102		75 - 125
Toluene-d8 (Surr)	103		75 - 125

**Lab Sample ID: MB 250-20498/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20532**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20498**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		2500	500	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Benzene	ND		100	20	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Bromobenzene	ND		100	20	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Bromochloromethane	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Bromodichloromethane	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Bromoform	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Bromomethane	ND		500	28	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
2-Butanone (MEK)	ND		1000	300	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
n-Butylbenzene	ND		500	52	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
sec-Butylbenzene	27.8	J	100	20	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
tert-Butylbenzene	16.0	J	100	13	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Carbon disulfide	ND		1000	39	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Carbon tetrachloride	ND		100	19	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Chlorobenzene	ND		100	19	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Chloroethane	ND		100	22	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Chloroform	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Chloromethane	ND		500	15	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
2-Chlorotoluene	14.2	J	100	13	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
4-Chlorotoluene	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2-Dibromo-3-Chloropropane	102	J	500	100	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Dibromochloromethane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2-Dibromoethane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Dibromomethane	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2-Dichloroethane	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,3-Dichlorobenzene	22.5	J	100	17	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,4-Dichlorobenzene	ND		100	29	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Dichlorodifluoromethane	ND		500	25	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,1-Dichloroethane	ND		100	19	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,1-Dichloroethene	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
trans-1,2-Dichloroethene	ND		100	20	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2-Dichloropropane	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,3-Dichloropropane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
2,2-Dichloropropane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,1-Dichloropropene	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
cis-1,3-Dichloropropene	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
trans-1,3-Dichloropropene	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Ethylbenzene	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:23	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: MB 250-20498/1-A**

**Matrix: Solid**

**Analysis Batch: 20532**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20498**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Hexachlorobutadiene	353	J	400	18	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
2-Hexanone	ND		1000	220	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Isopropylbenzene	ND		200	36	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
p-Isopropyltoluene	30.4	J	200	11	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
4-Methyl-2-pentanone (MIBK)	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Methyl tert-butyl ether	ND		100	13	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Methylene Chloride	14.9	J	500	14	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Naphthalene	224		200	24	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
N-Propylbenzene	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Styrene	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,1,1,2-Tetrachloroethane	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,1,2,2-Tetrachloroethane	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Tetrachloroethene	ND		100	27	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Toluene	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2,3-Trichlorobenzene	286	J	500	100	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2,4-Trichlorobenzene	164		100	25	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,1,1-Trichloroethane	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,1,2-Trichloroethane	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Trichloroethene	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Trichlorofluoromethane	ND		100	22	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2,3-Trichloropropane	22.0	J	100	21	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2,4-Trimethylbenzene	ND		100	46	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,3,5-Trimethylbenzene	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Vinyl chloride	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
m,p-Xylene	ND		200	36	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
o-Xylene	ND		100	23	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2-Dichlorobenzene	31.8	J	100	14	ug/Kg		09/25/13 16:06	09/26/13 11:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	100		75 - 125	09/25/13 16:06	09/26/13 11:23	1
4-Bromofluorobenzene (Surr)	96		75 - 125	09/25/13 16:06	09/26/13 11:23	1
Dibromofluoromethane (Surr)	94		75 - 125	09/25/13 16:06	09/26/13 11:23	1
Toluene-d8 (Surr)	97		75 - 125	09/25/13 16:06	09/26/13 11:23	1

**Lab Sample ID: MB 250-20498/1-A**

**Matrix: Solid**

**Analysis Batch: 20532**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20498**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		2500	500	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Benzene	ND		100	20	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Bromobenzene	ND		100	20	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Bromochloromethane	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Bromodichloromethane	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Bromoform	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Bromomethane	ND		500	28	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
2-Butanone (MEK)	ND		1000	300	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
n-Butylbenzene	ND		500	52	ug/Kg		09/25/13 16:06	09/26/13 11:47	1

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: MB 250-20498/1-A**

**Matrix: Solid**

**Analysis Batch: 20532**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20498**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
sec-Butylbenzene	ND		100	20	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
tert-Butylbenzene	ND		100	13	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Carbon disulfide	ND		1000	39	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Carbon tetrachloride	ND		100	19	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Chlorobenzene	ND		100	19	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Chloroethane	ND		100	22	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Chloroform	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Chloromethane	ND		500	15	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
2-Chlorotoluene	ND		100	13	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
4-Chlorotoluene	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2-Dibromo-3-Chloropropane	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Dibromochloromethane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2-Dibromoethane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Dibromomethane	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2-Dichloroethane	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,3-Dichlorobenzene	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,4-Dichlorobenzene	ND		100	29	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Dichlorodifluoromethane	ND		500	25	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,1-Dichloroethane	ND		100	19	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,1-Dichloroethene	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
trans-1,2-Dichloroethene	ND		100	20	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2-Dichloropropane	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,3-Dichloropropane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
2,2-Dichloropropane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,1-Dichloropropene	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
cis-1,3-Dichloropropene	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
trans-1,3-Dichloropropene	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Ethylbenzene	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Hexachlorobutadiene	109	J	400	18	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
2-Hexanone	ND		1000	220	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Isopropylbenzene	ND		200	36	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
p-Isopropyltoluene	ND		200	11	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
4-Methyl-2-pentanone (MIBK)	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Methyl tert-butyl ether	ND		100	13	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Methylene Chloride	ND		500	14	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Naphthalene	27.7	J	200	24	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
N-Propylbenzene	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Styrene	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,1,1,2-Tetrachloroethane	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,1,2,2-Tetrachloroethane	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Tetrachloroethene	ND		100	27	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Toluene	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2,3-Trichlorobenzene	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2,4-Trichlorobenzene	26.7	J	100	25	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,1,1-Trichloroethane	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,1,2-Trichloroethane	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Trichloroethene	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:47	1

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: MB 250-20498/1-A**

**Matrix: Solid**

**Analysis Batch: 20532**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20498**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		100	22	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2,3-Trichloropropane	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2,4-Trimethylbenzene	ND		100	46	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,3,5-Trimethylbenzene	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Vinyl chloride	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
m,p-Xylene	ND		200	36	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
o-Xylene	ND		100	23	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2-Dichlorobenzene	ND		100	14	ug/Kg		09/25/13 16:06	09/26/13 11:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 125	09/25/13 16:06	09/26/13 11:47	1
4-Bromofluorobenzene (Surr)	93		75 - 125	09/25/13 16:06	09/26/13 11:47	1
Dibromofluoromethane (Surr)	92		75 - 125	09/25/13 16:06	09/26/13 11:47	1
Toluene-d8 (Surr)	93		75 - 125	09/25/13 16:06	09/26/13 11:47	1

**Lab Sample ID: LCS 250-20498/2-A**

**Matrix: Solid**

**Analysis Batch: 20532**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20498**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	9930	12500		ug/Kg		126	65 - 150
Benzene	1990	1830		ug/Kg		92	80 - 120
Bromobenzene	1990	1860		ug/Kg		93	80 - 120
Bromochloromethane	1990	1840		ug/Kg		93	80 - 120
Bromodichloromethane	1990	1890		ug/Kg		95	80 - 140
Bromoform	1990	1860		ug/Kg		93	75 - 150
Bromomethane	1990	2060		ug/Kg		104	65 - 130
2-Butanone (MEK)	9930	10800		ug/Kg		109	70 - 125
n-Butylbenzene	1990	2080		ug/Kg		105	80 - 150
sec-Butylbenzene	1990	2120		ug/Kg		107	80 - 135
tert-Butylbenzene	1990	2050		ug/Kg		103	80 - 130
Carbon disulfide	3970	4040		ug/Kg		102	65 - 140
Carbon tetrachloride	1990	1950		ug/Kg		98	70 - 130
Chlorobenzene	1990	1880		ug/Kg		94	80 - 125
Chloroethane	1990	1840		ug/Kg		93	75 - 125
Chloroform	1990	1860		ug/Kg		94	80 - 120
Chloromethane	1990	1910		ug/Kg		96	40 - 150
2-Chlorotoluene	1990	1930		ug/Kg		97	80 - 120
4-Chlorotoluene	1990	1960		ug/Kg		99	80 - 125
1,2-Dibromo-3-Chloropropane	1990	1990		ug/Kg		100	60 - 130
Dibromochloromethane	1990	1960		ug/Kg		99	75 - 125
1,2-Dibromoethane	1990	1880		ug/Kg		95	80 - 125
Dibromomethane	1990	1870		ug/Kg		94	80 - 120
1,2-Dichloroethane	1990	1880		ug/Kg		95	80 - 120
1,3-Dichlorobenzene	1990	1900		ug/Kg		96	80 - 125
1,4-Dichlorobenzene	1990	1850		ug/Kg		93	75 - 120
Dichlorodifluoromethane	1990	2010		ug/Kg		101	75 - 120
1,1-Dichloroethane	1990	1860		ug/Kg		94	80 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: LCS 250-20498/2-A**

**Matrix: Solid**

**Analysis Batch: 20532**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20498**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1990	1870		ug/Kg		94	75 - 125
cis-1,2-Dichloroethene	1990	1860		ug/Kg		94	75 - 125
trans-1,2-Dichloroethene	1990	1850		ug/Kg		93	75 - 125
1,2-Dichloropropane	1990	1870		ug/Kg		94	80 - 125
1,3-Dichloropropane	1990	1840		ug/Kg		93	75 - 130
2,2-Dichloropropane	1990	2040		ug/Kg		103	70 - 130
1,1-Dichloropropene	1990	1910		ug/Kg		96	80 - 125
cis-1,3-Dichloropropene	1990	1900		ug/Kg		96	80 - 125
trans-1,3-Dichloropropene	1990	2030		ug/Kg		102	65 - 145
Ethylbenzene	1990	1970		ug/Kg		99	80 - 125
Hexachlorobutadiene	1990	2230		ug/Kg		112	80 - 150
2-Hexanone	9930	10600		ug/Kg		106	55 - 120
Isopropylbenzene	1990	1950		ug/Kg		98	80 - 130
p-Isopropyltoluene	1990	2070		ug/Kg		104	80 - 120
4-Methyl-2-pentanone (MIBK)	9930	10900		ug/Kg		110	50 - 120
Methyl tert-butyl ether	1990	2000		ug/Kg		101	75 - 125
Methylene Chloride	1990	1930		ug/Kg		97	75 - 125
Naphthalene	1990	2140		ug/Kg		108	80 - 130
N-Propylbenzene	1990	2040		ug/Kg		103	80 - 120
Styrene	1990	2060		ug/Kg		104	80 - 125
1,1,1,2-Tetrachloroethane	1990	1930		ug/Kg		97	80 - 130
1,1,1,2,2-Tetrachloroethane	1990	1940		ug/Kg		98	70 - 135
Tetrachloroethene	1990	1890		ug/Kg		95	80 - 125
Toluene	1990	1790		ug/Kg		90	80 - 120
1,2,3-Trichlorobenzene	1990	2050		ug/Kg		103	80 - 145
1,2,4-Trichlorobenzene	1990	2060		ug/Kg		104	85 - 150
1,1,1-Trichloroethane	1990	1910		ug/Kg		96	80 - 125
1,1,2-Trichloroethane	1990	1840		ug/Kg		93	80 - 125
Trichloroethene	1990	1820		ug/Kg		92	80 - 125
Trichlorofluoromethane	1990	1980		ug/Kg		100	55 - 150
1,2,3-Trichloropropane	1990	1890		ug/Kg		95	65 - 125
1,2,4-Trimethylbenzene	1990	2080		ug/Kg		105	80 - 135
1,3,5-Trimethylbenzene	1990	2100		ug/Kg		106	80 - 135
Vinyl chloride	1990	1470		ug/Kg		74	10 - 140
m,p-Xylene	3970	3990		ug/Kg		101	80 - 120
o-Xylene	1990	1990		ug/Kg		100	80 - 125
1,2-Dichlorobenzene	1990	1870		ug/Kg		94	80 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		75 - 125
4-Bromofluorobenzene (Surr)	97		75 - 125
Dibromofluoromethane (Surr)	96		75 - 125
Toluene-d8 (Surr)	95		75 - 125

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: MB 280-192002/1-A**

**Matrix: Solid**

**Analysis Batch: 192372**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 192002**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		300	9.5	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Acenaphthylene	ND		300	16	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Acetophenone	ND		300	18	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Anthracene	ND		300	16	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Atrazine	ND		300	34	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Benzidine	ND		3000	910	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Benzo[a]anthracene	ND		300	18	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Benzo[a]pyrene	ND		300	18	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Benzo[b]fluoranthene	ND		300	24	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Benzo[g,h,i]perylene	ND		300	15	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Benzo[k]fluoranthene	ND		300	37	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Bis(2-chloroethoxy)methane	ND		300	21	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Bis(2-chloroethyl)ether	ND		300	15	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Bis(2-ethylhexyl) phthalate	ND		300	42	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Butyl benzyl phthalate	ND		300	40	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Caprolactam	ND		1500	98	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Carbazole	ND		300	33	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Chrysene	ND		300	25	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Di-n-butyl phthalate	ND		300	27	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Di-n-octyl phthalate	ND		300	13	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Dibenz(a,h)anthracene	ND		300	17	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Dibenzofuran	ND		300	18	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Diethyl phthalate	ND		610	24	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Dimethyl phthalate	82.2	J	300	21	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Fluoranthene	ND		300	33	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Fluorene	ND		300	17	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Hexachlorobenzene	ND		300	27	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Hexachlorobutadiene	ND		300	9.2	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Hexachlorocyclopentadiene	ND		1500	46	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Hexachloroethane	ND		300	20	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Indeno[1,2,3-cd]pyrene	ND		300	20	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Naphthalene	ND		300	29	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Nitrobenzene	ND		300	20	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
N-Nitrosodi-n-propylamine	ND		300	29	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		300	19	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Pentachlorophenol	ND		1500	300	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Phenol	ND		300	17	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Phenanthrene	ND		300	16	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
Pyrene	ND		300	11	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
2,2'-oxybis[1-chloropropane]	ND		300	21	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
2-Chloronaphthalene	ND		300	9.2	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
2-Chlorophenol	ND		300	19	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
2-Methylnaphthalene	ND		300	17	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
2-Methylphenol	ND		300	12	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
2-Nitroaniline	ND		1500	46	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
2-Nitrophenol	ND		300	9.2	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
2,4-Dichlorophenol	ND		300	9.2	ug/Kg		09/18/13 19:20	09/20/13 09:57	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: MB 280-192002/1-A**

**Matrix: Solid**

**Analysis Batch: 192372**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 192002**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-Dimethylphenol	ND		300	61	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
2,4-Dinitrophenol	ND		1500	310	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
2,4-Dinitrotoluene	ND		300	61	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
2,6-Dinitrotoluene	ND		300	26	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
2,4,5-Trichlorophenol	ND		300	9.2	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
2,4,6-Trichlorophenol	ND		300	9.2	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
3,3'-Dichlorobenzidine	ND		610	83	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
3 & 4 Methylphenol	ND		300	30	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
3-Nitroaniline	ND		1500	67	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
4-Bromophenyl phenyl ether	ND		300	17	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
4-Chloro-3-methylphenol	ND		300	61	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
4-Chloroaniline	ND		300	75	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
4-Chlorophenyl phenyl ether	ND		300	19	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
4-Nitroaniline	ND		1500	67	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
4-Nitrophenol	ND		1500	89	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
4,6-Dinitro-2-methylphenol	ND		1500	300	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
1,4-Dichlorobenzene	ND		300	13	ug/Kg		09/18/13 19:20	09/20/13 09:57	1
1,2,4-Trichlorobenzene	ND		300	26	ug/Kg		09/18/13 19:20	09/20/13 09:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol	83		53 - 120	09/18/13 19:20	09/20/13 09:57	1
Phenol-d5	85		52 - 120	09/18/13 19:20	09/20/13 09:57	1
Nitrobenzene-d5	81		50 - 120	09/18/13 19:20	09/20/13 09:57	1
2-Fluorobiphenyl	83		50 - 120	09/18/13 19:20	09/20/13 09:57	1
2,4,6-Tribromophenol	84		51 - 120	09/18/13 19:20	09/20/13 09:57	1
Terphenyl-d14	95		55 - 120	09/18/13 19:20	09/20/13 09:57	1

**Lab Sample ID: LCS 280-192002/2-A**

**Matrix: Solid**

**Analysis Batch: 192372**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 192002**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Acenaphthene	2570	2050		ug/Kg		80	60 - 120
Acenaphthylene	2570	2060		ug/Kg		80	64 - 120
Anthracene	2570	2130		ug/Kg		83	63 - 120
Benzo[a]anthracene	2570	2140		ug/Kg		83	65 - 120
Benzo[a]pyrene	2570	2220		ug/Kg		86	59 - 120
Benzo[b]fluoranthene	2570	2270		ug/Kg		88	47 - 129
Benzo[g,h,i]perylene	2570	2300		ug/Kg		89	55 - 126
Benzo[k]fluoranthene	2570	2300		ug/Kg		89	48 - 130
Bis(2-chloroethoxy)methane	2570	2010		ug/Kg		78	56 - 120
Bis(2-chloroethyl)ether	2570	2030		ug/Kg		79	51 - 120
Bis(2-ethylhexyl) phthalate	2570	2200		ug/Kg		85	65 - 120
Butyl benzyl phthalate	2570	2240		ug/Kg		87	65 - 120
Carbazole	2570	2120		ug/Kg		83	64 - 120
Chrysene	2570	2190		ug/Kg		85	64 - 120
Di-n-butyl phthalate	2570	2210		ug/Kg		86	67 - 120
Di-n-octyl phthalate	2570	2230		ug/Kg		87	66 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: LCS 280-192002/2-A**

**Matrix: Solid**

**Analysis Batch: 192372**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 192002**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenz(a,h)anthracene	2570	2320		ug/Kg		90	50 - 133
Dibenzofuran	2570	2090		ug/Kg		81	61 - 120
Diethyl phthalate	2570	2170		ug/Kg		84	66 - 120
Dimethyl phthalate	2570	2180		ug/Kg		85	65 - 120
Fluoranthene	2570	2170		ug/Kg		84	66 - 120
Fluorene	2570	2120		ug/Kg		82	64 - 120
Hexachlorobenzene	2570	2100		ug/Kg		82	62 - 120
Hexachlorobutadiene	2570	1890		ug/Kg		73	53 - 120
Hexachlorocyclopentadiene	2570	1650		ug/Kg		64	47 - 120
Hexachloroethane	2570	1920		ug/Kg		75	51 - 120
Indeno[1,2,3-cd]pyrene	2570	2220		ug/Kg		86	63 - 120
Naphthalene	2570	1990		ug/Kg		77	57 - 120
Nitrobenzene	2570	1950		ug/Kg		76	54 - 120
N-Nitrosodi-n-propylamine	2570	2010		ug/Kg		78	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	2570	2150		ug/Kg		83	61 - 120
Pentachlorophenol	5140	4320		ug/Kg		84	56 - 120
Phenol	2570	2060		ug/Kg		80	56 - 120
Phenanthrene	2570	2150		ug/Kg		84	64 - 120
Pyrene	2570	2200		ug/Kg		86	64 - 120
2,2'-oxybis[1-chloropropane]	2570	2040		ug/Kg		79	49 - 120
2-Chloronaphthalene	2570	2030		ug/Kg		79	59 - 120
2-Chlorophenol	2570	2040		ug/Kg		79	57 - 120
2-Methylnaphthalene	2570	2000		ug/Kg		78	57 - 120
2-Methylphenol	2570	2050		ug/Kg		80	56 - 120
2-Nitroaniline	2570	2180		ug/Kg		85	63 - 120
2-Nitrophenol	2570	2010		ug/Kg		78	56 - 120
2,4-Dichlorophenol	2570	2050		ug/Kg		80	60 - 120
2,4-Dimethylphenol	2570	1980		ug/Kg		77	54 - 120
2,4-Dinitrophenol	5140	3670		ug/Kg		71	46 - 120
2,4-Dinitrotoluene	2570	2180		ug/Kg		85	68 - 120
2,6-Dinitrotoluene	2570	2170		ug/Kg		85	64 - 120
2,4,5-Trichlorophenol	2570	2170		ug/Kg		84	64 - 120
2,4,6-Trichlorophenol	2570	2170		ug/Kg		85	61 - 120
3,3'-Dichlorobenzidine	2570	1440		ug/Kg		56	30 - 120
3 & 4 Methylphenol	2570	2110		ug/Kg		82	53 - 120
3-Nitroaniline	2570	1510		ug/Kg		59	47 - 120
4-Bromophenyl phenyl ether	2570	2130		ug/Kg		83	64 - 120
4-Chloro-3-methylphenol	2570	2130		ug/Kg		83	63 - 120
4-Chloroaniline	2570	1340		ug/Kg		52	28 - 120
4-Chlorophenyl phenyl ether	2570	2100		ug/Kg		82	64 - 120
4-Nitroaniline	2570	1970		ug/Kg		77	64 - 120
4-Nitrophenol	5140	4230		ug/Kg		82	63 - 121
4,6-Dinitro-2-methylphenol	5140	4000		ug/Kg		78	57 - 120
1,4-Dichlorobenzene	2570	1910		ug/Kg		74	52 - 120
1,2,4-Trichlorobenzene	2570	1950		ug/Kg		76	52 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: LCS 280-192002/2-A**

**Matrix: Solid**

**Analysis Batch: 192372**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 192002**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	85		53 - 120
Phenol-d5	86		52 - 120
Nitrobenzene-d5	80		50 - 120
2-Fluorobiphenyl	85		50 - 120
2,4,6-Tribromophenol	92		51 - 120
Terphenyl-d14	93		55 - 120

**Lab Sample ID: 250-14161-1 MS**

**Matrix: Solid**

**Analysis Batch: 192372**

**Client Sample ID: S-DP-7(1-2)**

**Prep Type: Total/NA**

**Prep Batch: 192002**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Acenaphthene	ND		3310	2770	D	ug/Kg	☼	84	60 - 120
Acenaphthylene	ND		3310	2750	D	ug/Kg	☼	83	64 - 120
Anthracene	84	J	3310	2810	D	ug/Kg	☼	85	63 - 120
Benzo[a]anthracene	160	J	3310	2960	D	ug/Kg	☼	84	65 - 120
Benzo[a]pyrene	ND		3310	2860	D	ug/Kg	☼	86	59 - 120
Benzo[b]fluoranthene	ND		3310	2960	D	ug/Kg	☼	89	47 - 129
Benzo[g,h,i]perylene	110	J	3310	2660	D	ug/Kg	☼	77	55 - 126
Benzo[k]fluoranthene	ND		3310	2670	D	ug/Kg	☼	80	48 - 130
Bis(2-chloroethoxy)methane	ND		3310	2630	D	ug/Kg	☼	79	56 - 120
Bis(2-chloroethyl)ether	ND		3310	2380	D	ug/Kg	☼	72	51 - 120
Bis(2-ethylhexyl) phthalate	ND		3310	3510	D	ug/Kg	☼	106	65 - 120
Butyl benzyl phthalate	ND		3310	3330	D	ug/Kg	☼	101	65 - 120
Carbazole	ND		3310	2820	D	ug/Kg	☼	85	64 - 120
Chrysene	200	J	3310	2980	D	ug/Kg	☼	84	64 - 120
Di-n-butyl phthalate	ND		3310	3090	D	ug/Kg	☼	93	67 - 120
Di-n-octyl phthalate	ND		3310	3550	D	ug/Kg	☼	107	66 - 120
Dibenz(a,h)anthracene	ND		3310	2810	D	ug/Kg	☼	85	50 - 133
Dibenzofuran	ND		3310	2780	D	ug/Kg	☼	84	61 - 120
Diethyl phthalate	ND		3310	2910	J D	ug/Kg	☼	88	66 - 120
Dimethyl phthalate	470	J B	3310	3590	D	ug/Kg	☼	94	65 - 120
Fluoranthene	250	J	3310	2990	D	ug/Kg	☼	83	66 - 120
Fluorene	ND		3310	2770	D	ug/Kg	☼	84	64 - 120
Hexachlorobenzene	ND		3310	2240	D	ug/Kg	☼	68	62 - 120
Hexachlorobutadiene	ND		3310	2340	D	ug/Kg	☼	71	53 - 120
Hexachlorocyclopentadiene	ND		3310	ND	D F	ug/Kg	☼	0	47 - 120
Hexachloroethane	ND		3310	1390	J D F	ug/Kg	☼	42	51 - 120
Indeno[1,2,3-cd]pyrene	ND		3310	2890	D	ug/Kg	☼	87	63 - 120
Naphthalene	ND		3310	2570	D	ug/Kg	☼	78	57 - 120
Nitrobenzene	ND		3310	2510	D	ug/Kg	☼	76	54 - 120
N-Nitrosodi-n-propylamine	ND		3310	2600	D	ug/Kg	☼	79	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	ND		3310	2960	D	ug/Kg	☼	89	61 - 120
Pentachlorophenol	ND		6630	5300	J D	ug/Kg	☼	80	56 - 120
Phenol	ND		3310	2710	D	ug/Kg	☼	82	56 - 120
Phenanthrene	240	J	3310	3150	D	ug/Kg	☼	88	64 - 120
Pyrene	390	J	3310	3490	D	ug/Kg	☼	94	64 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: 250-14161-1 MS**

**Matrix: Solid**

**Analysis Batch: 192372**

**Client Sample ID: S-DP-7(1-2)**

**Prep Type: Total/NA**

**Prep Batch: 192002**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
2,2'-oxybis[1-chloropropane]	ND		3310	2320	D	ug/Kg	*	70	49 - 120	
2-Chloronaphthalene	ND		3310	2740	D	ug/Kg	*	83	59 - 120	
2-Chlorophenol	ND		3310	2620	D	ug/Kg	*	79	57 - 120	
2-Methylnaphthalene	ND		3310	2730	D	ug/Kg	*	82	57 - 120	
2-Methylphenol	ND		3310	2820	D	ug/Kg	*	85	56 - 120	
2-Nitroaniline	ND		3310	3000	J D	ug/Kg	*	91	63 - 120	
2-Nitrophenol	ND		3310	2680	D	ug/Kg	*	81	56 - 120	
2,4-Dichlorophenol	ND		3310	2920	D	ug/Kg	*	88	60 - 120	
2,4-Dimethylphenol	ND		3310	2930	D	ug/Kg	*	88	54 - 120	
2,4-Dinitrophenol	ND		6630	3050	J D	ug/Kg	*	46	46 - 120	
2,4-Dinitrotoluene	ND		3310	2910	D	ug/Kg	*	88	68 - 120	
2,6-Dinitrotoluene	ND		3310	2810	D	ug/Kg	*	85	64 - 120	
2,4,5-Trichlorophenol	ND		3310	2830	D	ug/Kg	*	85	64 - 120	
2,4,6-Trichlorophenol	ND		3310	2990	D	ug/Kg	*	90	61 - 120	
3,3'-Dichlorobenzidine	ND		3310	1630	J D	ug/Kg	*	49	30 - 120	
3 & 4 Methylphenol	ND		3310	2750	D	ug/Kg	*	83	53 - 120	
3-Nitroaniline	ND		3310	2910	J D	ug/Kg	*	88	47 - 120	
4-Bromophenyl phenyl ether	ND		3310	2730	D	ug/Kg	*	82	64 - 120	
4-Chloro-3-methylphenol	ND		3310	3060	D	ug/Kg	*	92	63 - 120	
4-Chloroaniline	ND		3310	2440	D	ug/Kg	*	74	28 - 120	
4-Chlorophenyl phenyl ether	ND		3310	2700	D	ug/Kg	*	81	64 - 120	
4-Nitroaniline	ND		3310	2820	J D	ug/Kg	*	85	64 - 120	
4-Nitrophenol	ND		6630	6170	J D	ug/Kg	*	93	63 - 121	
4,6-Dinitro-2-methylphenol	ND		6630	3200	J D F	ug/Kg	*	48	57 - 120	
1,4-Dichlorobenzene	ND		3310	2040	D	ug/Kg	*	62	52 - 120	
1,2,4-Trichlorobenzene	ND		3310	2460	D	ug/Kg	*	74	52 - 120	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	78	D	53 - 120
Phenol-d5	86	D	52 - 120
Nitrobenzene-d5	80	D	50 - 120
2-Fluorobiphenyl	89	D	50 - 120
2,4,6-Tribromophenol	86	D	51 - 120
Terphenyl-d14	93	D	55 - 120

**Lab Sample ID: 250-14161-1 MSD**

**Matrix: Solid**

**Analysis Batch: 192372**

**Client Sample ID: S-DP-7(1-2)**

**Prep Type: Total/NA**

**Prep Batch: 192002**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Acenaphthene	ND		3310	2900	D	ug/Kg	*	88	60 - 120	5	30	
Acenaphthylene	ND		3310	2880	D	ug/Kg	*	87	64 - 120	5	30	
Anthracene	84	J	3310	3040	D	ug/Kg	*	92	63 - 120	8	30	
Benzo[a]anthracene	160	J	3310	3220	D	ug/Kg	*	93	65 - 120	9	30	
Benzo[a]pyrene	ND		3310	3150	D	ug/Kg	*	95	59 - 120	10	30	
Benzo[b]fluoranthene	ND		3310	3120	D	ug/Kg	*	94	47 - 129	5	44	
Benzo[g,h,i]perylene	110	J	3310	3030	D	ug/Kg	*	88	55 - 126	13	31	
Benzo[k]fluoranthene	ND		3310	2970	D	ug/Kg	*	90	48 - 130	11	30	

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: 250-14161-1 MSD**

**Matrix: Solid**

**Analysis Batch: 192372**

**Client Sample ID: S-DP-7(1-2)**

**Prep Type: Total/NA**

**Prep Batch: 192002**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Bis(2-chloroethoxy)methane	ND		3310	2660	D	ug/Kg	☼	80	56 - 120	1	30
Bis(2-chloroethyl)ether	ND		3310	2470	D	ug/Kg	☼	75	51 - 120	4	30
Bis(2-ethylhexyl) phthalate	ND		3310	3670	D	ug/Kg	☼	111	65 - 120	4	30
Butyl benzyl phthalate	ND		3310	3340	D	ug/Kg	☼	101	65 - 120	0	30
Carbazole	ND		3310	2880	D	ug/Kg	☼	87	64 - 120	2	30
Chrysene	200	J	3310	3250	D	ug/Kg	☼	92	64 - 120	9	35
Di-n-butyl phthalate	ND		3310	3120	D	ug/Kg	☼	94	67 - 120	1	30
Di-n-octyl phthalate	ND		3310	3680	D	ug/Kg	☼	111	66 - 120	3	30
Dibenz(a,h)anthracene	ND		3310	2960	D	ug/Kg	☼	89	50 - 133	5	30
Dibenzofuran	ND		3310	2890	D	ug/Kg	☼	87	61 - 120	4	30
Diethyl phthalate	ND		3310	2970	J D	ug/Kg	☼	89	66 - 120	2	30
Dimethyl phthalate	470	J B	3310	3070	D	ug/Kg	☼	78	65 - 120	16	30
Fluoranthene	250	J	3310	3420	D	ug/Kg	☼	96	66 - 120	14	30
Fluorene	ND		3310	2980	D	ug/Kg	☼	90	64 - 120	7	30
Hexachlorobenzene	ND		3310	2750	D	ug/Kg	☼	83	62 - 120	21	30
Hexachlorobutadiene	ND		3310	2570	D	ug/Kg	☼	78	53 - 120	9	30
Hexachlorocyclopentadiene	ND		3310	ND	D F	ug/Kg	☼	0	47 - 120	NC	30
Hexachloroethane	ND		3310	1540	J D F	ug/Kg	☼	46	51 - 120	10	30
Indeno[1,2,3-cd]pyrene	ND		3310	3190	D	ug/Kg	☼	96	63 - 120	10	30
Naphthalene	ND		3310	2610	D	ug/Kg	☼	79	57 - 120	1	30
Nitrobenzene	ND		3310	2590	D	ug/Kg	☼	78	54 - 120	3	30
N-Nitrosodi-n-propylamine	ND		3310	2690	D	ug/Kg	☼	81	51 - 120	3	30
n-Nitrosodiphenylamine(as diphenylamine)	ND		3310	2940	D	ug/Kg	☼	89	61 - 120	1	36
Pentachlorophenol	ND		6630	5540	J D	ug/Kg	☼	84	56 - 120	4	30
Phenol	ND		3310	2710	D	ug/Kg	☼	82	56 - 120	0	30
Phenanthrene	240	J	3310	3810	D	ug/Kg	☼	108	64 - 120	19	30
Pyrene	390	J	3310	3950	D	ug/Kg	☼	107	64 - 120	12	38
2,2'-oxybis[1-chloropropane]	ND		3310	2520	D	ug/Kg	☼	76	49 - 120	9	30
2-Chloronaphthalene	ND		3310	2880	D	ug/Kg	☼	87	59 - 120	5	30
2-Chlorophenol	ND		3310	2600	D	ug/Kg	☼	79	57 - 120	0	30
2-Methylnaphthalene	ND		3310	2800	D	ug/Kg	☼	84	57 - 120	3	30
2-Methylphenol	ND		3310	2800	D	ug/Kg	☼	84	56 - 120	1	30
2-Nitroaniline	ND		3310	3080	J D	ug/Kg	☼	93	63 - 120	3	30
2-Nitrophenol	ND		3310	2780	D	ug/Kg	☼	84	56 - 120	4	30
2,4-Dichlorophenol	ND		3310	2880	D	ug/Kg	☼	87	60 - 120	1	30
2,4-Dimethylphenol	ND		3310	2870	D	ug/Kg	☼	87	54 - 120	2	30
2,4-Dinitrophenol	ND		6630	2560	J D F	ug/Kg	☼	39	46 - 120	17	34
2,4-Dinitrotoluene	ND		3310	2820	D	ug/Kg	☼	85	68 - 120	3	30
2,6-Dinitrotoluene	ND		3310	2950	D	ug/Kg	☼	89	64 - 120	5	30
2,4,5-Trichlorophenol	ND		3310	2900	D	ug/Kg	☼	87	64 - 120	2	30
2,4,6-Trichlorophenol	ND		3310	2980	D	ug/Kg	☼	90	61 - 120	0	30
3,3'-Dichlorobenzidine	ND		3310	1840	J D	ug/Kg	☼	56	30 - 120	12	30
3 & 4 Methylphenol	ND		3310	2800	D	ug/Kg	☼	84	53 - 120	2	30
3-Nitroaniline	ND		3310	2830	J D	ug/Kg	☼	85	47 - 120	3	30
4-Bromophenyl phenyl ether	ND		3310	2840	D	ug/Kg	☼	86	64 - 120	4	30
4-Chloro-3-methylphenol	ND		3310	3090	D	ug/Kg	☼	93	63 - 120	1	30
4-Chloroaniline	ND		3310	2340	D	ug/Kg	☼	71	28 - 120	4	30

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: 250-14161-1 MSD**

**Matrix: Solid**

**Analysis Batch: 192372**

**Client Sample ID: S-DP-7(1-2)**

**Prep Type: Total/NA**

**Prep Batch: 192002**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
4-Chlorophenyl phenyl ether	ND		3310	2830	D	ug/Kg	✱	85	64 - 120	5	30
4-Nitroaniline	ND		3310	2890	J D	ug/Kg	✱	87	64 - 120	2	30
4-Nitrophenol	ND		6630	6380	J D	ug/Kg	✱	96	63 - 121	3	30
4,6-Dinitro-2-methylphenol	ND		6630	2620	J D F	ug/Kg	✱	39	57 - 120	20	30
1,4-Dichlorobenzene	ND		3310	2230	D	ug/Kg	✱	67	52 - 120	9	30
1,2,4-Trichlorobenzene	ND		3310	2650	D	ug/Kg	✱	80	52 - 120	7	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorophenol	78	D	53 - 120
Phenol-d5	86	D	52 - 120
Nitrobenzene-d5	81	D	50 - 120
2-Fluorobiphenyl	90	D	50 - 120
2,4,6-Tribromophenol	95	D	51 - 120
Terphenyl-d14	98	D	55 - 120

**Lab Sample ID: MB 280-193304/1-A**

**Matrix: Solid**

**Analysis Batch: 193709**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 193304**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		330	10	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Acenaphthylene	ND		330	17	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Acetophenone	ND		330	20	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Anthracene	ND		330	17	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Atrazine	ND		330	37	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Benzidine	ND		3300	990	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Benzo[a]anthracene	ND		330	20	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Benzo[a]pyrene	ND		330	20	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Benzo[b]fluoranthene	ND		330	26	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Benzo[g,h,i]perylene	ND		330	16	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Benzo[k]fluoranthene	ND		330	40	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Bis(2-chloroethoxy)methane	ND		330	23	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Bis(2-chloroethyl)ether	ND		330	17	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Bis(2-ethylhexyl) phthalate	ND		330	46	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Butyl benzyl phthalate	ND		330	43	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Caprolactam	ND		1600	110	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Carbazole	ND		330	36	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Chrysene	ND		330	27	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Di-n-butyl phthalate	ND		330	29	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Di-n-octyl phthalate	ND		330	14	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Dibenz(a,h)anthracene	ND		330	19	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Dibenzofuran	ND		330	20	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Diethyl phthalate	ND		660	26	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Dimethyl phthalate	253	J	330	23	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Fluoranthene	ND		330	36	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Fluorene	ND		330	18	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Hexachlorobenzene	ND		330	29	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Hexachlorobutadiene	ND		330	10	ug/Kg		09/26/13 19:40	09/30/13 14:10	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

Lab Sample ID: MB 280-193304/1-A

Matrix: Solid

Analysis Batch: 193709

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 193304

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		1600	50	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Hexachloroethane	ND		330	21	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Indeno[1,2,3-cd]pyrene	ND		330	22	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Naphthalene	ND		330	31	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Nitrobenzene	ND		330	22	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
N-Nitrosodi-n-propylamine	ND		330	31	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		330	21	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Pentachlorophenol	ND		1600	330	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Phenol	ND		330	18	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Phenanthrene	ND		330	17	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
Pyrene	ND		330	12	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
2,2'-oxybis[1-chloropropane]	ND		330	23	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
2-Chloronaphthalene	ND		330	10	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
2-Chlorophenol	ND		330	21	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
2-Methylnaphthalene	ND		330	19	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
2-Methylphenol	ND		330	13	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
2-Nitroaniline	ND		1600	50	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
2-Nitrophenol	ND		330	10	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
2,4-Dichlorophenol	ND		330	10	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
2,4-Dimethylphenol	ND		330	66	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
2,4-Dinitrophenol	ND		1600	330	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
2,4-Dinitrotoluene	ND		330	66	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
2,6-Dinitrotoluene	ND		330	28	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
2,4,5-Trichlorophenol	ND		330	10	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
2,4,6-Trichlorophenol	ND		330	10	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
3,3'-Dichlorobenzidine	ND		660	90	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
3 & 4 Methylphenol	ND		330	33	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
3-Nitroaniline	ND		1600	73	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
4-Bromophenyl phenyl ether	ND		330	19	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
4-Chloro-3-methylphenol	ND		330	66	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
4-Chloroaniline	ND		330	82	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
4-Chlorophenyl phenyl ether	ND		330	21	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
4-Nitroaniline	ND		1600	72	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
4-Nitrophenol	ND		1600	97	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
4,6-Dinitro-2-methylphenol	ND		1600	330	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
1,4-Dichlorobenzene	ND		330	14	ug/Kg		09/26/13 19:40	09/30/13 14:10	1
1,2,4-Trichlorobenzene	ND		330	28	ug/Kg		09/26/13 19:40	09/30/13 14:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		53 - 120	09/26/13 19:40	09/30/13 14:10	1
Phenol-d5	76		52 - 120	09/26/13 19:40	09/30/13 14:10	1
Nitrobenzene-d5	75		50 - 120	09/26/13 19:40	09/30/13 14:10	1
2-Fluorobiphenyl	77		50 - 120	09/26/13 19:40	09/30/13 14:10	1
2,4,6-Tribromophenol	76		51 - 120	09/26/13 19:40	09/30/13 14:10	1
Terphenyl-d14	87		55 - 120	09/26/13 19:40	09/30/13 14:10	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: LCS 280-193304/2-A**

**Matrix: Solid**

**Analysis Batch: 193709**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 193304**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	2670	2070		ug/Kg		78	60 - 120
Acenaphthylene	2670	2000		ug/Kg		75	64 - 120
Anthracene	2670	2120		ug/Kg		80	63 - 120
Benzo[a]anthracene	2670	2160		ug/Kg		81	65 - 120
Benzo[a]pyrene	2670	2220		ug/Kg		83	59 - 120
Benzo[b]fluoranthene	2670	2240		ug/Kg		84	47 - 129
Benzo[g,h,i]perylene	2670	2290		ug/Kg		86	55 - 126
Benzo[k]fluoranthene	2670	2390		ug/Kg		90	48 - 130
Bis(2-chloroethoxy)methane	2670	1870		ug/Kg		70	56 - 120
Bis(2-chloroethyl)ether	2670	1900		ug/Kg		71	51 - 120
Bis(2-ethylhexyl) phthalate	2670	2170		ug/Kg		81	65 - 120
Butyl benzyl phthalate	2670	2160		ug/Kg		81	65 - 120
Carbazole	2670	2160		ug/Kg		81	64 - 120
Chrysene	2670	2200		ug/Kg		83	64 - 120
Di-n-butyl phthalate	2670	2190		ug/Kg		82	67 - 120
Di-n-octyl phthalate	2670	2070		ug/Kg		78	66 - 120
Dibenz(a,h)anthracene	2670	2350		ug/Kg		88	50 - 133
Dibenzofuran	2670	2120		ug/Kg		79	61 - 120
Diethyl phthalate	2670	2210		ug/Kg		83	66 - 120
Dimethyl phthalate	2670	2390		ug/Kg		89	65 - 120
Fluoranthene	2670	2180		ug/Kg		82	66 - 120
Fluorene	2670	2170		ug/Kg		82	64 - 120
Hexachlorobenzene	2670	2190		ug/Kg		82	62 - 120
Hexachlorobutadiene	2670	1780		ug/Kg		67	53 - 120
Hexachlorocyclopentadiene	2670	1640		ug/Kg		61	47 - 120
Hexachloroethane	2670	1690		ug/Kg		63	51 - 120
Indeno[1,2,3-cd]pyrene	2670	2100		ug/Kg		79	63 - 120
Naphthalene	2670	1810		ug/Kg		68	57 - 120
Nitrobenzene	2670	1800		ug/Kg		67	54 - 120
N-Nitrosodi-n-propylamine	2670	1770		ug/Kg		66	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	2670	2150		ug/Kg		80	61 - 120
Pentachlorophenol	5330	4370		ug/Kg		82	56 - 120
Phenol	2670	1860		ug/Kg		70	56 - 120
Phenanthrene	2670	2180		ug/Kg		82	64 - 120
Pyrene	2670	2190		ug/Kg		82	64 - 120
2,2'-oxybis[1-chloropropane]	2670	1570		ug/Kg		59	49 - 120
2-Chloronaphthalene	2670	1960		ug/Kg		73	59 - 120
2-Chlorophenol	2670	1840		ug/Kg		69	57 - 120
2-Methylnaphthalene	2670	1890		ug/Kg		71	57 - 120
2-Methylphenol	2670	1860		ug/Kg		70	56 - 120
2-Nitroaniline	2670	2110		ug/Kg		79	63 - 120
2-Nitrophenol	2670	1900		ug/Kg		71	56 - 120
2,4-Dichlorophenol	2670	1970		ug/Kg		74	60 - 120
2,4-Dimethylphenol	2670	1960		ug/Kg		73	54 - 120
2,4-Dinitrophenol	5330	4060		ug/Kg		76	46 - 120
2,4-Dinitrotoluene	2670	2270		ug/Kg		85	68 - 120
2,6-Dinitrotoluene	2670	2200		ug/Kg		82	64 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: LCS 280-193304/2-A**

**Matrix: Solid**

**Analysis Batch: 193709**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 193304**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	2670	2190		ug/Kg		82	64 - 120
2,4,6-Trichlorophenol	2670	2130		ug/Kg		80	61 - 120
3,3'-Dichlorobenzidine	2670	1310		ug/Kg		49	30 - 120
3 & 4 Methylphenol	2670	1910		ug/Kg		72	53 - 120
3-Nitroaniline	2670	1710		ug/Kg		64	47 - 120
4-Bromophenyl phenyl ether	2670	2190		ug/Kg		82	64 - 120
4-Chloro-3-methylphenol	2670	2080		ug/Kg		78	63 - 120
4-Chloroaniline	2670	1280		ug/Kg		48	28 - 120
4-Chlorophenyl phenyl ether	2670	2140		ug/Kg		80	64 - 120
4-Nitroaniline	2670	2110		ug/Kg		79	64 - 120
4-Nitrophenol	5330	4300		ug/Kg		81	63 - 121
4,6-Dinitro-2-methylphenol	5330	4240		ug/Kg		80	57 - 120
1,4-Dichlorobenzene	2670	1700		ug/Kg		64	52 - 120
1,2,4-Trichlorobenzene	2670	1810		ug/Kg		68	52 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	68		53 - 120
Phenol-d5	70		52 - 120
Nitrobenzene-d5	67		50 - 120
2-Fluorobiphenyl	74		50 - 120
2,4,6-Tribromophenol	83		51 - 120
Terphenyl-d14	81		55 - 120

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-20185/1-A**

**Matrix: Solid**

**Analysis Batch: 20228**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20185**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.0		mg/Kg		09/17/13 10:51	09/17/13 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	111		50 - 150	09/17/13 10:51	09/17/13 11:35	1

**Lab Sample ID: LCS 250-20185/2-A**

**Matrix: Solid**

**Analysis Batch: 20228**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20185**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	24.7	30.7		mg/Kg		125	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	113		50 - 150

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 250-14161-1 DU**

**Matrix: Solid**

**Analysis Batch: 20228**

**Client Sample ID: S-DP-7(1-2)**

**Prep Type: Total/NA**

**Prep Batch: 20185**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Gasoline Range Hydrocarbons	81		80.6		mg/Kg	☼	0.3	40
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
<i>a,a,a-Trifluorotoluene (fid)</i>	88		50 - 150					

**Lab Sample ID: MB 250-20288/1-A**

**Matrix: Solid**

**Analysis Batch: 20341**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20288**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Hydrocarbons	ND		3.9		mg/Kg		09/19/13 10:06	09/19/13 11:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene (fid)</i>	106		50 - 150				09/19/13 10:06	09/19/13 11:09	1

**Lab Sample ID: LCS 250-20288/2-A**

**Matrix: Solid**

**Analysis Batch: 20341**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20288**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Gasoline Range Hydrocarbons	24.6	25.1		mg/Kg		102	70 - 130
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
<i>a,a,a-Trifluorotoluene (fid)</i>	106		50 - 150				

**Lab Sample ID: 250-14161-18 MS**

**Matrix: Solid**

**Analysis Batch: 20341**

**Client Sample ID: S-DP-23(2-3)**

**Prep Type: Total/NA**

**Prep Batch: 20288**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Gasoline Range Hydrocarbons	ND		34.4	32.9		mg/Kg	☼	96	65 - 130
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
<i>a,a,a-Trifluorotoluene (fid)</i>	119		50 - 150						

**Lab Sample ID: 250-14161-20 DU**

**Matrix: Solid**

**Analysis Batch: 20341**

**Client Sample ID: S-DP-24(2-3)**

**Prep Type: Total/NA**

**Prep Batch: 20288**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Gasoline Range Hydrocarbons	ND		ND		mg/Kg	☼	NC	40
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
<i>a,a,a-Trifluorotoluene (fid)</i>	100		50 - 150					

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 250-14161-40 DU**

**Matrix: Solid**

**Analysis Batch: 20341**

**Client Sample ID: S-DP-39(2-3)**

**Prep Type: Total/NA**

**Prep Batch: 20288**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Gasoline Range Hydrocarbons	ND		ND		mg/Kg	☼	NC	40
Surrogate	%Recovery		DU	DU	Limits			
a,a,a-Trifluorotoluene (fid)	99				50 - 150			

**Lab Sample ID: MB 250-20492/1-A**

**Matrix: Solid**

**Analysis Batch: 20511**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20492**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Hydrocarbons	ND		4.0		mg/Kg		09/25/13 14:49	09/25/13 16:32	1
Surrogate	%Recovery		MB	MB	Limits		Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	105				50 - 150		09/25/13 14:49	09/25/13 16:32	1

**Lab Sample ID: LCS 250-20492/2-A**

**Matrix: Solid**

**Analysis Batch: 20511**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20492**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits	
		Result	Qualifier					
Gasoline Range Hydrocarbons	24.8	25.2		mg/Kg		102	70 - 130	
Surrogate	%Recovery		LCS	LCS	Limits			
a,a,a-Trifluorotoluene (fid)	107				50 - 150			

**Lab Sample ID: LCSD 250-20492/3-A**

**Matrix: Solid**

**Analysis Batch: 20511**

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

**Prep Type: Total/NA**

**Prep Batch: 20492**

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
		Result	Qualifier						
Gasoline Range Hydrocarbons	24.8	26.4		mg/Kg		106	70 - 130	5	40
Surrogate	%Recovery		LCSD	LCSD	Limits				
a,a,a-Trifluorotoluene (fid)	108				50 - 150				

**Lab Sample ID: 250-14161-6 MS**

**Matrix: Solid**

**Analysis Batch: 20511**

**Client Sample ID: S-DP-14(5-6)**

**Prep Type: Total/NA**

**Prep Batch: 20492**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Gasoline Range Hydrocarbons	ND		31.3	32.8		mg/Kg	☼	105	65 - 130
Surrogate	%Recovery		MS	MS	Limits				
a,a,a-Trifluorotoluene (fid)	101				50 - 150				

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 250-14161-2 DU**

**Matrix: Solid**

**Analysis Batch: 20511**

**Client Sample ID: S-DP-7(6.5-7.5)**

**Prep Type: Total/NA**

**Prep Batch: 20492**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Gasoline Range Hydrocarbons	ND		ND		mg/Kg	☼	NC	40
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
<i>a,a,a-Trifluorotoluene (fid)</i>	103		50 - 150					

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-20284/1-A**

**Matrix: Solid**

**Analysis Batch: 20338**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20284**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
DRO (C10-C25)	ND		12		mg/Kg		09/19/13 08:44	09/19/13 11:43	1
RRO (nC25-nC36)	ND		25		mg/Kg		09/19/13 08:44	09/19/13 11:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>1-Chlorooctadecane</i>	101		50 - 150				09/19/13 08:44	09/19/13 11:43	1

**Lab Sample ID: MB 250-20284/1-B**

**Matrix: Solid**

**Analysis Batch: 20346**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20284**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
DRO (C10-C25)	ND		12		mg/Kg		09/19/13 08:44	09/19/13 11:43	1
RRO (nC25-nC36)	ND		25		mg/Kg		09/19/13 08:44	09/19/13 11:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>1-Chlorooctadecane</i>	91		50 - 150				09/19/13 08:44	09/19/13 11:43	1

**Lab Sample ID: LCS 250-20284/2-A**

**Matrix: Solid**

**Analysis Batch: 20338**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20284**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
DRO (C10-C25)	124	122		mg/Kg		98	50 - 150
RRO (nC25-nC36)	74.6	75.5		mg/Kg		101	50 - 150
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
<i>1-Chlorooctadecane</i>	103		50 - 150				

**Lab Sample ID: LCS 250-20284/2-B**

**Matrix: Solid**

**Analysis Batch: 20346**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20284**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
DRO (C10-C25)	124	124		mg/Kg		100	50 - 150
RRO (nC25-nC36)	74.6	73.9		mg/Kg		99	50 - 150

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 250-20284/2-B**  
**Matrix: Solid**  
**Analysis Batch: 20346**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20284**

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctadecane	103		50 - 150

**Lab Sample ID: MB 250-20326/1-B**  
**Matrix: Solid**  
**Analysis Batch: 20380**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20326**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
DRO (C10-C25)	ND		12		mg/Kg		09/20/13 07:17	09/20/13 11:18	1
RRO (nC25-nC36)	ND		25		mg/Kg		09/20/13 07:17	09/20/13 11:18	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctadecane	88		50 - 150	09/20/13 07:17	09/20/13 11:18	1

**Lab Sample ID: LCS 250-20326/2-B**  
**Matrix: Solid**  
**Analysis Batch: 20380**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20326**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
DRO (C10-C25)	125	124		mg/Kg		99	50 - 150
RRO (nC25-nC36)	74.7	71.7		mg/Kg		96	50 - 150

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctadecane	105		50 - 150

**Lab Sample ID: 250-14161-26 DU**  
**Matrix: Solid**  
**Analysis Batch: 20380**

**Client Sample ID: S-DP-27(3-4)**  
**Prep Type: Total/NA**  
**Prep Batch: 20326**

Analyte	Sample Sample		DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
DRO (C10-C25)	ND		ND		mg/Kg	☼	NC	40
RRO (nC25-nC36)	ND		ND		mg/Kg	☼	7	40

	DU	DU	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctadecane	79		50 - 150

**Lab Sample ID: MB 250-20512/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20562**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20512**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
DRO (C10-C25)	ND		12		mg/Kg		09/26/13 09:06	09/26/13 12:57	1
RRO (nC25-nC36)	ND		25		mg/Kg		09/26/13 09:06	09/26/13 12:57	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctadecane	105		50 - 150	09/26/13 09:06	09/26/13 12:57	1

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 250-20512/2-A**

**Matrix: Solid**

**Analysis Batch: 20562**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20512**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C25)	125	124		mg/Kg		99	50 - 150
RRO (nC25-nC36)	74.7	76.0		mg/Kg		102	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctadecane	106		50 - 150

**Lab Sample ID: 250-14161-2 DU**

**Matrix: Solid**

**Analysis Batch: 20562**

**Client Sample ID: S-DP-7(6.5-7.5)**

**Prep Type: Total/NA**

**Prep Batch: 20512**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
DRO (C10-C25)	ND		ND		mg/Kg	☼	115	40
RRO (nC25-nC36)	69		ND		mg/Kg	☼	NC	40

Surrogate	DU %Recovery	DU Qualifier	Limits
1-Chlorooctadecane	89		50 - 150

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

**Lab Sample ID: MB 250-20512/1-B**

**Matrix: Solid**

**Analysis Batch: 20562**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20512**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		12	1.2	mg/Kg		09/26/13 09:06	09/26/13 23:12	1
RRO (nC25-nC36)	ND		25	2.7	mg/Kg		09/26/13 09:06	09/26/13 23:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	108		50 - 150	09/26/13 09:06	09/26/13 23:12	1

**Lab Sample ID: LCS 250-20512/2-B**

**Matrix: Solid**

**Analysis Batch: 20562**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20512**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C25)	125	126		mg/Kg		101	50 - 150
RRO (nC25-nC36)	74.7	79.5		mg/Kg		106	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctadecane	116		50 - 150

**Lab Sample ID: 250-14161-2 DU**

**Matrix: Solid**

**Analysis Batch: 20562**

**Client Sample ID: S-DP-7(6.5-7.5)**

**Prep Type: Total/NA**

**Prep Batch: 20512**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
DRO (C10-C25)	ND		ND		mg/Kg	☼	NC	40

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

(Continued)

**Lab Sample ID: 250-14161-2 DU**

**Matrix: Solid**

**Analysis Batch: 20562**

**Client Sample ID: S-DP-7(6.5-7.5)**

**Prep Type: Total/NA**

**Prep Batch: 20512**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
RRO (nC25-nC36)	ND		ND		mg/Kg	☼	NC	40
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
1-Chlorooctadecane	91		50 - 150					

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

**Lab Sample ID: MB 250-20179/1-A**

**Matrix: Solid**

**Analysis Batch: 20218**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20179**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.48		mg/Kg		09/17/13 08:54	09/17/13 17:27	10
Barium	ND		0.48		mg/Kg		09/17/13 08:54	09/17/13 17:27	10
Cadmium	ND		0.48		mg/Kg		09/17/13 08:54	09/17/13 17:27	10
Chromium	ND		0.95		mg/Kg		09/17/13 08:54	09/17/13 17:27	10
Lead	ND		0.48		mg/Kg		09/17/13 08:54	09/17/13 17:27	10
Selenium	ND		0.48		mg/Kg		09/17/13 08:54	09/17/13 17:27	10
Silver	ND		0.48		mg/Kg		09/17/13 08:54	09/17/13 17:27	10

**Lab Sample ID: LCS 250-20179/2-A**

**Matrix: Solid**

**Analysis Batch: 20218**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20179**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Arsenic	49.1	49.1		mg/Kg		100	80 - 120	
Barium	49.1	51.7		mg/Kg		105	80 - 120	
Cadmium	49.1	53.0		mg/Kg		108	80 - 120	
Chromium	49.1	51.5		mg/Kg		105	80 - 120	
Lead	49.1	53.5		mg/Kg		109	80 - 120	
Selenium	49.1	50.6		mg/Kg		103	80 - 120	
Silver	24.5	26.8		mg/Kg		109	80 - 120	

**Lab Sample ID: 250-14161-1 MS**

**Matrix: Solid**

**Analysis Batch: 20218**

**Client Sample ID: S-DP-7(1-2)**

**Prep Type: Total/NA**

**Prep Batch: 20179**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Arsenic	4.7		62.6	65.7		mg/Kg	☼	98	75 - 125
Barium	72		62.6	135		mg/Kg	☼	100	75 - 125
Cadmium	ND		62.6	65.4		mg/Kg	☼	104	75 - 125
Chromium	48		62.6	119		mg/Kg	☼	114	75 - 125
Lead	31		62.6	98.4		mg/Kg	☼	107	75 - 125
Selenium	ND		62.6	63.0		mg/Kg	☼	101	75 - 125
Silver	ND		31.3	32.4		mg/Kg	☼	104	75 - 125

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

Lab Sample ID: 250-14161-1 MSD

Matrix: Solid

Analysis Batch: 20218

Client Sample ID: S-DP-7(1-2)

Prep Type: Total/NA

Prep Batch: 20179

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Arsenic	4.7		61.9	65.2		mg/Kg	☼	98	75 - 125	1	40
Barium	72		61.9	130		mg/Kg	☼	93	75 - 125	4	40
Cadmium	ND		61.9	65.0		mg/Kg	☼	105	75 - 125	1	40
Chromium	48		61.9	107		mg/Kg	☼	96	75 - 125	11	40
Lead	31		61.9	90.7		mg/Kg	☼	96	75 - 125	8	40
Selenium	ND		61.9	61.2		mg/Kg	☼	99	75 - 125	3	40
Silver	ND		31.0	32.3		mg/Kg	☼	104	75 - 125	0	40

Lab Sample ID: MB 250-20180/1-A

Matrix: Solid

Analysis Batch: 20223

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20180

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.48		mg/Kg		09/17/13 08:56	09/17/13 20:40	10
Barium	ND		0.48		mg/Kg		09/17/13 08:56	09/17/13 20:40	10
Cadmium	ND		0.48		mg/Kg		09/17/13 08:56	09/17/13 20:40	10
Chromium	ND		0.97		mg/Kg		09/17/13 08:56	09/17/13 20:40	10
Lead	ND		0.48		mg/Kg		09/17/13 08:56	09/17/13 20:40	10
Selenium	ND		0.48		mg/Kg		09/17/13 08:56	09/17/13 20:40	10
Silver	ND		0.48		mg/Kg		09/17/13 08:56	09/17/13 20:40	10

Lab Sample ID: LCS 250-20180/2-A

Matrix: Solid

Analysis Batch: 20223

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20180

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Arsenic	48.3	49.1		mg/Kg		102	80 - 120
Barium	48.3	50.2		mg/Kg		104	80 - 120
Cadmium	48.3	50.2		mg/Kg		104	80 - 120
Chromium	48.3	51.7		mg/Kg		107	80 - 120
Lead	48.3	51.7		mg/Kg		107	80 - 120
Selenium	48.3	48.4		mg/Kg		100	80 - 120
Silver	24.2	25.4		mg/Kg		105	80 - 120

Lab Sample ID: 250-14161-14 MS

Matrix: Solid

Analysis Batch: 20223

Client Sample ID: S-DP-20A(2.5-3.5)

Prep Type: Total/NA

Prep Batch: 20180

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
Arsenic	6.8		63.3	65.9		mg/Kg	☼	93	75 - 125
Barium	110		63.3	173		mg/Kg	☼	99	75 - 125
Cadmium	ND		63.3	63.7		mg/Kg	☼	101	75 - 125
Chromium	50		63.3	108		mg/Kg	☼	92	75 - 125
Lead	15		63.3	78.5		mg/Kg	☼	100	75 - 125
Selenium	ND		63.3	61.5		mg/Kg	☼	97	75 - 125
Silver	ND		31.6	31.9		mg/Kg	☼	101	75 - 125

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: 250-14161-14 MSD**

**Matrix: Solid**

**Analysis Batch: 20223**

**Client Sample ID: S-DP-20A(2.5-3.5)**

**Prep Type: Total/NA**

**Prep Batch: 20180**

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Arsenic	6.8		64.0	65.4		mg/Kg	☼	92	75 - 125	1	40
Barium	110		64.0	210	F	mg/Kg	☼	157	75 - 125	20	40
Cadmium	ND		64.0	64.5		mg/Kg	☼	101	75 - 125	1	40
Chromium	50		64.0	128		mg/Kg	☼	122	75 - 125	17	40
Lead	15		64.0	84.7		mg/Kg	☼	108	75 - 125	8	40
Selenium	ND		64.0	61.6		mg/Kg	☼	96	75 - 125	0	40
Silver	ND		32.0	32.2		mg/Kg	☼	100	75 - 125	1	40

**Lab Sample ID: MB 250-20485/1-A**

**Matrix: Solid**

**Analysis Batch: 20508**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20485**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.48		mg/Kg		09/25/13 13:27	09/25/13 16:52	10
Barium	ND		0.48		mg/Kg		09/25/13 13:27	09/25/13 16:52	10
Cadmium	ND		0.48		mg/Kg		09/25/13 13:27	09/25/13 16:52	10
Chromium	ND		0.97		mg/Kg		09/25/13 13:27	09/25/13 16:52	10
Lead	ND		0.48		mg/Kg		09/25/13 13:27	09/25/13 16:52	10
Selenium	ND		0.48		mg/Kg		09/25/13 13:27	09/25/13 16:52	10
Silver	ND		0.48		mg/Kg		09/25/13 13:27	09/25/13 16:52	10

**Lab Sample ID: LCS 250-20485/2-A**

**Matrix: Solid**

**Analysis Batch: 20508**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20485**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Arsenic	49.2	45.6		mg/Kg		93	80 - 120
Barium	49.2	47.0		mg/Kg		95	80 - 120
Cadmium	49.2	45.2		mg/Kg		92	80 - 120
Chromium	49.2	46.9		mg/Kg		95	80 - 120
Lead	49.2	46.3		mg/Kg		94	80 - 120
Selenium	49.2	44.2		mg/Kg		90	80 - 120
Silver	24.6	23.9		mg/Kg		97	80 - 120

**Lab Sample ID: 250-14161-5 MS**

**Matrix: Solid**

**Analysis Batch: 20508**

**Client Sample ID: S-DP-14(1.5-2.5)**

**Prep Type: Total/NA**

**Prep Batch: 20485**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
Arsenic	2.4		51.3	48.4		mg/Kg	☼	90	75 - 125
Barium	82		51.3	149	F	mg/Kg	☼	131	75 - 125
Cadmium	ND		51.3	46.5		mg/Kg	☼	91	75 - 125
Chromium	25		51.3	77.6		mg/Kg	☼	103	75 - 125
Lead	9.2		51.3	57.8		mg/Kg	☼	95	75 - 125
Selenium	ND		51.3	44.9		mg/Kg	☼	87	75 - 125
Silver	ND		25.6	24.0		mg/Kg	☼	93	75 - 125

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

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

**Lab Sample ID: 250-14161-5 MSD**

**Matrix: Solid**

**Analysis Batch: 20508**

**Client Sample ID: S-DP-14(1.5-2.5)**

**Prep Type: Total/NA**

**Prep Batch: 20485**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Arsenic	2.4		50.6	48.2		mg/Kg	☼	90	75 - 125	1	40
Barium	82		50.6	146	F	mg/Kg	☼	128	75 - 125	2	40
Cadmium	ND		50.6	46.4		mg/Kg	☼	91	75 - 125	0	40
Chromium	25		50.6	77.9		mg/Kg	☼	105	75 - 125	0	40
Lead	9.2		50.6	58.7		mg/Kg	☼	98	75 - 125	2	40
Selenium	ND		50.6	44.4		mg/Kg	☼	88	75 - 125	1	40
Silver	ND		25.3	23.8		mg/Kg	☼	94	75 - 125	1	40

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 250-20208/10-A**

**Matrix: Solid**

**Analysis Batch: 20254**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20208**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.089		mg/Kg		09/17/13 16:17	09/18/13 13:22	1

**Lab Sample ID: LCS 250-20208/11-A**

**Matrix: Solid**

**Analysis Batch: 20254**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20208**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Mercury	0.525	0.517		mg/Kg		98	80 - 120

**Lab Sample ID: 250-14161-1 MS**

**Matrix: Solid**

**Analysis Batch: 20254**

**Client Sample ID: S-DP-7(1-2)**

**Prep Type: Total/NA**

**Prep Batch: 20208**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Mercury	0.19		0.734	0.904		mg/Kg	☼	97	75 - 125

**Lab Sample ID: 250-14161-1 MSD**

**Matrix: Solid**

**Analysis Batch: 20254**

**Client Sample ID: S-DP-7(1-2)**

**Prep Type: Total/NA**

**Prep Batch: 20208**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Mercury	0.19		0.725	1.00		mg/Kg	☼	112	75 - 125	10	40

**Lab Sample ID: MB 250-20541/10-A**

**Matrix: Solid**

**Analysis Batch: 20547**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20541**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.084		mg/Kg		09/26/13 14:59	09/26/13 19:26	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Method: 7471A - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 250-20541/11-A**

**Matrix: Solid**

**Analysis Batch: 20547**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20541**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.503	0.506		mg/Kg		101	80 - 120

**Lab Sample ID: 250-14161-5 MS**

**Matrix: Solid**

**Analysis Batch: 20547**

**Client Sample ID: S-DP-14(1.5-2.5)**

**Prep Type: Total/NA**

**Prep Batch: 20541**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.13		0.517	0.583		mg/Kg	✱	87	75 - 125

**Lab Sample ID: 250-14161-5 MSD**

**Matrix: Solid**

**Analysis Batch: 20547**

**Client Sample ID: S-DP-14(1.5-2.5)**

**Prep Type: Total/NA**

**Prep Batch: 20541**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.13		0.539	0.593		mg/Kg	✱	86	75 - 125	2	40

# Certification Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

## Laboratory: TestAmerica Portland

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14

## Laboratory: TestAmerica Denver

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-15
A2LA	ISO/IEC 17025		2907.01	10-31-15
Alaska (UST)	State Program	10	UST-30	04-05-14
Arizona	State Program	9	AZ0713	12-19-13
Arkansas DEQ	State Program	6	88-0687	06-01-14
California	ELAP	9	2513	08-31-14
Colorado	State Program	8	N/A	09-30-14
Connecticut	State Program	1	PH-0686	09-30-14
Florida	NELAP	4	E87667	06-30-14
Idaho	State Program	10	CO00026	09-30-13
Illinois	NELAP	5	200017	04-30-14
Iowa	State Program	7	370	12-01-14
Kansas	NELAP	7	E-10166	04-30-14
Louisiana	NELAP	6	30785	06-30-14 *
Maine	State Program	1	CO0002	03-03-15
Maryland	State Program	3	268	03-31-14
Minnesota	NELAP	5	8-999-405	12-31-13
Nevada	State Program	9	CO0026	09-01-14
New Hampshire	NELAP	1	205310	04-28-14
New Jersey	NELAP	2	CO004	06-30-14
New Mexico	State Program	6	CO00026	06-30-14 *
New York	NELAP	2	11964	04-01-14
North Carolina DENR	State Program	4	358	12-31-13
North Dakota	State Program	8	R-034	06-30-14 *
Oklahoma	State Program	6	8614	08-31-14
Oregon	NELAP	10	CO200001	01-16-14
Pennsylvania	NELAP	3	68-00664	07-30-14
South Carolina	State Program	4	72002	06-30-14 *
Tennessee	State Program	4	TN02944	09-30-13
Texas	NELAP	6	T104704183-08-TX	10-01-14
USDA	Federal		P330-13-00202	07-02-16
Utah	NELAP	8	CO000262012-4	07-31-14
Virginia	NELAP	3	460232	06-14-14
Washington	State Program	10	C583	08-03-14
West Virginia DEP	State Program	3	354	12-30-13 *
Wisconsin	State Program	5	999615430	08-31-14
Wyoming (UST)	A2LA	8		10-31-15

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

TestAmerica Portland

# Method Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14161-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PRT
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL PRT
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL PRT
NWTPH-Dx	Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup	NWTPH	TAL PRT
6020	Metals (ICP/MS)	SW846	TAL PRT
7471A	Mercury (CVAA)	SW846	TAL PRT
D2216-80	Percent Dry Weight (Solids) per ASTM D2216-80	ASTM	TAL PRT

#### Protocol References:

ASTM = ASTM International

NWTPH = Northwest Total Petroleum Hydrocarbon

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

#### Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200





Beaverton, OR 97008  
phone 503.906.9200 fax 503.906.9210

Regulatory Program:  DW  NPDES  RCRA

250-14161 Chain of Custody

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: <u>J Lumb</u>		Site Contact:		Date: <u>9/12/13</u>		COC No:	
Your Company Name here <u>Geo Engineers</u>		Tel/Fax:		Lab Contact:		Carrier:		of COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS/MSD (Y/N) GRAB BY ALUMINUM-GRAVIMETRIC GRAB BY ALUMINUM-DIETHYLENEAMINE VOCs BY EPA 8260 SVOCs BY EPA 8270 METALS BY EPA 7000		For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.: Sampler:		Sample Specific Notes:	
City/State/Zip		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below							
(xxx) xxx-xxxx Phone		<input type="checkbox"/> 2 weeks							
(xxx) xxx-xxxx FAX		<input type="checkbox"/> 1 week							
Project Name:		<input type="checkbox"/> 2 days							
Site:		<input type="checkbox"/> 1 day		P O # <u>18593 001 02</u>					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Other
X S-DP-7 (1-2)		9/12/13	1235	C	S	2	X	X	X X X
A S-DP-7 (6.5-7.5)		9/12/13	1240						
X S-DP-8 (1.5-2.5)			1255						
X S-DP-8 (6.5-7.5)			1300				X	X	
X S-DP-14 (1.5-2.5)			1245				X	X	
X S-DP-14 (5-6)			1247						
X S-DP-15 (2-3)			1330				X	X	
X S-DP-15 (7-8)			1335						
X S-DP-16 (0-1)			1340						
X S-DP-16 (5-6)			1343				X	X	
X S-DP-18 (0-1)			1410				X	X	
X S-DP-18 (4-6)			1413						
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for <u>1</u> Months				
Special Instructions/QC Requirements & Comments: * METALS = ARSENIC, BARIUM, CADMIUM, CHROMIUM, LEAD, MERCURY, SELENIUM AND SILVER <u>1,3,35,5,3 dig 1/L</u>									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C) Obs'd:		Corr'd:		Therm ID No.:	
Relinquished by: <u>MATE HALL</u>		Company: <u>GET</u>		Date/Time: <u>9/13/13 1455</u>		Received by: <u>M. Hall</u>		Company: <u>IAP</u>	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:	

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Client Contact		Project Manager: <u>J Ham 6</u>		Site Contact:		Date: <u>9/13/13</u>		COC No:		
Your Company Name here <u>Geoenvironment</u>		Tel/Fax:		Lab Contact:		Carrier:		_____ of _____ COCs		
Address		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ GLOP BY NUOTPH-GX W/SGC DUTY BY NUOTPH-DX W/SGC VICS BY SA 8260 SNOGS BY SA 8270 METALS BY SA 8009				For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____ Sampler: _____ Sample Specific Notes: _____		
City/State/Zip		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS								
(xxx) xxx-xxxx Phone		TAT if different from Below _____								
(xxx) xxx-xxxx FAX		<input type="checkbox"/> 2 weeks								
Project Name:		<input checked="" type="checkbox"/> 1 week								
Site:		<input type="checkbox"/> 2 days								
P O # <u>18593 001 02</u>		<input type="checkbox"/> 1 day								
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.				
X	S-DP-20(2-3)	9/12/13	1350	G	S	2				RANDOM MS/MSD
X	S-DP-20(2.5-3.5)		1405				X	X	X	
X	S-DP-20(6-7)		1425							
X	S-DP-22(0-1)	9/13/13	0905							
X	S-DP-22(6-7)		0910				X	X		
X	S-DP-23(2-3)		1005				X	X		
X	S-DP-23(7-8)		1010							
X	S-DP-24(2-3)		0930				X	X		
X	S-DP-24(5-6)		0935							
X	S-DP-25(0-1)		0945							
X	S-DP-25(5-6) ( <del>2-3</del> ) 5-6		0950				X	X		
X	S-DP-26(1-2)	9/12/13	1735				X	X		
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6= Other										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for <u>1</u> Months					
Special Instructions/QC Requirements & Comments: * METALS = ARSENIC, BARIUM, CADMIUM, CHROMIUM, COPPER, MERCURY, SELENIUM AND SILVER										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (C):		Obs'd: _____		Therm ID No.:		
Relinquished by: <u>Dave Thompson</u>		Company: <u>Geoenvironment</u>		Date/Time: <u>9/13/13MS</u>		Received by: <u>Phil M. [Signature]</u>		Company: <u>TAP</u>		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		

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**TestAmerica Portland**

9405 SW Nimbus Avenue

Beaverton, OR 97008

phone 503.906.9200 fax 503.906.9210

**Chain of Custody Record**

14161

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact		Project Manager: <u>Lewb</u>		Site Contact:		Date: <u>9/17/13</u>		COC No:	
Your Company Name here <u>GeoEng, Inc</u>		Tel/Fax:		Lab Contact:		Carrier:		_____ of _____ COCs	
Address		Analysis Turnaround Time							
City/State/Zip		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input checked="" type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
(xxx) xxx-xxxx Phone		Filtered Sample (Y/N) _____ Perform MS / MSD (Y / N) _____ GLPH BY NUTPH - GK W/SGC DEPH BY NUTPH - DX W/SGC VOLS BY CVA 8260 SVOLS BY CVA 8260 METALS BY CVA 6009/1000							
(xxx) xxx-xxxx FAX									
Project Name:									
Site:									
PO# <u>18593 001 0</u>		For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____ Sampler: _____ Sample Specific Notes: _____							

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Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	GLPH BY NUTPH - GK W/SGC	DEPH BY NUTPH - DX W/SGC	VOLS BY CVA 8260	SVOLS BY CVA 8260	METALS BY CVA 6009/1000
X S-DP-26 (7-8)	9/14/13	1740	G	S	2							
X S-DP-27 (3-4)		1445					XX					
X S-DP-27 (5-6)		1450										
X S-DP-27 (10-11)		1455										
X S-DP-28 (0-1)		1640										
X S-DP-28 (3-4)		1645					XX					
X S-DP-28 (5.5-6.5)		1650										
X S-DP-29 (3-4)		1625										
X S-DP-29 (8-9)		1630					XX					
X S-DP-30 (1-2)		1436					XX					
X S-DP-30 (5.5-6)		1442										
X S-DP-32 (3-4)		1655					XX					

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

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

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client  Disposal by Lab  Archive for 1 Months

Special Instructions/QC Requirements & Comments:  
 \*METALS = ARSENIC, BARIUM, CADMIUM, CHROMIUM, LEAD, MANGANESE, SELENIUM AND SILVER

Custody Seals Intact:  Yes  No

Custody Seal No.: \_\_\_\_\_ Cooler Temp. (°C): Obs'd: \_\_\_\_\_ Corr'd: \_\_\_\_\_ Therm ID No.: \_\_\_\_\_

Relinquished by: <u>KATE Hsu</u>	Company: <u>GeoEng</u>	Date/Time: <u>9/13/17455</u>	Received by: <u>[Signature]</u>	Company: <u>TOP</u>	Date/Time: <u>9/16/160 0932</u>
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

11/19/2013

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact		Project Manager: <u>JODEE CAMS</u>		Site Contact:		Date: <u>9/13/13</u>		COC No:	
Your Company Name here <u>LEONWOODS</u>		Tel/Fax:		Lab Contact:		Carrier:		_____ of _____ COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		Glycol by NWDPT-GXW/S&C DWH + S&C by NWDPT-DX W/S&C VOCs by EPA 8260 SVOCs by EPA 8270 Asbestos by EPA 9600/9603	
City/State/Zip		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS							
(xxx) xxx-xxxx Phone		TAT if different from Below _____							
(xxx) xxx-xxxx FAX		<input type="checkbox"/> 2 weeks <input checked="" type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Project Name:		Sample Type (C=Comp, G=Grab)		# of Cont.				For Lab Use Only:	
Site:		Matrix						Walk-in Client:	
P O # <u>18593-001-02</u>		Sample Date		Sample Time				Lab Sampling:	
Sample Identification		Sample Date		Sample Time				Job / SDG No.:	
								Sampler:	
								Sample Specific Notes:	
X S-DP-32 (55-6.5)		9/12/13		1700		C S 2		Revised MS/MSD	
S-DP-37 (1-2)		9/13/13		1035				XX	
X S-DP-37 (7-8)		↓		1040				XX	
S-DP-39 (2-3)		9/14/13		1725				XX	
X S-DP-39 (6-7)		↓		1720					
X S-DP-42 (2-3)		9/13/13		1012				XX	
S-DP-42 (5-6)		↓		1016				XX	
X S-DP-42 (14-15) (14-15)		↓		1040				XX	
S-DP-42 (19-20)		↓		1038				XX	
X S-DP-50 (3-4)		9/14/13		1725				XX	
S-DP-50 (5-6)		↓		1730					
X S-DP-53 (2-3)		9/13/13		1040					
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for <u>1</u> Months				
Special Instructions/QC Requirements & Comments: * METALS = ARSENIC, BARIUM, CADMIUM, CHROMIUM, LEAD, MERCURY, SELENIUM, AND SILVER									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C) Obs'd: _____		Corr'd: _____		Therm ID No.:	
Relinquished by: <u>KATE HALL</u>		Company: <u>LET</u>		Date/Time: <u>9/13/13 1455</u>		Received by: <u>[Signature]</u>		Company: <u>TPA</u>	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:	

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14161

Beaverton, OR 97008

phone 503.906.9200 fax 503.906.9210

Regulatory Program:  DW  NPDES  RCRA  Other:

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: <u>J Lamb</u>		Site Contact:		Date:		COC No:		
Your Company Name here <u>Geo Eng. Metals</u>		Tel/Fax:		Lab Contact:		Carrier:		_____ of _____ COCs		
Address		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ GRAH BY NADPH-GX W/SGC PLANT BY NADPH-GX W/SGC VDCS BY EPA 8270 METALS BY EPA 7005				For Lab Use Only: Walk-in Client: _____ Lab Sampling: _____ Job / SDG No.: _____ Sampler: _____ Sample Specific Notes: _____		
City/State/Zip		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS								
(xxx) xxx-xxxx Phone		TAT if different from Below _____								
(xxx) xxx-xxxx FAX		<input type="checkbox"/> 2 weeks								
Project Name:		<input checked="" type="checkbox"/> 1 week								
Site:		<input type="checkbox"/> 2 days								
P O # <u>78593 COI ON</u>		<input type="checkbox"/> 1 day								
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.				
X S-DP-53 (7-8)		✓ 9/13/13	1045	G	S	2	X	X	RANDOM MS/PS	
X S-DP-35 (2-3)		✓ 9/12/13	1600	↓	↓	↓	X	X		
X S-DP-35 (6-7)		✓ ↓	1610	↓	↓	↓	X	X		
S-DP-40 (1-2)		✓ ↓	1625	↓	↓	↓	X	X		
S-DP-40 (6.5-7.5) ✓		✓ ↓	1635							
Preservation Used: 1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6= Other										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					Sample Disposal (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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for <u>1</u> Months					
Special Instructions/QC Requirements & Comments: <u>* METALS = ARSENIC, BARIUM, CADMIUM, CHROMIUM, LEAD, MANGANESE, SELENIUM AND SILVER</u>										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C) Obs'd: _____ Corr'd: _____		Therm ID No.:				
Relinquished by:		Company:		Date/Time:		Received by: <u>PLM mhd</u>		Company: <u>TAA</u>		Date/Time: <u>9/16/13 @ 0932</u>
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:

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## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14161-1

**Login Number: 14161**

**List Source: TestAmerica Portland**

**List Number: 1**

**Creator: Svabik-Seror, Philip M**

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	No name.
There are no discrepancies between the containers received and the COC.	False	Container label for DP-30 does not match COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14161-1

**Login Number: 14161**

**List Number: 1**

**Creator: Dedio, Michael T**

**List Source: TestAmerica Denver**

**List Creation: 09/18/13 11:18 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14161-1

**Login Number: 14161**

**List Number: 2**

**Creator: Branda, Alex N**

**List Source: TestAmerica Denver**

**List Creation: 09/26/13 11:31 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Portland  
9405 SW Nimbus Ave.  
Beaverton, OR 97008  
Tel: (503)906-9200

TestAmerica Job ID: 250-14195-1

TestAmerica Sample Delivery Group: 18593-001-02  
Client Project/Site: Cashmere Mill  
Revision: 2

For:

GeoEngineers Inc  
523 East Second Ave  
Spokane, Washington 99202

Attn: Jodie Lamb



Authorized for release by:  
12/17/2013 2:46:09 PM

Erica Fot, Project Management Assistant II  
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### LINKS

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[www.testamericainc.com](http://www.testamericainc.com)

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

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

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# Sample Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-14195-20	S-DP-75A(5-6)	Solid	09/14/13 10:37	09/17/13 10:30
250-14195-22	S-DP-81(6-7)	Solid	09/14/13 14:11	09/17/13 10:30
250-14195-26	S-DP-87(1.5-2.5)	Solid	09/14/13 14:54	09/17/13 10:30
250-14195-41	S-DP-52(6.5-7.5)	Solid	09/14/13 09:47	09/17/13 10:30
250-14195-42	S-DP-55(0.5-1.5)	Solid	09/13/13 13:35	09/17/13 10:30
250-14195-43	S-DP-55A(10-11)	Solid	09/14/13 10:03	09/17/13 10:30
250-14195-44	S-DP-1B(6-6.5)	Solid	09/14/13 10:15	09/17/13 10:30
250-14195-45	S-DP-65(4-5)	Solid	09/13/13 16:42	09/17/13 10:30
250-14195-46	S-DP-75A(2-3)	Solid	09/14/13 10:28	09/17/13 10:30
250-14195-47	S-DP-76(5-6)	Solid	09/14/13 14:38	09/17/13 10:30
250-14195-48	S-DP-78(0-1)	Solid	09/13/13 16:51	09/17/13 10:30
250-14195-49	S-DP-80(2-3)	Solid	09/13/13 15:57	09/17/13 10:30
250-14195-50	S-DP-81(2-2.5)	Solid	09/14/13 13:55	09/17/13 10:30
250-14195-51	S-DP-82(7.5-8.5)	Solid	09/13/13 12:55	09/17/13 10:30
250-14195-52	S-DP-83(9-10)	Solid	09/13/13 15:30	09/17/13 10:30
250-14195-53	S-DP-84(6.5-7.5)	Solid	09/14/13 15:40	09/17/13 10:30
250-14195-54	S-DP-85(7.5-8.5)	Solid	09/13/13 14:55	09/17/13 10:30
250-14195-55	S-DP-87(5-6)	Solid	09/14/13 14:56	09/17/13 10:30
250-14195-56	S-DP-88(4-5)	Solid	09/13/13 17:23	09/17/13 10:30
250-14195-57	S-DP-86(3.5-4.5)	Solid	09/13/13 16:12	09/17/13 10:30
250-14195-58	S-DP-93(5-6)	Solid	09/14/13 08:52	09/17/13 10:30
250-14195-59	S-DP-94(5-6)	Solid	09/14/13 15:35	09/17/13 10:30
250-14195-60	S-DP-95(3-4)	Solid	09/13/13 16:54	09/17/13 10:30
250-14195-61	S-DP-96(7-8)	Solid	09/13/13 16:35	09/17/13 10:30
250-14195-64	S-DP-94(2-2.5)	Solid	09/14/13 15:33	09/17/13 10:30
250-14195-65	S-DP-86(5-5.5)	Solid	09/13/13 16:17	09/17/13 10:30
250-14195-68	S-DP-88(7-8)	Solid	09/13/13 17:25	09/17/13 10:30
250-14195-72	S-DP-97(2-3)	Solid	09/13/13 16:35	09/17/13 10:30
250-14195-73	S-DP-98(1-1.5)	Solid	09/13/13 17:13	09/17/13 10:30
250-14195-74	S-DP-99(3-4)	Solid	09/14/13 14:26	09/17/13 10:30
250-14195-75	S-DP-100(5-6)	Solid	09/13/13 08:34	09/17/13 10:30
250-14195-76	S-DP-101(3-3.5)	Solid	09/14/13 08:57	09/17/13 10:30
250-14195-77	N-DP-3A(5-6)	Solid	09/14/13 11:00	09/17/13 10:30
250-14195-78	N-DP-3B(10-11)	Solid	09/14/13 11:44	09/17/13 10:30
250-14195-79	N-DP-11(5-6)	Solid	09/14/13 13:00	09/17/13 10:30
250-14195-80	N-DP-13(6-7)	Solid	09/14/13 13:15	09/17/13 10:30
250-14195-81	N-DP-24(7-8)	Solid	09/14/13 12:30	09/17/13 10:30
250-14195-88	S-DP-101(7-7.5)	Solid	09/14/13 09:08	09/17/13 10:30
250-14195-90	S-DP-93(1-2)	Solid	09/14/13 08:49	09/17/13 10:30
250-14195-92	N-DP-38(6.5-7)	Solid	09/14/13 12:24	09/17/13 10:30
250-14195-93	N-DP-51(2-3)	Solid	09/14/13 10:56	09/17/13 10:30
250-14195-94	S-DP-84(10-11)	Solid	09/14/13 15:48	09/17/13 10:30
250-14195-95	S-DP-97(8-9)	Solid	09/13/13 16:40	09/17/13 10:30
250-14195-96	N-DP-39(2-3)	Solid	09/14/13 11:25	09/17/13 10:30

# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

**Job ID: 250-14195-1**

**Laboratory: TestAmerica Portland**

## Narrative

### Job Narrative 250-14195-1

#### Comments

Revised Report: Includes 8260 VOC and 8270 SVOC results down to the MDL.

Revised report 2: Client added total and TCLP Hg.

#### Receipt

The samples were received on 9/17/2013 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.9° C, 2.8° C, 3.4° C and 5.3° C.

Except:

N-DP-3A(1.5-2.5) (250-14195-83) 8 oz. jar received cracked. Sample was salvaged (contained within bag) and transferred to new container.

S-DP-98(1-1.5) (250-14195-73) Container is labeled with a depth of 1-2 and at a time of 1711. Logged in per COC.

N-DP-11(5-6) (250-14195-79) Sample is labeled with a depth of 5.5-7. Logged in per COC.

#### GC/MS VOA

Method(s) 8260B: The following sample(s) was analyzed outside of analytical holding time due to client follow up analysis request. S-DP-81(2-2.5) (250-14195-50), S-DP-82(7.5-8.5) (250-14195-51), S-DP-95(3-4) (250-14195-60).

Method(s) 8260B: The following sample(s) was prepared and/or analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample expired: S-DP-95(3-4) (250-14195-60).

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method(s) 8270C: The following sample(s) was diluted due to the nature of the sample matrix: S-DP-97(2-3) (250-14195-72). Elevated reporting limits (RLs) are provided. Sample extracts were dark and viscous.

Method(s) 8270C, 8270C/DoD: The following sample was diluted due to the abundance of non-target analytes: (250-14195-50 MS), (250-14195-50 MSD), S-DP-81(2-2.5) (250-14195-50). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

#### GC VOA

Method(s) NWTPH-Gx: The Gasoline Range Hydrocarbons (GRH) concentration reported for the following sample(s) is due to the presence of discrete peaks: (250-14195-45 DU), S-DP-65(4-5) (250-14195-45), S-DP-81(2-2.5) (250-14195-50), S-DP-82(7.5-8.5) (250-14195-51), S-DP-83(9-10) (250-14195-52), S-DP-88(4-5) (250-14195-56), S-DP-94(5-6) (250-14195-59), S-DP-97(2-3) (250-14195-72).

Method(s) NWTPH-Gx: The Gasoline Range Hydrocarbons (GRH) concentration reported for the following sample(s) is due to the presence of discrete peaks: S-DP-95(3-4) (250-14195-60) and N-DP-3A(5-6) (250-14195-77).

Method(s) NWTPH-Gx: The following sample(s) was prepared and/or analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample expired: S-DP-101(7-7.5) (250-14195-88), S-DP-75A(5-6) (250-14195-20), S-DP-81(6-7) (250-14195-22), S-DP-88(7-8) (250-14195-68).

Method(s) NWTPH/VPH: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 113707 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

## Case Narrative

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

### Job ID: 250-14195-1 (Continued)

#### Laboratory: TestAmerica Portland (Continued)

Method(s) NWTPH/VPH: The following sample(s) was prepared and/or analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample expired: S-DP-101(3-3.5) (250-14195-76), S-DP-75A(2-3) (250-14195-46).

No other analytical or quality issues were noted.

#### GC Semi VOA

Method(s) NWTPH-Dx: The matrix duplicate %RPD for 250-14182-a-1 associated with batch 250-20427 was outside the control limits due to non homogeneity of the sample. (250-14182-1 DU), B-1 (10' bgs) (250-14182-1)

Method(s) NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to weathered diesel. (250-14182-1 DU), B-1 (10' bgs) (250-14182-1)

Method(s) NWTPH-Dx: The matrix duplicate %RPD for 250-14195-a-42 associated with batch 250-20427 was outside the control limits due to matrix interference. (250-14195-42 DU)

Method(s) NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to a non- typical hydrocarbon pattern (individual peaks). (250-14195-42 DU), (250-14195-44 DU), N-DP-3A(5-6) (250-14195-77), S-DP-100(5-6) (250-14195-75), S-DP-1B(6-6.5) (250-14195-44), S-DP-82(7.5-8.5) (250-14195-51), S-DP-88(4-5) (250-14195-56), S-DP-95(3-4) (250-14195-60)

Method(s) NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to a light weight oil overlap as well as a non-typical hydrocarbons pattern (individual peaks).N-DP-3B(10-11) (250-14195-78), S-DP-65(4-5) (250-14195-45)

Method(s) NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to a light weight oil overlap.S-DP-78(0-1) (250-14195-48)

Method(s) NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to a heavy gas/light diesel range component as well as a non-typical hydrocarbon pattern (individual peaks).S-DP-97(2-3) (250-14195-72)

Method(s) NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to oil overlap.S-DP-101(3-3.5) (250-14195-76), S-DP-75A(2-3) (250-14195-46)

Method(s) NWTPH-Dx: Surrogate recovery for the following sample(s) was outside control limits: N-DP-3B(10-11) (250-14195-78). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to oil overlap.S-DP-81(6-7) (250-14195-22), S-DP-88(7-8) (250-14195-68)

Method(s) NWTPH-Dx: The following sample(s) was prepared outside the method defined holding time because the request for the test was made after the holding time for the sample expired: N-DP-27(12-13) (250-14116-15), S-DP-101(7-7.5) (250-14195-88), S-DP-75A(5-6) (250-14195-20), S-DP-81(6-7) (250-14195-22), S-DP-88(7-8) (250-14195-68).

Method(s) NWTPH/EPH: In analytical batch 146906, the laboratory control sample (LCS) for fractionation batch 146860 recovered below the lower control limits for the following analytes: C10-C12 Aromatics and C10-C12 Aliphatics. The associated sample(s) was re-prepared outside holding time. Both sets of data have been reported.

Method(s) NWTPH/EPH: In analytical batch 146906, surrogate recovery for the following QC from fractionation batch 146860 was below the lower control limits: (250-14195-76 MS). Re-extraction was performed with concurring results. Both sets of data have been reported.

Method(s) NWTPH/EPH: In analytical batch 146906, the matrix spike and matrix spike duplicate (MS/MSD) percent recoveries and %RPD for fractionation batch 146860 were outside control limits. This is attributed to abundance of target analytes at concentrations significantly higher than the spike concentration and matrix interferences; evidence is present in chromatogram.

Method(s) NWTPH/EPH: In analytical batch 147279, surrogate recovery for the following sample(s) from fractionation batch 147267 was below the lower control limits: (250-14195-46 MS), S-DP-101(3-3.5) (250-14195-76). Evidence of matrix interference is present in

# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Job ID: 250-14195-1 (Continued)

### Laboratory: TestAmerica Portland (Continued)

chromatogram; therefore, re-extraction was not performed.

Method(s) NWTPH/EPH: In analytical batch 147279, the following sample(s) from fractionation batch 147267 was re-prepared outside of preparation holding time due to laboratory control sample and laboratory control sample duplicated (LCS/LCSD) failure in original preparation 146508. Both sets of data have been reported: S-DP-101(3-3.5) (250-14195-76), S-DP-75A(2-3) (250-14195-46).

Method(s) NWTPH/EPH: In analytical batch 147279, the matrix spike and matrix spike duplicate (MS/MSD) percent recoveries and %RPD for fractionation batch 147267 were outside control limits. This is attributed to abundance of target analytes at concentrations significantly higher than the spike concentration and matrix interferences; Evidence is present in chromatogram.

No other analytical or quality issues were noted.

### Metals

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 20282 were outside control limits for Cr. The associated laboratory control sample (LCS) recovery met acceptance criteria. (250-14195-50 MSD)

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 250-20625 for Cr was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. (250-14116-15 MSD)

Method(s) 7471A: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 20272 were outside control limits due to non-homogenous matrix. (250-14195-96 MSD)

Method(s) 7471A: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 20740 were outside control limits due to non-homogeneity of the sample matrix. (250-14195-68 MSD)

No other analytical or quality issues were noted.

### Organic Prep

Method(s) 3550B: In preparation batch 147235, the following samples were re-prepared outside of preparation holding time: (250-14195-46 MS), (250-14195-46 MSD), S-DP-101(3-3.5) (250-14195-76), S-DP-75A(2-3) (250-14195-46). These samples required re-preparation out of hold due to low failing LCS and LCSD recoveries in the original, in hold batch.

Method(s) 3550B: In preparation batch 147235, a deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: for sample S-DP-101(3-3.5) (250-14195-76), only approximately 24.5 grams were left over for re-extraction, instead of the nominal 30 grams. The reporting limits will be slightly elevated.

Method(s) 3550C: Due to the matrix, the following samples could not be concentrated to the final method required volume of 1 mL: S-DP-97(2-3) (250-14195-72). The reporting limits (RLs) are elevated proportionately. Sample 250-14195-72 was concentrated to 2 mL and sample 250-14215-1 was concentrated to 20 mL. Both samples were dark brown and formed a sticky film of top of the sample that prevented it from concentrating to the required final volume.

Method(s) 3550C: The following sample was received outside of holding time: S-DP-88(7-8) (250-14195-68).

Method(s) 3550C: The client requested that the batch QC be done on a Geoengineers sample when possible. However, the following sample was the only 1 in the batch from that client and only one 2 oz jar was available, so this was not able to be done: S-DP-88(7-8) (250-14195-68).

No other analytical or quality issues were noted.

### VOA Prep

No analytical or quality issues were noted.

# Definitions/Glossary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## 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.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time

### GC/MS Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
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.
F	MS/MSD Recovery and/or RPD exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time

### GC VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
F	MS/MSD Recovery and/or RPD exceeds the control limits
X	Surrogate is outside control limits

### GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
*	LCS or LCSD exceeds the control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits
X	Surrogate is outside control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

### Metals

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
F	MS/MSD Recovery and/or RPD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
F	Duplicate RPD exceeds the control limit

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit

# Definitions/Glossary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-81(2-2.5)**

**Date Collected: 09/14/13 13:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-50**

**Matrix: Solid**

**Percent Solids: 87.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		3600	730	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Benzene	ND		150	29	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Bromobenzene	ND		150	29	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Bromochloromethane	ND		150	35	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Bromodichloromethane	ND		150	22	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Bromoform	ND		730	150	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Bromomethane	ND		730	41	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
2-Butanone (MEK)	ND		1500	440	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
n-Butylbenzene	ND		730	76	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
<b>sec-Butylbenzene</b>	<b>45</b>	<b>J</b>	150	29	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
tert-Butylbenzene	ND		150	19	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Carbon disulfide	ND		1500	57	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Carbon tetrachloride	ND		150	28	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Chlorobenzene	ND		150	28	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Chloroethane	ND		150	32	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Chloroform	ND		150	23	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Chloromethane	ND		730	22	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
2-Chlorotoluene	ND		150	19	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
4-Chlorotoluene	ND		150	26	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,2-Dibromo-3-Chloropropane	ND		730	150	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Dibromochloromethane	ND		150	25	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,2-Dibromoethane	ND		150	25	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Dibromomethane	ND		150	31	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,2-Dichloroethane	ND		150	23	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,3-Dichlorobenzene	ND		150	25	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,4-Dichlorobenzene	ND		150	42	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Dichlorodifluoromethane	ND		730	36	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,1-Dichloroethane	ND		150	28	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,1-Dichloroethene	ND		150	23	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
cis-1,2-Dichloroethene	ND		150	41	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
trans-1,2-Dichloroethene	ND		150	29	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,2-Dichloropropane	ND		150	23	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,3-Dichloropropane	ND		150	25	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
2,2-Dichloropropane	ND		150	25	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,1-Dichloropropene	ND		150	22	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
cis-1,3-Dichloropropene	ND		150	25	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
trans-1,3-Dichloropropene	ND		150	22	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
<b>Ethylbenzene</b>	<b>230</b>		150	26	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
<b>Hexachlorobutadiene</b>	<b>45</b>	<b>J B</b>	580	26	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
2-Hexanone	ND		1500	320	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Isopropylbenzene	ND		290	52	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
<b>p-Isopropyltoluene</b>	<b>11000</b>		290	16	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
4-Methyl-2-pentanone (MIBK)	ND		730	150	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Methyl tert-butyl ether	ND		150	19	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Methylene Chloride	ND		730	20	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
<b>Naphthalene</b>	<b>190</b>	<b>J B</b>	290	35	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
N-Propylbenzene	ND		150	31	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Styrene	ND		150	26	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,1,1,2-Tetrachloroethane	ND		150	26	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-81(2-2.5)**

**Date Collected: 09/14/13 13:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-50**

**Matrix: Solid**

**Percent Solids: 87.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		150	35	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Tetrachloroethane	ND		150	39	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
<b>Toluene</b>	<b>25</b>	<b>J</b>	150	22	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,2,3-Trichlorobenzene	ND		730	150	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,2,4-Trichlorobenzene	ND		150	36	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,1,1-Trichloroethane	ND		150	31	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,1,2-Trichloroethane	ND		150	35	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Trichloroethene	ND		150	31	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Trichlorofluoromethane	ND		150	32	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,2,3-Trichloropropane	ND		150	31	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
<b>1,2,4-Trimethylbenzene</b>	<b>180</b>		150	67	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
<b>1,3,5-Trimethylbenzene</b>	<b>76</b>	<b>J</b>	150	35	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
Vinyl chloride	ND		730	150	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
m,p-Xylene	ND		290	52	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
o-Xylene	ND		150	33	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
1,2-Dichlorobenzene	ND		150	20	ug/Kg	☼	09/25/13 16:07	09/26/13 12:35	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>1,2-Dichloroethane-d4 (Surr)</i>	95		75 - 125				09/25/13 16:07	09/26/13 12:35	1
<i>4-Bromofluorobenzene (Surr)</i>	97		75 - 125				09/25/13 16:07	09/26/13 12:35	1
<i>Dibromofluoromethane (Surr)</i>	90		75 - 125				09/25/13 16:07	09/26/13 12:35	1
<i>Toluene-d8 (Surr)</i>	93		75 - 125				09/25/13 16:07	09/26/13 12:35	1

**Client Sample ID: S-DP-82(7.5-8.5)**

**Date Collected: 09/13/13 12:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-51**

**Matrix: Solid**

**Percent Solids: 62.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	6900	1400	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Benzene	ND	H	270	55	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Bromobenzene	ND	H	270	55	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Bromochloromethane	ND	H	270	66	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Bromodichloromethane	ND	H	270	41	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Bromoform	ND	H	1400	270	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Bromomethane	ND	H	1400	77	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
2-Butanone (MEK)	ND	H	2700	820	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
n-Butylbenzene	ND	H	1400	140	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
sec-Butylbenzene	ND	H	270	55	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
tert-Butylbenzene	ND	H	270	36	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Carbon disulfide	ND	H	2700	110	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Carbon tetrachloride	ND	H	270	52	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Chlorobenzene	ND	H	270	52	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Chloroethane	ND	H	270	60	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Chloroform	ND	H	270	44	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Chloromethane	ND	H	1400	41	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
2-Chlorotoluene	ND	H	270	36	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
4-Chlorotoluene	ND	H	270	49	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,2-Dibromo-3-Chloropropane	ND	H	1400	270	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Dibromochloromethane	ND	H	270	47	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,2-Dibromoethane	ND	H	270	47	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Dibromomethane	ND	H	270	58	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-82(7.5-8.5)**

**Date Collected: 09/13/13 12:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-51**

**Matrix: Solid**

**Percent Solids: 62.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND	H	270	44	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,3-Dichlorobenzene	ND	H	270	47	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,4-Dichlorobenzene	ND	H	270	80	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Dichlorodifluoromethane	ND	H	1400	69	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,1-Dichloroethane	ND	H	270	52	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,1-Dichloroethene	ND	H	270	44	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
cis-1,2-Dichloroethene	ND	H	270	77	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
trans-1,2-Dichloroethene	ND	H	270	55	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,2-Dichloropropane	ND	H	270	44	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,3-Dichloropropane	ND	H	270	47	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
2,2-Dichloropropane	ND	H	270	47	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,1-Dichloropropene	ND	H	270	41	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
cis-1,3-Dichloropropene	ND	H	270	47	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
trans-1,3-Dichloropropene	ND	H	270	41	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Ethylbenzene	ND	H	270	49	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Hexachlorobutadiene	ND	H	1100	49	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
2-Hexanone	ND	H	2700	600	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Isopropylbenzene	ND	H	550	99	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
<b>p-Isopropyltoluene</b>	<b>400</b>	<b>J H</b>	550	30	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
4-Methyl-2-pentanone (MIBK)	ND	H	1400	270	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Methyl tert-butyl ether	ND	H	270	36	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Methylene Chloride	ND	H	1400	38	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Naphthalene	ND	H	550	66	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
<b>N-Propylbenzene</b>	<b>78</b>	<b>J H</b>	270	58	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Styrene	ND	H	270	49	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,1,1,2-Tetrachloroethane	ND	H	270	49	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,1,2,2-Tetrachloroethane	ND	H	270	66	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Tetrachloroethene	ND	H	270	74	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
<b>Toluene</b>	<b>100</b>	<b>J H</b>	270	41	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,2,3-Trichlorobenzene	ND	H	1400	270	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,2,4-Trichlorobenzene	ND	H	270	69	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,1,1-Trichloroethane	ND	H	270	58	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,1,2-Trichloroethane	ND	H	270	66	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Trichloroethene	ND	H	270	58	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Trichlorofluoromethane	ND	H	270	60	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,2,3-Trichloropropane	ND	H	270	58	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,2,4-Trimethylbenzene	ND	H	270	130	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,3,5-Trimethylbenzene	ND	H	270	66	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
Vinyl chloride	ND	H	1400	270	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
m,p-Xylene	ND	H	550	99	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
o-Xylene	ND	H	270	63	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1
1,2-Dichlorobenzene	ND	H	270	38	ug/Kg	☼	10/01/13 11:39	10/01/13 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 125	10/01/13 11:39	10/01/13 21:44	1
4-Bromofluorobenzene (Surr)	103		75 - 125	10/01/13 11:39	10/01/13 21:44	1
Dibromofluoromethane (Surr)	102		75 - 125	10/01/13 11:39	10/01/13 21:44	1
Toluene-d8 (Surr)	104		75 - 125	10/01/13 11:39	10/01/13 21:44	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-88(4-5)**

**Date Collected: 09/13/13 17:23**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-56**

**Matrix: Solid**

**Percent Solids: 78.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		4500	910	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Benzene	ND		180	36	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Bromobenzene	ND		180	36	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Bromochloromethane	ND		180	44	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Bromodichloromethane	ND		180	27	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Bromoform	ND		910	180	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Bromomethane	ND		910	51	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
2-Butanone (MEK)	ND		1800	540	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
n-Butylbenzene	ND		910	94	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
sec-Butylbenzene	ND		180	36	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
tert-Butylbenzene	ND		180	24	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Carbon disulfide	ND		1800	71	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Carbon tetrachloride	ND		180	34	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Chlorobenzene	ND		180	34	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Chloroethane	ND		180	40	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Chloroform	ND		180	29	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Chloromethane	ND		910	27	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
2-Chlorotoluene	ND		180	24	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
4-Chlorotoluene	ND		180	33	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,2-Dibromo-3-Chloropropane	ND		910	180	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Dibromochloromethane	ND		180	31	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,2-Dibromoethane	ND		180	31	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Dibromomethane	ND		180	38	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,2-Dichloroethane	ND		180	29	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,3-Dichlorobenzene	ND		180	31	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,4-Dichlorobenzene	ND		180	53	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Dichlorodifluoromethane	ND		910	45	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,1-Dichloroethane	ND		180	34	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,1-Dichloroethene	ND		180	29	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
cis-1,2-Dichloroethene	ND		180	51	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
trans-1,2-Dichloroethene	ND		180	36	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,2-Dichloropropane	ND		180	29	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,3-Dichloropropane	ND		180	31	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
2,2-Dichloropropane	ND		180	31	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,1-Dichloropropene	ND		180	27	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
cis-1,3-Dichloropropene	ND		180	31	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
trans-1,3-Dichloropropene	ND		180	27	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Ethylbenzene	ND		180	33	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
<b>Hexachlorobutadiene</b>	<b>39</b>	<b>J B</b>	730	33	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
2-Hexanone	ND		1800	400	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Isopropylbenzene	ND		360	65	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
<b>p-Isopropyltoluene</b>	<b>690</b>		360	20	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
4-Methyl-2-pentanone (MIBK)	ND		910	180	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Methyl tert-butyl ether	ND		180	24	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Methylene Chloride	ND		910	25	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
<b>Naphthalene</b>	<b>46</b>	<b>J B</b>	360	44	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
N-Propylbenzene	ND		180	38	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Styrene	ND		180	33	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,1,1,2-Tetrachloroethane	ND		180	33	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-88(4-5)**

**Date Collected: 09/13/13 17:23**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-56**

**Matrix: Solid**

**Percent Solids: 78.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		180	44	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Tetrachloroethene	ND		180	49	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
<b>Toluene</b>	<b>77</b>	<b>J</b>	180	27	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,2,3-Trichlorobenzene	ND		910	180	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,2,4-Trichlorobenzene	ND		180	45	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,1,1-Trichloroethane	ND		180	38	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,1,2-Trichloroethane	ND		180	44	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Trichloroethene	ND		180	38	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Trichlorofluoromethane	ND		180	40	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,2,3-Trichloropropane	ND		180	38	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,2,4-Trimethylbenzene	ND		180	83	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,3,5-Trimethylbenzene	ND		180	44	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
Vinyl chloride	ND		910	180	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
m,p-Xylene	ND		360	65	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
o-Xylene	ND		180	42	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
1,2-Dichlorobenzene	ND		180	25	ug/Kg	☼	09/25/13 16:07	09/26/13 13:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>1,2-Dichloroethane-d4 (Surr)</i>	96		75 - 125				09/25/13 16:07	09/26/13 13:00	1
<i>4-Bromofluorobenzene (Surr)</i>	95		75 - 125				09/25/13 16:07	09/26/13 13:00	1
<i>Dibromofluoromethane (Surr)</i>	90		75 - 125				09/25/13 16:07	09/26/13 13:00	1
<i>Toluene-d8 (Surr)</i>	95		75 - 125				09/25/13 16:07	09/26/13 13:00	1

**Client Sample ID: S-DP-95(3-4)**

**Date Collected: 09/13/13 16:54**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-60**

**Matrix: Solid**

**Percent Solids: 82.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	4300	850	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Benzene	ND	H	170	34	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Bromobenzene	ND	H	170	34	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Bromochloromethane	ND	H	170	41	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Bromodichloromethane	ND	H	170	26	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Bromoform	ND	H	850	170	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Bromomethane	ND	H	850	48	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
2-Butanone (MEK)	ND	H	1700	510	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
n-Butylbenzene	ND	H	850	89	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
sec-Butylbenzene	ND	H	170	34	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
<b>tert-Butylbenzene</b>	<b>85</b>	<b>J H</b>	170	22	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Carbon disulfide	ND	H	1700	67	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Carbon tetrachloride	ND	H	170	32	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Chlorobenzene	ND	H	170	32	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Chloroethane	ND	H	170	38	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Chloroform	ND	H	170	27	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Chloromethane	ND	H	850	26	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
2-Chlorotoluene	ND	H	170	22	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
4-Chlorotoluene	ND	H	170	31	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,2-Dibromo-3-Chloropropane	ND	H	850	170	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Dibromochloromethane	ND	H	170	29	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,2-Dibromoethane	ND	H	170	29	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Dibromomethane	ND	H	170	36	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-95(3-4)**  
**Date Collected: 09/13/13 16:54**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-60**  
**Matrix: Solid**  
**Percent Solids: 82.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND	H	170	27	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,3-Dichlorobenzene	ND	H	170	29	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,4-Dichlorobenzene	ND	H	170	49	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Dichlorodifluoromethane	ND	H	850	43	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,1-Dichloroethane	ND	H	170	32	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,1-Dichloroethene	ND	H	170	27	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
cis-1,2-Dichloroethene	ND	H	170	48	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
trans-1,2-Dichloroethene	ND	H	170	34	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,2-Dichloropropane	ND	H	170	27	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,3-Dichloropropane	ND	H	170	29	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
2,2-Dichloropropane	ND	H	170	29	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,1-Dichloropropene	ND	H	170	26	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
cis-1,3-Dichloropropene	ND	H	170	29	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
trans-1,3-Dichloropropene	ND	H	170	26	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
<b>Ethylbenzene</b>	<b>190</b>	<b>H</b>	170	31	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Hexachlorobutadiene	ND	H	680	31	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
2-Hexanone	ND	H	1700	380	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Isopropylbenzene	ND	H	340	61	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
<b>p-Isopropyltoluene</b>	<b>40000</b>	<b>H</b>	1700	94	ug/Kg	☼	10/01/13 11:39	10/02/13 15:22	5
4-Methyl-2-pentanone (MIBK)	ND	H	850	170	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Methyl tert-butyl ether	ND	H	170	22	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Methylene Chloride	ND	H	850	24	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Naphthalene	ND	H	340	41	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
<b>N-Propylbenzene</b>	<b>92</b>	<b>J H</b>	170	36	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Styrene	ND	H	170	31	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,1,1,2-Tetrachloroethane	ND	H	170	31	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
<b>1,1,1,2-Tetrachloroethane</b>	<b>780</b>	<b>H</b>	170	41	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Tetrachloroethene	ND	H	170	46	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
<b>Toluene</b>	<b>4600</b>	<b>H</b>	170	26	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,2,3-Trichlorobenzene	ND	H	850	170	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,2,4-Trichlorobenzene	ND	H	170	43	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,1,1-Trichloroethane	ND	H	170	36	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,1,2-Trichloroethane	ND	H	170	41	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Trichloroethene	ND	H	170	36	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Trichlorofluoromethane	ND	H	170	38	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,2,3-Trichloropropane	ND	H	170	36	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,2,4-Trimethylbenzene	ND	H	170	79	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,3,5-Trimethylbenzene	ND	H	170	41	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Vinyl chloride	ND	H	850	170	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
m,p-Xylene	ND	H	340	61	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
o-Xylene	ND	H	170	39	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
1,2-Dichlorobenzene	ND	H	170	24	ug/Kg	☼	10/01/13 11:39	10/01/13 22:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 125				10/01/13 11:39	10/01/13 22:08	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 125				10/01/13 11:39	10/02/13 15:22	5
4-Bromofluorobenzene (Surr)	104		75 - 125				10/01/13 11:39	10/01/13 22:08	1
4-Bromofluorobenzene (Surr)	95		75 - 125				10/01/13 11:39	10/02/13 15:22	5
Dibromofluoromethane (Surr)	101		75 - 125				10/01/13 11:39	10/01/13 22:08	1
Dibromofluoromethane (Surr)	93		75 - 125				10/01/13 11:39	10/02/13 15:22	5

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-95(3-4)**  
**Date Collected: 09/13/13 16:54**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-60**  
**Matrix: Solid**  
**Percent Solids: 82.3**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		75 - 125	10/01/13 11:39	10/01/13 22:08	1
Toluene-d8 (Surr)	96		75 - 125	10/01/13 11:39	10/02/13 15:22	5

**Client Sample ID: S-DP-88(7-8)**  
**Date Collected: 09/13/13 17:25**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-68**  
**Matrix: Solid**  
**Percent Solids: 61.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	6100	1200	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Benzene	ND	H	240	49	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Bromobenzene	ND	H	240	49	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Bromochloromethane	ND	H	240	58	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Bromodichloromethane	ND	H	240	36	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Bromoform	ND	H	1200	240	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Bromomethane	ND	H	1200	68	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
2-Butanone (MEK)	ND	H	2400	730	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
n-Butylbenzene	ND	H	1200	130	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
sec-Butylbenzene	ND	H	240	49	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
tert-Butylbenzene	ND	H	240	32	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Carbon disulfide	ND	H	2400	95	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Carbon tetrachloride	ND	H	240	46	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Chlorobenzene	ND	H	240	46	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Chloroethane	ND	H	240	53	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Chloroform	ND	H	240	39	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Chloromethane	ND	H	1200	36	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
2-Chlorotoluene	ND	H	240	32	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
4-Chlorotoluene	ND	H	240	44	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,2-Dibromo-3-Chloropropane	ND	H	1200	240	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Dibromochloromethane	ND	H	240	41	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,2-Dibromoethane	ND	H	240	41	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Dibromomethane	ND	H	240	51	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,2-Dichloroethane	ND	H	240	39	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,3-Dichlorobenzene	ND	H	240	41	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,4-Dichlorobenzene	ND	H	240	70	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Dichlorodifluoromethane	ND	H	1200	61	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,1-Dichloroethane	ND	H	240	46	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,1-Dichloroethene	ND	H	240	39	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
cis-1,2-Dichloroethene	ND	H	240	68	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
trans-1,2-Dichloroethene	ND	H	240	49	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,2-Dichloropropane	ND	H	240	39	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,3-Dichloropropane	ND	H	240	41	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
2,2-Dichloropropane	ND	H	240	41	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,1-Dichloropropene	ND	H	240	36	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
cis-1,3-Dichloropropene	ND	H	240	41	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
trans-1,3-Dichloropropene	ND	H	240	36	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Ethylbenzene	ND	H	240	44	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Hexachlorobutadiene	ND	H	970	44	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
2-Hexanone	ND	H	2400	530	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Isopropylbenzene	ND	H	490	87	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
<b>p-Isopropyltoluene</b>	<b>73</b>	<b>J H</b>	490	27	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-88(7-8)**  
**Date Collected: 09/13/13 17:25**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-68**  
**Matrix: Solid**  
**Percent Solids: 61.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND	H	1200	240	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Methyl tert-butyl ether	ND	H	240	32	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Methylene Chloride	ND	H	1200	34	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
<b>Naphthalene</b>	<b>490</b>	<b>H B</b>	490	58	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
N-Propylbenzene	ND	H	240	51	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Styrene	ND	H	240	44	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,1,1,2-Tetrachloroethane	ND	H	240	44	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,1,2,2-Tetrachloroethane	ND	H	240	58	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Tetrachloroethene	ND	H	240	66	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Toluene	ND	H	240	36	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,2,3-Trichlorobenzene	ND	H	1200	240	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,2,4-Trichlorobenzene	ND	H	240	61	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,1,1-Trichloroethane	ND	H	240	51	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,1,2-Trichloroethane	ND	H	240	58	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Trichloroethene	ND	H	240	51	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Trichlorofluoromethane	ND	H	240	53	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,2,3-Trichloropropane	ND	H	240	51	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,2,4-Trimethylbenzene	ND	H	240	110	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,3,5-Trimethylbenzene	ND	H	240	58	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
Vinyl chloride	ND	H	1200	240	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
m,p-Xylene	ND	H	490	87	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
o-Xylene	ND	H	240	56	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1
1,2-Dichlorobenzene	ND	H	240	34	ug/Kg	☼	10/01/13 10:46	10/02/13 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 125	10/01/13 10:46	10/02/13 00:58	1
4-Bromofluorobenzene (Surr)	105		75 - 125	10/01/13 10:46	10/02/13 00:58	1
Dibromofluoromethane (Surr)	98		75 - 125	10/01/13 10:46	10/02/13 00:58	1
Toluene-d8 (Surr)	105		75 - 125	10/01/13 10:46	10/02/13 00:58	1

**Client Sample ID: S-DP-97(2-3)**  
**Date Collected: 09/13/13 16:35**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-72**  
**Matrix: Solid**  
**Percent Solids: 77.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		6200	1200	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Benzene	ND		250	50	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Bromobenzene	ND		250	50	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Bromochloromethane	ND		250	60	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Bromodichloromethane	ND		250	37	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Bromoform	ND		1200	250	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Bromomethane	ND		1200	69	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
2-Butanone (MEK)	ND		2500	740	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
n-Butylbenzene	ND		1200	130	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
sec-Butylbenzene	ND		250	50	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
tert-Butylbenzene	ND		250	32	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Carbon disulfide	ND		2500	97	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Carbon tetrachloride	ND		250	47	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Chlorobenzene	ND		250	47	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Chloroethane	ND		250	55	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Chloroform	ND		250	40	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-97(2-3)**

**Date Collected: 09/13/13 16:35**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-72**

**Matrix: Solid**

**Percent Solids: 77.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1200	37	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
2-Chlorotoluene	ND		250	32	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
4-Chlorotoluene	ND		250	45	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,2-Dibromo-3-Chloropropane	ND		1200	250	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Dibromochloromethane	ND		250	42	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,2-Dibromoethane	ND		250	42	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Dibromomethane	ND		250	52	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,2-Dichloroethane	ND		250	40	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,3-Dichlorobenzene	ND		250	42	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,4-Dichlorobenzene	ND		250	72	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Dichlorodifluoromethane	ND		1200	62	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,1-Dichloroethane	ND		250	47	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,1-Dichloroethene	ND		250	40	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
cis-1,2-Dichloroethene	ND		250	69	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
trans-1,2-Dichloroethene	ND		250	50	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,2-Dichloropropane	ND		250	40	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,3-Dichloropropane	ND		250	42	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
2,2-Dichloropropane	ND		250	42	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,1-Dichloropropene	ND		250	37	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
cis-1,3-Dichloropropene	ND		250	42	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
trans-1,3-Dichloropropene	ND		250	37	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
<b>Ethylbenzene</b>	<b>130</b>	<b>J</b>	250	45	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Hexachlorobutadiene	ND		990	45	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
2-Hexanone	ND		2500	550	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Isopropylbenzene	ND		500	89	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
<b>p-Isopropyltoluene</b>	<b>11000</b>		500	27	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
4-Methyl-2-pentanone (MIBK)	ND		1200	250	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Methyl tert-butyl ether	ND		250	32	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Methylene Chloride	ND		1200	35	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
<b>Naphthalene</b>	<b>69</b>	<b>J B</b>	500	60	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
N-Propylbenzene	ND		250	52	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Styrene	ND		250	45	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,1,1,2-Tetrachloroethane	ND		250	45	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,1,2,2-Tetrachloroethane	ND		250	60	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Tetrachloroethene	ND		250	67	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
<b>Toluene</b>	<b>340</b>		250	37	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,2,3-Trichlorobenzene	ND		1200	250	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,2,4-Trichlorobenzene	ND		250	62	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,1,1-Trichloroethane	ND		250	52	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,1,2-Trichloroethane	ND		250	60	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Trichloroethene	ND		250	52	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Trichlorofluoromethane	ND		250	55	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,2,3-Trichloropropane	ND		250	52	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
<b>1,2,4-Trimethylbenzene</b>	<b>170</b>	<b>J</b>	250	110	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
<b>1,3,5-Trimethylbenzene</b>	<b>260</b>		250	60	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
Vinyl chloride	ND		1200	250	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
m,p-Xylene	ND		500	89	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
o-Xylene	ND		250	57	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1
1,2-Dichlorobenzene	ND		250	35	ug/Kg	☼	09/25/13 16:07	09/26/13 13:24	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125	09/25/13 16:07	09/26/13 13:24	1
4-Bromofluorobenzene (Surr)	103		75 - 125	09/25/13 16:07	09/26/13 13:24	1
Dibromofluoromethane (Surr)	94		75 - 125	09/25/13 16:07	09/26/13 13:24	1
Toluene-d8 (Surr)	98		75 - 125	09/25/13 16:07	09/26/13 13:24	1

**Client Sample ID: N-DP-39(2-3)**

**Date Collected: 09/14/13 11:25**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-96**

**Matrix: Solid**

**Percent Solids: 89.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		3800	750	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Benzene	ND		150	30	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Bromobenzene	ND		150	30	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Bromochloromethane	ND		150	36	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Bromodichloromethane	ND		150	23	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Bromoform	ND		750	150	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Bromomethane	ND		750	42	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
2-Butanone (MEK)	ND		1500	450	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
n-Butylbenzene	ND		750	78	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
sec-Butylbenzene	ND		150	30	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
tert-Butylbenzene	ND		150	20	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Carbon disulfide	ND		1500	59	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Carbon tetrachloride	ND		150	29	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Chlorobenzene	ND		150	29	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Chloroethane	ND		150	33	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Chloroform	ND		150	24	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Chloromethane	ND		750	23	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
2-Chlorotoluene	ND		150	20	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
4-Chlorotoluene	ND		150	27	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,2-Dibromo-3-Chloropropane	ND		750	150	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Dibromochloromethane	ND		150	26	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,2-Dibromoethane	ND		150	26	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Dibromomethane	ND		150	32	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,2-Dichloroethane	ND		150	24	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,3-Dichlorobenzene	ND		150	26	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,4-Dichlorobenzene	ND		150	44	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Dichlorodifluoromethane	ND		750	38	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,1-Dichloroethane	ND		150	29	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,1-Dichloroethene	ND		150	24	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
cis-1,2-Dichloroethene	ND		150	42	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
trans-1,2-Dichloroethene	ND		150	30	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,2-Dichloropropane	ND		150	24	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,3-Dichloropropane	ND		150	26	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
2,2-Dichloropropane	ND		150	26	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,1-Dichloropropene	ND		150	23	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
cis-1,3-Dichloropropene	ND		150	26	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
trans-1,3-Dichloropropene	ND		150	23	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Ethylbenzene	ND		150	27	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Hexachlorobutadiene	ND		600	27	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
2-Hexanone	ND		1500	330	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Isopropylbenzene	ND		300	54	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
<b>p-Isopropyltoluene</b>	<b>160</b>	<b>J</b>	300	17	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
4-Methyl-2-pentanone (MIBK)	ND		750	150	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: N-DP-39(2-3)**

**Date Collected: 09/14/13 11:25**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-96**

**Matrix: Solid**

**Percent Solids: 89.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		150	20	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Methylene Chloride	ND		750	21	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Naphthalene	ND		300	36	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
N-Propylbenzene	ND		150	32	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Styrene	ND		150	27	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,1,1,2-Tetrachloroethane	ND		150	27	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,1,2,2-Tetrachloroethane	ND		150	36	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Tetrachloroethene	ND		150	41	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Toluene	ND		150	23	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,2,3-Trichlorobenzene	ND		750	150	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,2,4-Trichlorobenzene	ND		150	38	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,1,1-Trichloroethane	ND		150	32	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,1,2-Trichloroethane	ND		150	36	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Trichloroethene	ND		150	32	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Trichlorofluoromethane	ND		150	33	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,2,3-Trichloropropane	ND		150	32	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,2,4-Trimethylbenzene	ND		150	69	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,3,5-Trimethylbenzene	ND		150	36	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
Vinyl chloride	ND		750	150	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
m,p-Xylene	ND		300	54	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
o-Xylene	ND		150	35	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1
1,2-Dichlorobenzene	ND		150	21	ug/Kg	☼	09/25/13 16:07	09/26/13 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 125	09/25/13 16:07	09/26/13 13:48	1
4-Bromofluorobenzene (Surr)	93		75 - 125	09/25/13 16:07	09/26/13 13:48	1
Dibromofluoromethane (Surr)	90		75 - 125	09/25/13 16:07	09/26/13 13:48	1
Toluene-d8 (Surr)	93		75 - 125	09/25/13 16:07	09/26/13 13:48	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-81(2-2.5)**

**Date Collected: 09/14/13 13:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-50**

**Matrix: Solid**

**Percent Solids: 87.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1500	47	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Acenaphthylene	ND		1500	78	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Acetophenone	ND		1500	91	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Anthracene	ND		1500	78	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Atrazine	ND		1500	170	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Benzidine	ND		15000	4500	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Benzo[a]anthracene	ND		1500	91	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Benzo[a]pyrene	ND		1500	91	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Benzo[b]fluoranthene	ND		1500	120	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Benzo[g,h,i]perylene	ND		1500	73	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Benzo[k]fluoranthene	ND		1500	180	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Bis(2-chloroethoxy)methane	ND		1500	100	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Bis(2-chloroethyl)ether	ND		1500	76	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Bis(2-ethylhexyl) phthalate	ND		1500	210	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Butyl benzyl phthalate	ND		1500	200	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Caprolactam	ND		7300	480	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Carbazole	ND		1500	160	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Chrysene	ND		1500	120	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Di-n-butyl phthalate	ND		1500	130	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Di-n-octyl phthalate	ND		1500	66	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Dibenz(a,h)anthracene	ND		1500	87	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Dibenzofuran	ND		1500	91	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Diethyl phthalate	ND		3000	120	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
<b>Dimethyl phthalate</b>	<b>830</b>	<b>J B</b>	1500	100	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Fluoranthene	ND		1500	160	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Fluorene	ND		1500	82	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Hexachlorobenzene	ND		1500	130	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Hexachlorobutadiene	ND		1500	46	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Hexachlorocyclopentadiene	ND		7300	230	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Hexachloroethane	ND		1500	97	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Indeno[1,2,3-cd]pyrene	ND		1500	100	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Naphthalene	ND		1500	140	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Nitrobenzene	ND		1500	100	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
N-Nitrosodi-n-propylamine	ND		1500	140	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
n-Nitrosodiphenylamine(as diphenylamine)	ND		1500	96	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Pentachlorophenol	ND		7300	1500	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
Phenol	ND		1500	82	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
<b>Phenanthrene</b>	<b>210</b>	<b>J</b>	1500	78	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
<b>Pyrene</b>	<b>200</b>	<b>J</b>	1500	55	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
2,2'-oxybis[1-chloropropane]	ND		1500	100	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
2-Chloronaphthalene	ND		1500	46	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
2-Chlorophenol	ND		1500	96	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
<b>2-Methylnaphthalene</b>	<b>220</b>	<b>J</b>	1500	87	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
2-Methylphenol	ND		1500	59	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
2-Nitroaniline	ND		7300	230	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
2-Nitrophenol	ND		1500	46	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
2,4-Dichlorophenol	ND		1500	46	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4
2,4-Dimethylphenol	ND		1500	300	ug/Kg	*	09/22/13 14:38	09/24/13 15:39	4

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-81(2-2.5)**

**Date Collected: 09/14/13 13:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-50**

**Matrix: Solid**

**Percent Solids: 87.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		7300	1500	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
2,4-Dinitrotoluene	ND		1500	300	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
2,6-Dinitrotoluene	ND		1500	130	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
2,4,5-Trichlorophenol	ND		1500	46	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
2,4,6-Trichlorophenol	ND		1500	46	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
3,3'-Dichlorobenzidine	ND		3000	410	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
3 & 4 Methylphenol	ND		1500	150	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
3-Nitroaniline	ND		7300	330	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
4-Bromophenyl phenyl ether	ND		1500	87	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
4-Chloro-3-methylphenol	ND		1500	300	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
4-Chloroaniline	ND		1500	370	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
4-Chlorophenyl phenyl ether	ND		1500	96	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
4-Nitroaniline	ND		7300	330	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
4-Nitrophenol	ND		7300	440	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
4,6-Dinitro-2-methylphenol	ND		7300	1500	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
1,4-Dichlorobenzene	ND		1500	62	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4
1,2,4-Trichlorobenzene	ND		1500	130	ug/Kg	☼	09/22/13 14:38	09/24/13 15:39	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77	D	53 - 120	09/22/13 14:38	09/24/13 15:39	4
Phenol-d5	82	D	52 - 120	09/22/13 14:38	09/24/13 15:39	4
Nitrobenzene-d5	79	D	50 - 120	09/22/13 14:38	09/24/13 15:39	4
2-Fluorobiphenyl	85	D	50 - 120	09/22/13 14:38	09/24/13 15:39	4
2,4,6-Tribromophenol	90	D	51 - 120	09/22/13 14:38	09/24/13 15:39	4
Terphenyl-d14	94	D	55 - 120	09/22/13 14:38	09/24/13 15:39	4

**Client Sample ID: S-DP-88(4-5)**

**Date Collected: 09/13/13 17:23**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-56**

**Matrix: Solid**

**Percent Solids: 78.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		410	13	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Acenaphthylene	ND		410	21	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Acetophenone	ND		410	25	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Anthracene	ND		410	21	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Atrazine	ND		410	46	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Benzidine	ND		4100	1200	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Benzo[a]anthracene	ND		410	25	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Benzo[a]pyrene	ND		410	25	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Benzo[b]fluoranthene	ND		410	32	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Benzo[g,h,i]perylene	ND		410	20	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Benzo[k]fluoranthene	ND		410	49	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Bis(2-chloroethoxy)methane	ND		410	28	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Bis(2-chloroethyl)ether	ND		410	21	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Bis(2-ethylhexyl) phthalate	ND		410	57	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Butyl benzyl phthalate	ND		410	53	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Caprolactam	ND		2000	130	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Carbazole	ND		410	44	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Chrysene	ND		410	33	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Di-n-butyl phthalate	ND		410	36	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Di-n-octyl phthalate	ND		410	18	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-88(4-5)**

**Date Collected: 09/13/13 17:23**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-56**

**Matrix: Solid**

**Percent Solids: 78.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		410	23	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Dibenzofuran	ND		410	25	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Diethyl phthalate	ND		820	32	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
<b>Dimethyl phthalate</b>	<b>950</b>	<b>B</b>	410	28	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Fluoranthene	ND		410	44	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Fluorene	ND		410	22	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Hexachlorobenzene	ND		410	36	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Hexachlorobutadiene	ND		410	12	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Hexachlorocyclopentadiene	ND		2000	62	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Hexachloroethane	ND		410	26	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Indeno[1,2,3-cd]pyrene	ND		410	27	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Naphthalene	ND		410	38	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Nitrobenzene	ND		410	27	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
N-Nitrosodi-n-propylamine	ND		410	38	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		410	26	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Pentachlorophenol	ND		2000	410	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Phenol	ND		410	22	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Phenanthrene	ND		410	21	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
Pyrene	ND		410	15	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
2,2'-oxybis[1-chloropropane]	ND		410	28	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
2-Chloronaphthalene	ND		410	12	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
2-Chlorophenol	ND		410	26	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
2-Methylnaphthalene	ND		410	23	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
2-Methylphenol	ND		410	16	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
2-Nitroaniline	ND		2000	62	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
2-Nitrophenol	ND		410	12	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
2,4-Dichlorophenol	ND		410	12	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
2,4-Dimethylphenol	ND		410	82	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
2,4-Dinitrophenol	ND		2000	410	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
2,4-Dinitrotoluene	ND		410	82	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
2,6-Dinitrotoluene	ND		410	35	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
2,4,5-Trichlorophenol	ND		410	12	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
2,4,6-Trichlorophenol	ND		410	12	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
3,3'-Dichlorobenzidine	ND		820	110	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
3 & 4 Methylphenol	ND		410	41	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
3-Nitroaniline	ND		2000	90	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
4-Bromophenyl phenyl ether	ND		410	23	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
4-Chloro-3-methylphenol	ND		410	82	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
4-Chloroaniline	ND		410	100	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
4-Chlorophenyl phenyl ether	ND		410	26	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
4-Nitroaniline	ND		2000	90	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
4-Nitrophenol	ND		2000	120	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
4,6-Dinitro-2-methylphenol	ND		2000	410	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
1,4-Dichlorobenzene	ND		410	17	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1
1,2,4-Trichlorobenzene	ND		410	35	ug/Kg	☼	09/22/13 14:38	09/24/13 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		53 - 120	09/22/13 14:38	09/24/13 17:00	1
Phenol-d5	78		52 - 120	09/22/13 14:38	09/24/13 17:00	1

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-88(4-5)**  
**Date Collected: 09/13/13 17:23**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-56**  
**Matrix: Solid**  
**Percent Solids: 78.8**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	79		50 - 120	09/22/13 14:38	09/24/13 17:00	1
2-Fluorobiphenyl	82		50 - 120	09/22/13 14:38	09/24/13 17:00	1
2,4,6-Tribromophenol	94		51 - 120	09/22/13 14:38	09/24/13 17:00	1
Terphenyl-d14	91		55 - 120	09/22/13 14:38	09/24/13 17:00	1

**Client Sample ID: S-DP-88(7-8)**  
**Date Collected: 09/13/13 17:25**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-68**  
**Matrix: Solid**  
**Percent Solids: 61.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	H	510	16	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Acenaphthylene	ND	H	510	27	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Acetophenone	ND	H	510	31	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Anthracene	ND	H	510	27	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Atrazine	ND	H	510	58	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Benzidine	ND	H	5100	1500	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Benzo[a]anthracene	ND	H	510	31	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Benzo[a]pyrene	ND	H	510	31	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Benzo[b]fluoranthene	ND	H	510	41	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Benzo[g,h,i]perylene	ND	H	510	25	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Benzo[k]fluoranthene	ND	H	510	62	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Bis(2-chloroethoxy)methane	ND	H	510	36	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Bis(2-chloroethyl)ether	ND	H	510	26	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Bis(2-ethylhexyl) phthalate	ND	H	510	72	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Butyl benzyl phthalate	ND	H	510	67	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Caprolactam	ND	H	2500	170	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Carbazole	ND	H	510	56	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Chrysene	ND	H	510	42	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Di-n-butyl phthalate	ND	H	510	45	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Di-n-octyl phthalate	ND	H	510	22	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Dibenz(a,h)anthracene	ND	H	510	30	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Dibenzofuran	ND	H	510	31	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Diethyl phthalate	ND	H	1000	41	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Dimethyl phthalate	ND	H	510	36	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Fluoranthene	ND	H	510	56	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Fluorene	ND	H	510	28	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Hexachlorobenzene	ND	H	510	45	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Hexachlorobutadiene	ND	H	510	16	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Hexachlorocyclopentadiene	ND	H	2500	78	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Hexachloroethane	ND	H	510	33	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Indeno[1,2,3-cd]pyrene	ND	H	510	34	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Naphthalene	ND	H	510	48	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Nitrobenzene	ND	H	510	34	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
N-Nitrosodi-n-propylamine	ND	H	510	48	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
n-Nitrosodiphenylamine(as diphenylamine)	ND	H	510	33	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Pentachlorophenol	ND	H	2500	510	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Phenol	ND	H	510	28	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Phenanthrene	ND	H	510	27	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
Pyrene	ND	H	510	19	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-88(7-8)**  
**Date Collected: 09/13/13 17:25**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-68**  
**Matrix: Solid**  
**Percent Solids: 61.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	ND	H	510	36	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
2-Chloronaphthalene	ND	H	510	16	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
2-Chlorophenol	ND	H	510	33	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
2-Methylnaphthalene	ND	H	510	30	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
2-Methylphenol	ND	H	510	20	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
2-Nitroaniline	ND	H	2500	78	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
2-Nitrophenol	ND	H	510	16	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
2,4-Dichlorophenol	ND	H	510	16	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
2,4-Dimethylphenol	ND	H	510	100	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
2,4-Dinitrophenol	ND	H	2500	520	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
2,4-Dinitrotoluene	ND	H	510	100	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
2,6-Dinitrotoluene	ND	H	510	44	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
2,4,5-Trichlorophenol	ND	H	510	16	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
2,4,6-Trichlorophenol	ND	H	510	16	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
3,3'-Dichlorobenzidine	ND	H	1000	140	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
<b>3 &amp; 4 Methylphenol</b>	<b>120</b>	<b>J H</b>	510	51	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
3-Nitroaniline	ND	H	2500	110	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
4-Bromophenyl phenyl ether	ND	H	510	30	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
4-Chloro-3-methylphenol	ND	H	510	100	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
4-Chloroaniline	ND	H	510	130	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
4-Chlorophenyl phenyl ether	ND	H	510	33	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
4-Nitroaniline	ND	H	2500	110	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
4-Nitrophenol	ND	H	2500	150	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
4,6-Dinitro-2-methylphenol	ND	H	2500	510	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
1,4-Dichlorobenzene	ND	H	510	21	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1
1,2,4-Trichlorobenzene	ND	H	510	44	ug/Kg	☼	10/03/13 13:30	10/08/13 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	78		53 - 120	10/03/13 13:30	10/08/13 20:16	1
Phenol-d5	81		52 - 120	10/03/13 13:30	10/08/13 20:16	1
Nitrobenzene-d5	79		50 - 120	10/03/13 13:30	10/08/13 20:16	1
2-Fluorobiphenyl	81		50 - 120	10/03/13 13:30	10/08/13 20:16	1
2,4,6-Tribromophenol	86		51 - 120	10/03/13 13:30	10/08/13 20:16	1
Terphenyl-d14	85		55 - 120	10/03/13 13:30	10/08/13 20:16	1

**Client Sample ID: S-DP-97(2-3)**  
**Date Collected: 09/13/13 16:35**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-72**  
**Matrix: Solid**  
**Percent Solids: 77.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		8400	260	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Acenaphthylene	ND		8400	430	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Acetophenone	ND		8400	510	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Anthracene	ND		8400	430	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Atrazine	ND		8400	940	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Benzidine	ND		84000	25000	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Benzo[a]anthracene	ND		8400	510	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Benzo[a]pyrene	ND		8400	510	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Benzo[b]fluoranthene	ND		8400	660	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Benzo[g,h,i]perylene	ND		8400	410	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Benzo[k]fluoranthene	ND		8400	1000	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-97(2-3)**

**Date Collected: 09/13/13 16:35**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-72**

**Matrix: Solid**

**Percent Solids: 77.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		8400	580	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Bis(2-chloroethyl)ether	ND		8400	420	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Bis(2-ethylhexyl) phthalate	ND		8400	1200	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Butyl benzyl phthalate	ND		8400	1100	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Caprolactam	ND		41000	2700	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Carbazole	ND		8400	910	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Chrysene	ND		8400	680	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Di-n-butyl phthalate	ND		8400	740	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Di-n-octyl phthalate	ND		8400	370	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Dibenz(a,h)anthracene	ND		8400	480	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Dibenzofuran	ND		8400	510	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Diethyl phthalate	ND		17000	660	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
<b>Dimethyl phthalate</b>	<b>1300</b>	<b>J B</b>	8400	580	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Fluoranthene	ND		8400	910	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Fluorene	ND		8400	460	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Hexachlorobenzene	ND		8400	740	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Hexachlorobutadiene	ND		8400	250	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Hexachlorocyclopentadiene	ND		41000	1300	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Hexachloroethane	ND		8400	540	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Indeno[1,2,3-cd]pyrene	ND		8400	560	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Naphthalene	ND		8400	790	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Nitrobenzene	ND		8400	560	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
<b>N-Nitrosodi-n-propylamine</b>	<b>4500</b>	<b>J</b>	8400	790	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
<b>n-Nitrosodiphenylamine(as diphenylamine)</b>	<b>9600</b>		8400	530	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Pentachlorophenol	ND		41000	8400	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Phenol	ND		8400	460	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Phenanthrene	ND		8400	430	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Pyrene	ND		8400	310	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
2,2'-oxybis[1-chloropropane]	ND		8400	580	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
2-Chloronaphthalene	ND		8400	250	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
2-Chlorophenol	ND		8400	530	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
2-Methylnaphthalene	ND		8400	480	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
2-Methylphenol	ND		8400	330	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
2-Nitroaniline	ND		41000	1300	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
2-Nitrophenol	ND		8400	250	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
2,4-Dichlorophenol	ND		8400	250	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
2,4-Dimethylphenol	ND		8400	1700	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
2,4-Dinitrophenol	ND		41000	8400	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
2,4-Dinitrotoluene	ND		8400	1700	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
2,6-Dinitrotoluene	ND		8400	710	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
2,4,5-Trichlorophenol	ND		8400	250	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
2,4,6-Trichlorophenol	ND		8400	250	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
3,3'-Dichlorobenzidine	ND		17000	2300	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
3 & 4 Methylphenol	ND		8400	840	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
3-Nitroaniline	ND		41000	1900	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
4-Bromophenyl phenyl ether	ND		8400	480	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
4-Chloro-3-methylphenol	ND		8400	1700	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
4-Chloroaniline	ND		8400	2100	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
4-Chlorophenyl phenyl ether	ND		8400	530	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-97(2-3)**  
**Date Collected: 09/13/13 16:35**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-72**  
**Matrix: Solid**  
**Percent Solids: 77.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		41000	1800	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
4-Nitrophenol	ND		41000	2500	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
4,6-Dinitro-2-methylphenol	ND		41000	8400	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
1,4-Dichlorobenzene	ND		8400	340	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
1,2,4-Trichlorobenzene	ND		8400	710	ug/Kg	☼	09/22/13 14:38	09/24/13 17:27	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	79	D	53 - 120				09/22/13 14:38	09/24/13 17:27	10
Phenol-d5	86	D	52 - 120				09/22/13 14:38	09/24/13 17:27	10
Nitrobenzene-d5	117	D	50 - 120				09/22/13 14:38	09/24/13 17:27	10
2-Fluorobiphenyl	86	D	50 - 120				09/22/13 14:38	09/24/13 17:27	10
2,4,6-Tribromophenol	88	D	51 - 120				09/22/13 14:38	09/24/13 17:27	10
Terphenyl-d14	92	D	55 - 120				09/22/13 14:38	09/24/13 17:27	10

**Client Sample ID: N-DP-39(2-3)**  
**Date Collected: 09/14/13 11:25**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-96**  
**Matrix: Solid**  
**Percent Solids: 89.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		360	11	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Acenaphthylene	ND		360	19	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Acetophenone	ND		360	22	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Anthracene	ND		360	19	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Atrazine	ND		360	41	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Benzidine	ND		3600	1100	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Benzo[a]anthracene	ND		360	22	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Benzo[a]pyrene	ND		360	22	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Benzo[b]fluoranthene	ND		360	29	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Benzo[g,h,i]perylene	ND		360	18	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Benzo[k]fluoranthene	ND		360	44	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Bis(2-chloroethoxy)methane	ND		360	25	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Bis(2-chloroethyl)ether	ND		360	18	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Bis(2-ethylhexyl) phthalate	ND		360	51	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Butyl benzyl phthalate	ND		360	48	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Caprolactam	ND		1800	120	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Carbazole	ND		360	40	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Chrysene	ND		360	30	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Di-n-butyl phthalate	ND		360	32	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Di-n-octyl phthalate	ND		360	16	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Dibenz(a,h)anthracene	ND		360	21	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Dibenzofuran	ND		360	22	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Diethyl phthalate	ND		730	29	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
<b>Dimethyl phthalate</b>	<b>830</b>	<b>B</b>	360	25	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Fluoranthene	ND		360	40	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Fluorene	ND		360	20	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Hexachlorobenzene	ND		360	32	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Hexachlorobutadiene	ND		360	11	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Hexachlorocyclopentadiene	ND		1800	55	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Hexachloroethane	ND		360	24	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Indeno[1,2,3-cd]pyrene	ND		360	24	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Naphthalene	ND		360	34	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: N-DP-39(2-3)**  
**Date Collected: 09/14/13 11:25**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-96**  
**Matrix: Solid**  
**Percent Solids: 89.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		360	24	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
N-Nitrosodi-n-propylamine	ND		360	34	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		360	23	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Pentachlorophenol	ND		1800	360	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Phenol	ND		360	20	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Phenanthrene	ND		360	19	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
<b>Pyrene</b>	<b>17</b>	<b>J</b>	360	13	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
2,2'-oxybis[1-chloropropane]	ND		360	25	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
2-Chloronaphthalene	ND		360	11	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
2-Chlorophenol	ND		360	23	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
2-Methylnaphthalene	ND		360	21	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
2-Methylphenol	ND		360	14	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
2-Nitroaniline	ND		1800	55	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
2-Nitrophenol	ND		360	11	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
2,4-Dichlorophenol	ND		360	11	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
2,4-Dimethylphenol	ND		360	73	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
2,4-Dinitrophenol	ND		1800	370	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
2,4-Dinitrotoluene	ND		360	73	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
2,6-Dinitrotoluene	ND		360	31	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
2,4,5-Trichlorophenol	ND		360	11	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
2,4,6-Trichlorophenol	ND		360	11	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
3,3'-Dichlorobenzidine	ND		730	100	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
3 & 4 Methylphenol	ND		360	36	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
3-Nitroaniline	ND		1800	81	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
4-Bromophenyl phenyl ether	ND		360	21	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
4-Chloro-3-methylphenol	ND		360	73	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
4-Chloroaniline	ND		360	91	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
4-Chlorophenyl phenyl ether	ND		360	23	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
4-Nitroaniline	ND		1800	80	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
4-Nitrophenol	ND		1800	110	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
4,6-Dinitro-2-methylphenol	ND		1800	360	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
1,4-Dichlorobenzene	ND		360	15	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
1,2,4-Trichlorobenzene	ND		360	31	ug/Kg	☼	09/22/13 14:38	09/24/13 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol	85		53 - 120				09/22/13 14:38	09/24/13 17:55	1
Phenol-d5	89		52 - 120				09/22/13 14:38	09/24/13 17:55	1
Nitrobenzene-d5	88		50 - 120				09/22/13 14:38	09/24/13 17:55	1
2-Fluorobiphenyl	88		50 - 120				09/22/13 14:38	09/24/13 17:55	1
2,4,6-Tribromophenol	97		51 - 120				09/22/13 14:38	09/24/13 17:55	1
Terphenyl-d14	99		55 - 120				09/22/13 14:38	09/24/13 17:55	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC)

**Client Sample ID: S-DP-75A(2-3)**

**Date Collected: 09/14/13 10:28**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-46**

**Matrix: Solid**

**Percent Solids: 83.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C6 Aliphatics	ND	H	7.9		mg/Kg	☼	10/11/13 13:24	10/11/13 14:44	1
C6-C8 Aliphatics	ND	H	7.9		mg/Kg	☼	10/11/13 13:24	10/11/13 14:44	1
C8-C10 Aliphatics	ND	H	7.9		mg/Kg	☼	10/11/13 13:24	10/11/13 14:44	1
C10-C12 Aliphatics	ND	H	7.9		mg/Kg	☼	10/11/13 13:24	10/11/13 14:44	1
C8-C10 Aromatics	ND	H	7.9		mg/Kg	☼	10/11/13 13:24	10/11/13 14:44	1
C10-C12 Aromatics	ND	H	7.9		mg/Kg	☼	10/11/13 13:24	10/11/13 14:44	1
C12-C13 Aromatics	ND	H	7.9		mg/Kg	☼	10/11/13 13:24	10/11/13 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,5-Dibromotoluene (fid)	113		60 - 140	10/11/13 13:24	10/11/13 14:44	1
2,5-Dibromotoluene (pid)	110		60 - 140	10/11/13 13:24	10/11/13 14:44	1

**Client Sample ID: S-DP-101(3-3.5)**

**Date Collected: 09/14/13 08:57**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-76**

**Matrix: Solid**

**Percent Solids: 70.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C6 Aliphatics	ND	H	15		mg/Kg	☼	10/11/13 13:24	10/11/13 15:16	1
C6-C8 Aliphatics	ND	H	15		mg/Kg	☼	10/11/13 13:24	10/11/13 15:16	1
C8-C10 Aliphatics	ND	H	15		mg/Kg	☼	10/11/13 13:24	10/11/13 15:16	1
C10-C12 Aliphatics	ND	H	15		mg/Kg	☼	10/11/13 13:24	10/11/13 15:16	1
C8-C10 Aromatics	ND	H	15		mg/Kg	☼	10/11/13 13:24	10/11/13 15:16	1
C10-C12 Aromatics	ND	H	15		mg/Kg	☼	10/11/13 13:24	10/11/13 15:16	1
C12-C13 Aromatics	ND	H	15		mg/Kg	☼	10/11/13 13:24	10/11/13 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,5-Dibromotoluene (fid)	111		60 - 140	10/11/13 13:24	10/11/13 15:16	1
2,5-Dibromotoluene (pid)	108		60 - 140	10/11/13 13:24	10/11/13 15:16	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-75A(5-6)**

**Date Collected: 09/14/13 10:37**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-20**

**Matrix: Solid**

**Percent Solids: 93.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	5.5	H	5.3		mg/Kg	☼	10/01/13 10:46	10/01/13 21:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	98		50 - 150				10/01/13 10:46	10/01/13 21:17	1

**Client Sample ID: S-DP-81(6-7)**

**Date Collected: 09/14/13 14:11**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-22**

**Matrix: Solid**

**Percent Solids: 82.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	30	H	6.6		mg/Kg	☼	10/01/13 10:46	10/01/13 23:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	90		50 - 150				10/01/13 10:46	10/01/13 23:09	1

**Client Sample ID: S-DP-52(6.5-7.5)**

**Date Collected: 09/14/13 09:47**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-41**

**Matrix: Solid**

**Percent Solids: 78.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.2		mg/Kg	☼	09/19/13 10:06	09/19/13 22:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	100		50 - 150				09/19/13 10:06	09/19/13 22:53	1

**Client Sample ID: S-DP-55(0.5-1.5)**

**Date Collected: 09/13/13 13:35**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-42**

**Matrix: Solid**

**Percent Solids: 86.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.1		mg/Kg	☼	09/19/13 10:06	09/19/13 23:21	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	101		50 - 150				09/19/13 10:06	09/19/13 23:21	1

**Client Sample ID: S-DP-55A(10-11)**

**Date Collected: 09/14/13 10:03**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-43**

**Matrix: Solid**

**Percent Solids: 54.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		12		mg/Kg	☼	09/19/13 10:06	09/19/13 23:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	101		50 - 150				09/19/13 10:06	09/19/13 23:49	1

**Client Sample ID: S-DP-1B(6-6.5)**

**Date Collected: 09/14/13 10:15**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-44**

**Matrix: Solid**

**Percent Solids: 82.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.0		mg/Kg	☼	09/19/13 10:58	09/20/13 13:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	90		50 - 150				09/19/13 10:58	09/20/13 13:50	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-65(4-5)**  
**Date Collected: 09/13/13 16:42**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-45**  
**Matrix: Solid**  
**Percent Solids: 92.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	20		4.8		mg/Kg	☼	09/19/13 10:58	09/20/13 14:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	91		50 - 150				09/19/13 10:58	09/20/13 14:51	1

**Client Sample ID: S-DP-75A(2-3)**  
**Date Collected: 09/14/13 10:28**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-46**  
**Matrix: Solid**  
**Percent Solids: 83.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	8.6		5.9		mg/Kg	☼	09/19/13 10:58	09/20/13 15:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	93		50 - 150				09/19/13 10:58	09/20/13 15:22	1

**Client Sample ID: S-DP-76(5-6)**  
**Date Collected: 09/14/13 14:38**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-47**  
**Matrix: Solid**  
**Percent Solids: 68.9**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		8.7		mg/Kg	☼	09/19/13 10:58	09/20/13 15:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	93		50 - 150				09/19/13 10:58	09/20/13 15:53	1

**Client Sample ID: S-DP-78(0-1)**  
**Date Collected: 09/13/13 16:51**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-48**  
**Matrix: Solid**  
**Percent Solids: 79.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		8.8		mg/Kg	☼	09/19/13 10:58	09/20/13 16:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	93		50 - 150				09/19/13 10:58	09/20/13 16:23	1

**Client Sample ID: S-DP-80(2-3)**  
**Date Collected: 09/13/13 15:57**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-49**  
**Matrix: Solid**  
**Percent Solids: 94.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.7		mg/Kg	☼	09/19/13 10:58	09/20/13 16:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	90		50 - 150				09/19/13 10:58	09/20/13 16:54	1

**Client Sample ID: S-DP-81(2-2.5)**  
**Date Collected: 09/14/13 13:55**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-50**  
**Matrix: Solid**  
**Percent Solids: 87.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	130		5.8		mg/Kg	☼	09/19/13 10:58	09/20/13 18:35	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	96		50 - 150				09/19/13 10:58	09/20/13 18:35	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-82(7.5-8.5)**

**Date Collected: 09/13/13 12:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-51**

**Matrix: Solid**

**Percent Solids: 62.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	44		11		mg/Kg	☼	09/19/13 10:58	09/20/13 19:06	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	89		50 - 150				09/19/13 10:58	09/20/13 19:06	1

**Client Sample ID: S-DP-83(9-10)**

**Date Collected: 09/13/13 15:30**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-52**

**Matrix: Solid**

**Percent Solids: 80.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	8.8		7.0		mg/Kg	☼	09/19/13 10:58	09/20/13 19:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	88		50 - 150				09/19/13 10:58	09/20/13 19:36	1

**Client Sample ID: S-DP-84(6.5-7.5)**

**Date Collected: 09/14/13 15:40**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-53**

**Matrix: Solid**

**Percent Solids: 85.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		8.0		mg/Kg	☼	09/19/13 10:58	09/20/13 20:07	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	93		50 - 150				09/19/13 10:58	09/20/13 20:07	1

**Client Sample ID: S-DP-85(7.5-8.5)**

**Date Collected: 09/13/13 14:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-54**

**Matrix: Solid**

**Percent Solids: 84.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.5		mg/Kg	☼	09/19/13 10:58	09/20/13 21:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	99		50 - 150				09/19/13 10:58	09/20/13 21:08	1

**Client Sample ID: S-DP-87(5-6)**

**Date Collected: 09/14/13 14:56**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-55**

**Matrix: Solid**

**Percent Solids: 89.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.6		mg/Kg	☼	09/19/13 10:58	09/20/13 21:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	98		50 - 150				09/19/13 10:58	09/20/13 21:38	1

**Client Sample ID: S-DP-88(4-5)**

**Date Collected: 09/13/13 17:23**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-56**

**Matrix: Solid**

**Percent Solids: 78.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	37		7.3		mg/Kg	☼	09/19/13 10:58	09/20/13 22:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	99		50 - 150				09/19/13 10:58	09/20/13 22:09	1

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-86(3.5-4.5)**

**Date Collected: 09/13/13 16:12**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-57**

**Matrix: Solid**

**Percent Solids: 86.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.1		mg/Kg	☼	09/19/13 10:58	09/20/13 22:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	92		50 - 150				09/19/13 10:58	09/20/13 22:39	1

**Client Sample ID: S-DP-93(5-6)**

**Date Collected: 09/14/13 08:52**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-58**

**Matrix: Solid**

**Percent Solids: 72.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		1.4		mg/Kg	☼	09/19/13 10:58	09/20/13 23:40	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	99		50 - 150				09/19/13 10:58	09/20/13 23:40	1

**Client Sample ID: S-DP-94(5-6)**

**Date Collected: 09/14/13 15:35**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-59**

**Matrix: Solid**

**Percent Solids: 85.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	2.4		1.1		mg/Kg	☼	09/19/13 10:58	09/21/13 00:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	93		50 - 150				09/19/13 10:58	09/21/13 00:11	1

**Client Sample ID: S-DP-95(3-4)**

**Date Collected: 09/13/13 16:54**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-60**

**Matrix: Solid**

**Percent Solids: 82.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	48		1.4		mg/Kg	☼	09/19/13 10:58	09/21/13 00:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	93		50 - 150				09/19/13 10:58	09/21/13 00:41	1

**Client Sample ID: S-DP-96(7-8)**

**Date Collected: 09/13/13 16:35**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-61**

**Matrix: Solid**

**Percent Solids: 79.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		1.2		mg/Kg	☼	09/19/13 10:58	09/21/13 01:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	0.7	X	50 - 150				09/19/13 10:58	09/21/13 01:11	1

**Client Sample ID: S-DP-88(7-8)**

**Date Collected: 09/13/13 17:25**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-68**

**Matrix: Solid**

**Percent Solids: 61.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND	H	9.7		mg/Kg	☼	10/01/13 10:46	10/02/13 00:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	89		50 - 150				10/01/13 10:46	10/02/13 00:33	1

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-97(2-3)**

**Date Collected: 09/13/13 16:35**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-72**

**Matrix: Solid**

**Percent Solids: 77.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	41		2.0		mg/Kg	☼	09/19/13 10:58	09/21/13 01:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	0.4	X	50 - 150				09/19/13 10:58	09/21/13 01:42	1

**Client Sample ID: S-DP-98(1-1.5)**

**Date Collected: 09/13/13 17:13**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-73**

**Matrix: Solid**

**Percent Solids: 94.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		0.92		mg/Kg	☼	09/19/13 10:58	09/21/13 02:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	1	X	50 - 150				09/19/13 10:58	09/21/13 02:12	1

**Client Sample ID: S-DP-99(3-4)**

**Date Collected: 09/14/13 14:26**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-74**

**Matrix: Solid**

**Percent Solids: 92.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.7		mg/Kg	☼	09/20/13 12:39	09/20/13 14:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	94		50 - 150				09/20/13 12:39	09/20/13 14:09	1

**Client Sample ID: S-DP-100(5-6)**

**Date Collected: 09/13/13 08:34**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-75**

**Matrix: Solid**

**Percent Solids: 63.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		8.6		mg/Kg	☼	09/20/13 12:39	09/20/13 15:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	98		50 - 150				09/20/13 12:39	09/20/13 15:34	1

**Client Sample ID: S-DP-101(3-3.5)**

**Date Collected: 09/14/13 08:57**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-76**

**Matrix: Solid**

**Percent Solids: 70.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		10		mg/Kg	☼	09/20/13 12:39	09/20/13 16:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	95		50 - 150				09/20/13 12:39	09/20/13 16:02	1

**Client Sample ID: N-DP-3A(5-6)**

**Date Collected: 09/14/13 11:00**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-77**

**Matrix: Solid**

**Percent Solids: 83.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	15		7.0		mg/Kg	☼	09/20/13 12:39	09/20/13 16:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	92		50 - 150				09/20/13 12:39	09/20/13 16:30	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-3B(10-11)**

**Date Collected: 09/14/13 11:44**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-78**

**Matrix: Solid**

**Percent Solids: 52.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		14		mg/Kg	☼	09/20/13 12:39	09/20/13 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (fid)</i>	99		50 - 150				09/20/13 12:39	09/20/13 16:59	1

**Client Sample ID: N-DP-11(5-6)**

**Date Collected: 09/14/13 13:00**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-79**

**Matrix: Solid**

**Percent Solids: 91.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.7		mg/Kg	☼	09/20/13 12:39	09/20/13 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (fid)</i>	96		50 - 150				09/20/13 12:39	09/20/13 18:23	1

**Client Sample ID: N-DP-13(6-7)**

**Date Collected: 09/14/13 13:15**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-80**

**Matrix: Solid**

**Percent Solids: 86.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.7		mg/Kg	☼	09/20/13 12:39	09/20/13 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (fid)</i>	100		50 - 150				09/20/13 12:39	09/20/13 18:51	1

**Client Sample ID: N-DP-24(7-8)**

**Date Collected: 09/14/13 12:30**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-81**

**Matrix: Solid**

**Percent Solids: 90.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.5		mg/Kg	☼	09/20/13 12:39	09/20/13 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (fid)</i>	97		50 - 150				09/20/13 12:39	09/20/13 19:19	1

**Client Sample ID: S-DP-101(7-7.5)**

**Date Collected: 09/14/13 09:08**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-88**

**Matrix: Solid**

**Percent Solids: 72.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND	H	7.0		mg/Kg	☼	10/01/13 10:46	10/02/13 01:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (fid)</i>	93		50 - 150				10/01/13 10:46	10/02/13 01:01	1

**Client Sample ID: N-DP-38(6.5-7)**

**Date Collected: 09/14/13 12:24**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-92**

**Matrix: Solid**

**Percent Solids: 91.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		2.6		mg/Kg	☼	09/20/13 12:39	09/20/13 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>a,a,a-Trifluorotoluene (fid)</i>	98		50 - 150				09/20/13 12:39	09/20/13 19:47	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-51(2-3)**

**Date Collected: 09/14/13 10:56**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-93**

**Matrix: Solid**

**Percent Solids: 87.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.0		mg/Kg	☼	09/20/13 12:39	09/20/13 20:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene (fid)</i>	99		50 - 150				09/20/13 12:39	09/20/13 20:15	1

**Client Sample ID: S-DP-84(10-11)**

**Date Collected: 09/14/13 15:48**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-94**

**Matrix: Solid**

**Percent Solids: 83.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.7		mg/Kg	☼	09/20/13 12:39	09/20/13 20:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene (fid)</i>	101		50 - 150				09/20/13 12:39	09/20/13 20:43	1

**Client Sample ID: S-DP-97(8-9)**

**Date Collected: 09/13/13 16:40**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-95**

**Matrix: Solid**

**Percent Solids: 87.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.2		mg/Kg	☼	09/20/13 12:39	09/20/13 21:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene (fid)</i>	98		50 - 150				09/20/13 12:39	09/20/13 21:39	1

**Client Sample ID: N-DP-39(2-3)**

**Date Collected: 09/14/13 11:25**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-96**

**Matrix: Solid**

**Percent Solids: 89.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.0		mg/Kg	☼	09/20/13 12:39	09/20/13 22:07	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene (fid)</i>	101		50 - 150				09/20/13 12:39	09/20/13 22:07	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

**Client Sample ID: S-DP-75A(2-3)**

**Date Collected: 09/14/13 10:28**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-46**

**Matrix: Solid**

**Percent Solids: 83.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND	H*	40		mg/Kg	☼	10/03/13 14:33	10/09/13 19:13	1
<b>C12-C16 Aliphatics</b>	<b>51</b>	<b>H</b>	40		mg/Kg	☼	10/03/13 14:33	10/09/13 19:13	1
<b>C16-C21 Aliphatics</b>	<b>410</b>	<b>H</b>	40		mg/Kg	☼	10/03/13 14:33	10/09/13 19:13	1
<b>C21-C34 Aliphatics</b>	<b>5000</b>	<b>H</b>	40		mg/Kg	☼	10/03/13 14:33	10/09/13 19:13	1
C10-C12 Aromatics	ND	H*	40		mg/Kg	☼	10/03/13 14:33	10/09/13 19:13	1
C12-C16 Aromatics	ND	H	40		mg/Kg	☼	10/03/13 14:33	10/09/13 19:13	1
<b>C16-C21 Aromatics</b>	<b>91</b>	<b>H</b>	40		mg/Kg	☼	10/03/13 14:33	10/09/13 19:13	1
<b>C21-C34 Aromatics</b>	<b>650</b>	<b>H</b>	40		mg/Kg	☼	10/03/13 14:33	10/09/13 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		60 - 140	10/03/13 14:33	10/09/13 19:13	1
1-Chlorooctadecane	73		60 - 140	10/03/13 14:33	10/09/13 19:13	1

**Client Sample ID: S-DP-101(3-3.5)**

**Date Collected: 09/14/13 08:57**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-76**

**Matrix: Solid**

**Percent Solids: 70.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND	H*	47		mg/Kg	☼	10/03/13 14:33	10/09/13 18:00	1
C12-C16 Aliphatics	ND	H	47		mg/Kg	☼	10/03/13 14:33	10/09/13 18:00	1
C16-C21 Aliphatics	ND	H	47		mg/Kg	☼	10/03/13 14:33	10/09/13 18:00	1
<b>C21-C34 Aliphatics</b>	<b>280</b>	<b>H</b>	47		mg/Kg	☼	10/03/13 14:33	10/09/13 18:00	1
C10-C12 Aromatics	ND	H*	47		mg/Kg	☼	10/03/13 14:33	10/09/13 18:00	1
C12-C16 Aromatics	ND	H	47		mg/Kg	☼	10/03/13 14:33	10/09/13 18:00	1
C16-C21 Aromatics	ND	H	47		mg/Kg	☼	10/03/13 14:33	10/09/13 18:00	1
<b>C21-C34 Aromatics</b>	<b>240</b>	<b>H</b>	47		mg/Kg	☼	10/03/13 14:33	10/09/13 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	60		60 - 140	10/03/13 14:33	10/09/13 18:00	1
1-Chlorooctadecane	71		60 - 140	10/03/13 14:33	10/09/13 18:00	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-75A(5-6)**

**Date Collected: 09/14/13 10:37**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-20**

**Matrix: Solid**

**Percent Solids: 93.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND	H	13		mg/Kg	☼	10/03/13 12:49	10/04/13 13:35	1
RRO (nC25-nC36)	ND	H	26		mg/Kg	☼	10/03/13 12:49	10/04/13 13:35	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctadecane	99		50 - 150				10/03/13 12:49	10/04/13 13:35	1

**Client Sample ID: S-DP-81(6-7)**

**Date Collected: 09/14/13 14:11**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-22**

**Matrix: Solid**

**Percent Solids: 82.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	190	H	15		mg/Kg	☼	10/03/13 12:49	10/04/13 13:51	1
RRO (nC25-nC36)	370	H	30		mg/Kg	☼	10/03/13 12:49	10/04/13 13:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctadecane	93		50 - 150				10/03/13 12:49	10/04/13 13:51	1

**Client Sample ID: S-DP-52(6.5-7.5)**

**Date Collected: 09/14/13 09:47**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-41**

**Matrix: Solid**

**Percent Solids: 78.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		16		mg/Kg	☼	09/24/13 09:47	09/24/13 22:34	1
RRO (nC25-nC36)	ND		32		mg/Kg	☼	09/24/13 09:47	09/24/13 22:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctadecane	70		50 - 150				09/24/13 09:47	09/24/13 22:34	1

**Client Sample ID: S-DP-55(0.5-1.5)**

**Date Collected: 09/13/13 13:35**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-42**

**Matrix: Solid**

**Percent Solids: 86.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/24/13 09:47	09/24/13 16:38	1
RRO (nC25-nC36)	49		29		mg/Kg	☼	09/24/13 09:47	09/24/13 16:38	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctadecane	89		50 - 150				09/24/13 09:47	09/24/13 16:38	1

**Client Sample ID: S-DP-55A(10-11)**

**Date Collected: 09/14/13 10:03**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-43**

**Matrix: Solid**

**Percent Solids: 54.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		22		mg/Kg	☼	09/24/13 09:47	09/24/13 22:53	1
RRO (nC25-nC36)	ND		45		mg/Kg	☼	09/24/13 09:47	09/24/13 22:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctadecane	72		50 - 150				09/24/13 09:47	09/24/13 22:53	1

**Client Sample ID: S-DP-1B(6-6.5)**

**Date Collected: 09/14/13 10:15**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-44**

**Matrix: Solid**

**Percent Solids: 82.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	35		15		mg/Kg	☼	09/24/13 13:12	09/25/13 11:37	1
RRO (nC25-nC36)	220		30		mg/Kg	☼	09/24/13 13:12	09/25/13 11:37	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	94		50 - 150				09/24/13 13:12	09/25/13 11:37	1	
<b>Client Sample ID: S-DP-65(4-5)</b>							<b>Lab Sample ID: 250-14195-45</b>			
Date Collected: 09/13/13 16:42							Matrix: Solid			
Date Received: 09/17/13 10:30							Percent Solids: 92.2			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	120		13		mg/Kg	☼	09/24/13 09:47	09/24/13 16:56	1	
RRO (nC25-nC36)	170		27		mg/Kg	☼	09/24/13 09:47	09/24/13 16:56	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	88		50 - 150				09/24/13 09:47	09/24/13 16:56	1	
<b>Client Sample ID: S-DP-75A(2-3)</b>							<b>Lab Sample ID: 250-14195-46</b>			
Date Collected: 09/14/13 10:28							Matrix: Solid			
Date Received: 09/17/13 10:30							Percent Solids: 83.3			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	1900		300		mg/Kg	☼	09/24/13 13:12	09/25/13 15:21	20	
RRO (nC25-nC36)	8800		600		mg/Kg	☼	09/24/13 13:12	09/25/13 15:21	20	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	57		50 - 150				09/24/13 13:12	09/25/13 15:21	20	
<b>Client Sample ID: S-DP-76(5-6)</b>							<b>Lab Sample ID: 250-14195-47</b>			
Date Collected: 09/14/13 14:38							Matrix: Solid			
Date Received: 09/17/13 10:30							Percent Solids: 68.9			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		18		mg/Kg	☼	09/24/13 13:12	09/25/13 12:15	1	
RRO (nC25-nC36)	41		36		mg/Kg	☼	09/24/13 13:12	09/25/13 12:15	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	99		50 - 150				09/24/13 13:12	09/25/13 12:15	1	
<b>Client Sample ID: S-DP-78(0-1)</b>							<b>Lab Sample ID: 250-14195-48</b>			
Date Collected: 09/13/13 16:51							Matrix: Solid			
Date Received: 09/17/13 10:30							Percent Solids: 79.2			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	120		16		mg/Kg	☼	09/24/13 09:47	09/24/13 17:14	1	
RRO (nC25-nC36)	380		31		mg/Kg	☼	09/24/13 09:47	09/24/13 17:14	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	85		50 - 150				09/24/13 09:47	09/24/13 17:14	1	
<b>Client Sample ID: S-DP-80(2-3)</b>							<b>Lab Sample ID: 250-14195-49</b>			
Date Collected: 09/13/13 15:57							Matrix: Solid			
Date Received: 09/17/13 10:30							Percent Solids: 94.0			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		13		mg/Kg	☼	09/24/13 09:47	09/24/13 17:33	1	
RRO (nC25-nC36)	ND		26		mg/Kg	☼	09/24/13 09:47	09/24/13 17:33	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	86		50 - 150				09/24/13 09:47	09/24/13 17:33	1	

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-81(2-2.5)**

**Date Collected: 09/14/13 13:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-50**

**Matrix: Solid**

**Percent Solids: 87.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	1100		140		mg/Kg	☼	09/24/13 13:12	09/25/13 15:21	10
RRO (nC25-nC36)	2100		280		mg/Kg	☼	09/24/13 13:12	09/25/13 15:21	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	125		50 - 150				09/24/13 13:12	09/25/13 15:21	10

**Client Sample ID: S-DP-82(7.5-8.5)**

**Date Collected: 09/13/13 12:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-51**

**Matrix: Solid**

**Percent Solids: 62.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	240		20		mg/Kg	☼	09/24/13 09:47	09/24/13 17:51	1
RRO (nC25-nC36)	370		39		mg/Kg	☼	09/24/13 09:47	09/24/13 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	80		50 - 150				09/24/13 09:47	09/24/13 17:51	1

**Client Sample ID: S-DP-83(9-10)**

**Date Collected: 09/13/13 15:30**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-52**

**Matrix: Solid**

**Percent Solids: 80.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		15		mg/Kg	☼	09/24/13 09:47	09/24/13 18:49	1
RRO (nC25-nC36)	ND		31		mg/Kg	☼	09/24/13 09:47	09/24/13 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	82		50 - 150				09/24/13 09:47	09/24/13 18:49	1

**Client Sample ID: S-DP-84(6.5-7.5)**

**Date Collected: 09/14/13 15:40**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-53**

**Matrix: Solid**

**Percent Solids: 85.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		15		mg/Kg	☼	09/24/13 13:12	09/25/13 12:54	1
RRO (nC25-nC36)	ND		29		mg/Kg	☼	09/24/13 13:12	09/25/13 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	99		50 - 150				09/24/13 13:12	09/25/13 12:54	1

**Client Sample ID: S-DP-85(7.5-8.5)**

**Date Collected: 09/13/13 14:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-54**

**Matrix: Solid**

**Percent Solids: 84.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		15		mg/Kg	☼	09/24/13 09:47	09/24/13 19:07	1
RRO (nC25-nC36)	ND		29		mg/Kg	☼	09/24/13 09:47	09/24/13 19:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	88		50 - 150				09/24/13 09:47	09/24/13 19:07	1

**Client Sample ID: S-DP-87(5-6)**

**Date Collected: 09/14/13 14:56**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-55**

**Matrix: Solid**

**Percent Solids: 89.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/24/13 13:12	09/25/13 13:10	1
RRO (nC25-nC36)	ND		28		mg/Kg	☼	09/24/13 13:12	09/25/13 13:10	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	101		50 - 150				09/24/13 13:12	09/25/13 13:10	1
<b>Client Sample ID: S-DP-88(4-5)</b> <b>Date Collected: 09/13/13 17:23</b> <b>Date Received: 09/17/13 10:30</b>							<b>Lab Sample ID: 250-14195-56</b> <b>Matrix: Solid</b> <b>Percent Solids: 78.8</b>		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	33		16		mg/Kg	☼	09/24/13 09:47	09/24/13 19:26	1
RRO (nC25-nC36)	160		31		mg/Kg	☼	09/24/13 09:47	09/24/13 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	87		50 - 150				09/24/13 09:47	09/24/13 19:26	1
<b>Client Sample ID: S-DP-86(3.5-4.5)</b> <b>Date Collected: 09/13/13 16:12</b> <b>Date Received: 09/17/13 10:30</b>							<b>Lab Sample ID: 250-14195-57</b> <b>Matrix: Solid</b> <b>Percent Solids: 86.4</b>		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/24/13 09:47	09/24/13 19:45	1
RRO (nC25-nC36)	ND		29		mg/Kg	☼	09/24/13 09:47	09/24/13 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	84		50 - 150				09/24/13 09:47	09/24/13 19:45	1
<b>Client Sample ID: S-DP-93(5-6)</b> <b>Date Collected: 09/14/13 08:52</b> <b>Date Received: 09/17/13 10:30</b>							<b>Lab Sample ID: 250-14195-58</b> <b>Matrix: Solid</b> <b>Percent Solids: 72.7</b>		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		17		mg/Kg	☼	09/24/13 13:12	09/25/13 14:05	1
RRO (nC25-nC36)	44		34		mg/Kg	☼	09/24/13 13:12	09/25/13 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	106		50 - 150				09/24/13 13:12	09/25/13 14:05	1
<b>Client Sample ID: S-DP-94(5-6)</b> <b>Date Collected: 09/14/13 15:35</b> <b>Date Received: 09/17/13 10:30</b>							<b>Lab Sample ID: 250-14195-59</b> <b>Matrix: Solid</b> <b>Percent Solids: 85.4</b>		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		15		mg/Kg	☼	09/24/13 13:12	09/25/13 14:24	1
RRO (nC25-nC36)	35		29		mg/Kg	☼	09/24/13 13:12	09/25/13 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	107		50 - 150				09/24/13 13:12	09/25/13 14:24	1
<b>Client Sample ID: S-DP-95(3-4)</b> <b>Date Collected: 09/13/13 16:54</b> <b>Date Received: 09/17/13 10:30</b>							<b>Lab Sample ID: 250-14195-60</b> <b>Matrix: Solid</b> <b>Percent Solids: 82.3</b>		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	120		15		mg/Kg	☼	09/24/13 09:47	09/24/13 20:04	1
RRO (nC25-nC36)	170		30		mg/Kg	☼	09/24/13 09:47	09/24/13 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	93		50 - 150				09/24/13 09:47	09/24/13 20:04	1



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: S-DP-96(7-8)**  
**Date Collected: 09/13/13 16:35**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-61**  
**Matrix: Solid**  
**Percent Solids: 79.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		16		mg/Kg	☼	09/24/13 09:47	09/24/13 20:22	1
RRO (nC25-nC36)	ND		31		mg/Kg	☼	09/24/13 09:47	09/24/13 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	82		50 - 150				09/24/13 09:47	09/24/13 20:22	1

**Client Sample ID: S-DP-88(7-8)**  
**Date Collected: 09/13/13 17:25**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-68**  
**Matrix: Solid**  
**Percent Solids: 61.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	35	H	20		mg/Kg	☼	10/03/13 12:49	10/04/13 14:10	1
RRO (nC25-nC36)	150	H	40		mg/Kg	☼	10/03/13 12:49	10/04/13 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	93		50 - 150				10/03/13 12:49	10/04/13 14:10	1

**Client Sample ID: S-DP-97(2-3)**  
**Date Collected: 09/13/13 16:35**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-72**  
**Matrix: Solid**  
**Percent Solids: 77.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	810		16		mg/Kg	☼	09/24/13 09:47	09/24/13 20:41	1
RRO (nC25-nC36)	920		32		mg/Kg	☼	09/24/13 09:47	09/24/13 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	66		50 - 150				09/24/13 09:47	09/24/13 20:41	1

**Client Sample ID: S-DP-98(1-1.5)**  
**Date Collected: 09/13/13 17:13**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-73**  
**Matrix: Solid**  
**Percent Solids: 94.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	09/24/13 09:47	09/24/13 21:00	1
RRO (nC25-nC36)	ND		26		mg/Kg	☼	09/24/13 09:47	09/24/13 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	80		50 - 150				09/24/13 09:47	09/24/13 21:00	1

**Client Sample ID: S-DP-99(3-4)**  
**Date Collected: 09/14/13 14:26**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-74**  
**Matrix: Solid**  
**Percent Solids: 92.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/24/13 13:12	09/25/13 14:43	1
RRO (nC25-nC36)	ND		27		mg/Kg	☼	09/24/13 13:12	09/25/13 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	97		50 - 150				09/24/13 13:12	09/25/13 14:43	1

**Client Sample ID: S-DP-100(5-6)**  
**Date Collected: 09/13/13 08:34**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-75**  
**Matrix: Solid**  
**Percent Solids: 63.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	220		20		mg/Kg	☼	09/24/13 09:47	09/24/13 21:19	1
RRO (nC25-nC36)	290		39		mg/Kg	☼	09/24/13 09:47	09/24/13 21:19	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	86		50 - 150				09/24/13 09:47	09/24/13 21:19	1	
<b>Client Sample ID: S-DP-101(3-3.5)</b>							<b>Lab Sample ID: 250-14195-76</b>			
<b>Date Collected: 09/14/13 08:57</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/17/13 10:30</b>							<b>Percent Solids: 70.3</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	520		350		mg/Kg	☼	09/24/13 13:12	09/25/13 15:02	20	
RRO (nC25-nC36)	3800		710		mg/Kg	☼	09/24/13 13:12	09/25/13 15:02	20	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	77		50 - 150				09/24/13 13:12	09/25/13 15:02	20	
<b>Client Sample ID: N-DP-3A(5-6)</b>							<b>Lab Sample ID: 250-14195-77</b>			
<b>Date Collected: 09/14/13 11:00</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/17/13 10:30</b>							<b>Percent Solids: 83.5</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	48		15		mg/Kg	☼	09/24/13 13:12	09/25/13 11:37	1	
RRO (nC25-nC36)	34		30		mg/Kg	☼	09/24/13 13:12	09/25/13 11:37	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	90		50 - 150				09/24/13 13:12	09/25/13 11:37	1	
<b>Client Sample ID: N-DP-3B(10-11)</b>							<b>Lab Sample ID: 250-14195-78</b>			
<b>Date Collected: 09/14/13 11:44</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/17/13 10:30</b>							<b>Percent Solids: 52.4</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	420		24		mg/Kg	☼	09/24/13 13:12	09/25/13 11:56	1	
RRO (nC25-nC36)	1200		48		mg/Kg	☼	09/24/13 13:12	09/25/13 11:56	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	215	X	50 - 150				09/24/13 13:12	09/25/13 11:56	1	
<b>Client Sample ID: N-DP-11(5-6)</b>							<b>Lab Sample ID: 250-14195-79</b>			
<b>Date Collected: 09/14/13 13:00</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/17/13 10:30</b>							<b>Percent Solids: 91.2</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		14		mg/Kg	☼	09/24/13 13:12	09/25/13 12:15	1	
RRO (nC25-nC36)	ND		27		mg/Kg	☼	09/24/13 13:12	09/25/13 12:15	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	109		50 - 150				09/24/13 13:12	09/25/13 12:15	1	
<b>Client Sample ID: N-DP-13(6-7)</b>							<b>Lab Sample ID: 250-14195-80</b>			
<b>Date Collected: 09/14/13 13:15</b>							<b>Matrix: Solid</b>			
<b>Date Received: 09/17/13 10:30</b>							<b>Percent Solids: 86.3</b>			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
DRO (C10-C25)	ND		14		mg/Kg	☼	09/24/13 13:12	09/25/13 12:34	1	
RRO (nC25-nC36)	ND		29		mg/Kg	☼	09/24/13 13:12	09/25/13 12:34	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctadecane	101		50 - 150				09/24/13 13:12	09/25/13 12:34	1	

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: N-DP-24(7-8)**

**Date Collected: 09/14/13 12:30**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-81**

**Matrix: Solid**

**Percent Solids: 90.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/24/13 13:12	09/25/13 12:54	1
RRO (nC25-nC36)	ND		27		mg/Kg	☼	09/24/13 13:12	09/25/13 12:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	106		50 - 150				09/24/13 13:12	09/25/13 12:54	1

**Client Sample ID: S-DP-101(7-7.5)**

**Date Collected: 09/14/13 09:08**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-88**

**Matrix: Solid**

**Percent Solids: 72.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND	H	17		mg/Kg	☼	10/03/13 12:49	10/04/13 14:28	1
RRO (nC25-nC36)	ND	H	34		mg/Kg	☼	10/03/13 12:49	10/04/13 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	99		50 - 150				10/03/13 12:49	10/04/13 14:28	1

**Client Sample ID: N-DP-38(6.5-7)**

**Date Collected: 09/14/13 12:24**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-92**

**Matrix: Solid**

**Percent Solids: 91.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/24/13 13:12	09/25/13 13:10	1
RRO (nC25-nC36)	ND		27		mg/Kg	☼	09/24/13 13:12	09/25/13 13:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	108		50 - 150				09/24/13 13:12	09/25/13 13:10	1

**Client Sample ID: N-DP-51(2-3)**

**Date Collected: 09/14/13 10:56**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-93**

**Matrix: Solid**

**Percent Solids: 87.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/24/13 13:12	09/25/13 14:05	1
RRO (nC25-nC36)	ND		29		mg/Kg	☼	09/24/13 13:12	09/25/13 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	93		50 - 150				09/24/13 13:12	09/25/13 14:05	1

**Client Sample ID: S-DP-84(10-11)**

**Date Collected: 09/14/13 15:48**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-94**

**Matrix: Solid**

**Percent Solids: 83.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		15		mg/Kg	☼	09/24/13 13:12	09/25/13 14:24	1
RRO (nC25-nC36)	ND		30		mg/Kg	☼	09/24/13 13:12	09/25/13 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	111		50 - 150				09/24/13 13:12	09/25/13 14:24	1

**Client Sample ID: S-DP-97(8-9)**

**Date Collected: 09/13/13 16:40**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-95**

**Matrix: Solid**

**Percent Solids: 87.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/24/13 09:47	09/24/13 21:38	1
RRO (nC25-nC36)	ND		28		mg/Kg	☼	09/24/13 09:47	09/24/13 21:38	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
 SDG: 18593-001-02

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	84		50 - 150	09/24/13 09:47	09/24/13 21:38	1

**Client Sample ID: N-DP-39(2-3)**  
**Date Collected: 09/14/13 11:25**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-96**  
**Matrix: Solid**  
**Percent Solids: 89.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	09/24/13 13:12	09/25/13 14:43	1
RRO (nC25-nC36)	ND		28		mg/Kg	☼	09/24/13 13:12	09/25/13 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	116		50 - 150	09/24/13 13:12	09/25/13 14:43	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Client Sample ID: S-DP-81(2-2.5)**

**Date Collected: 09/14/13 13:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-50**

**Matrix: Solid**

**Percent Solids: 87.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.9		0.57		mg/Kg	☼	09/19/13 08:27	09/19/13 14:32	10
Barium	61		0.57		mg/Kg	☼	09/19/13 08:27	09/19/13 14:32	10
Cadmium	ND		0.57		mg/Kg	☼	09/19/13 08:27	09/19/13 14:32	10
Chromium	110		1.1		mg/Kg	☼	09/19/13 08:27	09/19/13 14:32	10
Lead	8.2		0.57		mg/Kg	☼	09/19/13 08:27	09/19/13 14:32	10
Selenium	ND		0.57		mg/Kg	☼	09/19/13 08:27	09/19/13 14:32	10
Silver	ND		0.57		mg/Kg	☼	09/19/13 08:27	09/19/13 14:32	10

**Client Sample ID: S-DP-88(4-5)**

**Date Collected: 09/13/13 17:23**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-56**

**Matrix: Solid**

**Percent Solids: 78.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		0.61		mg/Kg	☼	09/19/13 08:27	09/19/13 14:53	10
Barium	220		0.61		mg/Kg	☼	09/19/13 08:27	09/19/13 14:53	10
Cadmium	ND		0.61		mg/Kg	☼	09/19/13 08:27	09/19/13 14:53	10
Chromium	40		1.2		mg/Kg	☼	09/19/13 08:27	09/19/13 14:53	10
Lead	54		0.61		mg/Kg	☼	09/19/13 08:27	09/19/13 14:53	10
Selenium	ND		0.61		mg/Kg	☼	09/19/13 08:27	09/19/13 14:53	10
Silver	ND		0.61		mg/Kg	☼	09/19/13 08:27	09/19/13 14:53	10

**Client Sample ID: S-DP-88(7-8)**

**Date Collected: 09/13/13 17:25**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-68**

**Matrix: Solid**

**Percent Solids: 61.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.1		0.80		mg/Kg	☼	09/30/13 12:32	09/30/13 17:24	10
Barium	120		0.80		mg/Kg	☼	09/30/13 12:32	09/30/13 17:24	10
Cadmium	ND		0.80		mg/Kg	☼	09/30/13 12:32	09/30/13 17:24	10
Chromium	33		1.6		mg/Kg	☼	09/30/13 12:32	09/30/13 17:24	10
Lead	21		0.80		mg/Kg	☼	09/30/13 12:32	09/30/13 17:24	10
Selenium	ND		0.80		mg/Kg	☼	09/30/13 12:32	09/30/13 17:24	10
Silver	ND		0.80		mg/Kg	☼	09/30/13 12:32	09/30/13 17:24	10

**Client Sample ID: S-DP-97(2-3)**

**Date Collected: 09/13/13 16:35**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-72**

**Matrix: Solid**

**Percent Solids: 77.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		0.61		mg/Kg	☼	09/19/13 08:27	09/19/13 14:56	10
Barium	89		0.61		mg/Kg	☼	09/19/13 08:27	09/19/13 14:56	10
Cadmium	ND		0.61		mg/Kg	☼	09/19/13 08:27	09/19/13 14:56	10
Chromium	51		1.2		mg/Kg	☼	09/19/13 08:27	09/19/13 14:56	10
Lead	130		0.61		mg/Kg	☼	09/19/13 08:27	09/19/13 14:56	10
Selenium	ND		0.61		mg/Kg	☼	09/19/13 08:27	09/19/13 14:56	10
Silver	ND		0.61		mg/Kg	☼	09/19/13 08:27	09/19/13 14:56	10

**Client Sample ID: N-DP-39(2-3)**

**Date Collected: 09/14/13 11:25**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-96**

**Matrix: Solid**

**Percent Solids: 89.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		0.55		mg/Kg	☼	09/19/13 08:27	09/19/13 15:16	10
Barium	75		0.55		mg/Kg	☼	09/19/13 08:27	09/19/13 15:16	10

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
 Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
 SDG: 18593-001-02

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

**Client Sample ID: N-DP-39(2-3)**  
**Date Collected: 09/14/13 11:25**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-96**  
**Matrix: Solid**  
**Percent Solids: 89.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.55		mg/Kg	☼	09/19/13 08:27	09/19/13 15:16	10
<b>Chromium</b>	<b>61</b>		1.1		mg/Kg	☼	09/19/13 08:27	09/19/13 15:16	10
<b>Lead</b>	<b>2.8</b>		0.55		mg/Kg	☼	09/19/13 08:27	09/19/13 15:16	10
Selenium	ND		0.55		mg/Kg	☼	09/19/13 08:27	09/19/13 15:16	10
Silver	ND		0.55		mg/Kg	☼	09/19/13 08:27	09/19/13 15:16	10



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: 7470A - Mercury (CVAA) - TCLP

Client Sample ID: S-DP-87(5-6)

Date Collected: 09/14/13 14:56

Date Received: 09/17/13 10:30

Lab Sample ID: 250-14195-55

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	H	0.00020	0.000055	mg/L		12/11/13 15:32	12/11/13 19:56	1

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

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: 7471A - Mercury (CVAA)

**Client Sample ID: S-DP-87(1.5-2.5)**

**Date Collected: 09/14/13 14:54**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-26**

**Matrix: Solid**

**Percent Solids: 79.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	H	0.12	0.0060	mg/Kg	☒	12/09/13 19:36	12/10/13 22:29	1

**Client Sample ID: S-DP-78(0-1)**

**Date Collected: 09/13/13 16:51**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-48**

**Matrix: Solid**

**Percent Solids: 79.2**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11	H	0.097	0.0049	mg/Kg	☒	12/09/13 19:36	12/10/13 22:31	1

**Client Sample ID: S-DP-81(2-2.5)**

**Date Collected: 09/14/13 13:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-50**

**Matrix: Solid**

**Percent Solids: 87.4**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.11		mg/Kg	☒	09/18/13 18:08	09/18/13 22:46	1

**Client Sample ID: S-DP-87(5-6)**

**Date Collected: 09/14/13 14:56**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-55**

**Matrix: Solid**

**Percent Solids: 89.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	13		1.8		mg/Kg	☒	10/09/13 16:10	10/10/13 15:03	20

**Client Sample ID: S-DP-88(4-5)**

**Date Collected: 09/13/13 17:23**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-56**

**Matrix: Solid**

**Percent Solids: 78.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	7.2		1.9		mg/Kg	☒	09/18/13 18:08	09/18/13 22:58	20

**Client Sample ID: S-DP-93(5-6)**

**Date Collected: 09/14/13 08:52**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-58**

**Matrix: Solid**

**Percent Solids: 72.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.11		mg/Kg	☒	10/09/13 16:10	10/10/13 15:11	1

**Client Sample ID: S-DP-94(2-2.5)**

**Date Collected: 09/14/13 15:33**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-64**

**Matrix: Solid**

**Percent Solids: 84.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029	J H	0.11	0.0055	mg/Kg	☒	12/09/13 19:36	12/10/13 22:39	1

**Client Sample ID: S-DP-86(5-5.5)**

**Date Collected: 09/13/13 16:17**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-65**

**Matrix: Solid**

**Percent Solids: 68.7**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	J H	0.13	0.0066	mg/Kg	☒	12/09/13 19:36	12/10/13 22:41	1

**Client Sample ID: S-DP-88(7-8)**

**Date Collected: 09/13/13 17:25**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-68**

**Matrix: Solid**

**Percent Solids: 61.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.64		0.16		mg/Kg	☒	10/02/13 14:45	10/02/13 21:23	1

TestAmerica Portland



# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: 7471A - Mercury (CVAA)

**Client Sample ID: S-DP-97(2-3)**

**Date Collected: 09/13/13 16:35**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-72**

**Matrix: Solid**

**Percent Solids: 77.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.12		mg/Kg	☼	09/18/13 18:08	09/18/13 23:01	1

**Client Sample ID: S-DP-101(3-3.5)**

**Date Collected: 09/14/13 08:57**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-76**

**Matrix: Solid**

**Percent Solids: 70.3**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.8	H	0.50	0.16	mg/Kg	☼	12/10/13 11:46	12/10/13 16:34	10

**Client Sample ID: S-DP-93(1-2)**

**Date Collected: 09/14/13 08:49**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-90**

**Matrix: Solid**

**Percent Solids: 73.5**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.074	J H	0.094	0.0048	mg/Kg	☼	12/09/13 19:36	12/10/13 22:44	1

**Client Sample ID: N-DP-39(2-3)**

**Date Collected: 09/14/13 11:25**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-96**

**Matrix: Solid**

**Percent Solids: 89.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.080		mg/Kg	☼	09/18/13 18:08	09/18/13 23:04	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## General Chemistry

**Client Sample ID: S-DP-75A(5-6)**

**Date Collected: 09/14/13 10:37**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-20**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.7	H	0.010		%			10/01/13 21:27	1
Percent Solids	93	H	0.010		%			10/01/13 21:27	1

**Client Sample ID: S-DP-81(6-7)**

**Date Collected: 09/14/13 14:11**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-22**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17	H	0.010		%			10/02/13 16:07	1
Percent Solids	83	H	0.010		%			10/02/13 16:07	1

**Client Sample ID: S-DP-87(1.5-2.5)**

**Date Collected: 09/14/13 14:54**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-26**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21	H	0.010	0.010	%			12/10/13 22:55	1
Percent Solids	79	H	0.010	0.010	%			12/10/13 22:55	1

**Client Sample ID: S-DP-52(6.5-7.5)**

**Date Collected: 09/14/13 09:47**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-41**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		0.010		%			09/19/13 22:39	1
Percent Solids	79		0.010		%			09/19/13 22:39	1

**Client Sample ID: S-DP-55(0.5-1.5)**

**Date Collected: 09/13/13 13:35**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-42**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.010		%			09/19/13 22:39	1
Percent Solids	86		0.010		%			09/19/13 22:39	1

**Client Sample ID: S-DP-55A(10-11)**

**Date Collected: 09/14/13 10:03**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-43**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	45		0.010		%			09/19/13 22:39	1
Percent Solids	55		0.010		%			09/19/13 22:39	1

**Client Sample ID: S-DP-1B(6-6.5)**

**Date Collected: 09/14/13 10:15**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-44**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		0.010		%			09/19/13 22:52	1
Percent Solids	83		0.010		%			09/19/13 22:52	1

**Client Sample ID: S-DP-65(4-5)**

**Date Collected: 09/13/13 16:42**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-45**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.8		0.010		%			09/19/13 22:39	1
Percent Solids	92		0.010		%			09/19/13 22:39	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## General Chemistry

**Client Sample ID: S-DP-75A(2-3)**

**Date Collected: 09/14/13 10:28**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-46**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		0.010		%			09/19/13 22:52	1
Percent Solids	83		0.010		%			09/19/13 22:52	1

**Client Sample ID: S-DP-76(5-6)**

**Date Collected: 09/14/13 14:38**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-47**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31		0.010		%			09/19/13 22:52	1
Percent Solids	69		0.010		%			09/19/13 22:52	1

**Client Sample ID: S-DP-78(0-1)**

**Date Collected: 09/13/13 16:51**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-48**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		0.010		%			09/19/13 22:39	1
Percent Solids	79		0.010		%			09/19/13 22:39	1

**Client Sample ID: S-DP-80(2-3)**

**Date Collected: 09/13/13 15:57**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-49**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.0		0.010		%			09/19/13 22:39	1
Percent Solids	94		0.010		%			09/19/13 22:39	1

**Client Sample ID: S-DP-81(2-2.5)**

**Date Collected: 09/14/13 13:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-50**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.010		%			09/19/13 16:22	1
Percent Solids	87		0.010		%			09/19/13 16:22	1

**Client Sample ID: S-DP-82(7.5-8.5)**

**Date Collected: 09/13/13 12:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-51**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	37		0.010		%			09/19/13 22:39	1
Percent Moisture	35	H	0.010		%			10/01/13 21:27	1
Percent Solids	63		0.010		%			09/19/13 22:39	1
Percent Solids	65	H	0.010		%			10/01/13 21:27	1

**Client Sample ID: S-DP-83(9-10)**

**Date Collected: 09/13/13 15:30**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-52**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	19		0.010		%			09/19/13 22:39	1
Percent Solids	81		0.010		%			09/19/13 22:39	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## General Chemistry

**Client Sample ID: S-DP-84(6.5-7.5)**

**Date Collected: 09/14/13 15:40**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-53**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		0.010		%			09/19/13 22:52	1
Percent Solids	85		0.010		%			09/19/13 22:52	1

**Client Sample ID: S-DP-85(7.5-8.5)**

**Date Collected: 09/13/13 14:55**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-54**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.010		%			09/19/13 22:39	1
Percent Solids	84		0.010		%			09/19/13 22:39	1

**Client Sample ID: S-DP-87(5-6)**

**Date Collected: 09/14/13 14:56**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-55**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10		0.010		%			09/19/13 22:52	1
Percent Solids	90		0.010		%			09/19/13 22:52	1

**Client Sample ID: S-DP-88(4-5)**

**Date Collected: 09/13/13 17:23**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-56**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21		0.010		%			09/19/13 22:39	1
Percent Solids	79		0.010		%			09/19/13 22:39	1

**Client Sample ID: S-DP-86(3.5-4.5)**

**Date Collected: 09/13/13 16:12**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-57**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.010		%			09/19/13 22:39	1
Percent Solids	86		0.010		%			09/19/13 22:39	1

**Client Sample ID: S-DP-93(5-6)**

**Date Collected: 09/14/13 08:52**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-58**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27		0.010		%			09/19/13 22:52	1
Percent Solids	73		0.010		%			09/19/13 22:52	1

**Client Sample ID: S-DP-94(5-6)**

**Date Collected: 09/14/13 15:35**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-59**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15		0.010		%			09/19/13 22:52	1
Percent Solids	85		0.010		%			09/19/13 22:52	1

**Client Sample ID: S-DP-95(3-4)**

**Date Collected: 09/13/13 16:54**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-60**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		0.010		%			09/19/13 22:39	1
Percent Moisture	26	H	0.010		%			10/01/13 21:27	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## General Chemistry (Continued)

**Client Sample ID: S-DP-95(3-4)**  
**Date Collected: 09/13/13 16:54**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-60**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82		0.010		%			09/19/13 22:39	1
Percent Solids	74	H	0.010		%			10/01/13 21:27	1

**Client Sample ID: S-DP-96(7-8)**  
**Date Collected: 09/13/13 16:35**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-61**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	20		0.010		%			09/19/13 22:39	1
Percent Solids	80		0.010		%			09/19/13 22:39	1

**Client Sample ID: S-DP-94(2-2.5)**  
**Date Collected: 09/14/13 15:33**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-64**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16	H	0.010	0.010	%			12/10/13 22:55	1
Percent Solids	84	H	0.010	0.010	%			12/10/13 22:55	1

**Client Sample ID: S-DP-86(5-5.5)**  
**Date Collected: 09/13/13 16:17**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-65**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31	H	0.010	0.010	%			12/10/13 22:55	1
Percent Solids	69	H	0.010	0.010	%			12/10/13 22:55	1

**Client Sample ID: S-DP-88(7-8)**  
**Date Collected: 09/13/13 17:25**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-68**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	39	H	0.010		%			10/01/13 21:27	1
Percent Moisture	39	H	0.010		%			10/01/13 21:27	1
Percent Solids	61	H	0.010		%			10/01/13 21:27	1
Percent Solids	61	H	0.010		%			10/01/13 21:27	1

**Client Sample ID: S-DP-97(2-3)**  
**Date Collected: 09/13/13 16:35**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-72**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22		0.010		%			09/19/13 22:39	1
Percent Solids	78		0.010		%			09/19/13 22:39	1

**Client Sample ID: S-DP-98(1-1.5)**  
**Date Collected: 09/13/13 17:13**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-73**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.8		0.010		%			09/19/13 22:39	1
Percent Solids	94		0.010		%			09/19/13 22:39	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## General Chemistry

**Client Sample ID: S-DP-99(3-4)**  
**Date Collected: 09/14/13 14:26**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-74**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		0.010		%			09/19/13 22:52	1
Percent Solids	92		0.010		%			09/19/13 22:52	1

**Client Sample ID: S-DP-100(5-6)**  
**Date Collected: 09/13/13 08:34**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-75**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	37		0.010		%			09/19/13 22:39	1
Percent Solids	63		0.010		%			09/19/13 22:39	1

**Client Sample ID: S-DP-101(3-3.5)**  
**Date Collected: 09/14/13 08:57**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-76**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30		0.010		%			09/19/13 22:52	1
Percent Solids	70		0.010		%			09/19/13 22:52	1

**Client Sample ID: N-DP-3A(5-6)**  
**Date Collected: 09/14/13 11:00**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-77**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.010		%			09/19/13 22:52	1
Percent Solids	84		0.010		%			09/19/13 22:52	1

**Client Sample ID: N-DP-3B(10-11)**  
**Date Collected: 09/14/13 11:44**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-78**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	48		0.010		%			09/19/13 22:52	1
Percent Solids	52		0.010		%			09/19/13 22:52	1

**Client Sample ID: N-DP-11(5-6)**  
**Date Collected: 09/14/13 13:00**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-79**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.8		0.010		%			09/19/13 22:52	1
Percent Solids	91		0.010		%			09/19/13 22:52	1

**Client Sample ID: N-DP-13(6-7)**  
**Date Collected: 09/14/13 13:15**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-80**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.010		%			09/19/13 22:52	1
Percent Solids	86		0.010		%			09/19/13 22:52	1

**Client Sample ID: N-DP-24(7-8)**  
**Date Collected: 09/14/13 12:30**  
**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-81**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		0.010		%			09/19/13 22:52	1
Percent Solids	91		0.010		%			09/19/13 22:52	1

TestAmerica Portland

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## General Chemistry

**Client Sample ID: S-DP-101(7-7.5)**

**Date Collected: 09/14/13 09:08**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-88**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27	H	0.010		%			10/01/13 21:27	1
Percent Solids	73	H	0.010		%			10/01/13 21:27	1

**Client Sample ID: S-DP-93(1-2)**

**Date Collected: 09/14/13 08:49**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-90**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27	H	0.010	0.010	%			12/10/13 22:56	1
Percent Solids	73	H	0.010	0.010	%			12/10/13 22:56	1

**Client Sample ID: N-DP-38(6.5-7)**

**Date Collected: 09/14/13 12:24**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-92**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.010		%			09/19/13 22:52	1
Percent Solids	91		0.010		%			09/19/13 22:52	1

**Client Sample ID: N-DP-51(2-3)**

**Date Collected: 09/14/13 10:56**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-93**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.010		%			09/19/13 22:52	1
Percent Solids	87		0.010		%			09/19/13 22:52	1

**Client Sample ID: S-DP-84(10-11)**

**Date Collected: 09/14/13 15:48**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-94**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16		0.010		%			09/19/13 22:52	1
Percent Solids	84		0.010		%			09/19/13 22:52	1

**Client Sample ID: S-DP-97(8-9)**

**Date Collected: 09/13/13 16:40**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-95**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.010		%			09/19/13 22:39	1
Percent Solids	87		0.010		%			09/19/13 22:39	1

**Client Sample ID: N-DP-39(2-3)**

**Date Collected: 09/14/13 11:25**

**Date Received: 09/17/13 10:30**

**Lab Sample ID: 250-14195-96**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11		0.010		%			09/19/13 22:52	1
Percent Solids	89		0.010		%			09/19/13 22:52	1

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: MB 250-20498/1-A**

**Matrix: Solid**

**Analysis Batch: 20532**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20498**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2500	500	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Benzene	ND		100	20	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Bromobenzene	ND		100	20	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Bromochloromethane	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Bromodichloromethane	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Bromoform	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Bromomethane	ND		500	28	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
2-Butanone (MEK)	ND		1000	300	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
n-Butylbenzene	ND		500	52	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
sec-Butylbenzene	27.8	J	100	20	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
tert-Butylbenzene	16.0	J	100	13	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Carbon disulfide	ND		1000	39	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Carbon tetrachloride	ND		100	19	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Chlorobenzene	ND		100	19	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Chloroethane	ND		100	22	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Chloroform	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Chloromethane	ND		500	15	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
2-Chlorotoluene	14.2	J	100	13	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
4-Chlorotoluene	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2-Dibromo-3-Chloropropane	102	J	500	100	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Dibromochloromethane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2-Dibromoethane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Dibromomethane	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2-Dichloroethane	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,3-Dichlorobenzene	22.5	J	100	17	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,4-Dichlorobenzene	ND		100	29	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Dichlorodifluoromethane	ND		500	25	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,1-Dichloroethane	ND		100	19	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,1-Dichloroethene	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
trans-1,2-Dichloroethene	ND		100	20	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2-Dichloropropane	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,3-Dichloropropane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
2,2-Dichloropropane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,1-Dichloropropene	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
cis-1,3-Dichloropropene	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
trans-1,3-Dichloropropene	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Ethylbenzene	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Hexachlorobutadiene	353	J	400	18	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
2-Hexanone	ND		1000	220	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Isopropylbenzene	ND		200	36	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
p-Isopropyltoluene	30.4	J	200	11	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
4-Methyl-2-pentanone (MIBK)	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Methyl tert-butyl ether	ND		100	13	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Methylene Chloride	14.9	J	500	14	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Naphthalene	224		200	24	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
N-Propylbenzene	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Styrene	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:23	1

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: MB 250-20498/1-A**

**Matrix: Solid**

**Analysis Batch: 20532**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20498**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,1,2,2-Tetrachloroethane	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Tetrachloroethene	ND		100	27	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Toluene	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2,3-Trichlorobenzene	286	J	500	100	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2,4-Trichlorobenzene	164		100	25	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,1,1-Trichloroethane	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,1,2-Trichloroethane	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Trichloroethene	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Trichlorofluoromethane	ND		100	22	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2,3-Trichloropropane	22.0	J	100	21	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2,4-Trimethylbenzene	ND		100	46	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,3,5-Trimethylbenzene	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
Vinyl chloride	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
m,p-Xylene	ND		200	36	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
o-Xylene	ND		100	23	ug/Kg		09/25/13 16:06	09/26/13 11:23	1
1,2-Dichlorobenzene	31.8	J	100	14	ug/Kg		09/25/13 16:06	09/26/13 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125	09/25/13 16:06	09/26/13 11:23	1
4-Bromofluorobenzene (Surr)	96		75 - 125	09/25/13 16:06	09/26/13 11:23	1
Dibromofluoromethane (Surr)	94		75 - 125	09/25/13 16:06	09/26/13 11:23	1
Toluene-d8 (Surr)	97		75 - 125	09/25/13 16:06	09/26/13 11:23	1

**Lab Sample ID: MB 250-20498/1-A**

**Matrix: Solid**

**Analysis Batch: 20532**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20498**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2500	500	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Benzene	ND		100	20	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Bromobenzene	ND		100	20	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Bromochloromethane	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Bromodichloromethane	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Bromoform	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Bromomethane	ND		500	28	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
2-Butanone (MEK)	ND		1000	300	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
n-Butylbenzene	ND		500	52	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
sec-Butylbenzene	ND		100	20	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
tert-Butylbenzene	ND		100	13	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Carbon disulfide	ND		1000	39	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Carbon tetrachloride	ND		100	19	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Chlorobenzene	ND		100	19	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Chloroethane	ND		100	22	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Chloroform	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Chloromethane	ND		500	15	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
2-Chlorotoluene	ND		100	13	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
4-Chlorotoluene	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:47	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: MB 250-20498/1-A**

**Matrix: Solid**

**Analysis Batch: 20532**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20498**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dibromo-3-Chloropropane	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Dibromochloromethane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2-Dibromoethane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Dibromomethane	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2-Dichloroethane	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,3-Dichlorobenzene	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,4-Dichlorobenzene	ND		100	29	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Dichlorodifluoromethane	ND		500	25	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,1-Dichloroethane	ND		100	19	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,1-Dichloroethene	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
trans-1,2-Dichloroethene	ND		100	20	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2-Dichloropropane	ND		100	16	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,3-Dichloropropane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
2,2-Dichloropropane	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,1-Dichloropropene	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
cis-1,3-Dichloropropene	ND		100	17	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
trans-1,3-Dichloropropene	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Ethylbenzene	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Hexachlorobutadiene	109	J	400	18	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
2-Hexanone	ND		1000	220	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Isopropylbenzene	ND		200	36	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
p-Isopropyltoluene	ND		200	11	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
4-Methyl-2-pentanone (MIBK)	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Methyl tert-butyl ether	ND		100	13	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Methylene Chloride	ND		500	14	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Naphthalene	27.7	J	200	24	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
N-Propylbenzene	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Styrene	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,1,1,2-Tetrachloroethane	ND		100	18	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,1,1,2,2-Tetrachloroethane	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Tetrachloroethene	ND		100	27	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Toluene	ND		100	15	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2,3-Trichlorobenzene	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2,4-Trichlorobenzene	26.7	J	100	25	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,1,1-Trichloroethane	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,1,2-Trichloroethane	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Trichloroethene	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Trichlorofluoromethane	ND		100	22	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2,3-Trichloropropane	ND		100	21	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2,4-Trimethylbenzene	ND		100	46	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,3,5-Trimethylbenzene	ND		100	24	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
Vinyl chloride	ND		500	100	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
m,p-Xylene	ND		200	36	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
o-Xylene	ND		100	23	ug/Kg		09/25/13 16:06	09/26/13 11:47	1
1,2-Dichlorobenzene	ND		100	14	ug/Kg		09/25/13 16:06	09/26/13 11:47	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: MB 250-20498/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20532**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20498**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	95		75 - 125	09/25/13 16:06	09/26/13 11:47	1
4-Bromofluorobenzene (Surr)	93		75 - 125	09/25/13 16:06	09/26/13 11:47	1
Dibromofluoromethane (Surr)	92		75 - 125	09/25/13 16:06	09/26/13 11:47	1
Toluene-d8 (Surr)	93		75 - 125	09/25/13 16:06	09/26/13 11:47	1

**Lab Sample ID: LCS 250-20498/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20532**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20498**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Acetone	9930	12500		ug/Kg		126	65 - 150
Benzene	1990	1830		ug/Kg		92	80 - 120
Bromobenzene	1990	1860		ug/Kg		93	80 - 120
Bromochloromethane	1990	1840		ug/Kg		93	80 - 120
Bromodichloromethane	1990	1890		ug/Kg		95	80 - 140
Bromoform	1990	1860		ug/Kg		93	75 - 150
Bromomethane	1990	2060		ug/Kg		104	65 - 130
2-Butanone (MEK)	9930	10800		ug/Kg		109	70 - 125
n-Butylbenzene	1990	2080		ug/Kg		105	80 - 150
sec-Butylbenzene	1990	2120		ug/Kg		107	80 - 135
tert-Butylbenzene	1990	2050		ug/Kg		103	80 - 130
Carbon disulfide	3970	4040		ug/Kg		102	65 - 140
Carbon tetrachloride	1990	1950		ug/Kg		98	70 - 130
Chlorobenzene	1990	1880		ug/Kg		94	80 - 125
Chloroethane	1990	1840		ug/Kg		93	75 - 125
Chloroform	1990	1860		ug/Kg		94	80 - 120
Chloromethane	1990	1910		ug/Kg		96	40 - 150
2-Chlorotoluene	1990	1930		ug/Kg		97	80 - 120
4-Chlorotoluene	1990	1960		ug/Kg		99	80 - 125
1,2-Dibromo-3-Chloropropane	1990	1990		ug/Kg		100	60 - 130
Dibromochloromethane	1990	1960		ug/Kg		99	75 - 125
1,2-Dibromoethane	1990	1880		ug/Kg		95	80 - 125
Dibromomethane	1990	1870		ug/Kg		94	80 - 120
1,2-Dichloroethane	1990	1880		ug/Kg		95	80 - 120
1,3-Dichlorobenzene	1990	1900		ug/Kg		96	80 - 125
1,4-Dichlorobenzene	1990	1850		ug/Kg		93	75 - 120
Dichlorodifluoromethane	1990	2010		ug/Kg		101	75 - 120
1,1-Dichloroethane	1990	1860		ug/Kg		94	80 - 120
1,1-Dichloroethene	1990	1870		ug/Kg		94	75 - 125
cis-1,2-Dichloroethene	1990	1860		ug/Kg		94	75 - 125
trans-1,2-Dichloroethene	1990	1850		ug/Kg		93	75 - 125
1,2-Dichloropropane	1990	1870		ug/Kg		94	80 - 125
1,3-Dichloropropane	1990	1840		ug/Kg		93	75 - 130
2,2-Dichloropropane	1990	2040		ug/Kg		103	70 - 130
1,1-Dichloropropene	1990	1910		ug/Kg		96	80 - 125
cis-1,3-Dichloropropene	1990	1900		ug/Kg		96	80 - 125
trans-1,3-Dichloropropene	1990	2030		ug/Kg		102	65 - 145
Ethylbenzene	1990	1970		ug/Kg		99	80 - 125

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: LCS 250-20498/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20532**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20498**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	1990	2230		ug/Kg		112	80 - 150
2-Hexanone	9930	10600		ug/Kg		106	55 - 120
Isopropylbenzene	1990	1950		ug/Kg		98	80 - 130
p-Isopropyltoluene	1990	2070		ug/Kg		104	80 - 120
4-Methyl-2-pentanone (MIBK)	9930	10900		ug/Kg		110	50 - 120
Methyl tert-butyl ether	1990	2000		ug/Kg		101	75 - 125
Methylene Chloride	1990	1930		ug/Kg		97	75 - 125
Naphthalene	1990	2140		ug/Kg		108	80 - 130
N-Propylbenzene	1990	2040		ug/Kg		103	80 - 120
Styrene	1990	2060		ug/Kg		104	80 - 125
1,1,1,2-Tetrachloroethane	1990	1930		ug/Kg		97	80 - 130
1,1,2,2-Tetrachloroethane	1990	1940		ug/Kg		98	70 - 135
Tetrachloroethene	1990	1890		ug/Kg		95	80 - 125
Toluene	1990	1790		ug/Kg		90	80 - 120
1,2,3-Trichlorobenzene	1990	2050		ug/Kg		103	80 - 145
1,2,4-Trichlorobenzene	1990	2060		ug/Kg		104	85 - 150
1,1,1-Trichloroethane	1990	1910		ug/Kg		96	80 - 125
1,1,2-Trichloroethane	1990	1840		ug/Kg		93	80 - 125
Trichloroethene	1990	1820		ug/Kg		92	80 - 125
Trichlorofluoromethane	1990	1980		ug/Kg		100	55 - 150
1,2,3-Trichloropropane	1990	1890		ug/Kg		95	65 - 125
1,2,4-Trimethylbenzene	1990	2080		ug/Kg		105	80 - 135
1,3,5-Trimethylbenzene	1990	2100		ug/Kg		106	80 - 135
Vinyl chloride	1990	1470		ug/Kg		74	10 - 140
m,p-Xylene	3970	3990		ug/Kg		101	80 - 120
o-Xylene	1990	1990		ug/Kg		100	80 - 125
1,2-Dichlorobenzene	1990	1870		ug/Kg		94	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		75 - 125
4-Bromofluorobenzene (Surr)	97		75 - 125
Dibromofluoromethane (Surr)	96		75 - 125
Toluene-d8 (Surr)	95		75 - 125

**Lab Sample ID: MB 250-20670/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20722**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20670**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2400	480	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Benzene	ND		97	19	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Bromobenzene	ND		97	19	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Bromochloromethane	ND		97	23	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Bromodichloromethane	ND		97	14	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Bromoform	ND		480	97	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Bromomethane	ND		480	27	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
2-Butanone (MEK)	ND		970	290	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
n-Butylbenzene	58.8	J	480	50	ug/Kg		10/01/13 10:46	10/01/13 17:32	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: MB 250-20670/1-A**

**Matrix: Solid**

**Analysis Batch: 20722**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20670**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
sec-Butylbenzene	31.2	J	97	19	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
tert-Butylbenzene	16.7	J	97	13	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Carbon disulfide	ND		970	38	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Carbon tetrachloride	ND		97	18	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Chlorobenzene	ND		97	18	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Chloroethane	ND		97	21	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Chloroform	ND		97	15	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Chloromethane	ND		480	14	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
2-Chlorotoluene	ND		97	13	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
4-Chlorotoluene	ND		97	17	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,2-Dibromo-3-Chloropropane	ND		480	97	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Dibromochloromethane	ND		97	16	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,2-Dibromoethane	ND		97	16	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Dibromomethane	ND		97	20	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,2-Dichloroethane	ND		97	15	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,3-Dichlorobenzene	25.5	J	97	16	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,4-Dichlorobenzene	28.5	J	97	28	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Dichlorodifluoromethane	ND		480	24	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,1-Dichloroethane	ND		97	18	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,1-Dichloroethene	ND		97	15	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
cis-1,2-Dichloroethene	ND		97	27	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
trans-1,2-Dichloroethene	ND		97	19	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,2-Dichloropropane	ND		97	15	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,3-Dichloropropane	ND		97	16	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
2,2-Dichloropropane	ND		97	16	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,1-Dichloropropene	ND		97	14	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
cis-1,3-Dichloropropene	ND		97	16	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
trans-1,3-Dichloropropene	ND		97	14	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Ethylbenzene	ND		97	17	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Hexachlorobutadiene	340	J	390	17	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
2-Hexanone	ND		970	210	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Isopropylbenzene	ND		190	35	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
p-Isopropyltoluene	33.5	J	190	11	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
4-Methyl-2-pentanone (MIBK)	ND		480	97	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Methyl tert-butyl ether	ND		97	13	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Methylene Chloride	ND		480	14	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Naphthalene	218		190	23	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
N-Propylbenzene	ND		97	20	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Styrene	ND		97	17	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,1,1,2-Tetrachloroethane	ND		97	17	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,1,2,2-Tetrachloroethane	ND		97	23	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Tetrachloroethene	ND		97	26	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Toluene	ND		97	14	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,2,3-Trichlorobenzene	304	J	480	97	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,2,4-Trichlorobenzene	176		97	24	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,1,1-Trichloroethane	ND		97	20	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,1,2-Trichloroethane	ND		97	23	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Trichloroethene	ND		97	20	ug/Kg		10/01/13 10:46	10/01/13 17:32	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: MB 250-20670/1-A**

**Matrix: Solid**

**Analysis Batch: 20722**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20670**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		97	21	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,2,3-Trichloropropane	ND		97	20	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,2,4-Trimethylbenzene	ND		97	44	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,3,5-Trimethylbenzene	ND		97	23	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
Vinyl chloride	ND		480	97	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
m,p-Xylene	ND		190	35	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
o-Xylene	ND		97	22	ug/Kg		10/01/13 10:46	10/01/13 17:32	1
1,2-Dichlorobenzene	33.2	J	97	14	ug/Kg		10/01/13 10:46	10/01/13 17:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 125	10/01/13 10:46	10/01/13 17:32	1
4-Bromofluorobenzene (Surr)	101		75 - 125	10/01/13 10:46	10/01/13 17:32	1
Dibromofluoromethane (Surr)	103		75 - 125	10/01/13 10:46	10/01/13 17:32	1
Toluene-d8 (Surr)	104		75 - 125	10/01/13 10:46	10/01/13 17:32	1

**Lab Sample ID: MB 250-20670/1-A**

**Matrix: Solid**

**Analysis Batch: 20722**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20670**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		2400	480	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Benzene	ND		97	19	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Bromobenzene	ND		97	19	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Bromochloromethane	ND		97	23	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Bromodichloromethane	ND		97	14	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Bromoform	ND		480	97	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Bromomethane	ND		480	27	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
2-Butanone (MEK)	ND		970	290	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
n-Butylbenzene	ND		480	50	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
sec-Butylbenzene	ND		97	19	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
tert-Butylbenzene	ND		97	13	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Carbon disulfide	ND		970	38	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Carbon tetrachloride	ND		97	18	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Chlorobenzene	ND		97	18	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Chloroethane	ND		97	21	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Chloroform	ND		97	15	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Chloromethane	ND		480	14	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
2-Chlorotoluene	ND		97	13	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
4-Chlorotoluene	ND		97	17	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,2-Dibromo-3-Chloropropane	ND		480	97	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Dibromochloromethane	ND		97	16	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,2-Dibromoethane	ND		97	16	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Dibromomethane	ND		97	20	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,2-Dichloroethane	ND		97	15	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,3-Dichlorobenzene	ND		97	16	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,4-Dichlorobenzene	ND		97	28	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Dichlorodifluoromethane	ND		480	24	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,1-Dichloroethane	ND		97	18	ug/Kg		10/01/13 10:46	10/01/13 17:57	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: MB 250-20670/1-A**

**Matrix: Solid**

**Analysis Batch: 20722**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20670**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	ND		97	15	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
cis-1,2-Dichloroethene	ND		97	27	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
trans-1,2-Dichloroethene	ND		97	19	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,2-Dichloropropane	ND		97	15	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,3-Dichloropropane	ND		97	16	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
2,2-Dichloropropane	ND		97	16	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,1-Dichloropropene	ND		97	14	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
cis-1,3-Dichloropropene	ND		97	16	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
trans-1,3-Dichloropropene	ND		97	14	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Ethylbenzene	ND		97	17	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Hexachlorobutadiene	81.2	J	390	17	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
2-Hexanone	ND		970	210	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Isopropylbenzene	ND		190	35	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
p-Isopropyltoluene	ND		190	11	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
4-Methyl-2-pentanone (MIBK)	ND		480	97	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Methyl tert-butyl ether	ND		97	13	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Methylene Chloride	ND		480	14	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Naphthalene	23.5	J	190	23	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
N-Propylbenzene	ND		97	20	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Styrene	ND		97	17	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,1,1,2-Tetrachloroethane	ND		97	17	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,1,2,2-Tetrachloroethane	ND		97	23	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Tetrachloroethene	ND		97	26	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Toluene	ND		97	14	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,2,3-Trichlorobenzene	ND		480	97	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,2,4-Trichlorobenzene	ND		97	24	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,1,1-Trichloroethane	ND		97	20	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,1,2-Trichloroethane	ND		97	23	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Trichloroethene	ND		97	20	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Trichlorofluoromethane	ND		97	21	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,2,3-Trichloropropane	ND		97	20	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,2,4-Trimethylbenzene	ND		97	44	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,3,5-Trimethylbenzene	ND		97	23	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
Vinyl chloride	ND		480	97	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
m,p-Xylene	ND		190	35	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
o-Xylene	ND		97	22	ug/Kg		10/01/13 10:46	10/01/13 17:57	1
1,2-Dichlorobenzene	ND		97	14	ug/Kg		10/01/13 10:46	10/01/13 17:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	104		75 - 125	10/01/13 10:46	10/01/13 17:57	1
4-Bromofluorobenzene (Surr)	102		75 - 125	10/01/13 10:46	10/01/13 17:57	1
Dibromofluoromethane (Surr)	100		75 - 125	10/01/13 10:46	10/01/13 17:57	1
Toluene-d8 (Surr)	101		75 - 125	10/01/13 10:46	10/01/13 17:57	1

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: LCS 250-20670/2-A**

**Matrix: Solid**

**Analysis Batch: 20722**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20670**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	9630	12000		ug/Kg		125	65 - 150
Benzene	1930	1940		ug/Kg		101	80 - 120
Bromobenzene	1930	1870		ug/Kg		97	80 - 120
Bromochloromethane	1930	2000		ug/Kg		104	80 - 120
Bromodichloromethane	1930	1930		ug/Kg		100	80 - 140
Bromoform	1930	1740		ug/Kg		90	75 - 150
Bromomethane	1930	2150		ug/Kg		112	65 - 130
2-Butanone (MEK)	9630	10900		ug/Kg		113	70 - 125
n-Butylbenzene	1930	2200		ug/Kg		114	80 - 150
sec-Butylbenzene	1930	2100		ug/Kg		109	80 - 135
tert-Butylbenzene	1930	2070		ug/Kg		107	80 - 130
Carbon disulfide	3850	4170		ug/Kg		108	65 - 140
Carbon tetrachloride	1930	1930		ug/Kg		100	70 - 130
Chlorobenzene	1930	1970		ug/Kg		102	80 - 125
Chloroethane	1930	2010		ug/Kg		104	75 - 125
Chloroform	1930	1920		ug/Kg		100	80 - 120
Chloromethane	1930	2110		ug/Kg		110	40 - 150
2-Chlorotoluene	1930	1960		ug/Kg		102	80 - 120
4-Chlorotoluene	1930	1990		ug/Kg		103	80 - 125
1,2-Dibromo-3-Chloropropane	1930	1970		ug/Kg		102	60 - 130
Dibromochloromethane	1930	1930		ug/Kg		100	75 - 125
1,2-Dibromoethane	1930	1920		ug/Kg		99	80 - 125
Dibromomethane	1930	1940		ug/Kg		101	80 - 120
1,2-Dichloroethane	1930	1950		ug/Kg		101	80 - 120
1,3-Dichlorobenzene	1930	1890		ug/Kg		98	80 - 125
1,4-Dichlorobenzene	1930	1860		ug/Kg		97	75 - 120
Dichlorodifluoromethane	1930	2000		ug/Kg		104	75 - 120
1,1-Dichloroethane	1930	1960		ug/Kg		102	80 - 120
1,1-Dichloroethene	1930	1910		ug/Kg		99	75 - 125
cis-1,2-Dichloroethene	1930	2010		ug/Kg		104	75 - 125
trans-1,2-Dichloroethene	1930	1990		ug/Kg		103	75 - 125
1,2-Dichloropropane	1930	2010		ug/Kg		104	80 - 125
1,3-Dichloropropane	1930	1980		ug/Kg		103	75 - 130
2,2-Dichloropropane	1930	2190		ug/Kg		114	70 - 130
1,1-Dichloropropene	1930	2070		ug/Kg		107	80 - 125
cis-1,3-Dichloropropene	1930	2030		ug/Kg		105	80 - 125
trans-1,3-Dichloropropene	1930	2090		ug/Kg		108	65 - 145
Ethylbenzene	1930	2040		ug/Kg		106	80 - 125
Hexachlorobutadiene	1930	2240		ug/Kg		116	80 - 150
2-Hexanone	9630	10800		ug/Kg		113	55 - 120
Isopropylbenzene	1930	1980		ug/Kg		103	80 - 130
p-Isopropyltoluene	1930	2080		ug/Kg		108	80 - 120
4-Methyl-2-pentanone (MIBK)	9630	11100		ug/Kg		115	50 - 120
Methyl tert-butyl ether	1930	2110		ug/Kg		110	75 - 125
Methylene Chloride	1930	2040		ug/Kg		106	75 - 125
Naphthalene	1930	2240		ug/Kg		116	80 - 130
N-Propylbenzene	1930	2070		ug/Kg		108	80 - 120
Styrene	1930	2150		ug/Kg		112	80 - 125

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: LCS 250-20670/2-A**

**Matrix: Solid**

**Analysis Batch: 20722**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20670**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	1930	1930		ug/Kg		100	80 - 130
1,1,2,2-Tetrachloroethane	1930	1920		ug/Kg		99	70 - 135
Tetrachloroethene	1930	1960		ug/Kg		102	80 - 125
Toluene	1930	1930		ug/Kg		100	80 - 120
1,2,3-Trichlorobenzene	1930	2170		ug/Kg		113	80 - 145
1,2,4-Trichlorobenzene	1930	2180		ug/Kg		113	85 - 150
1,1,1-Trichloroethane	1930	1920		ug/Kg		100	80 - 125
1,1,2-Trichloroethane	1930	1950		ug/Kg		101	80 - 125
Trichloroethene	1930	1910		ug/Kg		99	80 - 125
Trichlorofluoromethane	1930	2030		ug/Kg		105	55 - 150
1,2,3-Trichloropropane	1930	1890		ug/Kg		98	65 - 125
1,2,4-Trimethylbenzene	1930	2090		ug/Kg		108	80 - 135
1,3,5-Trimethylbenzene	1930	2110		ug/Kg		109	80 - 135
Vinyl chloride	1930	1620		ug/Kg		84	10 - 140
m,p-Xylene	3850	4110		ug/Kg		107	80 - 120
o-Xylene	1930	2060		ug/Kg		107	80 - 125
1,2-Dichlorobenzene	1930	2050		ug/Kg		106	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		75 - 125
4-Bromofluorobenzene (Surr)	105		75 - 125
Dibromofluoromethane (Surr)	103		75 - 125
Toluene-d8 (Surr)	106		75 - 125

**Lab Sample ID: 250-14195-68 MS**

**Matrix: Solid**

**Analysis Batch: 20722**

**Client Sample ID: S-DP-88(7-8)**

**Prep Type: Total/NA**

**Prep Batch: 20670**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND	H	24300	20700		ug/Kg	☼	85	60 - 145
Benzene	ND	H	4860	4500		ug/Kg	☼	93	80 - 125
Bromobenzene	ND	H	4860	4320		ug/Kg	☼	89	70 - 130
Bromochloromethane	ND	H	4860	4410		ug/Kg	☼	91	80 - 130
Bromodichloromethane	ND	H	4860	4260		ug/Kg	☼	88	80 - 135
Bromoform	ND	H	4860	3640		ug/Kg	☼	75	70 - 130
Bromomethane	ND	H	4860	4010		ug/Kg	☼	83	70 - 130
2-Butanone (MEK)	ND	H	24300	23500		ug/Kg	☼	97	70 - 145
n-Butylbenzene	ND	H	4860	4730		ug/Kg	☼	97	70 - 140
sec-Butylbenzene	ND	H	4860	4760		ug/Kg	☼	98	70 - 135
tert-Butylbenzene	ND	H	4860	4640		ug/Kg	☼	96	80 - 135
Carbon disulfide	ND	H	9710	9260		ug/Kg	☼	95	70 - 130
Carbon tetrachloride	ND	H	4860	3930		ug/Kg	☼	81	70 - 125
Chlorobenzene	ND	H	4860	4420		ug/Kg	☼	91	70 - 130
Chloroethane	ND	H	4860	3900		ug/Kg	☼	80	70 - 130
Chloroform	ND	H	4860	4340		ug/Kg	☼	89	80 - 125
Chloromethane	ND	H	4860	4020		ug/Kg	☼	83	40 - 150
2-Chlorotoluene	ND	H	4860	4480		ug/Kg	☼	92	80 - 125
4-Chlorotoluene	ND	H	4860	4570		ug/Kg	☼	94	70 - 130

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: 250-14195-68 MS**

**Matrix: Solid**

**Analysis Batch: 20722**

**Client Sample ID: S-DP-88(7-8)**

**Prep Type: Total/NA**

**Prep Batch: 20670**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2-Dibromo-3-Chloropropane	ND	H	4860	3720		ug/Kg	*	77	60 - 145
Dibromochloromethane	ND	H	4860	4060		ug/Kg	*	84	80 - 130
1,2-Dibromoethane	ND	H	4860	4280		ug/Kg	*	88	80 - 130
Dibromomethane	ND	H	4860	4370		ug/Kg	*	90	75 - 125
1,2-Dichloroethane	ND	H	4860	4400		ug/Kg	*	91	75 - 120
1,3-Dichlorobenzene	ND	H	4860	4210		ug/Kg	*	87	80 - 130
1,4-Dichlorobenzene	ND	H	4860	4150		ug/Kg	*	85	80 - 120
Dichlorodifluoromethane	ND	H	4860	3630		ug/Kg	*	75	65 - 135
1,1-Dichloroethane	ND	H	4860	4550		ug/Kg	*	94	80 - 125
1,1-Dichloroethene	ND	H	4860	4370		ug/Kg	*	90	70 - 130
cis-1,2-Dichloroethene	ND	H	4860	4510		ug/Kg	*	93	75 - 120
trans-1,2-Dichloroethene	ND	H	4860	4410		ug/Kg	*	91	70 - 130
1,2-Dichloropropane	ND	H	4860	4720		ug/Kg	*	97	80 - 130
1,3-Dichloropropane	ND	H	4860	4430		ug/Kg	*	91	75 - 130
2,2-Dichloropropane	ND	H	4860	4570		ug/Kg	*	94	70 - 130
1,1-Dichloropropene	ND	H	4860	4660		ug/Kg	*	96	80 - 125
cis-1,3-Dichloropropene	ND	H	4860	4580		ug/Kg	*	94	80 - 130
trans-1,3-Dichloropropene	ND	H	4860	4630		ug/Kg	*	95	70 - 145
Ethylbenzene	ND	H	4860	4710		ug/Kg	*	97	80 - 125
Hexachlorobutadiene	ND	H	4860	4460		ug/Kg	*	92	45 - 150
2-Hexanone	ND	H	24300	22700		ug/Kg	*	94	65 - 150
Isopropylbenzene	ND	H	4860	4560		ug/Kg	*	94	80 - 130
p-Isopropyltoluene	73	J H	4860	4620		ug/Kg	*	94	70 - 140
4-Methyl-2-pentanone (MIBK)	ND	H	24300	23100		ug/Kg	*	95	60 - 150
Methyl tert-butyl ether	ND	H	4860	4930		ug/Kg	*	102	70 - 130
Methylene Chloride	ND	H	4860	4620		ug/Kg	*	95	70 - 120
Naphthalene	490	H B	4860	4450		ug/Kg	*	81	70 - 130
N-Propylbenzene	ND	H	4860	4710		ug/Kg	*	97	70 - 130
Styrene	ND	H	4860	4970		ug/Kg	*	102	85 - 120
1,1,1,2-Tetrachloroethane	ND	H	4860	4130		ug/Kg	*	85	80 - 130
1,1,2,2-Tetrachloroethane	ND	H	4860	4110		ug/Kg	*	85	70 - 130
Tetrachloroethene	ND	H	4860	4300		ug/Kg	*	88	75 - 140
Toluene	ND	H	4860	4340		ug/Kg	*	89	70 - 130
1,2,3-Trichlorobenzene	ND	H	4860	4250		ug/Kg	*	87	70 - 130
1,2,4-Trichlorobenzene	ND	H	4860	4450		ug/Kg	*	92	70 - 150
1,1,1-Trichloroethane	ND	H	4860	4230		ug/Kg	*	87	80 - 125
1,1,2-Trichloroethane	ND	H	4860	4450		ug/Kg	*	92	80 - 130
Trichloroethene	ND	H	4860	4390		ug/Kg	*	90	80 - 125
Trichlorofluoromethane	ND	H	4860	3770		ug/Kg	*	78	70 - 130
1,2,3-Trichloropropane	ND	H	4860	4170		ug/Kg	*	86	70 - 130
1,2,4-Trimethylbenzene	ND	H	4860	4770		ug/Kg	*	98	70 - 130
1,3,5-Trimethylbenzene	ND	H	4860	4830		ug/Kg	*	99	75 - 140
Vinyl chloride	ND	H	4860	2830		ug/Kg	*	58	10 - 140
m,p-Xylene	ND	H	9710	9330		ug/Kg	*	96	75 - 135
o-Xylene	ND	H	4860	4620		ug/Kg	*	95	70 - 130
1,2-Dichlorobenzene	ND	H	4860	4490		ug/Kg	*	92	80 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: 250-14195-68 MS**

**Matrix: Solid**

**Analysis Batch: 20722**

**Client Sample ID: S-DP-88(7-8)**

**Prep Type: Total/NA**

**Prep Batch: 20670**

<i>Surrogate</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	96		75 - 125
4-Bromofluorobenzene (Surr)	99		75 - 125
Dibromofluoromethane (Surr)	93		75 - 125
Toluene-d8 (Surr)	97		75 - 125

**Lab Sample ID: 250-14195-68 MSD**

**Matrix: Solid**

**Analysis Batch: 20722**

**Client Sample ID: S-DP-88(7-8)**

**Prep Type: Total/NA**

**Prep Batch: 20670**

<b>Analyte</b>	<b>Sample</b>		<b>Spike</b> <b>Added</b>	<b>MSD</b>		<b>Unit</b>	<b>D</b>	<b>%Rec.</b>		<b>RPD</b>	
	<b>Result</b>	<b>Qualifier</b>		<b>Result</b>	<b>Qualifier</b>			<b>Limits</b>	<b>RPD</b>	<b>Limit</b>	
Acetone	ND	H	24300	25200		ug/Kg	*	104	60 - 145	19	25
Benzene	ND	H	4860	4930		ug/Kg	*	102	80 - 125	9	25
Bromobenzene	ND	H	4860	4620		ug/Kg	*	95	70 - 130	7	25
Bromochloromethane	ND	H	4860	4800		ug/Kg	*	99	80 - 130	9	25
Bromodichloromethane	ND	H	4860	4690		ug/Kg	*	97	80 - 135	10	25
Bromoform	ND	H	4860	3930		ug/Kg	*	81	70 - 130	7	25
Bromomethane	ND	H	4860	5060		ug/Kg	*	104	70 - 130	23	25
2-Butanone (MEK)	ND	H	24300	26000		ug/Kg	*	107	70 - 145	10	25
n-Butylbenzene	ND	H	4860	5370		ug/Kg	*	111	70 - 140	13	25
sec-Butylbenzene	ND	H	4860	5250		ug/Kg	*	108	70 - 135	10	25
tert-Butylbenzene	ND	H	4860	5130		ug/Kg	*	106	80 - 135	10	25
Carbon disulfide	ND	H	9710	10500		ug/Kg	*	109	70 - 130	13	25
Carbon tetrachloride	ND	H	4860	4350		ug/Kg	*	90	70 - 125	10	25
Chlorobenzene	ND	H	4860	4800		ug/Kg	*	99	70 - 130	8	25
Chloroethane	ND	H	4860	4920		ug/Kg	*	101	70 - 130	23	25
Chloroform	ND	H	4860	4710		ug/Kg	*	97	80 - 125	8	25
Chloromethane	ND	H	4860	5120		ug/Kg	*	105	40 - 150	24	25
2-Chlorotoluene	ND	H	4860	4810		ug/Kg	*	99	80 - 125	7	25
4-Chlorotoluene	ND	H	4860	4920		ug/Kg	*	101	70 - 130	7	25
1,2-Dibromo-3-Chloropropane	ND	H	4860	4510		ug/Kg	*	93	60 - 145	19	25
Dibromochloromethane	ND	H	4860	4460		ug/Kg	*	92	80 - 130	9	25
1,2-Dibromoethane	ND	H	4860	4660		ug/Kg	*	96	80 - 130	9	25
Dibromomethane	ND	H	4860	4640		ug/Kg	*	96	75 - 125	6	25
1,2-Dichloroethane	ND	H	4860	4760		ug/Kg	*	98	75 - 120	8	25
1,3-Dichlorobenzene	ND	H	4860	4580		ug/Kg	*	94	80 - 130	8	25
1,4-Dichlorobenzene	ND	H	4860	4510		ug/Kg	*	93	80 - 120	8	25
Dichlorodifluoromethane	ND	H	4860	4540		ug/Kg	*	94	65 - 135	22	25
1,1-Dichloroethane	ND	H	4860	4890		ug/Kg	*	101	80 - 125	7	25
1,1-Dichloroethene	ND	H	4860	4690		ug/Kg	*	97	70 - 130	7	25
cis-1,2-Dichloroethene	ND	H	4860	4930		ug/Kg	*	101	75 - 120	9	25
trans-1,2-Dichloroethene	ND	H	4860	4890		ug/Kg	*	101	70 - 130	10	25
1,2-Dichloropropane	ND	H	4860	5120		ug/Kg	*	105	80 - 130	8	25
1,3-Dichloropropane	ND	H	4860	4820		ug/Kg	*	99	75 - 130	8	25
2,2-Dichloropropane	ND	H	4860	5000		ug/Kg	*	103	70 - 130	9	25
1,1-Dichloropropene	ND	H	4860	5100		ug/Kg	*	105	80 - 125	9	25
cis-1,3-Dichloropropene	ND	H	4860	5120		ug/Kg	*	105	80 - 130	11	25
trans-1,3-Dichloropropene	ND	H	4860	5110		ug/Kg	*	105	70 - 145	10	25
Ethylbenzene	ND	H	4860	5090		ug/Kg	*	105	80 - 125	8	25

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: 250-14195-68 MSD**

**Matrix: Solid**

**Analysis Batch: 20722**

**Client Sample ID: S-DP-88(7-8)**

**Prep Type: Total/NA**

**Prep Batch: 20670**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Hexachlorobutadiene	ND	H	4860	5630		ug/Kg	*	116	45 - 150	23	25
2-Hexanone	ND	H	24300	26400		ug/Kg	*	109	65 - 150	15	25
Isopropylbenzene	ND	H	4860	4940		ug/Kg	*	102	80 - 130	8	25
p-Isopropyltoluene	73	J H	4860	5070		ug/Kg	*	103	70 - 140	9	25
4-Methyl-2-pentanone (MIBK)	ND	H	24300	26400		ug/Kg	*	109	60 - 150	13	25
Methyl tert-butyl ether	ND	H	4860	5520		ug/Kg	*	114	70 - 130	11	25
Methylene Chloride	ND	H	4860	5020		ug/Kg	*	103	70 - 120	8	25
Naphthalene	490	H B	4860	5440		ug/Kg	*	102	70 - 130	20	25
N-Propylbenzene	ND	H	4860	5100		ug/Kg	*	105	70 - 130	8	25
Styrene	ND	H	4860	5270		ug/Kg	*	109	85 - 120	6	25
1,1,1,2-Tetrachloroethane	ND	H	4860	4530		ug/Kg	*	93	80 - 130	9	25
1,1,1,2-Tetrachloroethane	ND	H	4860	4490		ug/Kg	*	93	70 - 130	9	25
Tetrachloroethene	ND	H	4860	4740		ug/Kg	*	98	75 - 140	10	25
Toluene	ND	H	4860	4760		ug/Kg	*	98	70 - 130	9	25
1,2,3-Trichlorobenzene	ND	H	4860	5410		ug/Kg	*	111	70 - 130	24	25
1,2,4-Trichlorobenzene	ND	H	4860	5300		ug/Kg	*	109	70 - 150	18	25
1,1,1-Trichloroethane	ND	H	4860	4600		ug/Kg	*	95	80 - 125	8	25
1,1,2-Trichloroethane	ND	H	4860	4760		ug/Kg	*	98	80 - 130	7	25
Trichloroethene	ND	H	4860	4780		ug/Kg	*	98	80 - 125	8	25
Trichlorofluoromethane	ND	H	4860	4820		ug/Kg	*	99	70 - 130	24	25
1,2,3-Trichloropropane	ND	H	4860	4520		ug/Kg	*	93	70 - 130	8	25
1,2,4-Trimethylbenzene	ND	H	4860	5140		ug/Kg	*	106	70 - 130	7	25
1,3,5-Trimethylbenzene	ND	H	4860	5210		ug/Kg	*	107	75 - 140	8	25
Vinyl chloride	ND	H	4860	3250		ug/Kg	*	67	10 - 140	14	25
m,p-Xylene	ND	H	9710	10100		ug/Kg	*	104	75 - 135	8	25
o-Xylene	ND	H	4860	5040		ug/Kg	*	104	70 - 130	9	25
1,2-Dichlorobenzene	ND	H	4860	4940		ug/Kg	*	102	80 - 120	9	25

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		75 - 125
4-Bromofluorobenzene (Surr)	105		75 - 125
Dibromofluoromethane (Surr)	101		75 - 125
Toluene-d8 (Surr)	105		75 - 125

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

**Lab Sample ID: MB 280-192595/1-A**

**Matrix: Solid**

**Analysis Batch: 192852**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 192595**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		310	9.6	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Acenaphthylene	ND		310	16	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Acetophenone	ND		310	19	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Anthracene	ND		310	16	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Atrazine	ND		310	35	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Benzidine	ND		3100	930	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Benzo[a]anthracene	ND		310	19	ug/Kg		09/22/13 14:38	09/24/13 12:06	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: MB 280-192595/1-A**

**Matrix: Solid**

**Analysis Batch: 192852**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 192595**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[a]pyrene	ND		310	19	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Benzo[b]fluoranthene	ND		310	24	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Benzo[g,h,i]perylene	ND		310	15	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Benzo[k]fluoranthene	ND		310	37	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Bis(2-chloroethoxy)methane	ND		310	21	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Bis(2-chloroethyl)ether	ND		310	16	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Bis(2-ethylhexyl) phthalate	ND		310	43	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Butyl benzyl phthalate	ND		310	40	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Caprolactam	ND		1500	99	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Carbazole	ND		310	34	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Chrysene	ND		310	25	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Di-n-butyl phthalate	ND		310	27	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Di-n-octyl phthalate	ND		310	13	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Dibenz(a,h)anthracene	ND		310	18	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Dibenzofuran	ND		310	19	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Diethyl phthalate	ND		620	24	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Dimethyl phthalate	241	J	310	21	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Fluoranthene	ND		310	34	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Fluorene	ND		310	17	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Hexachlorobenzene	ND		310	27	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Hexachlorobutadiene	ND		310	9.3	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Hexachlorocyclopentadiene	ND		1500	47	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Hexachloroethane	ND		310	20	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Indeno[1,2,3-cd]pyrene	ND		310	21	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Naphthalene	ND		310	29	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Nitrobenzene	ND		310	21	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
N-Nitrosodi-n-propylamine	ND		310	29	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		310	20	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Pentachlorophenol	ND		1500	310	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Phenol	ND		310	17	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Phenanthrene	ND		310	16	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
Pyrene	ND		310	11	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
2,2'-oxybis[1-chloropropane]	ND		310	21	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
2-Chloronaphthalene	ND		310	9.3	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
2-Chlorophenol	ND		310	20	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
2-Methylnaphthalene	ND		310	18	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
2-Methylphenol	ND		310	12	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
2-Nitroaniline	ND		1500	47	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
2-Nitrophenol	ND		310	9.3	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
2,4-Dichlorophenol	ND		310	9.3	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
2,4-Dimethylphenol	ND		310	62	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
2,4-Dinitrophenol	ND		1500	310	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
2,4-Dinitrotoluene	ND		310	62	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
2,6-Dinitrotoluene	ND		310	26	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
2,4,5-Trichlorophenol	ND		310	9.3	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
2,4,6-Trichlorophenol	ND		310	9.3	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
3,3'-Dichlorobenzidine	ND		620	84	ug/Kg		09/22/13 14:38	09/24/13 12:06	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: MB 280-192595/1-A**  
**Matrix: Solid**  
**Analysis Batch: 192852**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 192595**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	ND		310	31	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
3-Nitroaniline	ND		1500	68	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
4-Bromophenyl phenyl ether	ND		310	18	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
4-Chloro-3-methylphenol	ND		310	62	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
4-Chloroaniline	ND		310	77	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
4-Chlorophenyl phenyl ether	ND		310	20	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
4-Nitroaniline	ND		1500	68	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
4-Nitrophenol	ND		1500	91	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
4,6-Dinitro-2-methylphenol	ND		1500	310	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
1,4-Dichlorobenzene	ND		310	13	ug/Kg		09/22/13 14:38	09/24/13 12:06	1
1,2,4-Trichlorobenzene	ND		310	26	ug/Kg		09/22/13 14:38	09/24/13 12:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	80		53 - 120	09/22/13 14:38	09/24/13 12:06	1
Phenol-d5	79		52 - 120	09/22/13 14:38	09/24/13 12:06	1
Nitrobenzene-d5	81		50 - 120	09/22/13 14:38	09/24/13 12:06	1
2-Fluorobiphenyl	80		50 - 120	09/22/13 14:38	09/24/13 12:06	1
2,4,6-Tribromophenol	83		51 - 120	09/22/13 14:38	09/24/13 12:06	1
Terphenyl-d14	90		55 - 120	09/22/13 14:38	09/24/13 12:06	1

**Lab Sample ID: LCS 280-192595/2-A**  
**Matrix: Solid**  
**Analysis Batch: 192852**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 192595**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	2540	1910		ug/Kg		75	60 - 120
Acenaphthylene	2540	1900		ug/Kg		75	64 - 120
Anthracene	2540	2020		ug/Kg		80	63 - 120
Benzo[a]anthracene	2540	2090		ug/Kg		82	65 - 120
Benzo[a]pyrene	2540	2140		ug/Kg		84	59 - 120
Benzo[b]fluoranthene	2540	2240		ug/Kg		88	47 - 129
Benzo[g,h,i]perylene	2540	2210		ug/Kg		87	55 - 126
Benzo[k]fluoranthene	2540	2130		ug/Kg		84	48 - 130
Bis(2-chloroethoxy)methane	2540	1820		ug/Kg		72	56 - 120
Bis(2-chloroethyl)ether	2540	1920		ug/Kg		76	51 - 120
Bis(2-ethylhexyl) phthalate	2540	2250		ug/Kg		89	65 - 120
Butyl benzyl phthalate	2540	2260		ug/Kg		89	65 - 120
Carbazole	2540	2010		ug/Kg		79	64 - 120
Chrysene	2540	2050		ug/Kg		81	64 - 120
Di-n-butyl phthalate	2540	2170		ug/Kg		85	67 - 120
Di-n-octyl phthalate	2540	2280		ug/Kg		90	66 - 120
Dibenz(a,h)anthracene	2540	2270		ug/Kg		89	50 - 133
Dibenzofuran	2540	1990		ug/Kg		78	61 - 120
Diethyl phthalate	2540	2130		ug/Kg		84	66 - 120
Dimethyl phthalate	2540	2370		ug/Kg		93	65 - 120
Fluoranthene	2540	2100		ug/Kg		83	66 - 120
Fluorene	2540	2010		ug/Kg		79	64 - 120
Hexachlorobenzene	2540	2030		ug/Kg		80	62 - 120

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: LCS 280-192595/2-A**

**Matrix: Solid**

**Analysis Batch: 192852**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 192595**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	2540	1920		ug/Kg		75	53 - 120
Hexachlorocyclopentadiene	2540	1800		ug/Kg		71	47 - 120
Hexachloroethane	2540	1890		ug/Kg		75	51 - 120
Indeno[1,2,3-cd]pyrene	2540	2240		ug/Kg		88	63 - 120
Naphthalene	2540	1840		ug/Kg		72	57 - 120
Nitrobenzene	2540	1860		ug/Kg		73	54 - 120
N-Nitrosodi-n-propylamine	2540	1910		ug/Kg		75	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	2540	2000		ug/Kg		79	61 - 120
Pentachlorophenol	5080	4380		ug/Kg		86	56 - 120
Phenol	2540	1870		ug/Kg		74	56 - 120
Phenanthrene	2540	2070		ug/Kg		82	64 - 120
Pyrene	2540	2140		ug/Kg		84	64 - 120
2,2'-oxybis[1-chloropropane]	2540	1790		ug/Kg		71	49 - 120
2-Chloronaphthalene	2540	1900		ug/Kg		75	59 - 120
2-Chlorophenol	2540	1930		ug/Kg		76	57 - 120
2-Methylnaphthalene	2540	1880		ug/Kg		74	57 - 120
2-Methylphenol	2540	1910		ug/Kg		75	56 - 120
2-Nitroaniline	2540	2100		ug/Kg		83	63 - 120
2-Nitrophenol	2540	1960		ug/Kg		77	56 - 120
2,4-Dichlorophenol	2540	1910		ug/Kg		75	60 - 120
2,4-Dimethylphenol	2540	1910		ug/Kg		75	54 - 120
2,4-Dinitrophenol	5080	4120		ug/Kg		81	46 - 120
2,4-Dinitrotoluene	2540	2120		ug/Kg		84	68 - 120
2,6-Dinitrotoluene	2540	2090		ug/Kg		82	64 - 120
2,4,5-Trichlorophenol	2540	2080		ug/Kg		82	64 - 120
2,4,6-Trichlorophenol	2540	2050		ug/Kg		81	61 - 120
3,3'-Dichlorobenzidine	2540	1420		ug/Kg		56	30 - 120
3 & 4 Methylphenol	2540	1920		ug/Kg		75	53 - 120
3-Nitroaniline	2540	1450	J	ug/Kg		57	47 - 120
4-Bromophenyl phenyl ether	2540	2070		ug/Kg		82	64 - 120
4-Chloro-3-methylphenol	2540	2040		ug/Kg		80	63 - 120
4-Chloroaniline	2540	1210		ug/Kg		48	28 - 120
4-Chlorophenyl phenyl ether	2540	2010		ug/Kg		79	64 - 120
4-Nitroaniline	2540	1890		ug/Kg		74	64 - 120
4-Nitrophenol	5080	4670		ug/Kg		92	63 - 121
4,6-Dinitro-2-methylphenol	5080	4290		ug/Kg		84	57 - 120
1,4-Dichlorobenzene	2540	1830		ug/Kg		72	52 - 120
1,2,4-Trichlorobenzene	2540	1860		ug/Kg		73	52 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	75		53 - 120
Phenol-d5	76		52 - 120
Nitrobenzene-d5	74		50 - 120
2-Fluorobiphenyl	76		50 - 120
2,4,6-Tribromophenol	86		51 - 120
Terphenyl-d14	87		55 - 120

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: 250-14195-50 MS**

**Matrix: Solid**

**Analysis Batch: 192852**

**Client Sample ID: S-DP-81(2-2.5)**

**Prep Type: Total/NA**

**Prep Batch: 192595**

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Acenaphthene	ND		3030	2310	D	ug/Kg	☼	76	60 - 120
Acenaphthylene	ND		3030	2260	D	ug/Kg	☼	74	64 - 120
Anthracene	ND		3030	2440	D	ug/Kg	☼	80	63 - 120
Benzo[a]anthracene	ND		3030	2440	D	ug/Kg	☼	81	65 - 120
Benzo[a]pyrene	ND		3030	2440	D	ug/Kg	☼	80	59 - 120
Benzo[b]fluoranthene	ND		3030	2510	D	ug/Kg	☼	83	47 - 129
Benzo[g,h,i]perylene	ND		3030	2380	D	ug/Kg	☼	79	55 - 126
Benzo[k]fluoranthene	ND		3030	2310	D	ug/Kg	☼	76	48 - 130
Bis(2-chloroethoxy)methane	ND		3030	2320	D	ug/Kg	☼	76	56 - 120
Bis(2-chloroethyl)ether	ND		3030	2160	D	ug/Kg	☼	71	51 - 120
Bis(2-ethylhexyl) phthalate	ND		3030	2970	D	ug/Kg	☼	98	65 - 120
Butyl benzyl phthalate	ND		3030	2830	D	ug/Kg	☼	93	65 - 120
Carbazole	ND		3030	2400	D	ug/Kg	☼	79	64 - 120
Chrysene	ND		3030	2440	D	ug/Kg	☼	81	64 - 120
Di-n-butyl phthalate	ND		3030	2560	D	ug/Kg	☼	85	67 - 120
Di-n-octyl phthalate	ND		3030	3030	D	ug/Kg	☼	100	66 - 120
Dibenz(a,h)anthracene	ND		3030	2380	D	ug/Kg	☼	79	50 - 133
Dibenzofuran	ND		3030	2320	D	ug/Kg	☼	77	61 - 120
Diethyl phthalate	ND		3030	2480	J D	ug/Kg	☼	82	66 - 120
Dimethyl phthalate	830	J B	3030	3150	D	ug/Kg	☼	76	65 - 120
Fluoranthene	ND		3030	2430	D	ug/Kg	☼	80	66 - 120
Fluorene	ND		3030	2360	D	ug/Kg	☼	78	64 - 120
Hexachlorobenzene	ND		3030	2260	D	ug/Kg	☼	75	62 - 120
Hexachlorobutadiene	ND		3030	2230	D	ug/Kg	☼	74	53 - 120
Hexachlorocyclopentadiene	ND		3030	562	J D F	ug/Kg	☼	19	47 - 120
Hexachloroethane	ND		3030	2020	D	ug/Kg	☼	67	51 - 120
Indeno[1,2,3-cd]pyrene	ND		3030	2510	D	ug/Kg	☼	83	63 - 120
Naphthalene	ND		3030	2290	D	ug/Kg	☼	75	57 - 120
Nitrobenzene	ND		3030	2270	D	ug/Kg	☼	75	54 - 120
N-Nitrosodi-n-propylamine	ND		3030	2310	D	ug/Kg	☼	76	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	ND		3030	2610	D	ug/Kg	☼	86	61 - 120
Pentachlorophenol	ND		6060	4710	J D	ug/Kg	☼	78	56 - 120
Phenol	ND		3030	2330	D	ug/Kg	☼	77	56 - 120
Phenanthrene	210	J	3030	2530	D	ug/Kg	☼	76	64 - 120
Pyrene	200	J	3030	2680	D	ug/Kg	☼	82	64 - 120
2,2'-oxybis[1-chloropropane]	ND		3030	2080	D	ug/Kg	☼	69	49 - 120
2-Chloronaphthalene	ND		3030	2260	D	ug/Kg	☼	75	59 - 120
2-Chlorophenol	ND		3030	2260	D	ug/Kg	☼	75	57 - 120
2-Methylnaphthalene	220	J	3030	2460	D	ug/Kg	☼	74	57 - 120
2-Methylphenol	ND		3030	2280	D	ug/Kg	☼	75	56 - 120
2-Nitroaniline	ND		3030	2520	J D	ug/Kg	☼	83	63 - 120
2-Nitrophenol	ND		3030	2330	D	ug/Kg	☼	77	56 - 120
2,4-Dichlorophenol	ND		3030	2420	D	ug/Kg	☼	80	60 - 120
2,4-Dimethylphenol	ND		3030	2430	D	ug/Kg	☼	80	54 - 120
2,4-Dinitrophenol	ND		6060	3780	J D	ug/Kg	☼	62	46 - 120
2,4-Dinitrotoluene	ND		3030	2360	D	ug/Kg	☼	78	68 - 120
2,6-Dinitrotoluene	ND		3030	2350	D	ug/Kg	☼	77	64 - 120

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: 250-14195-50 MS**

**Matrix: Solid**

**Analysis Batch: 192852**

**Client Sample ID: S-DP-81(2-2.5)**

**Prep Type: Total/NA**

**Prep Batch: 192595**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
2,4,5-Trichlorophenol	ND		3030	2430	D	ug/Kg	*	80	64 - 120
2,4,6-Trichlorophenol	ND		3030	2420	D	ug/Kg	*	80	61 - 120
3,3'-Dichlorobenzidine	ND		3030	1680	J D	ug/Kg	*	56	30 - 120
3 & 4 Methylphenol	ND		3030	2430	D	ug/Kg	*	80	53 - 120
3-Nitroaniline	ND		3030	2110	J D	ug/Kg	*	70	47 - 120
4-Bromophenyl phenyl ether	ND		3030	2580	D	ug/Kg	*	85	64 - 120
4-Chloro-3-methylphenol	ND		3030	2490	D	ug/Kg	*	82	63 - 120
4-Chloroaniline	ND		3030	1910	D	ug/Kg	*	63	28 - 120
4-Chlorophenyl phenyl ether	ND		3030	2280	D	ug/Kg	*	75	64 - 120
4-Nitroaniline	ND		3030	2180	J D	ug/Kg	*	72	64 - 120
4-Nitrophenol	ND		6060	5330	J D	ug/Kg	*	88	63 - 121
4,6-Dinitro-2-methylphenol	ND		6060	4060	J D	ug/Kg	*	67	57 - 120
1,4-Dichlorobenzene	ND		3030	1990	D	ug/Kg	*	66	52 - 120
1,2,4-Trichlorobenzene	ND		3030	2250	D	ug/Kg	*	74	52 - 120

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorophenol	73	D	53 - 120
Phenol-d5	77	D	52 - 120
Nitrobenzene-d5	76	D	50 - 120
2-Fluorobiphenyl	78	D	50 - 120
2,4,6-Tribromophenol	77	D	51 - 120
Terphenyl-d14	84	D	55 - 120

**Lab Sample ID: 250-14195-50 MSD**

**Matrix: Solid**

**Analysis Batch: 192852**

**Client Sample ID: S-DP-81(2-2.5)**

**Prep Type: Total/NA**

**Prep Batch: 192595**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier					RPD	Limit
Acenaphthene	ND		3050	2650	D	ug/Kg	*	87	60 - 120	13	30
Acenaphthylene	ND		3050	2580	D	ug/Kg	*	85	64 - 120	14	30
Anthracene	ND		3050	2770	D	ug/Kg	*	91	63 - 120	13	30
Benzo[a]anthracene	ND		3050	2740	D	ug/Kg	*	90	65 - 120	11	30
Benzo[a]pyrene	ND		3050	2740	D	ug/Kg	*	90	59 - 120	12	30
Benzo[b]fluoranthene	ND		3050	2780	D	ug/Kg	*	91	47 - 129	11	44
Benzo[g,h,i]perylene	ND		3050	2560	D	ug/Kg	*	84	55 - 126	7	31
Benzo[k]fluoranthene	ND		3050	2550	D	ug/Kg	*	84	48 - 130	10	30
Bis(2-chloroethoxy)methane	ND		3050	2530	D	ug/Kg	*	83	56 - 120	9	30
Bis(2-chloroethyl)ether	ND		3050	2330	D	ug/Kg	*	76	51 - 120	8	30
Bis(2-ethylhexyl) phthalate	ND		3050	3240	D	ug/Kg	*	106	65 - 120	9	30
Butyl benzyl phthalate	ND		3050	3070	D	ug/Kg	*	101	65 - 120	8	30
Carbazole	ND		3050	2680	D	ug/Kg	*	88	64 - 120	11	30
Chrysene	ND		3050	2720	D	ug/Kg	*	89	64 - 120	11	35
Di-n-butyl phthalate	ND		3050	2920	D	ug/Kg	*	96	67 - 120	13	30
Di-n-octyl phthalate	ND		3050	3410	D	ug/Kg	*	112	66 - 120	12	30
Dibenz(a,h)anthracene	ND		3050	2740	D	ug/Kg	*	90	50 - 133	14	30
Dibenzofuran	ND		3050	2670	D	ug/Kg	*	88	61 - 120	14	30
Diethyl phthalate	ND		3050	2780	J D	ug/Kg	*	91	66 - 120	11	30
Dimethyl phthalate	830	J B	3050	3570	D	ug/Kg	*	90	65 - 120	12	30

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# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

Lab Sample ID: 250-14195-50 MSD

Matrix: Solid

Analysis Batch: 192852

Client Sample ID: S-DP-81(2-2.5)

Prep Type: Total/NA

Prep Batch: 192595

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Fluoranthene	ND		3050	2750	D	ug/Kg	*	90	66 - 120	13	30
Fluorene	ND		3050	2730	D	ug/Kg	*	90	64 - 120	15	30
Hexachlorobenzene	ND		3050	2630	D	ug/Kg	*	86	62 - 120	15	30
Hexachlorobutadiene	ND		3050	2520	D	ug/Kg	*	83	53 - 120	12	30
Hexachlorocyclopentadiene	ND		3050	608	J D F	ug/Kg	*	20	47 - 120	8	30
Hexachloroethane	ND		3050	2240	D	ug/Kg	*	74	51 - 120	10	30
Indeno[1,2,3-cd]pyrene	ND		3050	2850	D	ug/Kg	*	94	63 - 120	13	30
Naphthalene	ND		3050	2490	D	ug/Kg	*	82	57 - 120	9	30
Nitrobenzene	ND		3050	2500	D	ug/Kg	*	82	54 - 120	9	30
N-Nitrosodi-n-propylamine	ND		3050	2500	D	ug/Kg	*	82	51 - 120	8	30
n-Nitrosodiphenylamine(as diphenylamine)	ND		3050	2900	D	ug/Kg	*	95	61 - 120	10	36
Pentachlorophenol	ND		6100	5330	J D	ug/Kg	*	87	56 - 120	12	30
Phenol	ND		3050	2600	D	ug/Kg	*	85	56 - 120	11	30
Phenanthrene	210	J	3050	2870	D	ug/Kg	*	87	64 - 120	13	30
Pyrene	200	J	3050	2960	D	ug/Kg	*	91	64 - 120	10	38
2,2'-oxybis[1-chloropropane]	ND		3050	2260	D	ug/Kg	*	74	49 - 120	8	30
2-Chloronaphthalene	ND		3050	2660	D	ug/Kg	*	87	59 - 120	16	30
2-Chlorophenol	ND		3050	2620	D	ug/Kg	*	86	57 - 120	15	30
2-Methylnaphthalene	220	J	3050	2670	D	ug/Kg	*	80	57 - 120	8	30
2-Methylphenol	ND		3050	2520	D	ug/Kg	*	83	56 - 120	10	30
2-Nitroaniline	ND		3050	2890	J D	ug/Kg	*	95	63 - 120	14	30
2-Nitrophenol	ND		3050	2630	D	ug/Kg	*	86	56 - 120	12	30
2,4-Dichlorophenol	ND		3050	2780	D	ug/Kg	*	91	60 - 120	13	30
2,4-Dimethylphenol	ND		3050	2740	D	ug/Kg	*	90	54 - 120	12	30
2,4-Dinitrophenol	ND		6100	4550	J D	ug/Kg	*	75	46 - 120	19	34
2,4-Dinitrotoluene	ND		3050	2740	D	ug/Kg	*	90	68 - 120	15	30
2,6-Dinitrotoluene	ND		3050	2670	D	ug/Kg	*	87	64 - 120	13	30
2,4,5-Trichlorophenol	ND		3050	2780	D	ug/Kg	*	91	64 - 120	14	30
2,4,6-Trichlorophenol	ND		3050	2820	D	ug/Kg	*	92	61 - 120	15	30
3,3'-Dichlorobenzidine	ND		3050	2030	J D	ug/Kg	*	66	30 - 120	19	30
3 & 4 Methylphenol	ND		3050	2640	D	ug/Kg	*	87	53 - 120	8	30
3-Nitroaniline	ND		3050	2460	J D	ug/Kg	*	81	47 - 120	16	30
4-Bromophenyl phenyl ether	ND		3050	2820	D	ug/Kg	*	92	64 - 120	9	30
4-Chloro-3-methylphenol	ND		3050	2910	D	ug/Kg	*	96	63 - 120	16	30
4-Chloroaniline	ND		3050	2060	D	ug/Kg	*	68	28 - 120	8	30
4-Chlorophenyl phenyl ether	ND		3050	2610	D	ug/Kg	*	86	64 - 120	14	30
4-Nitroaniline	ND		3050	2540	J D	ug/Kg	*	83	64 - 120	15	30
4-Nitrophenol	ND		6100	6600	J D	ug/Kg	*	108	63 - 121	21	30
4,6-Dinitro-2-methylphenol	ND		6100	4750	J D	ug/Kg	*	78	57 - 120	16	30
1,4-Dichlorobenzene	ND		3050	2200	D	ug/Kg	*	72	52 - 120	10	30
1,2,4-Trichlorobenzene	ND		3050	2460	D	ug/Kg	*	81	52 - 120	9	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorophenol	82	D	53 - 120
Phenol-d5	86	D	52 - 120
Nitrobenzene-d5	85	D	50 - 120
2-Fluorobiphenyl	90	D	50 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: 250-14195-50 MSD**

**Matrix: Solid**

**Analysis Batch: 192852**

**Client Sample ID: S-DP-81(2-2.5)**

**Prep Type: Total/NA**

**Prep Batch: 192595**

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	84	D	51 - 120
Terphenyl-d14	93	D	55 - 120

**Lab Sample ID: MB 280-194211/1-A**

**Matrix: Solid**

**Analysis Batch: 194883**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 194211**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		320	9.9	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Acenaphthylene	ND		320	16	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Acetophenone	ND		320	19	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Anthracene	ND		320	16	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Atrazine	ND		320	36	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Benzidine	ND		3200	950	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Benzo[a]anthracene	ND		320	19	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Benzo[a]pyrene	ND		320	19	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Benzo[b]fluoranthene	ND		320	25	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Benzo[g,h,i]perylene	ND		320	15	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Benzo[k]fluoranthene	ND		320	38	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Bis(2-chloroethoxy)methane	ND		320	22	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Bis(2-chloroethyl)ether	ND		320	16	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Bis(2-ethylhexyl) phthalate	ND		320	44	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Butyl benzyl phthalate	ND		320	41	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Caprolactam	ND		1500	100	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Carbazole	ND		320	35	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Chrysene	ND		320	26	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Di-n-butyl phthalate	ND		320	28	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Di-n-octyl phthalate	ND		320	14	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Dibenz(a,h)anthracene	ND		320	18	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Dibenzofuran	ND		320	19	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Diethyl phthalate	ND		630	25	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Dimethyl phthalate	ND		320	22	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Fluoranthene	ND		320	35	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Fluorene	ND		320	17	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Hexachlorobenzene	ND		320	28	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Hexachlorobutadiene	ND		320	9.6	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Hexachlorocyclopentadiene	ND		1500	48	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Hexachloroethane	ND		320	20	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Indeno[1,2,3-cd]pyrene	ND		320	21	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Naphthalene	ND		320	30	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Nitrobenzene	ND		320	21	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
N-Nitrosodi-n-propylamine	ND		320	30	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		320	20	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Pentachlorophenol	ND		1500	320	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Phenol	ND		320	17	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Phenanthrene	ND		320	16	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
Pyrene	ND		320	12	ug/Kg		10/03/13 13:30	10/08/13 09:43	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: MB 280-194211/1-A**

**Matrix: Solid**

**Analysis Batch: 194883**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 194211**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2'-oxybis[1-chloropropane]	ND		320	22	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
2-Chloronaphthalene	ND		320	9.6	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
2-Chlorophenol	ND		320	20	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
2-Methylnaphthalene	ND		320	18	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
2-Methylphenol	ND		320	13	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
2-Nitroaniline	ND		1500	48	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
2-Nitrophenol	ND		320	9.6	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
2,4-Dichlorophenol	ND		320	9.6	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
2,4-Dimethylphenol	ND		320	63	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
2,4-Dinitrophenol	ND		1500	320	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
2,4-Dinitrotoluene	ND		320	63	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
2,6-Dinitrotoluene	ND		320	27	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
2,4,5-Trichlorophenol	ND		320	9.6	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
2,4,6-Trichlorophenol	ND		320	9.6	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
3,3'-Dichlorobenzidine	ND		630	87	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
3 & 4 Methylphenol	ND		320	32	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
3-Nitroaniline	ND		1500	70	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
4-Bromophenyl phenyl ether	ND		320	18	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
4-Chloro-3-methylphenol	ND		320	63	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
4-Chloroaniline	ND		320	79	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
4-Chlorophenyl phenyl ether	ND		320	20	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
4-Nitroaniline	ND		1500	70	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
4-Nitrophenol	ND		1500	93	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
4,6-Dinitro-2-methylphenol	ND		1500	320	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
1,4-Dichlorobenzene	ND		320	13	ug/Kg		10/03/13 13:30	10/08/13 09:43	1
1,2,4-Trichlorobenzene	ND		320	27	ug/Kg		10/03/13 13:30	10/08/13 09:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		53 - 120	10/03/13 13:30	10/08/13 09:43	1
Phenol-d5	75		52 - 120	10/03/13 13:30	10/08/13 09:43	1
Nitrobenzene-d5	73		50 - 120	10/03/13 13:30	10/08/13 09:43	1
2-Fluorobiphenyl	71		50 - 120	10/03/13 13:30	10/08/13 09:43	1
2,4,6-Tribromophenol	80		51 - 120	10/03/13 13:30	10/08/13 09:43	1
Terphenyl-d14	88		55 - 120	10/03/13 13:30	10/08/13 09:43	1

**Lab Sample ID: LCS 280-194211/2-A**

**Matrix: Solid**

**Analysis Batch: 194883**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 194211**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	2660	2000		ug/Kg		75	60 - 120
Acenaphthylene	2660	1950		ug/Kg		73	64 - 120
Anthracene	2660	2100		ug/Kg		79	63 - 120
Benzo[a]anthracene	2660	2110		ug/Kg		80	65 - 120
Benzo[a]pyrene	2660	2150		ug/Kg		81	59 - 120
Benzo[b]fluoranthene	2660	2230		ug/Kg		84	47 - 129
Benzo[g,h,i]perylene	2660	2220		ug/Kg		84	55 - 126
Benzo[k]fluoranthene	2660	2270		ug/Kg		85	48 - 130

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: LCS 280-194211/2-A**

**Matrix: Solid**

**Analysis Batch: 194883**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 194211**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Bis(2-chloroethoxy)methane	2660	1880		ug/Kg		71	56 - 120
Bis(2-chloroethyl)ether	2660	1980		ug/Kg		74	51 - 120
Bis(2-ethylhexyl) phthalate	2660	2180		ug/Kg		82	65 - 120
Butyl benzyl phthalate	2660	2130		ug/Kg		80	65 - 120
Carbazole	2660	2160		ug/Kg		81	64 - 120
Chrysene	2660	2120		ug/Kg		80	64 - 120
Di-n-butyl phthalate	2660	2200		ug/Kg		83	67 - 120
Di-n-octyl phthalate	2660	2190		ug/Kg		83	66 - 120
Dibenz(a,h)anthracene	2660	2090		ug/Kg		79	50 - 133
Dibenzofuran	2660	2050		ug/Kg		77	61 - 120
Diethyl phthalate	2660	2170		ug/Kg		82	66 - 120
Dimethyl phthalate	2660	2120		ug/Kg		80	65 - 120
Fluoranthene	2660	2180		ug/Kg		82	66 - 120
Fluorene	2660	2100		ug/Kg		79	64 - 120
Hexachlorobenzene	2660	2100		ug/Kg		79	62 - 120
Hexachlorobutadiene	2660	1860		ug/Kg		70	53 - 120
Hexachlorocyclopentadiene	2660	1610		ug/Kg		60	47 - 120
Hexachloroethane	2660	1820		ug/Kg		69	51 - 120
Indeno[1,2,3-cd]pyrene	2660	2040		ug/Kg		77	63 - 120
Naphthalene	2660	1980		ug/Kg		74	57 - 120
Nitrobenzene	2660	1880		ug/Kg		71	54 - 120
N-Nitrosodi-n-propylamine	2660	1870		ug/Kg		70	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	2660	2130		ug/Kg		80	61 - 120
Pentachlorophenol	5320	4090		ug/Kg		77	56 - 120
Phenol	2660	1920		ug/Kg		72	56 - 120
Phenanthrene	2660	2160		ug/Kg		81	64 - 120
Pyrene	2660	2110		ug/Kg		79	64 - 120
2,2'-oxybis[1-chloropropane]	2660	1870		ug/Kg		71	49 - 120
2-Chloronaphthalene	2660	1930		ug/Kg		73	59 - 120
2-Chlorophenol	2660	1900		ug/Kg		71	57 - 120
2-Methylnaphthalene	2660	1970		ug/Kg		74	57 - 120
2-Methylphenol	2660	1900		ug/Kg		72	56 - 120
2-Nitroaniline	2660	2090		ug/Kg		78	63 - 120
2-Nitrophenol	2660	1910		ug/Kg		72	56 - 120
2,4-Dichlorophenol	2660	1950		ug/Kg		73	60 - 120
2,4-Dimethylphenol	2660	1930		ug/Kg		73	54 - 120
2,4-Dinitrophenol	5320	3860		ug/Kg		73	46 - 120
2,4-Dinitrotoluene	2660	2140		ug/Kg		81	68 - 120
2,6-Dinitrotoluene	2660	2130		ug/Kg		80	64 - 120
2,4,5-Trichlorophenol	2660	2080		ug/Kg		78	64 - 120
2,4,6-Trichlorophenol	2660	2010		ug/Kg		76	61 - 120
3,3'-Dichlorobenzidine	2660	1480		ug/Kg		56	30 - 120
3 & 4 Methylphenol	2660	1960		ug/Kg		74	53 - 120
3-Nitroaniline	2660	1640		ug/Kg		62	47 - 120
4-Bromophenyl phenyl ether	2660	2090		ug/Kg		79	64 - 120
4-Chloro-3-methylphenol	2660	2110		ug/Kg		79	63 - 120
4-Chloroaniline	2660	1410		ug/Kg		53	28 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: LCS 280-194211/2-A**

**Matrix: Solid**

**Analysis Batch: 194883**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 194211**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	2660	2070		ug/Kg		78	64 - 120
4-Nitroaniline	2660	1960		ug/Kg		74	64 - 120
4-Nitrophenol	5320	4350		ug/Kg		82	63 - 121
4,6-Dinitro-2-methylphenol	5320	4190		ug/Kg		79	57 - 120
1,4-Dichlorobenzene	2660	1860		ug/Kg		70	52 - 120
1,2,4-Trichlorobenzene	2660	1870		ug/Kg		70	52 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	74		53 - 120
Phenol-d5	74		52 - 120
Nitrobenzene-d5	73		50 - 120
2-Fluorobiphenyl	74		50 - 120
2,4,6-Tribromophenol	84		51 - 120
Terphenyl-d14	83		55 - 120

## Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC)

**Lab Sample ID: MB 490-113707/6**

**Matrix: Solid**

**Analysis Batch: 113707**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C6 Aliphatics	ND		5.0		mg/Kg			10/11/13 14:12	1
C6-C8 Aliphatics	ND		5.0		mg/Kg			10/11/13 14:12	1
C8-C10 Aliphatics	ND		5.0		mg/Kg			10/11/13 14:12	1
C10-C12 Aliphatics	ND		5.0		mg/Kg			10/11/13 14:12	1
C8-C10 Aromatics	ND		5.0		mg/Kg			10/11/13 14:12	1
C10-C12 Aromatics	ND		5.0		mg/Kg			10/11/13 14:12	1
C12-C13 Aromatics	ND		5.0		mg/Kg			10/11/13 14:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,5-Dibromotoluene (fid)	108		60 - 140		10/11/13 14:12	1
2,5-Dibromotoluene (pid)	109		60 - 140		10/11/13 14:12	1

**Lab Sample ID: LCS 490-113707/3**

**Matrix: Solid**

**Analysis Batch: 113707**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C5-C6 Aliphatics	15.0	17.0		mg/Kg		113	70 - 130
C6-C8 Aliphatics	10.0	10.5		mg/Kg		105	70 - 130
C8-C10 Aliphatics	30.0	30.9		mg/Kg		103	70 - 130
C10-C12 Aliphatics	10.0	12.1		mg/Kg		121	70 - 130
C8-C10 Aromatics	25.0	26.0		mg/Kg		104	70 - 130
C10-C12 Aromatics	5.00	5.52		mg/Kg		110	70 - 130
C12-C13 Aromatics	5.00	5.87		mg/Kg		117	70 - 130

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC) (Continued)

**Lab Sample ID: LCS 490-113707/3**

**Matrix: Solid**

**Analysis Batch: 113707**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2,5-Dibromotoluene (fid)	107		60 - 140
2,5-Dibromotoluene (pid)	109		60 - 140

**Lab Sample ID: LCSD 490-113707/4**

**Matrix: Solid**

**Analysis Batch: 113707**

**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		
C5-C6 Aliphatics	15.0	15.9		mg/Kg		106	70 - 130	7	25	
C6-C8 Aliphatics	10.0	9.89		mg/Kg		99	70 - 130	6	25	
C8-C10 Aliphatics	30.0	29.3		mg/Kg		98	70 - 130	6	25	
C10-C12 Aliphatics	10.0	11.4		mg/Kg		114	70 - 130	6	25	
C8-C10 Aromatics	25.0	24.6		mg/Kg		99	70 - 130	6	25	
C10-C12 Aromatics	5.00	5.25		mg/Kg		105	70 - 130	5	25	
C12-C13 Aromatics	5.00	5.56		mg/Kg		111	70 - 130	5	25	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,5-Dibromotoluene (fid)	106		60 - 140
2,5-Dibromotoluene (pid)	107		60 - 140

**Lab Sample ID: 250-14195-46 MS**

**Matrix: Solid**

**Analysis Batch: 113707**

**Client Sample ID: S-DP-75A(2-3)**

**Prep Type: Total/NA**

**Prep Batch: 113735**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
									RPD	Limit
C5-C6 Aliphatics	ND	H	11.9	15.1		mg/Kg	✱	127	70 - 130	
C6-C8 Aliphatics	ND	H	7.91	9.79		mg/Kg	✱	124	70 - 130	
C8-C10 Aliphatics	ND	H	23.7	26.3		mg/Kg	✱	111	70 - 130	
C10-C12 Aliphatics	ND	H	7.91	11.3	F	mg/Kg	✱	142	70 - 130	
C8-C10 Aromatics	ND	H	19.8	22.4		mg/Kg	✱	113	70 - 130	
C10-C12 Aromatics	ND	H	3.95	ND		mg/Kg	✱	106	70 - 130	
C12-C13 Aromatics	ND	H	3.95	ND		mg/Kg	✱	126	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
2,5-Dibromotoluene (fid)	108		60 - 140
2,5-Dibromotoluene (pid)	105		60 - 140

**Lab Sample ID: 250-14195-46 MSD**

**Matrix: Solid**

**Analysis Batch: 113707**

**Client Sample ID: S-DP-75A(2-3)**

**Prep Type: Total/NA**

**Prep Batch: 113735**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
									RPD	Limit		
C5-C6 Aliphatics	ND	H	11.9	14.3		mg/Kg	✱	121	70 - 130	5	25	
C6-C8 Aliphatics	ND	H	7.91	9.68		mg/Kg	✱	122	70 - 130	1	25	
C8-C10 Aliphatics	ND	H	23.7	26.0		mg/Kg	✱	110	70 - 130	1	25	
C10-C12 Aliphatics	ND	H	7.91	10.6	F	mg/Kg	✱	133	70 - 130	6	25	
C8-C10 Aromatics	ND	H	19.8	21.9		mg/Kg	✱	111	70 - 130	2	25	

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC) (Continued)

**Lab Sample ID: 250-14195-46 MSD**

**Matrix: Solid**

**Analysis Batch: 113707**

**Client Sample ID: S-DP-75A(2-3)**

**Prep Type: Total/NA**

**Prep Batch: 113735**

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
C10-C12 Aromatics	ND	H	3.95	ND		mg/Kg		87	70 - 130	10	25
C12-C13 Aromatics	ND	H	3.95	ND		mg/Kg		121	70 - 130	4	25
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
2,5-Dibromotoluene (fid)	105		60 - 140								
2,5-Dibromotoluene (pid)	102		60 - 140								

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-20288/1-A**

**Matrix: Solid**

**Analysis Batch: 20341**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20288**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Hydrocarbons	ND		3.9		mg/Kg		09/19/13 10:06	09/19/13 11:09	1
<b>MB MB</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	106		50 - 150				09/19/13 10:06	09/19/13 11:09	1

**Lab Sample ID: LCS 250-20288/2-A**

**Matrix: Solid**

**Analysis Batch: 20341**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20288**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Gasoline Range Hydrocarbons	24.6	25.1		mg/Kg		102	70 - 130
<b>LCS LCS</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
a,a,a-Trifluorotoluene (fid)	106		50 - 150				

**Lab Sample ID: MB 250-20291/1-A**

**Matrix: Solid**

**Analysis Batch: 20388**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20291**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Hydrocarbons	ND		3.9		mg/Kg		09/19/13 10:58	09/20/13 12:49	1
<b>MB MB</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene (fid)	95		50 - 150				09/19/13 10:58	09/20/13 12:49	1

**Lab Sample ID: LCS 250-20291/2-A**

**Matrix: Solid**

**Analysis Batch: 20388**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20291**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Gasoline Range Hydrocarbons	24.5	26.1		mg/Kg		106	70 - 130

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 250-20291/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20388**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20291**

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene (fid)	98		50 - 150

**Lab Sample ID: 250-14195-44 MS**  
**Matrix: Solid**  
**Analysis Batch: 20388**

**Client Sample ID: S-DP-1B(6-6.5)**  
**Prep Type: Total/NA**  
**Prep Batch: 20291**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier				Limits	
Gasoline Range Hydrocarbons	ND		31.5	32.7		mg/Kg	☼	97		65 - 130
Surrogate	MS	MS								
a,a,a-Trifluorotoluene (fid)	%Recovery	Qualifier	Limits							
	118		50 - 150							

**Lab Sample ID: 250-14195-45 DU**  
**Matrix: Solid**  
**Analysis Batch: 20388**

**Client Sample ID: S-DP-65(4-5)**  
**Prep Type: Total/NA**  
**Prep Batch: 20291**

Analyte	Sample	Sample	DU		Unit	D	RPD		Limit
	Result	Qualifier	Result	Qualifier			RPD	Limit	
Gasoline Range Hydrocarbons	20		18.8		mg/Kg	☼	7		40
Surrogate	DU	DU							
a,a,a-Trifluorotoluene (fid)	%Recovery	Qualifier	Limits						
	82		50 - 150						

**Lab Sample ID: 250-14195-54 DU**  
**Matrix: Solid**  
**Analysis Batch: 20388**

**Client Sample ID: S-DP-85(7.5-8.5)**  
**Prep Type: Total/NA**  
**Prep Batch: 20291**

Analyte	Sample	Sample	DU		Unit	D	RPD		Limit
	Result	Qualifier	Result	Qualifier			RPD	Limit	
Gasoline Range Hydrocarbons	ND		ND		mg/Kg	☼	NC		40
Surrogate	DU	DU							
a,a,a-Trifluorotoluene (fid)	%Recovery	Qualifier	Limits						
	99		50 - 150						

**Lab Sample ID: MB 250-20348/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20391**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20348**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Hydrocarbons	ND		3.8		mg/Kg		09/20/13 12:39	09/20/13 13:41	1
Surrogate	MB	MB							
a,a,a-Trifluorotoluene (fid)	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	105		50 - 150				09/20/13 12:39	09/20/13 13:41	1

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 250-20348/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20391**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20348**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Gasoline Range Hydrocarbons	24.3	25.0		mg/Kg		103	70 - 130
<b>Surrogate</b>							
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
<i>a,a,a-Trifluorotoluene (fid)</i>	107		50 - 150				

**Lab Sample ID: 250-14195-74 MS**  
**Matrix: Solid**  
**Analysis Batch: 20391**

**Client Sample ID: S-DP-99(3-4)**  
**Prep Type: Total/NA**  
**Prep Batch: 20348**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Gasoline Range Hydrocarbons	ND		29.2	27.6		mg/Kg	✖	95	65 - 130
<b>Surrogate</b>									
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
<i>a,a,a-Trifluorotoluene (fid)</i>	100		50 - 150						

**Lab Sample ID: 250-14195-75 DU**  
**Matrix: Solid**  
**Analysis Batch: 20391**

**Client Sample ID: S-DP-100(5-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 20348**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Gasoline Range Hydrocarbons	ND		ND		mg/Kg	✖	NC	40
<b>Surrogate</b>								
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
<i>a,a,a-Trifluorotoluene (fid)</i>	102		50 - 150					

**Lab Sample ID: 250-14195-95 DU**  
**Matrix: Solid**  
**Analysis Batch: 20391**

**Client Sample ID: S-DP-97(8-9)**  
**Prep Type: Total/NA**  
**Prep Batch: 20348**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Gasoline Range Hydrocarbons	ND		ND		mg/Kg	✖	NC	40
<b>Surrogate</b>								
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
<i>a,a,a-Trifluorotoluene (fid)</i>	93		50 - 150					

**Lab Sample ID: MB 250-20667/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20715**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20667**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		3.9		mg/Kg		10/01/13 10:46	10/01/13 17:57	1
<b>Surrogate</b>									
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene (fid)</i>	100		50 - 150				10/01/13 10:46	10/01/13 17:57	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 250-20667/2-A**

**Matrix: Solid**

**Analysis Batch: 20715**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20667**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	24.1	24.4		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>a,a,a</i> -Trifluorotoluene ( <i>fid</i> )	104		50 - 150

**Lab Sample ID: 250-14195-22 MS**

**Matrix: Solid**

**Analysis Batch: 20715**

**Client Sample ID: S-DP-81(6-7)**

**Prep Type: Total/NA**

**Prep Batch: 20667**

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>a,a,a</i> -Trifluorotoluene ( <i>fid</i> )	90		50 - 150

**Lab Sample ID: 250-14195-20 DU**

**Matrix: Solid**

**Analysis Batch: 20715**

**Client Sample ID: S-DP-75A(5-6)**

**Prep Type: Total/NA**

**Prep Batch: 20667**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gasoline Range Hydrocarbons	5.5	H	6.68		mg/Kg	*	20	40

Surrogate	DU %Recovery	DU Qualifier	Limits
<i>a,a,a</i> -Trifluorotoluene ( <i>fid</i> )	98		50 - 150

## Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

**Lab Sample ID: MB 580-146508/1-B**

**Matrix: Solid**

**Analysis Batch: 146906**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 146508**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		5.0		mg/Kg		10/03/13 14:33	10/09/13 16:46	1
C12-C16 Aliphatics	ND		5.0		mg/Kg		10/03/13 14:33	10/09/13 16:46	1
C16-C21 Aliphatics	ND		5.0		mg/Kg		10/03/13 14:33	10/09/13 16:46	1
C21-C34 Aliphatics	ND		5.0		mg/Kg		10/03/13 14:33	10/09/13 16:46	1
C10-C12 Aromatics	ND		5.0		mg/Kg		10/03/13 14:33	10/09/13 16:46	1
C12-C16 Aromatics	ND		5.0		mg/Kg		10/03/13 14:33	10/09/13 16:46	1
C16-C21 Aromatics	ND		5.0		mg/Kg		10/03/13 14:33	10/09/13 16:46	1
C21-C34 Aromatics	ND		5.0		mg/Kg		10/03/13 14:33	10/09/13 16:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		60 - 140	10/03/13 14:33	10/09/13 16:46	1
1-Chlorooctadecane	83		60 - 140	10/03/13 14:33	10/09/13 16:46	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC) (Continued)

**Lab Sample ID: LCS 580-146508/2-B**

**Matrix: Solid**

**Analysis Batch: 146906**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 146508**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C12 Aliphatics	6.69	ND	*	mg/Kg		62	70 - 130
C12-C16 Aliphatics	13.4	11.4		mg/Kg		85	70 - 130
C16-C21 Aliphatics	20.1	19.2		mg/Kg		96	70 - 130
C21-C34 Aliphatics	40.1	36.7		mg/Kg		92	70 - 130
C10-C12 Aromatics	6.67	ND	*	mg/Kg		60	70 - 130
C12-C16 Aromatics	20.0	14.1		mg/Kg		70	70 - 130
C16-C21 Aromatics	33.3	27.9		mg/Kg		84	70 - 130
C21-C34 Aromatics	53.3	46.2		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	83		60 - 140
1-Chlorooctadecane	79		60 - 140

**Lab Sample ID: LCSD 580-146508/3-B**

**Matrix: Solid**

**Analysis Batch: 146906**

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

**Prep Type: Total/NA**

**Prep Batch: 146508**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C12 Aliphatics	6.69	ND		mg/Kg		73	70 - 130	16	25
C12-C16 Aliphatics	13.4	13.1		mg/Kg		98	70 - 130	15	25
C16-C21 Aliphatics	20.1	22.6		mg/Kg		112	70 - 130	16	25
C21-C34 Aliphatics	40.1	42.4		mg/Kg		106	70 - 130	14	25
C10-C12 Aromatics	6.67	ND	*	mg/Kg		67	70 - 130	12	25
C12-C16 Aromatics	20.0	15.5		mg/Kg		78	70 - 130	10	25
C16-C21 Aromatics	33.3	29.8		mg/Kg		89	70 - 130	7	25
C21-C34 Aromatics	53.3	49.1		mg/Kg		92	70 - 130	6	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	87		60 - 140
1-Chlorooctadecane	88		60 - 140

**Lab Sample ID: 250-14195-76 MS**

**Matrix: Solid**

**Analysis Batch: 146906**

**Client Sample ID: S-DP-101(3-3.5)**

**Prep Type: Total/NA**

**Prep Batch: 146508**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C12 Aliphatics	ND	H *	9.23	ND		mg/Kg	☼	71	70 - 130
C12-C16 Aliphatics	ND	H	18.4	ND		mg/Kg	☼	97	70 - 130
C16-C21 Aliphatics	ND	H	27.7	83.2	F	mg/Kg	☼	198	70 - 130
C21-C34 Aliphatics	280	H	55.3	640	4	mg/Kg	☼	645	70 - 130
C10-C12 Aromatics	ND	H *	9.20	ND	F	mg/Kg	☼	65	70 - 130
C12-C16 Aromatics	ND	H	27.6	ND	F	mg/Kg	☼	67	70 - 130
C16-C21 Aromatics	ND	H	46.0	92.9	F	mg/Kg	☼	149	70 - 130
C21-C34 Aromatics	240	H	73.6	629	F	mg/Kg	☼	530	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	59	X	60 - 140

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC) (Continued)

**Lab Sample ID: 250-14195-76 MS**  
**Matrix: Solid**  
**Analysis Batch: 146906**

**Client Sample ID: S-DP-101(3-3.5)**  
**Prep Type: Total/NA**  
**Prep Batch: 146508**

<i>Surrogate</i>	<i>MS</i>	<i>MS</i>	<i>Limits</i>
	%Recovery	Qualifier	
1-Chlorooctadecane	73		60 - 140

**Lab Sample ID: 250-14195-76 MSD**  
**Matrix: Solid**  
**Analysis Batch: 146906**

**Client Sample ID: S-DP-101(3-3.5)**  
**Prep Type: Total/NA**  
**Prep Batch: 146508**

Analyte	Sample		Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
C10-C12 Aliphatics	ND	H *	9.50	ND		mg/Kg	☼	76	70 - 130	10	25	
C12-C16 Aliphatics	ND	H	19.0	ND		mg/Kg	☼	99	70 - 130	5	25	
C16-C21 Aliphatics	ND	H	28.5	64.9		mg/Kg	☼	128	70 - 130	25	25	
C21-C34 Aliphatics	280	H	56.9	454	4 F	mg/Kg	☼	301	70 - 130	34	25	
C10-C12 Aromatics	ND	H *	9.46	ND		mg/Kg	☼	72	70 - 130	12	25	
C12-C16 Aromatics	ND	H	28.4	ND		mg/Kg	☼	77	70 - 130	16	25	
C16-C21 Aromatics	ND	H	47.3	72.0		mg/Kg	☼	101	70 - 130	25	25	
C21-C34 Aromatics	240	H	75.7	368	F	mg/Kg	☼	170	70 - 130	52	25	

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	%Recovery	Qualifier	
o-Terphenyl	64		60 - 140
1-Chlorooctadecane	70		60 - 140

**Lab Sample ID: MB 580-147235/1-B**  
**Matrix: Solid**  
**Analysis Batch: 147279**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 147235**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C10-C12 Aliphatics	ND		5.0		mg/Kg		10/14/13 16:34	10/15/13 17:45	1
C12-C16 Aliphatics	ND		5.0		mg/Kg		10/14/13 16:34	10/15/13 17:45	1
C16-C21 Aliphatics	ND		5.0		mg/Kg		10/14/13 16:34	10/15/13 17:45	1
C21-C34 Aliphatics	ND		5.0		mg/Kg		10/14/13 16:34	10/15/13 17:45	1
C10-C12 Aromatics	ND		5.0		mg/Kg		10/14/13 16:34	10/15/13 17:45	1
C12-C16 Aromatics	ND		5.0		mg/Kg		10/14/13 16:34	10/15/13 17:45	1
C16-C21 Aromatics	ND		5.0		mg/Kg		10/14/13 16:34	10/15/13 17:45	1
C21-C34 Aromatics	ND		5.0		mg/Kg		10/14/13 16:34	10/15/13 17:45	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
o-Terphenyl	87		60 - 140	10/14/13 16:34	10/15/13 17:45	1
1-Chlorooctadecane	94		60 - 140	10/14/13 16:34	10/15/13 17:45	1

**Lab Sample ID: LCS 580-147235/2-B**  
**Matrix: Solid**  
**Analysis Batch: 147279**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 147235**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
C10-C12 Aliphatics	6.69	5.28		mg/Kg		79	70 - 130	
C12-C16 Aliphatics	13.4	13.0		mg/Kg		97	70 - 130	
C16-C21 Aliphatics	20.1	21.4		mg/Kg		107	70 - 130	
C21-C34 Aliphatics	40.1	41.0		mg/Kg		102	70 - 130	

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC) (Continued)

**Lab Sample ID: LCS 580-147235/2-B**

**Matrix: Solid**

**Analysis Batch: 147279**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 147235**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C12 Aromatics	6.67	5.42		mg/Kg		81	70 - 130
C12-C16 Aromatics	20.0	17.8		mg/Kg		89	70 - 130
C16-C21 Aromatics	33.3	32.5		mg/Kg		98	70 - 130
C21-C34 Aromatics	53.3	49.9		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	91		60 - 140
1-Chlorooctadecane	89		60 - 140

**Lab Sample ID: LCSD 580-147235/3-B**

**Matrix: Solid**

**Analysis Batch: 147279**

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

**Prep Type: Total/NA**

**Prep Batch: 147235**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C12 Aliphatics	6.69	5.33		mg/Kg		80	70 - 130	1	25
C12-C16 Aliphatics	13.4	13.0		mg/Kg		98	70 - 130	0	25
C16-C21 Aliphatics	20.1	21.6		mg/Kg		108	70 - 130	1	25
C21-C34 Aliphatics	40.1	41.4		mg/Kg		103	70 - 130	1	25
C10-C12 Aromatics	6.67	5.29		mg/Kg		79	70 - 130	2	25
C12-C16 Aromatics	20.0	17.3		mg/Kg		87	70 - 130	3	25
C16-C21 Aromatics	33.3	31.7		mg/Kg		95	70 - 130	3	25
C21-C34 Aromatics	53.3	48.4		mg/Kg		91	70 - 130	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	87		60 - 140
1-Chlorooctadecane	88		60 - 140

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-20427/1-B**

**Matrix: Solid**

**Analysis Batch: 20451**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20427**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		12		mg/Kg		09/24/13 09:47	09/24/13 15:05	1
RRO (nC25-nC36)	ND		25		mg/Kg		09/24/13 09:47	09/24/13 15:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	88		50 - 150	09/24/13 09:47	09/24/13 15:05	1

**Lab Sample ID: LCS 250-20427/2-B**

**Matrix: Solid**

**Analysis Batch: 20451**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20427**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C25)	123	114		mg/Kg		92	50 - 150
RRO (nC25-nC36)	73.9	68.9		mg/Kg		93	50 - 150

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 250-20427/2-B**  
**Matrix: Solid**  
**Analysis Batch: 20451**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20427**

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctadecane	99		50 - 150

**Lab Sample ID: 250-14195-42 DU**  
**Matrix: Solid**  
**Analysis Batch: 20451**

**Client Sample ID: S-DP-55(0.5-1.5)**  
**Prep Type: Total/NA**  
**Prep Batch: 20427**

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
DRO (C10-C25)	ND		22.0		mg/Kg	☼	67	40
RRO (nC25-nC36)	49		53.6		mg/Kg	☼	10	40

	DU	DU	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctadecane	99		50 - 150

**Lab Sample ID: MB 250-20438/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20451**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20438**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		12		mg/Kg		09/24/13 13:12	09/24/13 23:12	1
RRO (nC25-nC36)	ND		25		mg/Kg		09/24/13 13:12	09/24/13 23:12	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctadecane	86		50 - 150	09/24/13 13:12	09/24/13 23:12	1

**Lab Sample ID: MB 250-20438/1-B**  
**Matrix: Solid**  
**Analysis Batch: 20451**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20438**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		12		mg/Kg		09/24/13 13:12	09/25/13 09:45	1
RRO (nC25-nC36)	ND		25		mg/Kg		09/24/13 13:12	09/25/13 09:45	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctadecane	106		50 - 150	09/24/13 13:12	09/25/13 09:45	1

**Lab Sample ID: LCS 250-20438/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20451**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20438**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C25)	124	88.7		mg/Kg		71	50 - 150
RRO (nC25-nC36)	74.6	55.1		mg/Kg		74	50 - 150

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctadecane	74		50 - 150

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 250-20438/2-B**

**Matrix: Solid**

**Analysis Batch: 20451**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20438**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C25)	124	129		mg/Kg		103	50 - 150
RRO (nC25-nC36)	74.6	78.6		mg/Kg		105	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctadecane	109		50 - 150

**Lab Sample ID: 250-14195-44 DU**

**Matrix: Solid**

**Analysis Batch: 20451**

**Client Sample ID: S-DP-1B(6-6.5)**

**Prep Type: Total/NA**

**Prep Batch: 20438**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
DRO (C10-C25)	35		26.6		mg/Kg	*	28	40
RRO (nC25-nC36)	220		231		mg/Kg	*	3	40

Surrogate	DU %Recovery	DU Qualifier	Limits
1-Chlorooctadecane	99		50 - 150

**Lab Sample ID: MB 250-20775/1-B**

**Matrix: Solid**

**Analysis Batch: 20787**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20775**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		12		mg/Kg		10/03/13 12:49	10/04/13 12:04	1
RRO (nC25-nC36)	ND		25		mg/Kg		10/03/13 12:49	10/04/13 12:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	108		50 - 150	10/03/13 12:49	10/04/13 12:04	1

**Lab Sample ID: LCS 250-20775/2-B**

**Matrix: Solid**

**Analysis Batch: 20787**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 20775**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DRO (C10-C25)	124	133		mg/Kg		107	50 - 150
RRO (nC25-nC36)	74.4	78.8		mg/Kg		106	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctadecane	115		50 - 150

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

**Lab Sample ID: MB 250-20282/1-A**

**Matrix: Solid**

**Analysis Batch: 20310**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 20282**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.49		mg/Kg		09/19/13 08:27	09/19/13 14:02	10

TestAmerica Portland



# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

**Lab Sample ID: MB 250-20282/1-A**  
**Matrix: Solid**  
**Analysis Batch: 20310**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20282**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.49		mg/Kg		09/19/13 08:27	09/19/13 14:02	10
Cadmium	ND		0.49		mg/Kg		09/19/13 08:27	09/19/13 14:02	10
Chromium	ND		0.98		mg/Kg		09/19/13 08:27	09/19/13 14:02	10
Lead	ND		0.49		mg/Kg		09/19/13 08:27	09/19/13 14:02	10
Selenium	ND		0.49		mg/Kg		09/19/13 08:27	09/19/13 14:02	10
Silver	ND		0.49		mg/Kg		09/19/13 08:27	09/19/13 14:02	10

**Lab Sample ID: LCS 250-20282/2-A**  
**Matrix: Solid**  
**Analysis Batch: 20310**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20282**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	48.2	48.8		mg/Kg		101	80 - 120
Barium	48.2	49.5		mg/Kg		103	80 - 120
Cadmium	48.2	50.1		mg/Kg		104	80 - 120
Chromium	48.2	51.3		mg/Kg		106	80 - 120
Lead	48.2	51.2		mg/Kg		106	80 - 120
Selenium	48.2	48.7		mg/Kg		101	80 - 120
Silver	24.1	26.1		mg/Kg		109	80 - 120

**Lab Sample ID: 250-14195-50 MS**  
**Matrix: Solid**  
**Analysis Batch: 20310**

**Client Sample ID: S-DP-81(2-2.5)**  
**Prep Type: Total/NA**  
**Prep Batch: 20282**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	3.9		56.4	60.0		mg/Kg	✱	100	75 - 125
Barium	61		56.4	125		mg/Kg	✱	113	75 - 125
Cadmium	ND		56.4	58.6		mg/Kg	✱	104	75 - 125
Chromium	110		56.4	164		mg/Kg	✱	91	75 - 125
Lead	8.2		56.4	70.1		mg/Kg	✱	110	75 - 125
Selenium	ND		56.4	57.7		mg/Kg	✱	102	75 - 125
Silver	ND		28.2	30.3		mg/Kg	✱	107	75 - 125

**Lab Sample ID: 250-14195-50 MSD**  
**Matrix: Solid**  
**Analysis Batch: 20310**

**Client Sample ID: S-DP-81(2-2.5)**  
**Prep Type: Total/NA**  
**Prep Batch: 20282**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	3.9		55.1	59.2		mg/Kg	✱	100	75 - 125	1	40
Barium	61		55.1	129		mg/Kg	✱	124	75 - 125	4	40
Cadmium	ND		55.1	55.9		mg/Kg	✱	101	75 - 125	5	40
Chromium	110		55.1	189	F	mg/Kg	✱	139	75 - 125	14	40
Lead	8.2		55.1	67.4		mg/Kg	✱	108	75 - 125	4	40
Selenium	ND		55.1	54.2		mg/Kg	✱	98	75 - 125	6	40
Silver	ND		27.5	29.0		mg/Kg	✱	105	75 - 125	4	40

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

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

Lab Sample ID: MB 250-20625/1-A  
Matrix: Solid  
Analysis Batch: 20650

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 20625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.48		mg/Kg		09/30/13 12:32	09/30/13 16:43	10
Barium	ND		0.48		mg/Kg		09/30/13 12:32	09/30/13 16:43	10
Cadmium	ND		0.48		mg/Kg		09/30/13 12:32	09/30/13 16:43	10
Chromium	ND		0.96		mg/Kg		09/30/13 12:32	09/30/13 16:43	10
Lead	ND		0.48		mg/Kg		09/30/13 12:32	09/30/13 16:43	10
Selenium	ND		0.48		mg/Kg		09/30/13 12:32	09/30/13 16:43	10
Silver	ND		0.48		mg/Kg		09/30/13 12:32	09/30/13 16:43	10

Lab Sample ID: LCS 250-20625/2-A  
Matrix: Solid  
Analysis Batch: 20650

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 20625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.6	49.4		mg/Kg		99	80 - 120
Barium	49.6	50.7		mg/Kg		102	80 - 120
Cadmium	49.6	50.9		mg/Kg		103	80 - 120
Chromium	49.6	51.6		mg/Kg		104	80 - 120
Lead	49.6	52.1		mg/Kg		105	80 - 120
Selenium	49.6	48.7		mg/Kg		98	80 - 120
Silver	24.8	26.3		mg/Kg		106	80 - 120

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: LCS 250-22804/12-A  
Matrix: Solid  
Analysis Batch: 22816

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 22804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00497		mg/L		99	85 - 115

Lab Sample ID: MB 250-22749/5-B  
Matrix: Solid  
Analysis Batch: 22816

Client Sample ID: Method Blank  
Prep Type: TCLP  
Prep Batch: 22804

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000055	mg/L		12/11/13 15:32	12/11/13 19:51	1

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-150555/10-A  
Matrix: Solid  
Analysis Batch: 150620

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 150555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.017	0.0053	mg/Kg		12/10/13 11:46	12/10/13 14:57	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: 7471A - Mercury (CVAA) (Continued)

**Lab Sample ID:** LCS 580-150555/11-A  
**Matrix:** Solid  
**Analysis Batch:** 150620

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 150555

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.155		mg/Kg		93	80 - 120

**Lab Sample ID:** LCSD 580-150555/12-A  
**Matrix:** Solid  
**Analysis Batch:** 150620

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA  
**Prep Batch:** 150555

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.167	0.149		mg/Kg		90	80 - 120	4	20

**Lab Sample ID:** MB 250-20272/10-A  
**Matrix:** Solid  
**Analysis Batch:** 20277

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 20272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.078		mg/Kg		09/18/13 18:08	09/18/13 22:15	1

**Lab Sample ID:** LCS 250-20272/11-A  
**Matrix:** Solid  
**Analysis Batch:** 20277

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 20272

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.575	0.589		mg/Kg		102	80 - 120

**Lab Sample ID:** 250-14195-96 MS  
**Matrix:** Solid  
**Analysis Batch:** 20277

**Client Sample ID:** N-DP-39(2-3)  
**Prep Type:** Total/NA  
**Prep Batch:** 20272

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.540	0.575		mg/Kg	☼	105	75 - 125

**Lab Sample ID:** 250-14195-96 MSD  
**Matrix:** Solid  
**Analysis Batch:** 20277

**Client Sample ID:** N-DP-39(2-3)  
**Prep Type:** Total/NA  
**Prep Batch:** 20272

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.622	1.52	F	mg/Kg	☼	244	75 - 125	90	40

**Lab Sample ID:** MB 250-20740/10-A  
**Matrix:** Solid  
**Analysis Batch:** 20750

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 20740

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.097		mg/Kg		10/02/13 14:45	10/02/13 21:15	1

**Lab Sample ID:** LCS 250-20740/11-A  
**Matrix:** Solid  
**Analysis Batch:** 20750

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 20740

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.535	0.562		mg/Kg		105	80 - 120

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

**Lab Sample ID: 250-14195-68 MS**  
**Matrix: Solid**  
**Analysis Batch: 20750**

**Client Sample ID: S-DP-88(7-8)**  
**Prep Type: Total/NA**  
**Prep Batch: 20740**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Mercury	0.64		0.986	1.61		mg/Kg	☼	98	75 - 125	

**Lab Sample ID: 250-14195-68 MSD**  
**Matrix: Solid**  
**Analysis Batch: 20750**

**Client Sample ID: S-DP-88(7-8)**  
**Prep Type: Total/NA**  
**Prep Batch: 20740**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Mercury	0.64		0.944	1.19	F	mg/Kg	☼	58	75 - 125		30	40

**Lab Sample ID: MB 250-20985/10-A**  
**Matrix: Solid**  
**Analysis Batch: 21024**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 20985**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.096		mg/Kg		10/09/13 16:10	10/10/13 14:51	1

**Lab Sample ID: LCS 250-20985/11-A**  
**Matrix: Solid**  
**Analysis Batch: 21024**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 20985**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
Mercury	0.512	0.547		mg/Kg		107	80 - 120	

**Lab Sample ID: 250-14195-55 MS**  
**Matrix: Solid**  
**Analysis Batch: 21024**

**Client Sample ID: S-DP-87(5-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 20985**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Mercury	13		0.447	8.37	4	mg/Kg	☼	-1054	75 - 125	

**Lab Sample ID: 250-14195-55 MSD**  
**Matrix: Solid**  
**Analysis Batch: 21024**

**Client Sample ID: S-DP-87(5-6)**  
**Prep Type: Total/NA**  
**Prep Batch: 20985**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Mercury	13		0.494	5.18	4	mg/Kg	☼	-1597	75 - 125		47	40

**Lab Sample ID: MB 250-22734/10-A**  
**Matrix: Solid**  
**Analysis Batch: 22778**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 22734**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.082	0.0042	mg/Kg		12/09/13 19:36	12/10/13 22:23	1

**Lab Sample ID: LCS 250-22734/11-A**  
**Matrix: Solid**  
**Analysis Batch: 22778**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 22734**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
Mercury	0.476	0.506		mg/Kg		106	80 - 120	

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Method: 7471A - Mercury (CVAA) (Continued)

**Lab Sample ID: 250-14195-48 MS**  
**Matrix: Solid**  
**Analysis Batch: 22778**

**Client Sample ID: S-DP-78(0-1)**  
**Prep Type: Total/NA**  
**Prep Batch: 22734**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.11	H	0.595	0.684		mg/Kg	☼	97	75 - 125

**Lab Sample ID: 250-14195-48 MSD**  
**Matrix: Solid**  
**Analysis Batch: 22778**

**Client Sample ID: S-DP-78(0-1)**  
**Prep Type: Total/NA**  
**Prep Batch: 22734**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.11	H	0.693	0.787		mg/Kg	☼	98	75 - 125	14	40

## Method: D2216-80 - Percent Dry Weight (Solids) per ASTM D2216-80

**Lab Sample ID: 250-14195-50 DU**  
**Matrix: Solid**  
**Analysis Batch: 20312**

**Client Sample ID: S-DP-81(2-2.5)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	13		11		%		15	20
Percent Solids	87		89		%		2	20

**Lab Sample ID: 250-14195-44 DU**  
**Matrix: Solid**  
**Analysis Batch: 20323**

**Client Sample ID: S-DP-1B(6-6.5)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	17		14	F	%		24	20
Percent Solids	83		86		%		4	20

**Lab Sample ID: 250-14195-26 DU**  
**Matrix: Solid**  
**Analysis Batch: 22777**

**Client Sample ID: S-DP-87(1.5-2.5)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	21	H	22		%		7	20
Percent Solids	79	H	78		%		2	20

# Certification Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Laboratory: TestAmerica Portland

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14

## Laboratory: TestAmerica Denver

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-15
A2LA	ISO/IEC 17025		2907.01	10-31-15
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	04-05-14
Arizona	State Program	9	AZ0713	12-19-14
Arkansas DEQ	State Program	6	88-0687	06-01-14
California	ELAP	9	2513	08-31-14
Colorado	State Program	8	N/A	09-30-14
Connecticut	State Program	1	PH-0686	09-30-14
Florida	NELAP	4	E87667	06-30-14
Illinois	NELAP	5	200017	04-30-14
Iowa	State Program	7	370	12-01-14
Kansas	NELAP	7	E-10166	04-30-14
Louisiana	NELAP	6	30785	06-30-14 *
Maine	State Program	1	CO0002	03-03-15
Maryland	State Program	3	268	03-31-14
Minnesota	NELAP	5	8-999-405	12-31-13 *
Nevada	State Program	9	CO0026	09-01-14
New Hampshire	NELAP	1	205310	04-28-14
New Jersey	NELAP	2	CO004	06-30-14
New Mexico	State Program	6	CO00026	06-30-14
New York	NELAP	2	11964	04-01-14
North Carolina DENR	State Program	4	358	12-31-13 *
North Dakota	State Program	8	R-034	06-30-14
Oklahoma	State Program	6	8614	08-31-14
Oregon	NELAP	10	CO200001	01-16-14
Pennsylvania	NELAP	3	68-00664	07-30-14 *
South Carolina	State Program	4	72002	06-30-14
Texas	NELAP	6	T104704183-08-TX	10-01-14
USDA	Federal		P330-13-00202	07-02-16
Utah	NELAP	8	CO000262012-4	07-31-14
Virginia	NELAP	3	460232	06-14-14
Washington	State Program	10	C583	08-03-14
West Virginia DEP	State Program	3	354	11-30-14
Wisconsin	State Program	5	999615430	08-31-14
Wyoming (UST)	A2LA	8	2907.01	10-31-15

## Laboratory: TestAmerica Nashville

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

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

# Certification Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Laboratory: TestAmerica Nashville (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-15
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-14
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13 *
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-14
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13 *
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13 *
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13 *
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-15

## Laboratory: TestAmerica Seattle

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-04-14
California	NELAP	9	01115CA	01-31-14
L-A-B	DoD ELAP		L2236	01-19-16
L-A-B	ISO/IEC 17025		L2236	01-19-16
Montana (UST)	State Program	8	N/A	04-30-20

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

TestAmerica Portland

# Certification Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

## Laboratory: TestAmerica Seattle (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14





# Method Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14195-1  
SDG: 18593-001-02

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PRT
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
NWTPH/VPH	Northwest - Volatile Petroleum Hydrocarbons (GC)	NWTPH	TAL NSH
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL PRT
NWTPH/EPH	Northwest - Extractable Petroleum Hydrocarbons (GC)	NWTPH	TAL SEA
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL PRT
6020	Metals (ICP/MS)	SW846	TAL PRT
7470A	Mercury (CVAA)	SW846	TAL PRT
7471A	Mercury (CVAA)	SW846	TAL PRT
7471A	Mercury (CVAA)	SW846	TAL SEA
D2216-80	Percent Dry Weight (Solids) per ASTM D2216-80	ASTM	TAL PRT

#### Protocol References:

ASTM = ASTM International

NWTPH = Northwest Total Petroleum Hydrocarbon

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

#### Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

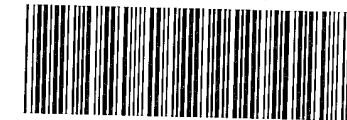
TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8<sup>th</sup> Street East  
11922 E. First Ave.  
9405 SW Nimbus Ave.,  
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119



250-14195 Chain of Custody

922-5047  
924-9290  
906-9210  
FAX 563-9210

12/17/2013

## CHAIN OF CUSTODY REPORT

Work Order #: **14195**

CLIENT: <b>GET - J. LAMUS</b>	INVOICE TO: <b>JODIE LAMUS</b>	<b>TURNAROUND REQUEST</b>			
REPORT TO: <b>SPOKANE</b>		in Business Days *			
ADDRESS:		Organic & Inorganic Analyses			
PHONE:		10 7 5 4 3 2 1 <1			
FAX:		STD. Petroleum Hydrocarbon Analyses			
PROJECT NAME: <b>Cashmere</b>	PRESERVATIVE	5 4 3 2 1 <1			
PROJECT NUMBER:		STD.			
SAMPLED BY:	REQUESTED ANALYSES	<input type="checkbox"/> OTHER Specify:			
		* Turnaround Requests less than standard may incur Rush Charges.			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
S-DP-54(11-12)	9/13/2013 1219	S	2		
S-DP-54(0.5-1.5)	9/13/13 1208				
S-DP-55(5-6)	9/13/13 1340				
S-DP-60(8-9)	9/13/13 1545				
S-DP-55A(0-1)	9/14/13 1015				
S-DP-60(0-1)	9/13/13 1520				
S-DP-55A(7.5-8.5)	9/13 1007				
S-DP-63(5-6)	9/13/13 1425				
S-DP-63/c					
S-DP-70(0-9)	9/13 1140				
RELEASED BY: <b>EMMA HOGAN</b>	DATE: <b>9/16/13</b>	RECEIVED BY: <b>Phil Svobik-Seror</b>	DATE: <b>9/17/13</b>		
PRINT NAME: <b>EMMA HOGAN</b>	TIME: <b>1700</b>	PRINT NAME: <b>Phil Svobik-Seror</b>	TIME: <b>1030</b>		
RELEASED BY:	DATE:	RECEIVED BY:	DATE:		
PRINT NAME:	TIME:	PRINT NAME:	TIME:		
ADDITIONAL REMARKS:				TEMP: <b>2.8</b>	PAGE OF

TAL-1000 (0612)

1.9  
3.4  
5.3  
R/G-B

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5755 8<sup>th</sup> Street East, Tacoma, WA 98424-1317  
11922 E. First Ave., Spokane WA 99206-5302  
9405 SW Nimbus Ave., Beaverton, OR 97008-7145  
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047  
509-924-9200 FAX 924-9290  
503-906-9200 FAX 906-9210  
907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <b>GEOLINK INC</b>		INVOICE TO: <b>Jodie Lamb</b>		<b>TURNAROUND REQUEST</b>			
REPORT TO: <b>GEI - J. LAMB</b>				in Business Days *			
ADDRESS: <b>SPokane</b>				Organic & Inorganic Analyses			
PHONE: _____ FAX: _____		P.O. NUMBER: _____		<input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small>			
PROJECT NAME:		PRESERVATIVE		<input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small>			
PROJECT NUMBER:		REQUESTED ANALYSES		<input type="checkbox"/> OTHER Specify: _____			
SAMPLED BY:				<small>* Turnaround Requests less than standard may incur Rush Charges.</small>			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	GX w/ Silica	DX w/ Silica	8260	8270	600/700	
1 S-DP-76(2-3)	9/14/13 1426						
2 S-DP-65(6-7)	9/13/13 1645						
3 S-DP-70(13-14)	9/13/13 1145						
4 S-DP-72(6-7)	9/13/13 1153						
5 S-DP-73(3-4)	9/13/13 1108						
6 S-DP-70(1.5-2.5)	9/13/13 1135						
7 S-DP-73(8-9)	9/13/13 1108						
8 S-DP-72(3-4)	9/13/13 1158						
9 S-DP-75(5-6)	9/13/13 1545						
10 S-DP-75A(5-6)	9/14/13 1037						
RELEASED BY: <b>EMMA HOGAN</b>	FIRM: <b>GEI</b>	DATE: <b>9/16/13</b>	TIME: _____	RECEIVED BY: <b>Phil Stoltz</b>	FIRM: <b>TAF</b>	DATE: <b>9/17/13</b>	TIME: <b>1030</b>
RELEASED BY:	FIRM:	DATE:	TIME:	RECEIVED BY:	FIRM:	DATE:	TIME:
ADDITIONAL REMARKS: <b>GX &amp; DX w/ Silica Gel cleanup; 600/700: As, Ba, Cd, Cr, Pb, Hg, Se, Ag</b>							TEMP: _____
							PAGE OF

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THE LEADER IN ENVIRONMENTAL TESTING

5755 8<sup>th</sup> Street East, Tacoma, WA 98424-1317  
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9405 SW Nimbus Ave., Beaverton, OR 97008-7145  
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047  
509-924-9200 FAX 924-9290  
503-906-9200 FAX 906-9210  
907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <b>GEI</b>		INVOICE TO: <b>J. LAMB</b>		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.						
REPORT TO: <b>J. LAMB</b>		P.O. NUMBER:								
ADDRESS:		PRESERVATIVE		MATRIX (W, S, O)						
PHONE: FAX:		REQUESTED ANALYSES		# OF CONT.						
PROJECT NAME: <b>Cashmere</b>		EPA 8260		LOCATION/ COMMENTS						
PROJECT NUMBER:		EPA 8270		TA WO ID						
SAMPLED BY:		EPA 600/7000								
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Glycol Silica	-Dx w/ Silica	EPA 8260	EPA 8270	EPA 600/7000				
1 SDP-75(0-1)	9/13/13 1538							S	2	
2 SDP-81(6-7)	9/14/13 1411									
3 SDP-83(5-6)	9/13/13 1525									
4 S-DP-72(6-7)	9/13/13 1153									
5 N-DP-78(5-55)	9/13/13 1652									
6 S-DP-87(1.5-2.5)	9/14/13 1454									
7 S-DP-80(12-13)	9/13/13 1615									
8 S-DP-83(0-1)	9/13/13 1570									
9 S-DP-80(8-9)	9/13/13 1557									
10 S-DP-84(0-1)	9/14/13 1540									
RELEASED BY: <b>EUNIA HOGAN</b>	FIRM: <b>GEI</b>	DATE: <b>9/16/13</b>	TIME: <b>1700</b>	RECEIVED BY:	PRINT NAME:	FIRM:	DATE:	TIME:	TEMP:	PAGE OF
RELEASED BY:	FIRM:	DATE:	TIME:	RECEIVED BY:	PRINT NAME:	FIRM:	DATE:	TIME:		
ADDITIONAL REMARKS: <b>-Gx 9 -Dx w/ Silica Gel Cleanup; 6000/7000: As, Ba, Cd, Cr, Pb, Hg, Se, Ag</b>										

4

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8<sup>th</sup> Street East, Tacoma, WA 98424-1317  
 11922 E. First Ave., Spokane WA 99206-5302  
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 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047  
 509-924-9200 FAX 924-9290  
 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

12/17/2013

## CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <u>GEOLING/INTERS INC.</u>		INVOICE TO: <u>JACK LAMBS</u>		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses STD. <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: _____ * Turnaround Requests less than standard may incur Rush Charges.						
REPORT TO: <u>J. LAMBS</u>		P.O. NUMBER: _____								
ADDRESS: <u>523 E. 2ND AVE, SPOKANE, WA 99202</u>										
PHONE: <u>509 363 3125</u> FAX: _____										
PROJECT NAME:		PRESERVATIVE								
PROJECT NUMBER:		REQUESTED ANALYSES								
SAMPLED BY: <u>ERIN VAULT</u>										
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	<u>10/15/13</u>	<u>10/15/13</u>	<u>EPA 600/700</u>	<u>EPA 8260</u>	<u>EPA 8270</u>	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 N-DP-11(10-11)	9/14/13 1305						S	2		
2 N-DP-5(6.5-7.5)	9/14/13 1105									
3 N-DP-13(1-2)	9/14/13 1310									
4 N-DP-11(1.5-2.5)	9/14/13 1250									
5 N-DP-24(1-2)	9/14/13 1227									
6 N-DP-39(7-8)	9/14/13 1130									
7 N-DP-13(12-13)	9/14/13 1317									
8 S-DP-52(0.5-1.5)	9/14/13 0935									
9 S-DP-54(6.5-7.5)	9/13/13 1213									
10 N-DP-38(1-2)	9/14/13 1212									
RELEASED BY: <u>ELIYA HOGAN</u>	FIRM: <u>GEI</u>	DATE: <u>9/16/13</u>	TIME: <u>1700</u>	RECEIVED BY: <u>Phil M. Quinn</u>	DATE: <u>9/17/13</u>	TIME: <u>1030</u>				
RELEASED BY:	FIRM:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:				
PRINT NAME:	FIRM:	DATE:	TIME:	PRINT NAME:	DATE:	TIME:				
ADDITIONAL REMARKS: <u>Use Silica-Gel Cleanup w/ -Dx &amp; -Gx; EPA 600/700 includes As, Ba, Cd, Cr, Pb, Hg, Se, Ag</u>									TEMP:	<u>5</u>
										PAGE 5 OF

Page 101 of 113

TestAmerica Portland

9405 SW Nimbus Avenue

Beaverton, OR 97008

phone 503.906.9200 fax 503.906.9210

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact		Project Manager: <b>JUDIE LAMB</b>		Site Contact: <b>Eliya Hogan</b>		Date: <b>09/14/2013</b>		COC No:			
Your Company Name here <b>GREENENGINEERS: J. LAMB</b>		Tel/Fax: <b>509 363 3125</b>		Lab Contact:		Carrier:		1 of 4 COCs			
Address <b>523 E 2nd Ave</b>		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS/MSD (Y/N) <b>NWTPH - Gx w/ Silica Cleanup</b> <b>NWTPH - Dx w/ Silica Cleanup</b> <b>EPA 6000/7000 Metals</b> <b>EPA 8260 VOCs</b> <b>EPA 8270 SVOCs</b>		For Lab Use Only:		Walk-in Client:			
City/State/Zip <b>SPokane, WA 99202</b>		<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS				Lab Sampling:		Job / SDG No.:		Sampler: <b>ERH/KAH</b>	
(xxx) xxx-xxxx Phone <b>509 363 3125</b>		TAT if different from Below _____				Sample Specific Notes:		Random MS/MSD			
(xxx) xxx-xxxx FAX <b>509 363 3126</b>		<input type="checkbox"/> 2 weeks									
Project Name: <b>Cashmere Former Mill Site</b>		<input checked="" type="checkbox"/> 1 week									
Site: <b>Cashmere Former Mill Site</b>		<input type="checkbox"/> 2 days									
PO #		<input type="checkbox"/> 1 day									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)			
S-DP-52 (6.5-7.5)		9/14/13	0947	G	S	2	X	X			
S-DP-55 (0.5-1.5)		9/13/13	1335		S	2	X	X			
S-DP-55A (10-11)		9/14/13	1003		S	2	X	X			
SDR 1B (6-6.5)		↓	1015		S	2	X	X			
S-DP-65 (4-5)		9/13/13	1642		S	2	X	X			
S-DP-75A (2-3)		9/14/13	1028		S	2	X	X			
S-DP-76 (5-6)		↓	1438		S	2	X	X			
S-DP-78 (0-1)		9/13/13	1651		S	2	X	X			
S-DP-80 (2-3)		↓	1557		S	2	X	X			
S-DP-81 (2-2.5)		9/14/13	1355		S	2	X	X	X		
S-DP-82 (7.5-8.5)		9/13/13	1255		S	2	X	X			
					S	2					
Preservation Used: 1=Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							Sample Disposal (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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input checked="" type="checkbox"/> Archive for <u>1</u> Months				
Special Instructions/QC Requirements & Comments: <b>EPA 6000/7000 includes: As, Ba, Cd, Cr, Pb, Hg, Se, Ag</b> <b>Use silica gel cleanup for -Gx and -Dx analyses</b>											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp (°C):		Obs'd:		Corr'd:		Therm ID No.:	
Relinquished by: <b>Eliya Hogan</b>		Company: <b>GEI</b>		Date/Time: <b>9/16 1700</b>		Received by: <b>M. [Signature]</b>		Company: <b>TAP</b>		Date/Time: <b>9/17/13 @ 1030</b>	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:		Date/Time:	



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THE LEADER IN ENVIRONMENTAL TESTING

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 509-924-9200 FAX 924-9290  
 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <b>GEI ENGINEERS, INC</b>		INVOICE TO: <b>Jodie Lamb</b>					<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses 10 7 5 4 3 2 1 <1 STD. Petroleum Hydrocarbon Analyses 5 4 3 2 1 <1 STD. OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.								
REPORT TO: <b>J. LAMB</b> ADDRESS: <b>523 E. 2ND AVE SPokane, WA 99202</b>		P.O. NUMBER: <b>?</b>													
PHONE: <b>509-363-3125</b> FAX:		PRESERVATIVE													
PROJECT NAME: <b>CASHMORE FARMER MUN SITE</b>		REQUESTED ANALYSES													
PROJECT NUMBER: <b>18593-001-02</b>															
SAMPLED BY: <b>ERT &amp; KAH</b>															
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NWTPH -GX	W/SILICA	NWTPH -DX	W/SILICA	EPA-METHODS 6000/7000	EPA VOCs 8260	EPA SVCS 8270				MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 S-DP-83 (9-10)	9/13/13 1530	X	X									S	2		
2 S-DP-84 (6.5-7.5)	9/14/13 1540	X	X												
3 S-DP-85 (7.5-8.5)	9/13/13 1455	X	X												
4 S-DP-87 (5-6)	9/14/13 1456	X	X												
5 S-DP-88 (4-5)	9/13/13 1723	X	X			X	X	X							
6 S-DP-86 (3.5-4.5)	9/13/13 1642	X	X												
7 S-DP-93 (5-6)	9/14/13 0852	X	X												
8 S-DP-94 (5-6)	9/14/13 1535	X	X												
9 S-DP-95 (3-4)	9/13/13 1654	X	X												
10 S-DP-96 (7-8)	9/13/13 1635	X	X												
RELEASED BY: <b>ELIYA HOGAN</b> FIRM: <b>GEI</b>		DATE: <b>9/16/2013</b>		RECEIVED BY: <b>Phit Svabir - GEI</b> FIRM: <b>TAP</b>		DATE: <b>9/17/13</b>									
PRINT NAME:		TIME:		PRINT NAME:		TIME: <b>1030</b>									
RELEASED BY:		DATE:		RECEIVED BY:		DATE:									
PRINT NAME:		TIME:		PRINT NAME:		TIME:									
ADDITIONAL REMARKS: <b>Use Silica gel cleanup w/-Dx &amp; -Gx analyses; EPA 6000/7000 Series includes: As, Ba, Cd, Cr, Pb, Hg, Se, Ag</b>												TEMP:		PAGE <b>3</b> OF <b>4</b>	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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509-924-9200 FAX 924-9290  
503-906-9200 FAX 906-9210  
907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <b>GEOTECHNICALS INC</b>		INVOICE TO: <b>J. LAMB</b>		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.			
REPORT TO: <b>J. LAMB (GEOTECH)</b> ADDRESS: <b>523 E 2ND AVE, SPOKANE, WA</b>		P.O. NUMBER: <b>1</b>					
PHONE: <b>509 363 3125</b> FAX:		PROJECT NAME: <b>FARMER CATTLE RUM SITE</b>		PRESERVATIVE			
PROJECT NUMBER:		REQUESTED ANALYSES					
SAMPLED BY: <b>ERTH/KAH</b>							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Gx w/ Silica	-Dx w/ Silica	0260	0270	600/700	
1 S-DP-96(1.5-2.5)	9/13/13 1630						
2 S-DP-82(9-10)	9/13/13 1255						
3 S-DP-94(2-2.5)	9/14/13 1533						
4 S-DP-86(5-5.5)	9/1 1617						
5 S-DP-83(12-13)	9/13/13 1505						
6 S-DP-85(0.5-1.5)	9/13/13 1450						
7 S-DP-88(7-8)	9/13/13 1725						
8 S-DP-99(8-9)	9/14/13 1426						
9 S-DP-82(0.5-1.5)	9/13/13 1250						
10 S-DP-95(6-7)	9/13/13 1655						
RELEASED BY: <b>EMMA HOGAN</b> FIRM: <b>GEI</b>	DATE: <b>9/16/13</b>	RECEIVED BY: <b>Phil Swab</b>	DATE: <b>9/17/13</b>				
PRINT NAME: <b>EMMA HOGAN</b>	TIME: <b>1700</b>	PRINT NAME: <b>Phil Swab - Sec</b>	TIME: <b>1030</b>	FIRM: <b>TRF</b>			
RELEASED BY:	DATE:	RECEIVED BY:	DATE:				
PRINT NAME:	TIME:	PRINT NAME:	TIME:	FIRM:			
ADDITIONAL REMARKS: <b>Gx &amp; -Dx w/ Silica Gel Cleanup; 600/700: As, Ba, Cd, Cr, Pb, Hg, Se, Ag</b>							TEMP:
							PAGE OF



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509-924-9200 FAX 924-9290  
503-906-9200 FAX 906-9210  
907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <b>GEOTECHNICALS</b>		INVOICE TO: <b>J. LAMB</b>		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.						
REPORT TO: <b>J. LAMB</b> ADDRESS: <b>523 E 2ND AVE SPOKANE, WA 99202</b> PHONE: <b>509 363 3125</b> FAX:		P.O. NUMBER: <b>?</b>								
PROJECT NAME: <b>CASHMERE FORMER MILL SITE</b>		PRESERVATIVE								
PROJECT NUMBER: <b>18593-001-02</b>		REQUESTED ANALYSES								
SAMPLED BY: <b>ERH and KAH</b>										
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NMTPH-GX w/ Silica gel Cleanup	NMTPH-DX w/ Silica gel Cleanup	EPA Method 8000/7000 Series	EPA VOCs 8260	EPA SVOCs 8270	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 S-DP-97 (2-3)	9/13/13 1635	✓	✓	✓	✓	✓	S	2		
2 S-DP-98 (1-1.5)	↓ 1713	✓	✓				S	2		
3 S-DP-99 (3-4)	9/14/13 1426	✓	✓				S	2		
4 S-DP-100 (5-6)	9/13/13 0834	✓	✓				S	2		
5 S-DP-101 (3-3.5)	9/14/13 0857	✓	✓				S	2		
6 N-DP3A (5-6)	9/14/13 1100	✓	✓				S	2		
7 N-DP-3B (10-11)	9/14/13 1144	✓	✓				S	2		
8 N-DP-11 (5-6)	9/14/13 1300	✓	✓				S	2		
9 N-DP-13 (6-7)	9/14/13 1315	✓	✓				S	2		
10 N-DP-24 (7-8)	9/14/13 1230	✓	✓				S	2		
RELEASED BY: <b>EMMA HOGAN</b>	FIRM: <b>GET</b>	DATE: <b>9/16/13</b>	TIME: <b>1700</b>	RECEIVED BY: <b>Phil Steinhilber</b>	FIRM: <b>TRP</b>	DATE: <b>9/17/13</b>	TIME: <b>1030</b>			
RELEASED BY:	FIRM:	DATE:	TIME:	RECEIVED BY:	FIRM:	DATE:	TIME:			
ADDITIONAL REMARKS: <b>Use Silica Gel Cleanup w/ Gx 3-Dx analyses; EPA 6000/7000 Series includes: As, Ba, Cd, Cr, Pb, Hg, Se, Ag</b>										TEMP:
										PAGE 2 OF 4

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 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

12/17/2013

## CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <b>GeoEngineers</b>		INVOICE TO: <b>JADIE LAMB</b>					<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses STD. <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses STD. <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 OTHER Specify:							
REPORT TO: <b>J. LAMB</b> ADDRESS: <b>523 E. 2ND AVE</b>		P.O. NUMBER:												
PHONE: <b>5093633128</b> FAX:		PROJECT NAME: <b>Cashmere</b>					* Turnaround Requests less than standard may incur Rush Charges. MATRIX (W, S, O) # OF CONT. LOCATION/ COMMENTS TA WO ID							
PROJECT NUMBER:		PRESERVATIVE												
SAMPLED BY:		REQUESTED ANALYSES					↓ ↓ S - Z							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	-GX	-DX	0260	0270	6000/7000								
1 S-DP-97 (13-14)	9/13/13 1645													
2 N-DP-3A (1.5-2.5)	9/14/13 1050													
3 N-DP-3B (1.5-2.5)	9/14/13 1130													
4 S-DP-100 (0-1)	9/13/13 0831													
5 N-DP-3B (5-6)	9/14/13 1136													
6 N-DP-3A (10-11)	9/14/13 1107													
7 S-DP-101 (7-7.5)	9/14/13 0908													
8 S-DP-1B (1-2)	9/14/13 0959													
9 S-DP-93 (1-2)	9/14/13 0849													
10 S-DP-90 (5-6)	9/13/13 1721													
RELEASED BY: <b>Erin Hogan</b>	FIRM: <b>GEI</b>	DATE: <b>9/16/13</b>	TIME: <b>1700</b>	RECEIVED BY: <b>Phil Swabik-Secor</b>	FIRM: <b>TRP</b>	DATE: <b>9/17/13</b>	TIME: <b>1030</b>							
RELEASED BY:	FIRM:	DATE:	TIME:	RECEIVED BY:	FIRM:	DATE:	TIME:							
ADDITIONAL REMARKS: <b>Silver bel cleanup w/ -DX &amp; GX; 6000/7000: As, Ba, Cd, Cr, Pb, Hg, Se, Ag</b>							TEMP:	PAGE	OF					

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

12/17/2013

## CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <u>GEI ENGINEERS, INC</u>		INVOICE TO:		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses STD. <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses STD. <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 OTHER Specify:			
REPORT TO: <u>J. LAMB</u>		ADDRESS: <u>523 E. 2ND AVE</u> <u>SPOKANE, WA 99202</u>					
PHONE: <u>509-363-3125</u>		P.O. NUMBER:		* Turnaround Requests less than standard may incur Rush Charges.			
PROJECT NAME: <u>FORMER CASHMERE MILLS SITE</u>		PRESERVATIVE		MATRIX (W, S, O)    # OF CONT.    LOCATION/ COMMENTS    TA WO ID			
PROJECT NUMBER: <u>10593-001-02</u>		REQUESTED ANALYSES					
SAMPLED BY: <u>ELI and KAH</u>							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NMTA -GX W/ SILEX	NMTA -DX W/ SILEX	EPA-VOCMS 6000/7000	EPA VOC 8260	EPA-SVCS 8270	
1 N-DP-38 (6.5-7) 9/14/13 1224		✓	✓				S-2
2 <del>N-DP-39 (8-8)</del>		<del>✓</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>	<del>✓</del>	
3 N-DP-51 (2-3) 9/14/13 1056		✓	✓				
4 S-DP-84 (10-11) 9/14/13 1548		✓	✓				
5 S-DP-97 (8-9) 9/13/13 1640		✓	✓				
6 N-DP-39 (2-3) 9/14/13 1125		✓	✓	✓	✓	✓	
7							
8							
9							
10							
RELEASED BY: <u>ELIYA HOGAN</u>	FIRM: <u>GEI</u>	DATE: <u>9/16/2013</u>	TIME: <u>1700</u>	RECEIVED BY: <u>Phil Strick-Seror</u>	FIRM: <u>TAP</u>	DATE: <u>9/17/13</u>	TIME: <u>1030</u>
ADDITIONAL REMARKS: <u>Use Alcoa gel cleanup for -GX &amp; -DX analyser; EPA 6000/7000 includes: As, Ba, Cd, Cr, Pb, Hg, Se, Ag</u>							

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## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14195-1

SDG Number: 18593-001-02

**Login Number: 14195**

**List Number: 1**

**Creator: Svabik-Seror, Philip M**

**List Source: TestAmerica Portland**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	Info for second S-DP-63 taken from container label.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Received broken. Transferred to new containers with minimal or no sample loss.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14195-1

SDG Number: 18593-001-02

**Login Number: 14195**

**List Number: 1**

**Creator: Collins, Janice S**

**List Source: TestAmerica Denver**

**List Creation: 09/20/13 05:44 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14195-1

SDG Number: 18593-001-02

**Login Number: 14195**

**List Number: 2**

**Creator: Roman, Alex F**

**List Source: TestAmerica Denver**

**List Creation: 10/02/13 04:49 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	False	HT EXCEEDED
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14195-1

SDG Number: 18593-001-02

**Login Number: 14195**

**List Number: 1**

**Creator: Buckingham, Paul**

**List Source: TestAmerica Nashville**

**List Creation: 10/11/13 11:48 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	False	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14195-1

SDG Number: 18593-001-02

**Login Number: 14195**

**List Number: 1**

**Creator: Blankinship, Tom X**

**List Source: TestAmerica Seattle**

**List Creation: 10/03/13 11:45 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	MeOH containers are to be delivered tomorrow for VPH.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14195-1

SDG Number: 18593-001-02

**Login Number: 14195**

**List Number: 2**

**Creator: Balles, Racheal M**

**List Source: TestAmerica Seattle**

**List Creation: 10/04/13 12:41 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR=5.8/5.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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<b>Project:</b>	Port of Chelan County – 2013 Cashmere Mill Data Gap Assessment – Test Pit and Surface Water Data
<b>GEI File No:</b>	18593-001-02
<b>Date:</b>	January 21, 2014

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## GENERAL

This report presents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of soil and water samples obtained from test pits and surface water samples at the Former Cashmere Mill Site located in Cashmere, Washington.

### Objective and Quality Control (QC) Elements

The objective of the data quality assessment was to review laboratory analytical procedures and QC results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide quantitation limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The laboratory data was reviewed for the following QC elements:

- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory and Field Duplicates

### Chemical Analysis Performed

The soil and water samples obtained during the sampling event were submitted to TestAmerica Laboratories, Incorporated (TestAmerica) of Spokane, WA for one or more of the following analyses:

- Volatile Organic Compounds (VOCs) by Method SW8260;
- Semi-volatile Organic Compounds (SVOCs) by Method SW8270;

- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Gasoline-Range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Volatile Petroleum Hydrocarbons (NWTPH/VPH) by Method NWTPH/VPH;
- Extractable Petroleum Hydrocarbons (NWTPH/EPH) by Method NWTPH/EPH;
- Metals (Total and Dissolved) by Methods SW200.7 and SW7471/SW245.1;
- Specific Conductivity by Method EPA120.1;
- Total Alkalinity by Method SM2320; and
- pH by Method SM4500H+B

#### **TestAmerica Sample Delivery Groups (SDGs)**

The following laboratory SDGs were delivered by TestAmerica and were reviewed by GeoEngineers for the QC elements listed above:

- SWK0096
- SWL0120

#### **DATA QUALITY ASSESSMENT SUMMARY**

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in two USEPA documents: USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (USEPA, 2010) and USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 2008).

##### **Chain-of-Custody Documentation**

Chain-of-custody forms were provided with the laboratory analytical reports. No transcription errors were found and the appropriate signatures were applied. The samples were transported to the laboratory at the appropriate temperatures of between 2 and 6 degrees Celsius. There were no anomalies mentioned in the sample receipt forms.

##### **Holding Times and Sample Preservation**

The holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria and sample preservation exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Recommended holding time and sample preservation was met for all analyses, with the following exception:

- SDG SWK0096: (pH) The 15-minute holding time for pH in Samples Upstream-111313, Midstream-111313, and Downstream-111313 was not met. The results for pH were qualified as estimated (J) in these samples.

(Metals) The 28-day holding time for mercury in Samples SDP101-TP2(3.5), SDP101-TP3(3), SDP101-TP1(3), SDP101-TP4(3), and SDP101-TP5(2.5) was not met. The reporting limits for mercury were qualified as estimated (UJ) in these samples.

### Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added at a known concentration and percent recoveries (%R) are calculated following analysis. All surrogate recoveries for field samples were within the laboratory control limits, with the following exception:

- SDG SWK0096: (NWTPH/EPH) The %R values for surrogate 1-chlorooctadecane were less than the control limits in Samples SDP75A-TP2a(2) and SDP75A-TP5(3). The positive results and reporting limits for C8-C10, C10-C12, and C12-C16 aliphatics were qualified as estimated (J/UJ) in these samples.

### Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest into project samples. Method blanks were analyzed with each batch of samples, at a frequency of one per twenty samples. In cases where target analytes are qualified as non-detected because of blank contamination, the new reporting limit is elevated to the level of the former concentration reported in the sample. No method blank detections above the reporting limit were reported by the testing laboratory.

### Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery (%R) is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result value from the MS and MSD, the relative percent difference (RPD) is calculated. The %R control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the %R/RPD values were within the proper control limits, with the following exceptions:

- SDG SWK0096: (NWTPH-Dx) The laboratory performed an MS with a %R outlier, however, it was performed on a sample that was associated with another client of the laboratory and not any of the project samples collected by GeoEngineers. Therefore, no action was required for this outlier.

(Total and Dissolved Metals) The laboratory performed an MS/MSD sample set with a %R outlier, however, it was performed on a sample that was associated with another client of the laboratory and

not any of the project samples collected by GeoEngineers. Therefore, no action was required for this outlier.

#### **Laboratory Control Samples/Laboratory Control Sample Duplicates**

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The %R control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the %R/RPD values were within the proper control limits.

#### **Laboratory Duplicates**

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limit for soil samples is 50 percent. The RPD control limit for water samples is 35 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exception:

- SDG SWK0096: (Total Metals) The laboratory performed a laboratory duplicate with an RPD outlier, however, it was performed on a sample that was associated with another client of the laboratory and not any of the project samples collected by GeoEngineers. Therefore, no action was required for this outlier.

#### **Field Duplicates**

Field duplicate samples are obtained and analyzed along with the primary project samples. The duplicate samples are analyzed for the same parameters as the associated primary samples. The RPD between the primary and duplicate samples is used to assess sample heterogeneity and laboratory precision, unless one or more of the samples used has a concentration greater than five times the method reporting limit for that sample. In such cases, the absolute difference is used instead of the RPD. The RPD control limit for soil samples is 50 percent. The RPD control limit for water samples is 35 percent.

There were no field duplicate samples collected during this sampling event.

### **OVERALL ASSESSMENT**

The results of this Stage 2A data validation indicate that the laboratory followed the specified analytical methods. The accuracy of the data are acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values, with the exceptions noted above. The precision of the data also are acceptable, as demonstrated by the LCS/LCSD, MS/MSD, laboratory duplicate RPD values, with the exceptions noted above.

Selected data were qualified as follows:

- Estimated because of holding time and surrogate outliers.

However, based on the data quality review, it is our opinion that the analytical data, including data qualified as noted above, are of acceptable quality for their intended use.

## **REFERENCES**

U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," OSWER 9240.1-45, EPA 540-R-10-011. January 2010.

U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," EPA-540-R-08-01. June 2008.

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane  
11922 East 1st. Avenue  
Spokane, WA 99206  
Tel: (509)924-9200

TestAmerica Job ID: SWK0096

Client Project/Site: 18593-001-02

Client Project Description: Cashmere Mill

For:

Geo Engineers - Spokane  
523 East Second Ave.  
Spokane, WA 99202

Attn: Dave Lauder



Authorized for release by:  
12/19/2013 1:59:50 PM

Randee Decker, Project Manager  
(509)924-9200

[Randee.Decker@testamericainc.com](mailto:Randee.Decker@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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# Sample Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWK0096-01	NDP8-TP1(6)	Soil	11/12/13 10:50	11/15/13 13:25
SWK0096-02	NDP8-TP2(6)	Soil	11/12/13 09:06	11/15/13 13:25
SWK0096-03	NDP8-TP3(6)	Soil	11/12/13 08:25	11/15/13 13:25
SWK0096-04	NDP8-TP4(5.5)	Soil	11/12/13 10:20	11/15/13 13:25
SWK0096-05	NDP8-TP5(6.5)	Soil	11/12/13 09:45	11/15/13 13:25
SWK0096-06	SDP14-TP1(2)	Soil	11/12/13 11:25	11/15/13 13:25
SWK0096-07	SDP14-TP2(2)	Soil	11/12/13 11:35	11/15/13 13:25
SWK0096-08	SDP75A-TP1(2.5)	Soil	11/12/13 11:58	11/15/13 13:25
SWK0096-09	SDP75A-TP1a(3)	Soil	11/13/13 07:30	11/15/13 13:25
SWK0096-10	SDP75A-TP2(3)	Soil	11/12/13 12:45	11/15/13 13:25
SWK0096-11	SDP75A-TP2a(2)	Soil	11/13/13 09:20	11/15/13 13:25
SWK0096-12	SDP75A-TP3(2.5)	Soil	11/12/13 12:30	11/15/13 13:25
SWK0096-13	SDP75A-TP4(2)	Soil	11/12/13 12:10	11/15/13 13:25
SWK0096-14	SDP75A-TP5(3)	Soil	11/12/13 13:00	11/15/13 13:25
SWK0096-15	SDP81-TP1(2)	Soil	11/12/13 14:20	11/15/13 13:25
SWK0096-16	SDP81-TP2(2)	Soil	11/12/13 14:07	11/15/13 13:25
SWK0096-17	SDP81-TP3(2)	Soil	11/12/13 13:50	11/15/13 13:25
SWK0096-18	SDP81-TP4(2)	Soil	11/12/13 13:40	11/15/13 13:25
SWK0096-19	SDP88-TP1(3.5)	Soil	11/12/13 15:20	11/15/13 13:25
SWK0096-20	SDP88-TP2(3)	Soil	11/12/13 15:10	11/15/13 13:25
SWK0096-21	SDP88-TP3(4)	Soil	11/12/13 15:05	11/15/13 13:25
SWK0096-22	SDP88-TP4(3)	Soil	11/12/13 15:15	11/15/13 13:25
SWK0096-23	SDP101-TP1(3)	Soil	11/12/13 16:20	11/15/13 13:25
SWK0096-24	SDP101-TP2(3.5)	Soil	11/12/13 16:00	11/15/13 13:25
SWK0096-25	SDP101-TP3(3)	Soil	11/12/13 16:10	11/15/13 13:25
SWK0096-26	SDP101-TP5(2.5)	Soil	11/13/13 09:45	11/15/13 13:25
SWK0096-27	SDP75A-TP3a(2.5)	Soil	11/13/13 07:45	11/15/13 13:25
SWK0096-28	SDP75A-TP1b(2)	Soil	11/13/13 08:20	11/15/13 13:25
SWK0096-29	Upstream-111313	Water	11/13/13 11:30	11/15/13 13:25
SWK0096-30	Midstream-111313	Water	11/13/13 11:15	11/15/13 13:25
SWK0096-31	Downstream-111313	Water	11/13/13 11:05	11/15/13 13:25
SWK0096-32	SDP101-TP4(3)	Soil	11/12/13 16:20	11/15/13 13:25

# Definitions/Glossary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Qualifiers

### GCMS Volatiles

Qualifier	Qualifier Description
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.

### Fuels

Qualifier	Qualifier Description
E	Concentration exceeds the calibration range and therefore result is semi-quantitative.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
M4	The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS).

### Metals

Qualifier	Qualifier Description
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M4	The sample required a dilution due to matrix interference. Because of this dilution, the matrix spike concentrations in the sample were reduced to a level where the recovery calculation does not provide useful information. See Blank Spike (LCS).
H1	Sample analysis performed past the method-specified holding time per client's approval.

### Wet Chem

Qualifier	Qualifier Description
HT-6	EPA requirement to analyze immediately could not be met. pH is a field parameter with a holding time of 15 minutes per 40 CFR Part 136.

### TNAS

Qualifier	Qualifier Description
X	Surrogate is outside control limits

## Glossary

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

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Client Sample ID: NDP8-TP1(6)

Date Collected: 11/12/13 10:50

Date Received: 11/15/13 13:25

## Lab Sample ID: SWK0096-01

Matrix: Soil

Percent Solids: 84.1

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	12.5		12.5		mg/kg dry	☼	11/18/13 10:07	11/21/13 08:43	1.00
Heavy Oil Range Hydrocarbons	ND		31.3		mg/kg dry	☼	11/18/13 10:07	11/21/13 08:43	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	70.4		50 - 150				11/18/13 10:07	11/21/13 08:43	1.00
n-Triacontane-d62	86.6		50 - 150				11/18/13 10:07	11/21/13 08:43	1.00

## Client Sample ID: NDP8-TP2(6)

Date Collected: 11/12/13 09:06

Date Received: 11/15/13 13:25

## Lab Sample ID: SWK0096-02

Matrix: Soil

Percent Solids: 90.1

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		12.8		mg/kg dry	☼	11/18/13 10:07	11/20/13 17:38	1.00
Heavy Oil Range Hydrocarbons	ND		32.1		mg/kg dry	☼	11/18/13 10:07	11/20/13 17:38	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	91.7		50 - 150				11/18/13 10:07	11/20/13 17:38	1.00
n-Triacontane-d62	89.0		50 - 150				11/18/13 10:07	11/20/13 17:38	1.00

## Client Sample ID: NDP8-TP3(6)

Date Collected: 11/12/13 08:25

Date Received: 11/15/13 13:25

## Lab Sample ID: SWK0096-03

Matrix: Soil

Percent Solids: 49.5

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	1230		428		mg/kg dry	☼	11/18/13 10:07	11/21/13 09:06	10.0
Heavy Oil Range Hydrocarbons	10500		1070		mg/kg dry	☼	11/18/13 10:07	11/21/13 09:06	10.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	106		50 - 150				11/18/13 10:07	11/21/13 09:06	10.0
n-Triacontane-d62	106		50 - 150				11/18/13 10:07	11/21/13 09:06	10.0

## Client Sample ID: NDP8-TP4(5.5)

Date Collected: 11/12/13 10:20

Date Received: 11/15/13 13:25

## Lab Sample ID: SWK0096-04

Matrix: Soil

Percent Solids: 72.3

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		17.6		mg/kg dry	☼	11/18/13 10:07	11/20/13 18:21	1.00
Heavy Oil Range Hydrocarbons	87.6		44.1		mg/kg dry	☼	11/18/13 10:07	11/20/13 18:21	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	87.0		50 - 150				11/18/13 10:07	11/20/13 18:21	1.00
n-Triacontane-d62	75.2		50 - 150				11/18/13 10:07	11/20/13 18:21	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: NDP8-TP5(6.5)**

**Lab Sample ID: SWK0096-05**

**Date Collected: 11/12/13 09:45**

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

**Percent Solids: 90.1**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Chloromethane	ND		0.613		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Vinyl chloride	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Bromomethane	ND		0.613		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Chloroethane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Trichlorofluoromethane	ND		0.0368		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,1-Dichloroethene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,1,2-Trichlorotrifluoroethane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Carbon disulfide	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Methylene chloride	ND	C	1.23		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Acetone	ND	C	3.68		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
n-Hexane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
trans-1,2-Dichloroethene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Methyl tert-butyl ether	ND		0.0368		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,1-Dichloroethane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
cis-1,2-Dichloroethene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
2,2-Dichloropropane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Bromochloromethane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Chloroform	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Carbon tetrachloride	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,1,1-Trichloroethane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
2-Butanone	ND	C	1.23		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,1-Dichloropropene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Benzene	ND		0.0184		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,2-Dichloroethane (EDC)	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Trichloroethene	ND		0.0368		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Methylcyclohexane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Dibromomethane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,2-Dichloropropane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Bromodichloromethane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
cis-1,3-Dichloropropene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Toluene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
4-Methyl-2-pentanone	ND		1.23		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
trans-1,3-Dichloropropene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Tetrachloroethene	ND		0.0368		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,1,2-Trichloroethane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Dibromochloromethane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,3-Dichloropropane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,2-Dibromoethane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
2-Hexanone	ND	C	1.23		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Ethylbenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Chlorobenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,1,1,2-Tetrachloroethane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
m,p-Xylene	ND		0.491		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
o-Xylene	ND		0.245		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Styrene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Bromoform	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Isopropylbenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Dichlorofluoromethane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: NDP8-TP5(6.5)**

**Lab Sample ID: SWK0096-05**

**Date Collected: 11/12/13 09:45**

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

**Percent Solids: 90.1**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Propylbenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,1,2,2-Tetrachloroethane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Bromobenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,3,5-Trimethylbenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
2-Chlorotoluene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,2,3-Trichloropropane	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
trans-1,4-Dichloro-2-butene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
4-Chlorotoluene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
tert-Butylbenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,2,4-Trimethylbenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
sec-Butylbenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
p-Isopropyltoluene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,3-Dichlorobenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,4-Dichlorobenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
n-Butylbenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,2-Dichlorobenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,2-Dibromo-3-chloropropane	ND		0.613		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Hexachlorobutadiene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,2,4-Trichlorobenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
Naphthalene	ND		0.245		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
1,2,3-Trichlorobenzene	ND		0.123		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	98.5		42.4 - 163				11/18/13 09:39	11/18/13 12:58	1.00
1,2-dichloroethane-d4	97.1		50 - 150				11/18/13 09:39	11/18/13 12:58	1.00
Toluene-d8	100		45.8 - 155				11/18/13 09:39	11/18/13 12:58	1.00
4-bromofluorobenzene	107		41.5 - 162				11/18/13 09:39	11/18/13 12:58	1.00

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.13		mg/kg dry	☼	11/18/13 09:39	11/18/13 12:58	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	98.5		42.4 - 163				11/18/13 09:39	11/18/13 12:58	1.00
Toluene-d8	100		45.8 - 155				11/18/13 09:39	11/18/13 12:58	1.00
4-bromofluorobenzene	107		41.5 - 162				11/18/13 09:39	11/18/13 12:58	1.00

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		13.4		mg/kg dry	☼	11/18/13 10:07	11/20/13 19:26	1.00
<b>Heavy Oil Range Hydrocarbons</b>	<b>54.1</b>		33.5		mg/kg dry	☼	11/18/13 10:07	11/20/13 19:26	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-FBP	76.8		50 - 150				11/18/13 10:07	11/20/13 19:26	1.00
n-Triacontane-d62	88.9		50 - 150				11/18/13 10:07	11/20/13 19:26	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
1,2-Dichlorobenzene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
1,3-Dichlorobenzene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
 Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: NDP8-TP5(6.5)**

**Lab Sample ID: SWK0096-05**

Date Collected: 11/12/13 09:45

Matrix: Soil

Date Received: 11/15/13 13:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
1-Methylnaphthalene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
2,4,5-Trichlorophenol	ND		0.819		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
2,4,6-Trichlorophenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
2,4-Dichlorophenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
2,4-Dimethylphenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
2,4-Dinitrophenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
2,4-Dinitrotoluene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
2,6-Dinitrotoluene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
2-Chloronaphthalene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
2-Chlorophenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
2-Methylnaphthalene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
2-Methylphenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
2-Nitroaniline	ND		0.819		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
2-Nitrophenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
3 & 4 Methylphenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
3,3'-Dichlorobenzidine	ND		0.655		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
3-Nitroaniline	ND		0.819		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
4,6-Dinitro-2-methylphenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
4-Bromophenyl phenyl ether	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
4-Chloro-3-methylphenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
4-Chloroaniline	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
4-Chlorophenyl phenyl ether	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
4-Nitroaniline	ND		0.819		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
4-Nitrophenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Acenaphthene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Acenaphthylene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Anthracene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Benzo[a]anthracene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Benzo[a]pyrene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Benzo[b]fluoranthene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Benzo[g,h,i]perylene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Benzo[k]fluoranthene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
bis (2-chloroisopropyl) ether	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Bis(2-chloroethoxy)methane	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Bis(2-chloroethyl)ether	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Bis(2-ethylhexyl) phthalate	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Butyl benzyl phthalate	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Carbazole	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Chrysene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Cresols	ND		0.654		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Dibenz(a,h)anthracene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Dibenzofuran	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Diethyl phthalate	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Dimethyl phthalate	ND		1.64		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Di-n-butyl phthalate	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Di-n-octyl phthalate	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Fluoranthene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Fluorene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: NDP8-TP5(6.5)**

**Lab Sample ID: SWK0096-05**

**Date Collected: 11/12/13 09:45**

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Hexachlorobutadiene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Hexachlorocyclopentadiene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Hexachloroethane	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Indeno[1,2,3-cd]pyrene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Isophorone	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Naphthalene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Nitrobenzene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
N-Nitrosodi-n-propylamine	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Pentachlorophenol	ND		0.819		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Phenanthrene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Phenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 20:51	1
Pyrene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		10 - 120	11/20/13 09:07	11/21/13 20:51	1
2-Fluorobiphenyl (Surr)	68		29 - 120	11/20/13 09:07	11/21/13 20:51	1
2-Fluorophenol (Surr)	68		10 - 120	11/20/13 09:07	11/21/13 20:51	1
Nitrobenzene-d5 (Surr)	72		27 - 120	11/20/13 09:07	11/21/13 20:51	1
Phenol-d5 (Surr)	70		10 - 120	11/20/13 09:07	11/21/13 20:51	1
Terphenyl-d14 (Surr)	87		13 - 120	11/20/13 09:07	11/21/13 20:51	1

**Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	ND		4.89		mg/Kg		11/21/13 08:31	11/21/13 17:04	1
C12-C16 Aromatics	ND		4.89		mg/Kg		11/21/13 08:31	11/21/13 17:04	1
C16-C21 Aromatics	ND		4.89		mg/Kg		11/21/13 08:31	11/21/13 17:04	1
C21-C34 Aromatics	ND		4.89		mg/Kg		11/21/13 08:31	11/21/13 17:04	1
C8-C10 Aromatics	ND		4.89		mg/Kg		11/21/13 08:31	11/21/13 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Bromonaphthalene	88		60 - 140	11/21/13 08:31	11/21/13 17:04	1
2-Fluorobiphenyl (Surr)	102		60 - 140	11/21/13 08:31	11/21/13 17:04	1
o-Terphenyl	93		60 - 140	11/21/13 08:31	11/21/13 17:04	1

**Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC - RE1)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		4.89		mg/Kg		11/21/13 08:31	11/21/13 20:35	1
C12-C16 Aliphatics	ND		4.89		mg/Kg		11/21/13 08:31	11/21/13 20:35	1
<b>C16-C21 Aliphatics</b>	<b>5.76</b>		4.89		mg/Kg		11/21/13 08:31	11/21/13 20:35	1
C8-C10 Aliphatics	ND		4.89		mg/Kg		11/21/13 08:31	11/21/13 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	73		60 - 140	11/21/13 08:31	11/21/13 20:35	1

**Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC - RE2)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C21-C34 Aliphatics</b>	<b>38.0</b>		4.89		mg/Kg		11/21/13 08:31	11/22/13 14:22	1

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: NDP8-TP5(6.5)**

**Lab Sample ID: SWK0096-05**

Date Collected: 11/12/13 09:45

Matrix: Soil

Date Received: 11/15/13 13:25

**Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		4.08		mg/Kg		11/20/13 01:08	11/20/13 09:50	1
C10-C12 Aromatics	ND		4.08		mg/Kg		11/20/13 01:08	11/20/13 09:50	1
C12-C13 Aromatics	ND		4.08		mg/Kg		11/20/13 01:08	11/20/13 09:50	1
C5-C6 Aliphatics	ND		4.08		mg/Kg		11/20/13 01:08	11/20/13 09:50	1
C6-C8 Aliphatics	ND		4.08		mg/Kg		11/20/13 01:08	11/20/13 09:50	1
C8-C10 Aliphatics	ND		4.08		mg/Kg		11/20/13 01:08	11/20/13 09:50	1
C8-C10 Aromatics	ND		4.08		mg/Kg		11/20/13 01:08	11/20/13 09:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,5-Dibromotoluene (fid)	106		60 - 140				11/20/13 01:08	11/20/13 09:50	1
2,5-Dibromotoluene (pid)	104		60 - 140				11/20/13 01:08	11/20/13 09:50	1

**Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC) - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 aliphatic (adjusted)	ND		5.00		mg/Kg		11/25/13 14:59	11/25/13 14:59	1
C5-C6 aliphatics (adjusted)	ND		5.00		mg/Kg		11/25/13 14:59	11/25/13 14:59	1
C6-C8 aliphatic (adjusted)	ND		5.00		mg/Kg		11/25/13 14:59	11/25/13 14:59	1
C8-C10 aliphatic (adjusted)	ND		5.00		mg/Kg		11/25/13 14:59	11/25/13 14:59	1

**Client Sample ID: SDP14-TP1(2)**

**Lab Sample ID: SWK0096-06**

Date Collected: 11/12/13 11:25

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 81.3

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	33.5		12.0		mg/kg dry	☼	11/20/13 06:27	11/20/13 20:31	1.00
Heavy Oil Range Hydrocarbons	374		30.0		mg/kg dry	☼	11/20/13 06:27	11/20/13 20:31	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-FBP	105		50 - 150				11/20/13 06:27	11/20/13 20:31	1.00
n-Triacontane-d62	78.7		50 - 150				11/20/13 06:27	11/20/13 20:31	1.00

**Client Sample ID: SDP14-TP2(2)**

**Lab Sample ID: SWK0096-07**

Date Collected: 11/12/13 11:35

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 82.9

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	32.2		17.5		mg/kg dry	☼	11/20/13 06:27	11/20/13 20:53	1.00
Heavy Oil Range Hydrocarbons	222		43.7		mg/kg dry	☼	11/20/13 06:27	11/20/13 20:53	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-FBP	102		50 - 150				11/20/13 06:27	11/20/13 20:53	1.00
n-Triacontane-d62	85.5		50 - 150				11/20/13 06:27	11/20/13 20:53	1.00



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Client Sample ID: SDP75A-TP1(2.5)

Lab Sample ID: SWK0096-08

Date Collected: 11/12/13 11:58

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 86.2

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	187		87.2		mg/kg dry	☼	11/20/13 06:27	11/22/13 10:34	5.00
Heavy Oil Range Hydrocarbons	1020		218		mg/kg dry	☼	11/20/13 06:27	11/22/13 10:34	5.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	102		50 - 150				11/20/13 06:27	11/22/13 10:34	5.00
n-Triacontane-d62	52.0		50 - 150				11/20/13 06:27	11/22/13 10:34	5.00

## Client Sample ID: SDP75A-TP1a(3)

Lab Sample ID: SWK0096-09

Date Collected: 11/13/13 07:30

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 73.7

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	357		207		mg/kg dry	☼	11/20/13 06:27	11/22/13 10:57	10.0
Heavy Oil Range Hydrocarbons	1490		517		mg/kg dry	☼	11/20/13 06:27	11/22/13 10:57	10.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	98.8		50 - 150				11/20/13 06:27	11/22/13 10:57	10.0
n-Triacontane-d62	92.5		50 - 150				11/20/13 06:27	11/22/13 10:57	10.0

## Client Sample ID: SDP75A-TP2(3)

Lab Sample ID: SWK0096-10

Date Collected: 11/12/13 12:45

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 84.3

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	1020		367		mg/kg dry	☼	11/20/13 06:27	11/21/13 09:28	20.0
Heavy Oil Range Hydrocarbons	5640		918		mg/kg dry	☼	11/20/13 06:27	11/21/13 09:28	20.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	102		50 - 150				11/20/13 06:27	11/21/13 09:28	20.0
n-Triacontane-d62	90.3		50 - 150				11/20/13 06:27	11/21/13 09:28	20.0

## Client Sample ID: SDP75A-TP2a(2)

Lab Sample ID: SWK0096-11

Date Collected: 11/13/13 09:20

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 81.7

### Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Chloromethane	ND		0.734		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Vinyl chloride	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Bromomethane	ND		0.734		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Chloroethane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Trichlorofluoromethane	ND		0.0440		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,1-Dichloroethene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,1,2-Trichlorotrifluoroethane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Carbon disulfide	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Methylene chloride	ND	C	1.47		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Acetone	ND	C	4.40		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
n-Hexane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP75A-TP2a(2)**

**Lab Sample ID: SWK0096-11**

**Date Collected: 11/13/13 09:20**

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

**Percent Solids: 81.7**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Methyl tert-butyl ether	ND		0.0440		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,1-Dichloroethane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
cis-1,2-Dichloroethene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
2,2-Dichloropropane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Bromochloromethane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Chloroform	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Carbon tetrachloride	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,1,1-Trichloroethane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
2-Butanone	ND	C	1.47		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,1-Dichloropropene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Benzene	ND		0.0220		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,2-Dichloroethane (EDC)	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Trichloroethene	ND		0.0440		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Methylcyclohexane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Dibromomethane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,2-Dichloropropane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Bromodichloromethane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
cis-1,3-Dichloropropene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Toluene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
4-Methyl-2-pentanone	ND		1.47		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
trans-1,3-Dichloropropene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Tetrachloroethene	ND		0.0440		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,1,2-Trichloroethane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Dibromochloromethane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,3-Dichloropropane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,2-Dibromoethane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
2-Hexanone	ND	C	1.47		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Ethylbenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Chlorobenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,1,1,2-Tetrachloroethane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
m,p-Xylene	ND		0.587		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
o-Xylene	ND		0.294		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Styrene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Bromoform	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Isopropylbenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Dichlorofluoromethane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
n-Propylbenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,1,2,2-Tetrachloroethane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Bromobenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,3,5-Trimethylbenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
2-Chlorotoluene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,2,3-Trichloropropane	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
trans-1,4-Dichloro-2-butene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
4-Chlorotoluene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
tert-Butylbenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,2,4-Trimethylbenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
sec-Butylbenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
p-Isopropyltoluene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP75A-TP2a(2)**

**Lab Sample ID: SWK0096-11**

**Date Collected: 11/13/13 09:20**

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

**Percent Solids: 81.7**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,4-Dichlorobenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
n-Butylbenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,2-Dichlorobenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,2-Dibromo-3-chloropropane	ND		0.734		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Hexachlorobutadiene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,2,4-Trichlorobenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
Naphthalene	ND		0.294		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
1,2,3-Trichlorobenzene	ND		0.147		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	99.1		42.4 - 163				11/18/13 09:39	11/18/13 13:18	1.00
1,2-dichloroethane-d4	94.7		50 - 150				11/18/13 09:39	11/18/13 13:18	1.00
Toluene-d8	99.1		45.8 - 155				11/18/13 09:39	11/18/13 13:18	1.00
4-bromofluorobenzene	108		41.5 - 162				11/18/13 09:39	11/18/13 13:18	1.00

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.34		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:18	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	99.1		42.4 - 163				11/18/13 09:39	11/18/13 13:18	1.00
Toluene-d8	99.1		45.8 - 155				11/18/13 09:39	11/18/13 13:18	1.00
4-bromofluorobenzene	108		41.5 - 162				11/18/13 09:39	11/18/13 13:18	1.00

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	125		88.9		mg/kg dry	☼	11/20/13 06:27	11/22/13 11:20	5.00
Heavy Oil Range Hydrocarbons	890		222		mg/kg dry	☼	11/20/13 06:27	11/22/13 11:20	5.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-FBP	91.4		50 - 150				11/20/13 06:27	11/22/13 11:20	5.00
n-Triacontane-d62	60.4		50 - 150				11/20/13 06:27	11/22/13 11:20	5.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
1,2-Dichlorobenzene	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
1,3-Dichlorobenzene	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
1,4-Dichlorobenzene	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
1-Methylnaphthalene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
2,4,5-Trichlorophenol	ND		0.808		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
2,4,6-Trichlorophenol	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
2,4-Dichlorophenol	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
2,4-Dimethylphenol	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
2,4-Dinitrophenol	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
2,4-Dinitrotoluene	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
2,6-Dinitrotoluene	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
2-Chloronaphthalene	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
2-Chlorophenol	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
2-Methylnaphthalene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP75A-TP2a(2)**

**Lab Sample ID: SWK0096-11**

**Date Collected: 11/13/13 09:20**

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
2-Nitroaniline	ND		0.808		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
2-Nitrophenol	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
3 & 4 Methylphenol	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
3,3'-Dichlorobenzidine	ND		0.647		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
3-Nitroaniline	ND		0.808		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
4,6-Dinitro-2-methylphenol	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
4-Bromophenyl phenyl ether	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
4-Chloro-3-methylphenol	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
4-Chloroaniline	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
4-Chlorophenyl phenyl ether	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
4-Nitroaniline	ND		0.808		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
4-Nitrophenol	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Acenaphthene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Acenaphthylene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Anthracene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Benzo[a]anthracene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Benzo[a]pyrene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Benzo[b]fluoranthene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Benzo[g,h,i]perylene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Benzo[k]fluoranthene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
bis (2-chloroisopropyl) ether	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Bis(2-chloroethoxy)methane	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Bis(2-chloroethyl)ether	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.353</b>		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Butyl benzyl phthalate	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Carbazole	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Chrysene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Cresols	ND		0.646		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Dibenz(a,h)anthracene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Dibenzofuran	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Diethyl phthalate	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Dimethyl phthalate	ND		1.62		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Di-n-butyl phthalate	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Di-n-octyl phthalate	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Fluoranthene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Fluorene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Hexachlorobenzene	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Hexachlorobutadiene	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Hexachlorocyclopentadiene	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Hexachloroethane	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Isophorone	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Naphthalene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Nitrobenzene	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
N-Nitrosodi-n-propylamine	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Pentachlorophenol	ND		0.808		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Phenanthrene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP75A-TP2a(2)**

**Lab Sample ID: SWK0096-11**

Date Collected: 11/13/13 09:20

Matrix: Soil

Date Received: 11/15/13 13:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.323		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Pyrene	ND		0.0650		mg/Kg		11/20/13 09:07	11/21/13 21:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	79		10 - 120				11/20/13 09:07	11/21/13 21:14	1
2-Fluorobiphenyl (Surr)	61		29 - 120				11/20/13 09:07	11/21/13 21:14	1
2-Fluorophenol (Surr)	62		10 - 120				11/20/13 09:07	11/21/13 21:14	1
Nitrobenzene-d5 (Surr)	65		27 - 120				11/20/13 09:07	11/21/13 21:14	1
Phenol-d5 (Surr)	62		10 - 120				11/20/13 09:07	11/21/13 21:14	1
Terphenyl-d14 (Surr)	80		13 - 120				11/20/13 09:07	11/21/13 21:14	1

**Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	ND		4.92		mg/Kg		11/21/13 08:31	11/21/13 17:34	1
C12-C16 Aromatics	ND		4.92		mg/Kg		11/21/13 08:31	11/21/13 17:34	1
<b>C16-C21 Aromatics</b>	<b>16.3</b>		4.92		mg/Kg		11/21/13 08:31	11/21/13 17:34	1
C8-C10 Aromatics	ND		4.92		mg/Kg		11/21/13 08:31	11/21/13 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Bromonaphthalene	73		60 - 140				11/21/13 08:31	11/21/13 17:34	1
2-Fluorobiphenyl (Surr)	98		60 - 140				11/21/13 08:31	11/21/13 17:34	1
o-Terphenyl	97		60 - 140				11/21/13 08:31	11/21/13 17:34	1

**Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC - RE1)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		4.92		mg/Kg		11/21/13 08:31	11/21/13 21:05	1
<b>C12-C16 Aliphatics</b>	<b>17.1</b>		4.92		mg/Kg		11/21/13 08:31	11/21/13 21:05	1
C8-C10 Aliphatics	ND		4.92		mg/Kg		11/21/13 08:31	11/21/13 21:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	55	X	60 - 140				11/21/13 08:31	11/21/13 21:05	1

**Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC - RE2)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C21-C34 Aromatics</b>	<b>142</b>		24.6		mg/Kg		11/21/13 08:31	11/22/13 10:50	5

**Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC - RE3)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C16-C21 Aliphatics</b>	<b>136</b>		24.6		mg/Kg		11/21/13 08:31	11/22/13 14:52	5

**Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC - RE4)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C21-C34 Aliphatics</b>	<b>1280</b>		197		mg/Kg		11/21/13 08:31	11/22/13 15:22	40

**Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		4.74		mg/Kg		11/20/13 01:08	11/20/13 10:23	1
C10-C12 Aromatics	ND		4.74		mg/Kg		11/20/13 01:08	11/20/13 10:23	1
C12-C13 Aromatics	ND		4.74		mg/Kg		11/20/13 01:08	11/20/13 10:23	1
C5-C6 Aliphatics	ND		4.74		mg/Kg		11/20/13 01:08	11/20/13 10:23	1
C6-C8 Aliphatics	ND		4.74		mg/Kg		11/20/13 01:08	11/20/13 10:23	1
C8-C10 Aliphatics	ND		4.74		mg/Kg		11/20/13 01:08	11/20/13 10:23	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Client Sample ID: SDP75A-TP2a(2)

Lab Sample ID: SWK0096-11

Date Collected: 11/13/13 09:20

Matrix: Soil

Date Received: 11/15/13 13:25

### Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C8-C10 Aromatics	ND		4.74		mg/Kg		11/20/13 01:08	11/20/13 10:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,5-Dibromotoluene (fid)	105		60 - 140				11/20/13 01:08	11/20/13 10:23	1
2,5-Dibromotoluene (pid)	105		60 - 140				11/20/13 01:08	11/20/13 10:23	1

### Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC) - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 aliphatic (adjusted)	ND		5.00		mg/Kg		11/25/13 14:59	11/25/13 14:59	1
C5-C6 aliphatics (adjusted)	ND		5.00		mg/Kg		11/25/13 14:59	11/25/13 14:59	1
C6-C8 aliphatic (adjusted)	ND		5.00		mg/Kg		11/25/13 14:59	11/25/13 14:59	1
C8-C10 aliphatic (adjusted)	ND		5.00		mg/Kg		11/25/13 14:59	11/25/13 14:59	1

## Client Sample ID: SDP75A-TP3(2.5)

Lab Sample ID: SWK0096-12

Date Collected: 11/12/13 12:30

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 84.4

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	22.0		16.1		mg/kg dry	☼	11/20/13 06:27	11/21/13 00:08	1.00
Heavy Oil Range Hydrocarbons	89.4		40.3		mg/kg dry	☼	11/20/13 06:27	11/21/13 00:08	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-FBP	102		50 - 150				11/20/13 06:27	11/21/13 00:08	1.00
n-Triacontane-d62	94.1		50 - 150				11/20/13 06:27	11/21/13 00:08	1.00

## Client Sample ID: SDP75A-TP4(2)

Lab Sample ID: SWK0096-13

Date Collected: 11/12/13 12:10

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 87

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		15.3		mg/kg dry	☼	11/20/13 06:27	11/21/13 00:29	1.00
Heavy Oil Range Hydrocarbons	ND		38.3		mg/kg dry	☼	11/20/13 06:27	11/21/13 00:29	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-FBP	108		50 - 150				11/20/13 06:27	11/21/13 00:29	1.00
n-Triacontane-d62	92.6		50 - 150				11/20/13 06:27	11/21/13 00:29	1.00

## Client Sample ID: SDP75A-TP5(3)

Lab Sample ID: SWK0096-14

Date Collected: 11/12/13 13:00

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 88.4

### Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Chloromethane	ND		0.626		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Vinyl chloride	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Bromomethane	ND		0.626		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Chloroethane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Trichlorofluoromethane	ND		0.0375		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP75A-TP5(3)**

**Lab Sample ID: SWK0096-14**

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

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

**Percent Solids: 88.4**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,1,2-Trichlorotrifluoroethane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Carbon disulfide	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Methylene chloride	ND	C	1.25		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Acetone	ND	C	3.75		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
n-Hexane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
trans-1,2-Dichloroethene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Methyl tert-butyl ether	ND		0.0375		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,1-Dichloroethane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
cis-1,2-Dichloroethene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
2,2-Dichloropropane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Bromochloromethane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Chloroform	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Carbon tetrachloride	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,1,1-Trichloroethane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
2-Butanone	ND	C	1.25		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,1-Dichloropropene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Benzene	ND		0.0188		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,2-Dichloroethane (EDC)	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Trichloroethene	ND		0.0375		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Methylcyclohexane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Dibromomethane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,2-Dichloropropane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Bromodichloromethane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
cis-1,3-Dichloropropene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Toluene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
4-Methyl-2-pentanone	ND		1.25		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
trans-1,3-Dichloropropene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Tetrachloroethene	ND		0.0375		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,1,2-Trichloroethane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Dibromochloromethane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,3-Dichloropropane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,2-Dibromoethane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
2-Hexanone	ND	C	1.25		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Ethylbenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Chlorobenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,1,1,2-Tetrachloroethane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
m,p-Xylene	ND		0.500		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
o-Xylene	ND		0.250		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Styrene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Bromoform	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Isopropylbenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Dichlorofluoromethane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
n-Propylbenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,1,2,2-Tetrachloroethane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Bromobenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,3,5-Trimethylbenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
2-Chlorotoluene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,2,3-Trichloropropane	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP75A-TP5(3)**

**Lab Sample ID: SWK0096-14**

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

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

**Percent Solids: 88.4**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
4-Chlorotoluene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
tert-Butylbenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,2,4-Trimethylbenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
sec-Butylbenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
p-Isopropyltoluene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,3-Dichlorobenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,4-Dichlorobenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
n-Butylbenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,2-Dichlorobenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,2-Dibromo-3-chloropropane	ND		0.626		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Hexachlorobutadiene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,2,4-Trichlorobenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
Naphthalene	ND		0.250		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00
1,2,3-Trichlorobenzene	ND		0.125		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		42.4 - 163	11/18/13 09:39	11/18/13 13:38	1.00
1,2-dichloroethane-d4	97.2		50 - 150	11/18/13 09:39	11/18/13 13:38	1.00
Toluene-d8	98.7		45.8 - 155	11/18/13 09:39	11/18/13 13:38	1.00
4-bromofluorobenzene	122		41.5 - 162	11/18/13 09:39	11/18/13 13:38	1.00

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	11.6		6.26		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:38	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		42.4 - 163	11/18/13 09:39	11/18/13 13:38	1.00
Toluene-d8	98.7		45.8 - 155	11/18/13 09:39	11/18/13 13:38	1.00
4-bromofluorobenzene	122		41.5 - 162	11/18/13 09:39	11/18/13 13:38	1.00

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	794		338		mg/kg dry	☼	11/20/13 06:27	11/21/13 09:51	20.0
Heavy Oil Range Hydrocarbons	4370		844		mg/kg dry	☼	11/20/13 06:27	11/21/13 09:51	20.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	105		50 - 150	11/20/13 06:27	11/21/13 09:51	20.0
n-Triacontane-d62	124		50 - 150	11/20/13 06:27	11/21/13 09:51	20.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
1,2-Dichlorobenzene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
1,3-Dichlorobenzene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
1,4-Dichlorobenzene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
1-Methylnaphthalene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
2,4,5-Trichlorophenol	ND		0.817		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
2,4,6-Trichlorophenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
2,4-Dichlorophenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
2,4-Dimethylphenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP75A-TP5(3)**

**Lab Sample ID: SWK0096-14**

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

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
2,4-Dinitrotoluene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
2,6-Dinitrotoluene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
2-Chloronaphthalene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
2-Chlorophenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
2-Methylnaphthalene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
2-Methylphenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
2-Nitroaniline	ND		0.817		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
2-Nitrophenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
3 & 4 Methylphenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
3,3'-Dichlorobenzidine	ND		0.655		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
3-Nitroaniline	ND		0.817		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
4,6-Dinitro-2-methylphenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
4-Bromophenyl phenyl ether	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
4-Chloro-3-methylphenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
4-Chloroaniline	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
4-Chlorophenyl phenyl ether	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
4-Nitroaniline	ND		0.817		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
4-Nitrophenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Acenaphthene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Acenaphthylene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Anthracene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Benzo[a]anthracene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Benzo[a]pyrene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Benzo[b]fluoranthene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Benzo[g,h,i]perylene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Benzo[k]fluoranthene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
bis (2-chloroisopropyl) ether	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Bis(2-chloroethoxy)methane	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Bis(2-chloroethyl)ether	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
<b>Bis(2-ethylhexyl) phthalate</b>	<b>0.779</b>		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Butyl benzyl phthalate	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Carbazole	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Chrysene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Cresols	ND		0.654		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Dibenz(a,h)anthracene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Dibenzofuran	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Diethyl phthalate	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Dimethyl phthalate	ND		1.64		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Di-n-butyl phthalate	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Di-n-octyl phthalate	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Fluoranthene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Fluorene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Hexachlorobenzene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Hexachlorobutadiene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Hexachlorocyclopentadiene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Hexachloroethane	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Indeno[1,2,3-cd]pyrene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Isophorone	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP75A-TP5(3)**

**Lab Sample ID: SWK0096-14**

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

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Nitrobenzene	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
N-Nitrosodi-n-propylamine	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Pentachlorophenol	ND		0.817		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Phenanthrene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Phenol	ND		0.327		mg/Kg		11/20/13 09:07	11/21/13 21:37	1
Pyrene	ND		0.0658		mg/Kg		11/20/13 09:07	11/21/13 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	76		10 - 120	11/20/13 09:07	11/21/13 21:37	1
2-Fluorobiphenyl (Surr)	67		29 - 120	11/20/13 09:07	11/21/13 21:37	1
2-Fluorophenol (Surr)	59		10 - 120	11/20/13 09:07	11/21/13 21:37	1
Nitrobenzene-d5 (Surr)	66		27 - 120	11/20/13 09:07	11/21/13 21:37	1
Phenol-d5 (Surr)	61		10 - 120	11/20/13 09:07	11/21/13 21:37	1
Terphenyl-d14 (Surr)	80		13 - 120	11/20/13 09:07	11/21/13 21:37	1

**Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	ND		4.95		mg/Kg		11/21/13 08:31	11/21/13 18:04	1
C12-C16 Aromatics	ND		4.95		mg/Kg		11/21/13 08:31	11/21/13 18:04	1
<b>C16-C21 Aromatics</b>	<b>22.7</b>		4.95		mg/Kg		11/21/13 08:31	11/21/13 18:04	1
C8-C10 Aromatics	ND		4.95		mg/Kg		11/21/13 08:31	11/21/13 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Bromonaphthalene	75		60 - 140	11/21/13 08:31	11/21/13 18:04	1
2-Fluorobiphenyl (Surr)	111		60 - 140	11/21/13 08:31	11/21/13 18:04	1
o-Terphenyl	109		60 - 140	11/21/13 08:31	11/21/13 18:04	1

**Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC - RE1)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		4.95		mg/Kg		11/21/13 08:31	11/21/13 21:35	1
<b>C12-C16 Aliphatics</b>	<b>15.4</b>		4.95		mg/Kg		11/21/13 08:31	11/21/13 21:35	1
C8-C10 Aliphatics	ND		4.95		mg/Kg		11/21/13 08:31	11/21/13 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	49	X	60 - 140	11/21/13 08:31	11/21/13 21:35	1

**Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC - RE2)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C21-C34 Aromatics</b>	<b>225</b>		49.5		mg/Kg		11/21/13 08:31	11/22/13 11:21	10

**Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC - RE3)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C16-C21 Aliphatics</b>	<b>195</b>		49.5		mg/Kg		11/21/13 08:31	11/22/13 15:52	10

**Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC - RE4)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C21-C34 Aliphatics</b>	<b>2360</b>		495		mg/Kg		11/21/13 08:31	11/22/13 16:22	100

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP75A-TP5(3)**

**Lab Sample ID: SWK0096-14**

Date Collected: 11/12/13 13:00

Matrix: Soil

Date Received: 11/15/13 13:25

**Method: NWTPH/VP - Northwest - Volatile Petroleum Hydrocarbons (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		4.13		mg/Kg		11/20/13 01:08	11/20/13 10:55	1
C10-C12 Aromatics	ND		4.13		mg/Kg		11/20/13 01:08	11/20/13 10:55	1
C12-C13 Aromatics	ND		4.13		mg/Kg		11/20/13 01:08	11/20/13 10:55	1
C5-C6 Aliphatics	ND		4.13		mg/Kg		11/20/13 01:08	11/20/13 10:55	1
C6-C8 Aliphatics	ND		4.13		mg/Kg		11/20/13 01:08	11/20/13 10:55	1
C8-C10 Aliphatics	ND		4.13		mg/Kg		11/20/13 01:08	11/20/13 10:55	1
C8-C10 Aromatics	ND		4.13		mg/Kg		11/20/13 01:08	11/20/13 10:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,5-Dibromotoluene (fid)	115		60 - 140				11/20/13 01:08	11/20/13 10:55	1
2,5-Dibromotoluene (pid)	99		60 - 140				11/20/13 01:08	11/20/13 10:55	1

**Method: NWTPH/VP - Northwest - Volatile Petroleum Hydrocarbons (GC) - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 aliphatic (adjusted)	ND		5.00		mg/Kg		11/25/13 14:59	11/25/13 14:59	1
C5-C6 aliphatics (adjusted)	ND		5.00		mg/Kg		11/25/13 14:59	11/25/13 14:59	1
C6-C8 aliphatic (adjusted)	ND		5.00		mg/Kg		11/25/13 14:59	11/25/13 14:59	1
C8-C10 aliphatic (adjusted)	ND		5.00		mg/Kg		11/25/13 14:59	11/25/13 14:59	1

**Client Sample ID: SDP81-TP1(2)**

**Lab Sample ID: SWK0096-15**

Date Collected: 11/12/13 14:20

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 81

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.82		mg/kg dry	☼	11/18/13 09:39	11/18/13 13:57	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	99.7		42.4 - 163				11/18/13 09:39	11/18/13 13:57	1.00
Toluene-d8	102		45.8 - 155				11/18/13 09:39	11/18/13 13:57	1.00
4-bromofluorobenzene	109		41.5 - 162				11/18/13 09:39	11/18/13 13:57	1.00

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		17.6		mg/kg dry	☼	11/20/13 06:27	11/21/13 01:12	1.00
<b>Heavy Oil Range Hydrocarbons</b>	<b>61.6</b>		44.1		mg/kg dry	☼	11/20/13 06:27	11/21/13 01:12	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-FBP	109		50 - 150				11/20/13 06:27	11/21/13 01:12	1.00
n-Triacontane-d62	85.9		50 - 150				11/20/13 06:27	11/21/13 01:12	1.00

**Client Sample ID: SDP81-TP2(2)**

**Lab Sample ID: SWK0096-16**

Date Collected: 11/12/13 14:07

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 74.1

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		8.60		mg/kg dry	☼	11/18/13 09:39	11/18/13 14:17	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	97.6		42.4 - 163				11/18/13 09:39	11/18/13 14:17	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP81-TP2(2)**

**Lab Sample ID: SWK0096-16**

Date Collected: 11/12/13 14:07

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 74.1

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8	101		45.8 - 155	11/18/13 09:39	11/18/13 14:17	1.00
4-bromofluorobenzene	104		41.5 - 162	11/18/13 09:39	11/18/13 14:17	1.00

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	31.3		19.8		mg/kg dry	☼	11/20/13 06:27	11/21/13 01:34	1.00
Heavy Oil Range Hydrocarbons	172		49.5		mg/kg dry	☼	11/20/13 06:27	11/21/13 01:34	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	107		50 - 150	11/20/13 06:27	11/21/13 01:34	1.00
n-Triacontane-d62	89.7		50 - 150	11/20/13 06:27	11/21/13 01:34	1.00

**Client Sample ID: SDP81-TP3(2)**

**Lab Sample ID: SWK0096-17**

Date Collected: 11/12/13 13:50

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 45.4

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		36.4		mg/kg dry	☼	11/18/13 09:39	11/18/13 14:37	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	98.0		42.4 - 163	11/18/13 09:39	11/18/13 14:37	1.00
Toluene-d8	98.9		45.8 - 155	11/18/13 09:39	11/18/13 14:37	1.00
4-bromofluorobenzene	105		41.5 - 162	11/18/13 09:39	11/18/13 14:37	1.00

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	139		35.1		mg/kg dry	☼	11/20/13 06:27	11/21/13 01:55	1.00
Heavy Oil Range Hydrocarbons	874		87.9		mg/kg dry	☼	11/20/13 06:27	11/21/13 01:55	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	106		50 - 150	11/20/13 06:27	11/21/13 01:55	1.00
n-Triacontane-d62	96.1		50 - 150	11/20/13 06:27	11/21/13 01:55	1.00

**Client Sample ID: SDP81-TP4(2)**

**Lab Sample ID: SWK0096-18**

Date Collected: 11/12/13 13:40

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 81.8

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		8.89		mg/kg dry	☼	11/18/13 09:39	11/18/13 14:57	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	97.7		42.4 - 163	11/18/13 09:39	11/18/13 14:57	1.00
Toluene-d8	99.7		45.8 - 155	11/18/13 09:39	11/18/13 14:57	1.00
4-bromofluorobenzene	109		41.5 - 162	11/18/13 09:39	11/18/13 14:57	1.00

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	39.7		19.7		mg/kg dry	☼	11/20/13 06:27	11/21/13 02:17	1.00
Heavy Oil Range Hydrocarbons	275		49.2		mg/kg dry	☼	11/20/13 06:27	11/21/13 02:17	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Client Sample ID: SDP81-TP4(2)

Lab Sample ID: SWK0096-18

Date Collected: 11/12/13 13:40

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 81.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	105		50 - 150	11/20/13 06:27	11/21/13 02:17	1.00
n-Triacontane-d62	89.0		50 - 150	11/20/13 06:27	11/21/13 02:17	1.00

## Client Sample ID: SDP88-TP1(3.5)

Lab Sample ID: SWK0096-19

Date Collected: 11/12/13 15:20

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 34.2

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1760		136		ug/kg dry	☼	11/19/13 09:48	11/19/13 14:30	5.00

## Client Sample ID: SDP88-TP2(3)

Lab Sample ID: SWK0096-20

Date Collected: 11/12/13 15:10

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 31.6

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1190		51.0		ug/kg dry	☼	11/19/13 09:48	11/19/13 14:18	1.00

## Client Sample ID: SDP88-TP3(4)

Lab Sample ID: SWK0096-21

Date Collected: 11/12/13 15:05

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 62.7

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		19.1		ug/kg dry	☼	11/19/13 09:48	11/19/13 14:20	1.00

## Client Sample ID: SDP88-TP4(3)

Lab Sample ID: SWK0096-22

Date Collected: 11/12/13 15:15

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 37

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1460		36.2		ug/kg dry	☼	11/19/13 09:48	11/19/13 14:28	1.00

## Client Sample ID: SDP101-TP1(3)

Lab Sample ID: SWK0096-23

Date Collected: 11/12/13 16:20

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 80.4

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		18.2		mg/kg dry	☼	11/20/13 06:27	11/21/13 02:38	1.00
Heavy Oil Range Hydrocarbons	ND		45.4		mg/kg dry	☼	11/20/13 06:27	11/21/13 02:38	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	89.5		50 - 150	11/20/13 06:27	11/21/13 02:38	1.00
n-Triacontane-d62	104		50 - 150	11/20/13 06:27	11/21/13 02:38	1.00

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	H1	41.7		ug/kg dry	☼	12/17/13 09:21	12/17/13 14:32	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Client Sample ID: SDP101-TP2(3.5)

Lab Sample ID: SWK0096-24

Date Collected: 11/12/13 16:00

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 83.1

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		15.5		mg/kg dry	☼	11/20/13 06:27	11/21/13 03:00	1.00
Heavy Oil Range Hydrocarbons	ND		38.7		mg/kg dry	☼	11/20/13 06:27	11/21/13 03:00	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	113		50 - 150				11/20/13 06:27	11/21/13 03:00	1.00
n-Triacontane-d62	108		50 - 150				11/20/13 06:27	11/21/13 03:00	1.00

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	H1	44.6		ug/kg dry	☼	12/17/13 09:21	12/17/13 14:41	1.00

## Client Sample ID: SDP101-TP3(3)

Lab Sample ID: SWK0096-25

Date Collected: 11/12/13 16:10

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 79.1

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		18.5		mg/kg dry	☼	11/20/13 06:27	11/21/13 04:05	1.00
Heavy Oil Range Hydrocarbons	ND		46.1		mg/kg dry	☼	11/20/13 06:27	11/21/13 04:05	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	115		50 - 150				11/20/13 06:27	11/21/13 04:05	1.00
n-Triacontane-d62	112		50 - 150				11/20/13 06:27	11/21/13 04:05	1.00

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	H1	51.0		ug/kg dry	☼	12/17/13 09:21	12/17/13 14:43	1.00

## Client Sample ID: SDP101-TP5(2.5)

Lab Sample ID: SWK0096-26

Date Collected: 11/13/13 09:45

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 78.6

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		18.2		mg/kg dry	☼	11/20/13 06:27	11/21/13 04:26	1.00
Heavy Oil Range Hydrocarbons	ND		45.5		mg/kg dry	☼	11/20/13 06:27	11/21/13 04:26	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	102		50 - 150				11/20/13 06:27	11/21/13 04:26	1.00
n-Triacontane-d62	107		50 - 150				11/20/13 06:27	11/21/13 04:26	1.00

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	H1	43.1		ug/kg dry	☼	12/17/13 09:21	12/17/13 14:45	1.00

## Client Sample ID: SDP75A-TP3a(2.5)

Lab Sample ID: SWK0096-27

Date Collected: 11/13/13 07:45

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 86.8

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		11.7		mg/kg dry	☼	11/20/13 06:27	11/21/13 04:48	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Client Sample ID: SDP75A-TP3a(2.5)

Lab Sample ID: SWK0096-27

Date Collected: 11/13/13 07:45

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 86.8

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heavy Oil Range Hydrocarbons	ND		29.3		mg/kg dry	☼	11/20/13 06:27	11/21/13 04:48	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	116		50 - 150				11/20/13 06:27	11/21/13 04:48	1.00
n-Triacontane-d62	111		50 - 150				11/20/13 06:27	11/21/13 04:48	1.00

## Client Sample ID: SDP75A-TP1b(2)

Lab Sample ID: SWK0096-28

Date Collected: 11/13/13 08:20

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 71.4

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	208		180		mg/kg dry	☼	11/20/13 06:27	11/22/13 11:42	10.0
Heavy Oil Range Hydrocarbons	1150		451		mg/kg dry	☼	11/20/13 06:27	11/22/13 11:42	10.0
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	107		50 - 150				11/20/13 06:27	11/22/13 11:42	10.0
n-Triacontane-d62	119		50 - 150				11/20/13 06:27	11/22/13 11:42	10.0

## Client Sample ID: Upstream-111313

Lab Sample ID: SWK0096-29

Date Collected: 11/13/13 11:30

Matrix: Water

Date Received: 11/15/13 13:25

### Method: EPA 200.7 - Dissolved Metals by EPA 200 Series Methods - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0250		mg/l		11/22/13 08:32	11/22/13 15:14	1.00
Barium	0.0248		0.0100		mg/l		11/22/13 08:32	11/22/13 15:14	1.00
Cadmium	ND		0.00500		mg/l		11/22/13 08:32	11/22/13 15:14	1.00
Chromium	ND		0.0100		mg/l		11/22/13 08:32	11/22/13 15:14	1.00
Copper	ND		0.0100		mg/l		11/22/13 08:32	11/22/13 15:14	1.00
Iron	ND		0.0375		mg/l		11/22/13 08:32	11/22/13 15:14	1.00
Lead	ND		0.0188		mg/l		11/22/13 08:32	11/22/13 15:14	1.00
Selenium	ND		0.0625		mg/l		11/22/13 08:32	11/22/13 15:14	1.00
Silver	ND		0.0125		mg/l		11/22/13 08:32	11/22/13 15:14	1.00

### Method: EPA 200.7 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0250		mg/l		11/18/13 09:25	11/22/13 09:18	1.00
Barium	0.0342		0.0100		mg/l		11/18/13 09:25	11/22/13 09:18	1.00
Cadmium	ND		0.00500		mg/l		11/18/13 09:25	11/22/13 09:18	1.00
Chromium	ND		0.0100		mg/l		11/18/13 09:25	11/22/13 09:18	1.00
Copper	ND		0.0100		mg/l		11/18/13 09:25	11/22/13 15:27	1.00
Iron	0.107		0.0375		mg/l		11/18/13 09:25	11/22/13 09:18	1.00
Lead	ND		0.0175		mg/l		11/18/13 09:25	11/22/13 09:18	1.00
Selenium	ND		0.0625		mg/l		11/18/13 09:25	11/22/13 09:18	1.00
Silver	ND		0.0250		mg/l		11/18/13 09:25	11/22/13 09:18	1.00

### Method: EPA 245.1 mod - Dissolved Metals by EPA 200 Series Methods - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000250		mg/l		11/22/13 08:36	11/25/13 12:38	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: Upstream-111313**

**Lab Sample ID: SWK0096-29**

Date Collected: 11/13/13 11:30

Matrix: Water

Date Received: 11/15/13 13:25

**Method: EPA 245.1 - Total Metals by EPA 200 Series Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.333		ug/l		11/22/13 08:36	11/25/13 12:45	1.00

**Method: EPA 120.1 - Physical Parameters by APHA/ASTM/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductivity	429		1.00		uS/cm		11/21/13 09:14	11/21/13 16:16	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	204		5.26		mg/l		11/21/13 09:11	11/21/13 16:20	1.00

**Method: SM4500H+B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.44	HT-6			pH Units		11/19/13 10:05	11/19/13 15:48	1.00

**Client Sample ID: Midstream-111313**

**Lab Sample ID: SWK0096-30**

Date Collected: 11/13/13 11:15

Matrix: Water

Date Received: 11/15/13 13:25

**Method: EPA 200.7 - Dissolved Metals by EPA 200 Series Methods - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0250		mg/l		11/22/13 08:32	11/22/13 15:17	1.00
Barium	0.0495		0.0100		mg/l		11/22/13 08:32	11/22/13 15:17	1.00
Cadmium	ND		0.00500		mg/l		11/22/13 08:32	11/22/13 15:17	1.00
Chromium	ND		0.0100		mg/l		11/22/13 08:32	11/22/13 15:17	1.00
Copper	ND		0.0100		mg/l		11/22/13 08:32	11/22/13 15:17	1.00
Iron	ND		0.0375		mg/l		11/22/13 08:32	11/22/13 15:17	1.00
Lead	ND		0.0188		mg/l		11/22/13 08:32	11/22/13 15:17	1.00
Selenium	ND		0.0625		mg/l		11/22/13 08:32	11/22/13 15:17	1.00
Silver	ND		0.0125		mg/l		11/22/13 08:32	11/22/13 15:17	1.00

**Method: EPA 200.7 - Total Metals by EPA 200 Series Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0250		mg/l		11/18/13 09:25	11/22/13 09:20	1.00
Barium	0.0724		0.0100		mg/l		11/18/13 09:25	11/22/13 09:20	1.00
Cadmium	ND		0.00500		mg/l		11/18/13 09:25	11/22/13 09:20	1.00
Chromium	ND		0.0100		mg/l		11/18/13 09:25	11/22/13 09:20	1.00
Copper	ND		0.0100		mg/l		11/18/13 09:25	11/22/13 15:30	1.00
Iron	0.0759		0.0375		mg/l		11/18/13 09:25	11/22/13 09:20	1.00
Lead	ND		0.0175		mg/l		11/18/13 09:25	11/22/13 09:20	1.00
Selenium	ND		0.0625		mg/l		11/18/13 09:25	11/22/13 09:20	1.00
Silver	ND		0.0250		mg/l		11/18/13 09:25	11/22/13 09:20	1.00

**Method: EPA 245.1 mod - Dissolved Metals by EPA 200 Series Methods - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000250		mg/l		11/22/13 08:36	11/25/13 12:48	1.00

**Method: EPA 245.1 - Total Metals by EPA 200 Series Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.333		ug/l		11/22/13 08:36	11/25/13 12:50	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Client Sample ID: Midstream-111313

Lab Sample ID: SWK0096-30

Date Collected: 11/13/13 11:15

Matrix: Water

Date Received: 11/15/13 13:25

### Method: EPA 120.1 - Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductivity	523		1.00		uS/cm		11/21/13 09:14	11/21/13 16:16	1.00

### Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	253		4.94		mg/l		11/21/13 09:11	11/21/13 16:20	1.00

### Method: SM4500H+B - Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.39	HT-6			pH Units		11/19/13 10:05	11/19/13 15:48	1.00

## Client Sample ID: Downstream-111313

Lab Sample ID: SWK0096-31

Date Collected: 11/13/13 11:05

Matrix: Water

Date Received: 11/15/13 13:25

### Method: EPA 200.7 - Dissolved Metals by EPA 200 Series Methods - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0250		mg/l		11/22/13 08:32	11/22/13 15:20	1.00
Barium	0.0515		0.0100		mg/l		11/22/13 08:32	11/22/13 15:20	1.00
Cadmium	ND		0.00500		mg/l		11/22/13 08:32	11/22/13 15:20	1.00
Chromium	ND		0.0100		mg/l		11/22/13 08:32	11/22/13 15:20	1.00
Copper	ND		0.0100		mg/l		11/22/13 08:32	11/22/13 15:20	1.00
Iron	ND		0.0375		mg/l		11/22/13 08:32	11/22/13 15:20	1.00
Lead	ND		0.0188		mg/l		11/22/13 08:32	11/22/13 15:20	1.00
Selenium	ND		0.0625		mg/l		11/22/13 08:32	11/22/13 15:20	1.00
Silver	ND		0.0125		mg/l		11/22/13 08:32	11/22/13 15:20	1.00

### Method: EPA 200.7 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0250		mg/l		11/18/13 09:25	11/22/13 09:23	1.00
Barium	0.0731		0.0100		mg/l		11/18/13 09:25	11/22/13 09:23	1.00
Cadmium	ND		0.00500		mg/l		11/18/13 09:25	11/22/13 09:23	1.00
Chromium	ND		0.0100		mg/l		11/18/13 09:25	11/22/13 09:23	1.00
Copper	ND		0.0100		mg/l		11/18/13 09:25	11/22/13 15:32	1.00
Iron	ND		0.0375		mg/l		11/18/13 09:25	11/22/13 09:23	1.00
Lead	ND		0.0175		mg/l		11/18/13 09:25	11/22/13 09:23	1.00
Selenium	ND		0.0625		mg/l		11/18/13 09:25	11/22/13 09:23	1.00
Silver	ND		0.0250		mg/l		11/18/13 09:25	11/22/13 09:23	1.00

### Method: EPA 245.1 mod - Dissolved Metals by EPA 200 Series Methods - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000250		mg/l		11/22/13 08:36	11/25/13 12:52	1.00

### Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.333		ug/l		11/22/13 08:36	11/25/13 12:54	1.00

### Method: EPA 120.1 - Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductivity	551		1.00		uS/cm		11/21/13 09:14	11/21/13 16:16	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Client Sample ID: Downstream-111313

Lab Sample ID: SWK0096-31

Date Collected: 11/13/13 11:05

Matrix: Water

Date Received: 11/15/13 13:25

### Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	253		5.06		mg/l		11/21/13 09:11	11/21/13 16:20	1.00

### Method: SM4500H+B - Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.52	HT-6			pH Units		11/19/13 10:05	11/19/13 15:48	1.00

## Client Sample ID: SDP101-TP4(3)

Lab Sample ID: SWK0096-32

Date Collected: 11/12/13 16:20

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 82.6

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		17.0		mg/kg dry	☼	11/20/13 06:27	11/21/13 05:31	1.00
Heavy Oil Range Hydrocarbons	ND		42.5		mg/kg dry	☼	11/20/13 06:27	11/21/13 05:31	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	113		50 - 150	11/20/13 06:27	11/21/13 05:31	1.00
n-Triacontane-d62	105		50 - 150	11/20/13 06:27	11/21/13 05:31	1.00

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	H1	51.0		ug/kg dry	☼	12/17/13 09:21	12/17/13 14:48	1.00

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

**Lab Sample ID: 13K0066-BLK1**

**Matrix: Soil**

**Analysis Batch: 13K0066**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13K0066\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Chloromethane	ND		0.500		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,3-Butadiene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Vinyl chloride	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Bromomethane	ND		0.500		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Chloroethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Trichlorofluoromethane	ND		0.0300		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,1-Dichloroethene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,1,2-Trichlorotrifluoroethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Carbon disulfide	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Iodomethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Methylene chloride	ND	C	1.00		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Acetone	ND	C	3.00		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Methyl acetate	ND		0.300		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
n-Hexane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
trans-1,2-Dichloroethene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Methyl tert-butyl ether	ND		0.0300		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,1-Dichloroethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
cis-1,2-Dichloroethene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
2,2-Dichloropropane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Bromochloromethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Chloroform	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Cyclohexane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Carbon tetrachloride	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,1,1-Trichloroethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
2-Butanone	ND	C	1.00		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,1-Dichloropropene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Benzene	ND		0.0150		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,2-Dichloroethane (EDC)	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Trichloroethene	ND		0.0300		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Methylcyclohexane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Dibromomethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,2-Dichloropropane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Bromodichloromethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
cis-1,3-Dichloropropene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Toluene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
4-Methyl-2-pentanone	ND		1.00		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
trans-1,3-Dichloropropene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Tetrachloroethene	ND		0.0300		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,1,2-Trichloroethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Dibromochloromethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,3-Dichloropropane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,2-Dibromoethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
2-Hexanone	ND	C	1.00		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Ethylbenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Chlorobenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,1,1,2-Tetrachloroethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
m,p-Xylene	ND		0.400		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)

**Lab Sample ID: 13K0066-BLK1**  
**Matrix: Soil**  
**Analysis Batch: 13K0066**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13K0066\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		0.200		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Styrene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Bromoform	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Isopropylbenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Dichlorofluoromethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
n-Propylbenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,1,2,2-Tetrachloroethane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Bromobenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,3,5-Trimethylbenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
2-Chlorotoluene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,2,3-Trichloropropane	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
4-Chlorotoluene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
tert-Butylbenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,2,4-Trimethylbenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
sec-Butylbenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
p-Isopropyltoluene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,3-Dichlorobenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,4-Dichlorobenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
n-Butylbenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,2-Dichlorobenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,2-Dibromo-3-chloropropane	ND		0.500		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Hexachlorobutadiene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,2,4-Trichlorobenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
Naphthalene	ND		0.200		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00
1,2,3-Trichlorobenzene	ND		0.100		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	101		42.4 - 163	11/18/13 08:39	11/18/13 10:41	1.00
1,2-dichloroethane-d4	101		50 - 150	11/18/13 08:39	11/18/13 10:41	1.00
Toluene-d8	100		45.8 - 155	11/18/13 08:39	11/18/13 10:41	1.00
4-bromofluorobenzene	103		41.5 - 162	11/18/13 08:39	11/18/13 10:41	1.00

**Lab Sample ID: 13K0066-BS1**  
**Matrix: Soil**  
**Analysis Batch: 13K0066**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13K0066\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	0.500	0.428		mg/kg wet		85.5	60 - 140
Chloromethane	0.500	0.416		mg/kg wet		83.3	60 - 140
1,3-Butadiene	0.500	0.462		mg/kg wet		92.5	60 - 140
Vinyl chloride	0.500	0.450		mg/kg wet		89.9	60 - 140
Bromomethane	0.500	0.391		mg/kg wet		78.2	60 - 140
Chloroethane	0.500	0.388		mg/kg wet		77.6	60 - 140
Trichlorofluoromethane	0.500	0.412		mg/kg wet		82.3	60 - 140
1,1-Dichloroethene	0.500	0.485		mg/kg wet		97.0	76 - 187
1,1,2-Trichlorotrifluoroethane	0.500	0.490		mg/kg wet		98.1	60 - 140
Carbon disulfide	0.500	0.416		mg/kg wet		83.2	60 - 140

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)

**Lab Sample ID: 13K0066-BS1**

**Matrix: Soil**

**Analysis Batch: 13K0066**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13K0066\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodomethane	0.500	0.450		mg/kg wet		90.1	60 - 140
Methylene chloride	0.500	0.606	C	mg/kg wet		121	60 - 140
Acetone	2.50	2.97	C	mg/kg wet		119	60 - 140
Methyl acetate	2.50	2.56		mg/kg wet		102	60 - 140
n-Hexane	0.500	0.446		mg/kg wet		89.1	60 - 140
trans-1,2-Dichloroethene	0.500	0.452		mg/kg wet		90.5	60 - 140
Methyl tert-butyl ether	0.500	0.506		mg/kg wet		101	79 - 127
1,1-Dichloroethane	0.500	0.499		mg/kg wet		99.8	60 - 140
cis-1,2-Dichloroethene	0.500	0.496		mg/kg wet		99.3	60 - 140
2,2-Dichloropropane	0.500	0.502		mg/kg wet		100	60 - 140
Bromochloromethane	0.500	0.538		mg/kg wet		108	60 - 140
Chloroform	0.500	0.516		mg/kg wet		103	60 - 140
Cyclohexane	0.500	0.490		mg/kg wet		97.9	60 - 140
Carbon tetrachloride	0.500	0.471		mg/kg wet		94.2	60 - 140
1,1,1-Trichloroethane	0.500	0.482		mg/kg wet		96.4	60 - 140
2-Butanone	2.50	3.36	C	mg/kg wet		134	60 - 140
1,1-Dichloropropene	0.500	0.464		mg/kg wet		92.8	60 - 140
Benzene	0.500	0.496		mg/kg wet		99.1	75.9 - 123
1,2-Dichloroethane (EDC)	0.500	0.514		mg/kg wet		103	60 - 140
Trichloroethene	0.500	0.472		mg/kg wet		94.4	82.7 - 120
Methylcyclohexane	0.500	0.487		mg/kg wet		97.4	60 - 140
Dibromomethane	0.500	0.496		mg/kg wet		99.3	60 - 140
1,2-Dichloropropane	0.500	0.390		mg/kg wet		77.9	60 - 140
Bromodichloromethane	0.500	0.527		mg/kg wet		105	60 - 140
cis-1,3-Dichloropropene	0.500	0.513		mg/kg wet		103	60 - 140
Toluene	0.500	0.478		mg/kg wet		95.7	77.3 - 126
4-Methyl-2-pentanone	2.50	2.61		mg/kg wet		104	60 - 140
trans-1,3-Dichloropropene	0.500	0.489		mg/kg wet		97.8	60 - 140
Tetrachloroethene	0.500	0.468		mg/kg wet		93.7	75 - 130
1,1,2-Trichloroethane	0.500	0.513		mg/kg wet		103	60 - 140
Dibromochloromethane	0.500	0.500		mg/kg wet		100	60 - 140
1,3-Dichloropropane	0.500	0.525		mg/kg wet		105	60 - 140
1,2-Dibromoethane	0.500	0.506		mg/kg wet		101	60 - 140
2-Hexanone	2.50	3.05	C	mg/kg wet		122	60 - 140
Ethylbenzene	0.500	0.471		mg/kg wet		94.2	80.7 - 120
Chlorobenzene	0.500	0.496		mg/kg wet		99.1	80 - 120
1,1,1,2-Tetrachloroethane	0.500	0.515		mg/kg wet		103	60 - 140
m,p-Xylene	0.500	0.475		mg/kg wet		95.0	86.1 - 120
o-Xylene	0.500	0.499		mg/kg wet		99.8	85.3 - 120
Styrene	0.500	0.535		mg/kg wet		107	60 - 140
Bromoform	0.500	0.492		mg/kg wet		98.5	60 - 140
Isopropylbenzene	0.500	0.480		mg/kg wet		96.0	60 - 140
Dichlorofluoromethane	0.500	0.413		mg/kg wet		82.6	60 - 140
n-Propylbenzene	0.500	0.506		mg/kg wet		101	60 - 140
1,1,2,2-Tetrachloroethane	0.500	0.541		mg/kg wet		108	60 - 140
Bromobenzene	0.500	0.482		mg/kg wet		96.4	60 - 140
1,3,5-Trimethylbenzene	0.500	0.508		mg/kg wet		102	60 - 140
2-Chlorotoluene	0.500	0.506		mg/kg wet		101	60 - 140

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)

**Lab Sample ID: 13K0066-BS1**  
**Matrix: Soil**  
**Analysis Batch: 13K0066**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13K0066\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	0.500	0.504		mg/kg wet		101	60 - 140
trans-1,4-Dichloro-2-butene	0.500	0.516		mg/kg wet		103	60 - 140
4-Chlorotoluene	0.500	0.505		mg/kg wet		101	60 - 140
tert-Butylbenzene	0.500	0.494		mg/kg wet		98.8	60 - 140
1,2,4-Trimethylbenzene	0.500	0.522		mg/kg wet		104	60 - 140
sec-Butylbenzene	0.500	0.498		mg/kg wet		99.7	60 - 140
p-Isopropyltoluene	0.500	0.496		mg/kg wet		99.3	60 - 140
1,3-Dichlorobenzene	0.500	0.520		mg/kg wet		104	60 - 140
1,4-Dichlorobenzene	0.500	0.480		mg/kg wet		95.9	60 - 140
n-Butylbenzene	0.500	0.518		mg/kg wet		104	60 - 140
1,2-Dichlorobenzene	0.500	0.501		mg/kg wet		100	60 - 140
1,2-Dibromo-3-chloropropane	0.500	0.504		mg/kg wet		101	60 - 140
Hexachlorobutadiene	0.500	0.467		mg/kg wet		93.4	60 - 140
1,2,4-Trichlorobenzene	0.500	0.483		mg/kg wet		96.6	60 - 140
Naphthalene	0.500	0.506		mg/kg wet		101	58.8 - 130
1,2,3-Trichlorobenzene	0.500	0.510		mg/kg wet		102	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	98.4		42.4 - 163
1,2-dichloroethane-d4	104		50 - 150
Toluene-d8	97.0		45.8 - 155
4-bromofluorobenzene	101		41.5 - 162

## Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

**Lab Sample ID: 13K0066-BLK1**  
**Matrix: Soil**  
**Analysis Batch: 13K0066**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13K0066\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		11/18/13 08:39	11/18/13 10:41	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	101		42.4 - 163	11/18/13 08:39	11/18/13 10:41	1.00
Toluene-d8	100		45.8 - 155	11/18/13 08:39	11/18/13 10:41	1.00
4-bromofluorobenzene	103		41.5 - 162	11/18/13 08:39	11/18/13 10:41	1.00

**Lab Sample ID: 13K0066-BS2**  
**Matrix: Soil**  
**Analysis Batch: 13K0066**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13K0066\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	50.0	55.2		mg/kg wet		110	74.4 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	99.1		42.4 - 163
Toluene-d8	98.3		45.8 - 155

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx (Continued)

**Lab Sample ID: 13K0066-BS2**  
**Matrix: Soil**  
**Analysis Batch: 13K0066**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13K0066\_P**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-bromofluorobenzene	109		41.5 - 162

## Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

**Lab Sample ID: 13K0068-BLK1**  
**Matrix: Soil**  
**Analysis Batch: 13K0068**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13K0068\_P**

Analyte	Blank		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		11/18/13 10:07	11/20/13 15:19	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		11/18/13 10:07	11/20/13 15:19	1.00

Surrogate	Blank		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-FBP	91.8		50 - 150	11/18/13 10:07	11/20/13 15:19	1.00
n-Triacontane-d62	82.4		50 - 150	11/18/13 10:07	11/20/13 15:19	1.00

**Lab Sample ID: 13K0068-BS1**  
**Matrix: Soil**  
**Analysis Batch: 13K0068**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13K0068\_P**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Diesel Range Hydrocarbons	83.3	61.5		mg/kg wet		73.8	73 - 133

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2-FBP	91.9		50 - 150
n-Triacontane-d62	84.7		50 - 150

**Lab Sample ID: 13K0068-MS1**  
**Matrix: Soil**  
**Analysis Batch: 13K0068**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total**  
**Prep Batch: 13K0068\_P**

Analyte	Sample		Spike Added	Matrix Spike		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Diesel Range Hydrocarbons	28200		328	29500	M4	mg/kg dry	✱	398	70.1 - 139

Surrogate	Matrix Spike		Limits
	%Recovery	Qualifier	
2-FBP	123		50 - 150
n-Triacontane-d62	234	Z3	50 - 150

**Lab Sample ID: 13K0068-DUP1**  
**Matrix: Soil**  
**Analysis Batch: 13K0068**

**Client Sample ID: Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13K0068\_P**

Analyte	Sample		Duplicate		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Diesel Range Hydrocarbons	28200		21200		mg/kg dry	✱	28.5	40
Heavy Oil Range Hydrocarbons	77900		62600	E	mg/kg dry	✱	21.7	40

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

(Continued)

**Lab Sample ID: 13K0068-DUP1**

**Matrix: Soil**

**Analysis Batch: 13K0068**

**Client Sample ID: Duplicate**

**Prep Type: Total**

**Prep Batch: 13K0068\_P**

Surrogate	Duplicate		Limits
	%Recovery	Qualifier	
2-FBP	98.0		50 - 150
n-Triacontane-d62	222	Z3	50 - 150

**Lab Sample ID: 13K0078-BLK1**

**Matrix: Soil**

**Analysis Batch: 13K0078**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13K0078\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		11/20/13 06:27	11/20/13 19:48	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		11/20/13 06:27	11/20/13 19:48	1.00

Surrogate	Blank		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-FBP	97.6		50 - 150	11/20/13 06:27	11/20/13 19:48	1.00
n-Triacontane-d62	85.9		50 - 150	11/20/13 06:27	11/20/13 19:48	1.00

**Lab Sample ID: 13K0078-BS1**

**Matrix: Soil**

**Analysis Batch: 13K0078**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13K0078\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Diesel Range Hydrocarbons	83.3	73.3		mg/kg wet		87.9	73 - 133	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2-FBP	109		50 - 150
n-Triacontane-d62	96.1		50 - 150

**Lab Sample ID: 13K0078-MS1**

**Matrix: Soil**

**Analysis Batch: 13K0078**

**Client Sample ID: SDP14-TP2(2)**

**Prep Type: Total**

**Prep Batch: 13K0078\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Diesel Range Hydrocarbons	32.2		162	157		mg/kg dry	✱	76.9	70.1 - 139	

Surrogate	Matrix Spike		Limits
	%Recovery	Qualifier	
2-FBP	105		50 - 150
n-Triacontane-d62	89.3		50 - 150

**Lab Sample ID: 13K0078-DUP1**

**Matrix: Soil**

**Analysis Batch: 13K0078**

**Client Sample ID: SDP14-TP2(2)**

**Prep Type: Total**

**Prep Batch: 13K0078\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate		Unit	D	RPD	Limit
			Result	Qualifier				
Diesel Range Hydrocarbons	32.2		31.5		mg/kg dry	✱	1.98	40
Heavy Oil Range Hydrocarbons	222		262		mg/kg dry	✱	16.3	40

TestAmerica Spokane



# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

(Continued)

Lab Sample ID: 13K0078-DUP1

Matrix: Soil

Analysis Batch: 13K0078

Client Sample ID: SDP14-TP2(2)

Prep Type: Total

Prep Batch: 13K0078\_P

Surrogate	Duplicate %Recovery	Duplicate Qualifier	Limits
2-FBP	102		50 - 150
n-Triacontane-d62	89.4		50 - 150

## Method: EPA 200.7 - Total Metals by EPA 200 Series Methods

Lab Sample ID: 13K0067-BLK1

Matrix: Water

Analysis Batch: 13K0067

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 13K0067\_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0200		mg/l		11/18/13 09:25	11/18/13 14:42	1.00
Barium	ND		0.00800		mg/l		11/18/13 09:25	11/18/13 14:42	1.00
Cadmium	ND		0.00400		mg/l		11/18/13 09:25	11/18/13 14:42	1.00
Chromium	ND		0.00800		mg/l		11/18/13 09:25	11/18/13 14:42	1.00
Copper	ND		0.00800		mg/l		11/18/13 09:25	11/18/13 14:42	1.00
Iron	ND		0.0300		mg/l		11/18/13 09:25	11/18/13 14:42	1.00
Lead	ND		0.0140		mg/l		11/18/13 09:25	11/18/13 14:42	1.00
Selenium	ND		0.0500		mg/l		11/18/13 09:25	11/18/13 14:42	1.00
Silver	ND		0.0200		mg/l		11/18/13 09:25	11/18/13 14:42	1.00

Lab Sample ID: 13K0067-BS1

Matrix: Water

Analysis Batch: 13K0067

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 13K0067\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.04		mg/l		104	85 - 115
Barium	1.00	1.00		mg/l		100	85 - 115
Cadmium	1.00	1.03		mg/l		103	85 - 115
Chromium	1.00	1.00		mg/l		100	85 - 115
Copper	1.00	0.987		mg/l		98.7	85 - 115
Iron	1.00	1.02		mg/l		102	85 - 115
Lead	1.00	1.03		mg/l		103	85 - 115
Selenium	10.0	10.6		mg/l		106	85 - 115
Silver	1.00	1.01		mg/l		101	85 - 115

Lab Sample ID: 13K0067-MS1

Matrix: Water

Analysis Batch: 13K0067

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 13K0067\_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0146		1.00	1.10		mg/l		109	70 - 130
Barium	0.0156		1.00	1.02		mg/l		100	70 - 130
Cadmium	ND		1.00	1.06		mg/l		106	70 - 130
Chromium	0.0585		1.00	1.05		mg/l		99.2	75 - 125
Copper	0.101		1.00	1.12		mg/l		102	70 - 130
Iron	0.794		1.00	1.78		mg/l		99.0	75 - 125
Lead	ND		1.00	0.994		mg/l		99.4	70 - 130

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: EPA 200.7 - Total Metals by EPA 200 Series Methods (Continued)

**Lab Sample ID: 13K0067-MS1**  
**Matrix: Water**  
**Analysis Batch: 13K0067**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total**  
**Prep Batch: 13K0067\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
Selenium	0.204		10.0	11.2		mg/l		110	75 - 125
Silver	ND		1.00	1.04		mg/l		104	75 - 125

**Lab Sample ID: 13K0067-MSD1**  
**Matrix: Water**  
**Analysis Batch: 13K0067**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13K0067\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	0.0146		1.00	1.07		mg/l		105	70 - 130	3.11	20
Barium	0.0156		1.00	1.01		mg/l		99.5	70 - 130	0.904	20
Cadmium	ND		1.00	1.04		mg/l		104	70 - 130	1.99	20
Chromium	0.0585		1.00	1.04		mg/l		97.7	75 - 125	1.43	20
Copper	0.101		1.00	1.11		mg/l		101	70 - 130	0.927	20
Iron	0.794		1.00	1.79		mg/l		99.7	75 - 125	0.361	20
Lead	ND		1.00	0.970		mg/l		97.0	70 - 130	2.45	20
Selenium	0.204		10.0	10.9		mg/l		107	75 - 125	2.69	20
Silver	ND		1.00	1.03		mg/l		103	75 - 125	1.07	20

**Lab Sample ID: 13K0067-DUP1**  
**Matrix: Water**  
**Analysis Batch: 13K0067**

**Client Sample ID: Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13K0067\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Arsenic	0.0146		ND		mg/l			20
Barium	0.0156		0.0145		mg/l		7.08	20
Cadmium	ND		ND		mg/l			20
Chromium	0.0585		0.0577		mg/l		1.36	20
Copper	0.101		0.0824	R4	mg/l		20.7	20
Iron	0.794		0.800		mg/l		0.645	20
Lead	ND		ND		mg/l			20
Selenium	0.204		0.218		mg/l		6.78	20
Silver	ND		ND		mg/l			20

## Method: EPA 200.7 - Dissolved Metals by EPA 200 Series Methods

**Lab Sample ID: 13K0099-BLK1**  
**Matrix: Water**  
**Analysis Batch: 13K0099**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 13K0099\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0200		mg/l		11/22/13 08:32	11/22/13 15:00	1.00
Barium	ND		0.00800		mg/l		11/22/13 08:32	11/22/13 15:00	1.00
Cadmium	ND		0.00400		mg/l		11/22/13 08:32	11/22/13 15:00	1.00
Chromium	ND		0.00800		mg/l		11/22/13 08:32	11/22/13 15:00	1.00
Copper	ND		0.00800		mg/l		11/22/13 08:32	11/22/13 15:00	1.00
Iron	ND		0.0300		mg/l		11/22/13 08:32	11/22/13 15:00	1.00
Lead	ND		0.0150		mg/l		11/22/13 08:32	11/22/13 15:00	1.00
Selenium	ND		0.0500		mg/l		11/22/13 08:32	11/22/13 15:00	1.00
Silver	ND		0.0100		mg/l		11/22/13 08:32	11/22/13 15:00	1.00

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: EPA 200.7 - Dissolved Metals by EPA 200 Series Methods (Continued)

**Lab Sample ID: 13K0099-BS1**

**Matrix: Water**

**Analysis Batch: 13K0099**

**Client Sample ID: Lab Control Sample**

**Prep Type: Dissolved**

**Prep Batch: 13K0099\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.980		mg/l		98.0	85 - 115
Barium	1.00	0.989		mg/l		98.9	85 - 115
Cadmium	1.00	0.994		mg/l		99.4	85 - 115
Chromium	1.00	1.00		mg/l		100	85 - 115
Copper	1.00	1.03		mg/l		103	85 - 115
Iron	1.00	1.03		mg/l		103	85 - 115
Lead	1.00	0.998		mg/l		99.8	85 - 115
Selenium	10.0	10.1		mg/l		101	85 - 115
Silver	1.00	1.01		mg/l		101	85 - 115

**Lab Sample ID: 13K0099-MS1**

**Matrix: Water**

**Analysis Batch: 13K0099**

**Client Sample ID: Matrix Spike**

**Prep Type: Dissolved**

**Prep Batch: 13K0099\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0105		1.00	1.05		mg/l		104	75 - 125
Barium	ND		1.00	0.969		mg/l		96.9	75 - 125
Cadmium	ND		1.00	1.04		mg/l		104	75 - 125
Chromium	0.00403		1.00	0.998		mg/l		99.4	75 - 125
Copper	0.410		1.00	1.49		mg/l		108	75 - 125
Iron	ND		1.00	1.04		mg/l		104	75 - 125
Lead	ND		1.00	0.998		mg/l		99.8	70 - 130
Selenium	ND		10.0	10.6		mg/l		106	75 - 125
Silver	ND		1.00	1.03		mg/l		103	75 - 125

**Lab Sample ID: 13K0099-MSD1**

**Matrix: Water**

**Analysis Batch: 13K0099**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Dissolved**

**Prep Batch: 13K0099\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0105		1.00	1.05		mg/l		103	75 - 125	0.458	20
Barium	ND		1.00	0.982		mg/l		98.2	75 - 125	1.27	20
Cadmium	ND		1.00	1.04		mg/l		104	75 - 125	0.046	20
Chromium	0.00403		1.00	0.997		mg/l		99.3	75 - 125	0.072	20
Copper	0.410		1.00	1.50		mg/l		109	75 - 125	0.400	20
Iron	ND		1.00	1.06		mg/l		106	75 - 125	1.84	20
Lead	ND		1.00	0.998		mg/l		99.8	70 - 130	0.037	20
Selenium	ND		10.0	10.6		mg/l		106	75 - 125	0.017	20
Silver	ND		1.00	1.03		mg/l		103	75 - 125	0.646	20

**Lab Sample ID: 13K0099-DUP1**

**Matrix: Water**

**Analysis Batch: 13K0099**

**Client Sample ID: Duplicate**

**Prep Type: Dissolved**

**Prep Batch: 13K0099\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0105		0.00921		mg/l		13.4	20

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: EPA 200.7 - Dissolved Metals by EPA 200 Series Methods (Continued)

**Lab Sample ID: 13K0099-DUP1**  
**Matrix: Water**  
**Analysis Batch: 13K0099**

**Client Sample ID: Duplicate**  
**Prep Type: Dissolved**  
**Prep Batch: 13K0099\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Barium	ND		ND		mg/l			20
Cadmium	ND		ND		mg/l			20
Chromium	0.00403		0.00386		mg/l		4.26	20
Copper	0.410		0.418		mg/l		1.89	20
Iron	ND		ND		mg/l			20
Lead	ND		ND		mg/l			20
Selenium	ND		ND		mg/l			20
Silver	ND		ND		mg/l			20

## Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

**Lab Sample ID: 13K0101-BLK1**  
**Matrix: Water**  
**Analysis Batch: 13K0101**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13K0101\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/l		11/22/13 08:36	11/25/13 12:20	1.00

**Lab Sample ID: 13K0101-BS1**  
**Matrix: Water**  
**Analysis Batch: 13K0101**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13K0101\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.00	2.05		ug/l		102	85 - 115

**Lab Sample ID: 13K0101-MS1**  
**Matrix: Water**  
**Analysis Batch: 13K0101**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total**  
**Prep Batch: 13K0101\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
Mercury	10.2		2.00	10.9	M4	ug/l		35.0	70 - 130

**Lab Sample ID: 13K0101-MSD1**  
**Matrix: Water**  
**Analysis Batch: 13K0101**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13K0101\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	10.2		2.00	12.8	M4	ug/l		132	70 - 130	16.4	18.2

**Lab Sample ID: 13K0101-DUP1**  
**Matrix: Water**  
**Analysis Batch: 13K0101**

**Client Sample ID: Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13K0101\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Mercury	10.2		9.55		ug/l		6.58	17.1

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: EPA 245.1 mod - Dissolved Metals by EPA 200 Series Methods

**Lab Sample ID: 13K0101-BLK1**  
**Matrix: Water**  
**Analysis Batch: 13K0101**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 13K0101\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200		mg/l		11/22/13 08:36	11/25/13 12:20	1.00

**Lab Sample ID: 13K0101-BS1**  
**Matrix: Water**  
**Analysis Batch: 13K0101**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Dissolved**  
**Prep Batch: 13K0101\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00205		mg/l		102	85 - 115

**Lab Sample ID: 13K0101-MS1**  
**Matrix: Water**  
**Analysis Batch: 13K0101**

**Client Sample ID: Matrix Spike**  
**Prep Type: Dissolved**  
**Prep Batch: 13K0101\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0102		0.00200	0.0109	M4	mg/l		35.0	70 - 130

**Lab Sample ID: 13K0101-MSD1**  
**Matrix: Water**  
**Analysis Batch: 13K0101**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Dissolved**  
**Prep Batch: 13K0101\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0102		0.00200	0.0128	M4	mg/l		132	70 - 130	16.4	18.2

**Lab Sample ID: 13K0101-DUP1**  
**Matrix: Water**  
**Analysis Batch: 13K0101**

**Client Sample ID: Duplicate**  
**Prep Type: Dissolved**  
**Prep Batch: 13K0101\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.0102		0.00955		mg/l		6.58	17.1

## Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

**Lab Sample ID: 13K0072-BLK1**  
**Matrix: Soil**  
**Analysis Batch: 13K0072**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13K0072\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		50.0		ug/kg wet		11/19/13 09:48	11/19/13 14:02	1.00

**Lab Sample ID: 13K0072-BS1**  
**Matrix: Soil**  
**Analysis Batch: 13K0072**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13K0072\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	200	194		ug/kg wet		97.0	80 - 120

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods (Continued)

**Lab Sample ID: 13K0072-MS1**  
**Matrix: Soil**  
**Analysis Batch: 13K0072**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total**  
**Prep Batch: 13K0072\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	52.7		208	208	M2	ug/kg wet		74.7	80 - 120

**Lab Sample ID: 13K0072-MSD1**  
**Matrix: Soil**  
**Analysis Batch: 13K0072**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13K0072\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	52.7		213	214	M2	ug/kg wet		75.7	80 - 120	2.60	20

**Lab Sample ID: 13K0072-DUP1**  
**Matrix: Soil**  
**Analysis Batch: 13K0072**

**Client Sample ID: Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13K0072\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Mercury	52.7		ND		ug/kg wet			40

**Lab Sample ID: 13L0090-BLK1**  
**Matrix: Soil**  
**Analysis Batch: 13L0090**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13L0090\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		50.0		ug/kg wet		12/17/13 09:21	12/17/13 14:29	1.00

**Lab Sample ID: 13L0090-BS1**  
**Matrix: Soil**  
**Analysis Batch: 13L0090**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13L0090\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	200	200		ug/kg wet		100	80 - 120

**Lab Sample ID: 13L0090-MS1**  
**Matrix: Soil**  
**Analysis Batch: 13L0090**

**Client Sample ID: SDP101-TP1(3)**  
**Prep Type: Total**  
**Prep Batch: 13L0090\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND	H1	186	187		ug/kg dry	✱	100	80 - 120

**Lab Sample ID: 13L0090-MSD1**  
**Matrix: Soil**  
**Analysis Batch: 13L0090**

**Client Sample ID: SDP101-TP1(3)**  
**Prep Type: Total**  
**Prep Batch: 13L0090\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND	H1	180	198		ug/kg dry	✱	110	80 - 120	6.09	20

**Lab Sample ID: 13L0090-DUP1**  
**Matrix: Soil**  
**Analysis Batch: 13L0090**

**Client Sample ID: SDP101-TP1(3)**  
**Prep Type: Total**  
**Prep Batch: 13L0090\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND	H1	ND		ug/kg dry	✱		40

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: EPA 120.1 - Physical Parameters by APHA/ASTM/EPA Methods

**Lab Sample ID: 13K0091-BLK1**  
**Matrix: Water**  
**Analysis Batch: 13K0091**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13K0091\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductivity	ND		1.00		uS/cm		11/21/13 09:14	11/21/13 16:16	1.00

**Lab Sample ID: 13K0091-BS1**  
**Matrix: Water**  
**Analysis Batch: 13K0091**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13K0091\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductivity	1000	983		uS/cm		98.3	90 - 110

**Lab Sample ID: 13K0091-DUP1**  
**Matrix: Water**  
**Analysis Batch: 13K0091**

**Client Sample ID: Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13K0091\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Specific Conductivity	3350		3340		uS/cm		0.149	10

## Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods

**Lab Sample ID: 13K0088-BLK1**  
**Matrix: Water**  
**Analysis Batch: 13K0088**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13K0088\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		4.00		mg/l		11/21/13 09:11	11/21/13 16:20	1.00

**Lab Sample ID: 13K0088-BS1**  
**Matrix: Water**  
**Analysis Batch: 13K0088**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13K0088\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity	500	475		mg/l		95.0	90 - 110

**Lab Sample ID: 13K0088-DUP1**  
**Matrix: Water**  
**Analysis Batch: 13K0088**

**Client Sample ID: Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13K0088\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Total Alkalinity	ND		ND		mg/l			10

## Method: SM4500H+B - Conventional Chemistry Parameters by APHA/EPA Methods

**Lab Sample ID: 13K0073-BS1**  
**Matrix: Water**  
**Analysis Batch: 13K0073**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13K0073\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.00		pH Units		100	90 - 110

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: SM4500H+B - Conventional Chemistry Parameters by APHA/EPA Methods (Continued)

**Lab Sample ID: 13K0073-DUP1**

**Matrix: Water**

**Analysis Batch: 13K0073**

**Client Sample ID: Duplicate**

**Prep Type: Total**

**Prep Batch: 13K0073\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
pH	8.35		8.34		pH Units		0.120	10

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

**Lab Sample ID: 123677-6**

**Matrix: Soil**

**Analysis Batch: 123324**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 123324\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
1,2-Dichlorobenzene	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
1,3-Dichlorobenzene	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
1,4-Dichlorobenzene	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
1-Methylnaphthalene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
2,4,5-Trichlorophenol	ND		0.833		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
2,4,6-Trichlorophenol	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
2,4-Dichlorophenol	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
2,4-Dimethylphenol	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
2,4-Dinitrophenol	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
2,4-Dinitrotoluene	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
2,6-Dinitrotoluene	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
2-Chloronaphthalene	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
2-Chlorophenol	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
2-Methylnaphthalene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
2-Methylphenol	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
2-Nitroaniline	ND		0.833		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
2-Nitrophenol	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
3 & 4 Methylphenol	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
3,3'-Dichlorobenzidine	ND		0.667		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
3-Nitroaniline	ND		0.833		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
4,6-Dinitro-2-methylphenol	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
4-Bromophenyl phenyl ether	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
4-Chloro-3-methylphenol	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
4-Chloroaniline	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
4-Chlorophenyl phenyl ether	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
4-Nitroaniline	ND		0.833		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
4-Nitrophenol	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Acenaphthene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Acenaphthylene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Anthracene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Benzo[a]anthracene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Benzo[a]pyrene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Benzo[b]fluoranthene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Benzo[g,h,i]perylene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Benzo[k]fluoranthene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
bis(2-chloroisopropyl) ether	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Bis(2-chloroethoxy)methane	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Bis(2-chloroethyl)ether	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1

TestAmerica Spokane



# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

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

**Lab Sample ID: 123677-6**  
**Matrix: Soil**  
**Analysis Batch: 123324**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 123324\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Butyl benzyl phthalate	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Carbazole	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Chrysene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Cresols	ND		0.666		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Dibenz(a,h)anthracene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Dibenzofuran	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Diethyl phthalate	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Dimethyl phthalate	ND		1.67		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Di-n-butyl phthalate	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Di-n-octyl phthalate	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Fluoranthene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Fluorene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Hexachlorobenzene	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Hexachlorobutadiene	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Hexachlorocyclopentadiene	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Hexachloroethane	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Indeno[1,2,3-cd]pyrene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Isophorone	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Naphthalene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Nitrobenzene	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
N-Nitrosodi-n-propylamine	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Pentachlorophenol	ND		0.833		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Phenanthrene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Phenol	ND		0.333		mg/Kg		11/20/13 09:07	11/21/13 14:12	1
Pyrene	ND		0.0670		mg/Kg		11/20/13 09:07	11/21/13 14:12	1

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	51		10 - 120	11/20/13 09:07	11/21/13 14:12	1
2-Fluorobiphenyl (Surr)	76		29 - 120	11/20/13 09:07	11/21/13 14:12	1
2-Fluorophenol (Surr)	54		10 - 120	11/20/13 09:07	11/21/13 14:12	1
Nitrobenzene-d5 (Surr)	72		27 - 120	11/20/13 09:07	11/21/13 14:12	1
Phenol-d5 (Surr)	58		10 - 120	11/20/13 09:07	11/21/13 14:12	1
Terphenyl-d14 (Surr)	85		13 - 120	11/20/13 09:07	11/21/13 14:12	1

**Lab Sample ID: 123677-26**  
**Matrix: Soil**  
**Analysis Batch: 123324**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total**  
**Prep Batch: 123324\_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1.67	0.9563		mg/Kg		57	29 - 120	22	50
1,2-Dichlorobenzene	1.67	0.9535		mg/Kg		57	33 - 120	16	50
1,3-Dichlorobenzene	1.67	0.9043		mg/Kg		54	32 - 120	18	50
1,4-Dichlorobenzene	1.67	0.9338		mg/Kg		56	32 - 120	19	50
1-Methylnaphthalene	1.67	0.9832		mg/Kg		59	32 - 120	18	50
2,4,5-Trichlorophenol	1.67	1.063		mg/Kg		64	39 - 120	18	50

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

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

**Lab Sample ID: 123677-26**

**Matrix: Soil**

**Analysis Batch: 123324**

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

**Prep Type: Total**

**Prep Batch: 123324\_P**

Analyte	Spike	LCS Dup	LCS Dup	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
2,4,6-Trichlorophenol	1.67	1.083		mg/Kg		65	39 - 120	16	50
2,4-Dichlorophenol	1.67	1.026		mg/Kg		62	32 - 120	21	50
2,4-Dimethylphenol	1.67	1.033		mg/Kg		62	32 - 120	16	50
2,4-Dinitrophenol	3.33	1.893		mg/Kg		57	23 - 142	12	50
2,4-Dinitrotoluene	1.67	1.077		mg/Kg		65	43 - 120	13	50
2,6-Dinitrotoluene	1.67	1.098		mg/Kg		66	43 - 120	12	50
2-Chloronaphthalene	1.67	1.027		mg/Kg		62	34 - 120	13	50
2-Chlorophenol	1.67	0.9555		mg/Kg		57	32 - 120	17	50
2-Methylnaphthalene	1.67	0.9713		mg/Kg		58	28 - 120	19	50
2-Methylphenol	1.67	1.001		mg/Kg		60	36 - 120	14	50
2-Nitroaniline	1.67	1.138		mg/Kg		68	40 - 120	9	50
2-Nitrophenol	1.67	0.9891		mg/Kg		59	29 - 120	22	50
3 & 4 Methylphenol	1.67	0.9894		mg/Kg		59	37 - 120	13	50
3,3'-Dichlorobenzidine	1.67	0.8964		mg/Kg		54	39 - 120	8	50
3-Nitroaniline	1.67	0.9571		mg/Kg		57	42 - 120	8	49
4,6-Dinitro-2-methylphenol	3.33	2.202		mg/Kg		66	27 - 134	4	50
4-Bromophenyl phenyl ether	1.67	1.138		mg/Kg		68	40 - 120	14	37
4-Chloro-3-methylphenol	1.67	1.095		mg/Kg		66	38 - 120	13	49
4-Chloroaniline	1.67	1.017		mg/Kg		61	35 - 120	17	50
4-Chlorophenyl phenyl ether	1.67	1.023		mg/Kg		61	42 - 120	15	50
4-Nitroaniline	1.67	0.9479		mg/Kg		57	43 - 120	10	49
4-Nitrophenol	3.33	1.972		mg/Kg		59	32 - 136	6	45
Acenaphthene	1.67	1.057		mg/Kg		63	36 - 120	13	50
Acenaphthylene	1.67	1.053		mg/Kg		63	38 - 120	13	50
Anthracene	1.67	1.105		mg/Kg		66	46 - 124	14	49
Benzo[a]anthracene	1.67	1.102		mg/Kg		66	45 - 120	11	50
Benzo[a]pyrene	1.67	1.082		mg/Kg		65	45 - 120	10	50
Benzo[b]fluoranthene	1.67	1.114		mg/Kg		67	42 - 120	8	50
Benzo[g,h,i]perylene	1.67	1.095		mg/Kg		66	38 - 120	8	50
Benzo[k]fluoranthene	1.67	1.036		mg/Kg		62	42 - 120	13	45
bis (2-chloroisopropyl) ether	1.67	0.6838		mg/Kg		41	32 - 120	15	50
Bis(2-chloroethoxy)methane	1.67	0.9278		mg/Kg		56	32 - 120	17	50
Bis(2-chloroethyl)ether	1.67	0.9040		mg/Kg		54	31 - 120	13	50
Bis(2-ethylhexyl) phthalate	1.67	1.230		mg/Kg		74	43 - 120	3	50
Butyl benzyl phthalate	1.67	1.169		mg/Kg		70	43 - 133	8	50
Carbazole	1.67	1.092		mg/Kg		66	44 - 120	11	46
Chrysene	1.67	1.109		mg/Kg		67	43 - 120	11	49
Dibenz(a,h)anthracene	1.67	1.093		mg/Kg		66	32 - 128	9	50
Dibenzofuran	1.67	1.035		mg/Kg		62	41 - 120	13	50
Diethyl phthalate	1.67	1.367		mg/Kg		82	41 - 122	8	45
Dimethyl phthalate	1.67	ND		mg/Kg		64	55 - 120	12	46
Di-n-butyl phthalate	1.67	1.220		mg/Kg		73	46 - 127	10	49
Di-n-octyl phthalate	1.67	1.220		mg/Kg		73	40 - 130	4	50
Fluoranthene	1.67	1.074		mg/Kg		64	46 - 120	14	50
Fluorene	1.67	1.082		mg/Kg		65	42 - 120	12	50
Hexachlorobenzene	1.67	1.092		mg/Kg		66	44 - 120	16	50
Hexachlorobutadiene	1.67	1.018		mg/Kg		61	31 - 120	21	50
Hexachlorocyclopentadiene	1.67	0.8613		mg/Kg		52	24 - 120	22	50

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

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

**Lab Sample ID: 123677-26**

**Matrix: Soil**

**Analysis Batch: 123324**

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

**Prep Type: Total**

**Prep Batch: 123324\_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	Limits	RPD	RPD	Limit
									%Rec.	RPD
Hexachloroethane	1.67	1.013		mg/Kg		61	33 - 120	16		50
Indeno[1,2,3-cd]pyrene	1.67	1.051		mg/Kg		63	41 - 121	10		50
Isophorone	1.67	1.050		mg/Kg		63	33 - 120	17		50
Naphthalene	1.67	0.9621		mg/Kg		58	32 - 120	18		50
Nitrobenzene	1.67	1.000		mg/Kg		60	26 - 120	19		50
N-Nitrosodi-n-propylamine	1.67	1.002		mg/Kg		60	35 - 120	15		50
n-Nitrosodiphenylamine(as diphenylamine)	1.67	1.422		mg/Kg		85	52 - 140	11		50
Pentachlorophenol	3.33	2.236		mg/Kg		67	44 - 134	6		50
Phenanthrene	1.67	1.105		mg/Kg		66	45 - 120	10		50
Phenol	1.67	0.9296		mg/Kg		56	30 - 120	18		50
Pyrene	1.67	1.077		mg/Kg		65	43 - 120	14		50

Surrogate	LCS Dup %Recovery	LCS Dup Qualifier	Limits
2,4,6-Tribromophenol (Surr)	71		10 - 120
2-Fluorobiphenyl (Surr)	62		29 - 120
2-Fluorophenol (Surr)	53		10 - 120
Nitrobenzene-d5 (Surr)	63		27 - 120
Phenol-d5 (Surr)	59		10 - 120
Terphenyl-d14 (Surr)	70		13 - 120

**Lab Sample ID: 123677-10**

**Matrix: Soil**

**Analysis Batch: 123324**

**Client Sample ID: Matrix Spike**

**Prep Type: Total**

**Prep Batch: 123324\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene			1.66	1.098		mg/Kg		66	14 - 120
1,2-Dichlorobenzene			1.66	1.047		mg/Kg		63	10 - 120
1,3-Dichlorobenzene			1.66	1.008		mg/Kg		61	10 - 120
1,4-Dichlorobenzene			1.66	1.024		mg/Kg		62	10 - 120
1-Methylnaphthalene			1.66	1.220		mg/Kg		65	10 - 120
2,4,5-Trichlorophenol			1.66	1.356		mg/Kg		82	27 - 120
2,4,6-Trichlorophenol			1.66	1.295		mg/Kg		78	24 - 122
2,4-Dichlorophenol			1.66	1.265		mg/Kg		76	17 - 120
2,4-Dimethylphenol			1.66	1.192		mg/Kg		72	17 - 120
2,4-Dinitrophenol			3.32	1.662		mg/Kg		50	10 - 150
2,4-Dinitrotoluene			1.66	1.157		mg/Kg		70	24 - 121
2,6-Dinitrotoluene			1.66	1.204		mg/Kg		73	24 - 120
2-Chloronaphthalene			1.66	1.109		mg/Kg		67	24 - 120
2-Chlorophenol			1.66	1.140		mg/Kg		69	25 - 120
2-Methylnaphthalene			1.66	1.365		mg/Kg		66	13 - 120
2-Methylphenol			1.66	1.133		mg/Kg		68	23 - 120
2-Nitroaniline			1.66	1.277		mg/Kg		77	31 - 120
2-Nitrophenol			1.66	1.199		mg/Kg		72	23 - 120
3 & 4 Methylphenol			1.66	1.152		mg/Kg		69	19 - 120
3,3'-Dichlorobenzidine			1.66	1.192		mg/Kg		72	10 - 120
3-Nitroaniline			1.66	1.096		mg/Kg		66	31 - 120
4,6-Dinitro-2-methylphenol			3.32	2.016		mg/Kg		61	10 - 134

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

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

**Lab Sample ID: 123677-10**

**Matrix: Soil**

**Analysis Batch: 123324**

**Client Sample ID: Matrix Spike**

**Prep Type: Total**

**Prep Batch: 123324\_P**

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
4-Bromophenyl phenyl ether			1.66	1.256		mg/Kg		76	31 - 120
4-Chloro-3-methylphenol			1.66	1.323		mg/Kg		80	21 - 120
4-Chloroaniline			1.66	1.149		mg/Kg		69	26 - 120
4-Chlorophenyl phenyl ether			1.66	1.146		mg/Kg		69	26 - 120
4-Nitroaniline			1.66	1.143		mg/Kg		69	28 - 120
4-Nitrophenol			3.32	2.435		mg/Kg		73	16 - 139
Acenaphthene			1.66	1.141		mg/Kg		69	19 - 120
Acenaphthylene			1.66	1.151		mg/Kg		69	25 - 120
Anthracene			1.66	1.229		mg/Kg		74	28 - 125
Benzo[a]anthracene			1.66	1.191		mg/Kg		72	23 - 120
Benzo[a]pyrene			1.66	1.167		mg/Kg		70	15 - 128
Benzo[b]fluoranthene			1.66	1.216		mg/Kg		73	12 - 133
Benzo[g,h,i]perylene			1.66	1.144		mg/Kg		69	22 - 120
Benzo[k]fluoranthene			1.66	1.130		mg/Kg		68	28 - 120
bis (2-chloroisopropyl) ether			1.66	0.7973		mg/Kg		48	20 - 120
Bis(2-chloroethoxy)methane			1.66	1.039		mg/Kg		63	24 - 120
Bis(2-chloroethyl)ether			1.66	0.9615		mg/Kg		58	22 - 120
Bis(2-ethylhexyl) phthalate			1.66	1.427		mg/Kg		72	26 - 120
Butyl benzyl phthalate			1.66	1.317		mg/Kg		79	24 - 133
Carbazole			1.66	1.216		mg/Kg		73	25 - 123
Chrysene			1.66	1.207		mg/Kg		73	20 - 120
Dibenz(a,h)anthracene			1.66	1.164		mg/Kg		70	12 - 128
Dibenzofuran			1.66	1.131		mg/Kg		68	21 - 120
Diethyl phthalate			1.66	1.226		mg/Kg		74	29 - 122
Dimethyl phthalate			1.66	ND		mg/Kg		71	30 - 120
Di-n-butyl phthalate			1.66	1.306		mg/Kg		79	29 - 126
Di-n-octyl phthalate			1.66	1.397		mg/Kg		84	27 - 130
Fluoranthene			1.66	1.203		mg/Kg		73	10 - 143
Fluorene			1.66	1.195		mg/Kg		72	20 - 120
Hexachlorobenzene			1.66	1.177		mg/Kg		71	25 - 120
Hexachlorobutadiene			1.66	1.155		mg/Kg		70	10 - 120
Hexachlorocyclopentadiene			1.66	0.7542		mg/Kg		45	10 - 120
Hexachloroethane			1.66	1.245		mg/Kg		75	10 - 120
Indeno[1,2,3-cd]pyrene			1.66	1.121		mg/Kg		68	22 - 121
Isophorone			1.66	1.125		mg/Kg		68	24 - 120
Naphthalene			1.66	1.419		mg/Kg		63	10 - 120
Nitrobenzene			1.66	1.160		mg/Kg		70	19 - 120
N-Nitrosodi-n-propylamine			1.66	1.047		mg/Kg		63	24 - 120
n-Nitrosodiphenylamine(as diphenylamine)			1.66	1.535		mg/Kg		93	26 - 150
Pentachlorophenol			3.32	2.736		mg/Kg		82	19 - 145
Phenanthrene			1.66	1.216		mg/Kg		73	21 - 122
Phenol			1.66	1.064		mg/Kg		64	15 - 120
Pyrene			1.66	1.265		mg/Kg		76	20 - 123

Surrogate	Matrix Spike	Matrix Spike	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	81		10 - 120
2-Fluorobiphenyl (Surr)	65		29 - 120

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

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

**Lab Sample ID: 123677-10**

**Matrix: Soil**

**Analysis Batch: 123324**

**Client Sample ID: Matrix Spike**

**Prep Type: Total**

**Prep Batch: 123324\_P**

Surrogate	Matrix Spike	Matrix Spike	Limits
	%Recovery	Qualifier	
2-Fluorophenol (Surr)	66		10 - 120
Nitrobenzene-d5 (Surr)	66		27 - 120
Phenol-d5 (Surr)	66		10 - 120
Terphenyl-d14 (Surr)	78		13 - 120

**Lab Sample ID: 123677-11**

**Matrix: Soil**

**Analysis Batch: 123324**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total**

**Prep Batch: 123324\_P**

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	D	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,2,4-Trichlorobenzene	1.63		1.63	1.182			72	14 - 120	7		50
1,2-Dichlorobenzene	1.63		1.63	1.133			69	10 - 120	8		50
1,3-Dichlorobenzene	1.63		1.63	1.110			68	10 - 120	10		50
1,4-Dichlorobenzene	1.63		1.63	1.109			68	10 - 120	8		50
1-Methylnaphthalene	1.63		1.63	1.286			70	10 - 120	5		50
2,4,5-Trichlorophenol	1.63		1.63	1.416			87	27 - 120	4		50
2,4,6-Trichlorophenol	1.63		1.63	1.412			86	24 - 122	9		50
2,4-Dichlorophenol	1.63		1.63	1.397			86	17 - 120	10		50
2,4-Dimethylphenol	1.63		1.63	1.342			82	17 - 120	12		50
2,4-Dinitrophenol	3.27		3.27	1.525			47	10 - 150	9		50
2,4-Dinitrotoluene	1.63		1.63	1.273			78	24 - 121	10		50
2,6-Dinitrotoluene	1.63		1.63	1.288			79	24 - 120	7		50
2-Chloronaphthalene	1.63		1.63	1.202			74	24 - 120	8		50
2-Chlorophenol	1.63		1.63	1.258			77	25 - 120	10		50
2-Methylnaphthalene	1.63		1.63	1.393			68	13 - 120	2		50
2-Methylphenol	1.63		1.63	1.266			78	23 - 120	11		50
2-Nitroaniline	1.63		1.63	1.393			85	31 - 120	9		50
2-Nitrophenol	1.63		1.63	1.334			82	23 - 120	11		50
3 & 4 Methylphenol	1.63		1.63	1.276			78	19 - 120	10		50
3,3'-Dichlorobenzidine	1.63		1.63	1.159			71	10 - 120	3		50
3-Nitroaniline	1.63		1.63	1.165			71	31 - 120	6		49
4,6-Dinitro-2-methylphenol	3.27		3.27	2.174			67	10 - 134	8		50
4-Bromophenyl phenyl ether	1.63		1.63	1.349			83	31 - 120	7		37
4-Chloro-3-methylphenol	1.63		1.63	1.407			86	21 - 120	6		49
4-Chloroaniline	1.63		1.63	1.243			76	26 - 120	8		50
4-Chlorophenyl phenyl ether	1.63		1.63	1.205			74	26 - 120	5		50
4-Nitroaniline	1.63		1.63	1.242			76	28 - 120	8		49
4-Nitrophenol	3.27		3.27	2.632			81	16 - 139	8		45
Acenaphthene	1.63		1.63	1.234			76	19 - 120	8		50
Acenaphthylene	1.63		1.63	1.202			74	25 - 120	4		50
Anthracene	1.63		1.63	1.269			78	28 - 125	3		49
Benzo[a]anthracene	1.63		1.63	1.269			78	23 - 120	6		50
Benzo[a]pyrene	1.63		1.63	1.249			77	15 - 128	7		50
Benzo[b]fluoranthene	1.63		1.63	1.313			80	12 - 133	8		50
Benzo[g,h,i]perylene	1.63		1.63	1.230			75	22 - 120	7		50
Benzo[k]fluoranthene	1.63		1.63	1.210			74	28 - 120	7		45
bis (2-chloroisopropyl) ether	1.63		1.63	1.033			63	20 - 120	26		50
Bis(2-chloroethoxy)methane	1.63		1.63	1.165			71	24 - 120	11		50

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

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

**Lab Sample ID: 123677-11**

**Matrix: Soil**

**Analysis Batch: 123324**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total**

**Prep Batch: 123324\_P**

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier					
Bis(2-chloroethyl)ether			1.63	1.085	mg/Kg		66	22 - 120	12	50
Bis(2-ethylhexyl) phthalate			1.63	2.013	mg/Kg		109	26 - 120	34	50
Butyl benzyl phthalate			1.63	1.450	mg/Kg		89	24 - 133	10	50
Carbazole			1.63	1.275	mg/Kg		78	25 - 123	5	46
Chrysene			1.63	1.262	mg/Kg		77	20 - 120	4	49
Dibenz(a,h)anthracene			1.63	1.263	mg/Kg		77	12 - 128	8	50
Dibenzofuran			1.63	1.211	mg/Kg		74	21 - 120	7	50
Diethyl phthalate			1.63	1.285	mg/Kg		79	29 - 122	5	45
Dimethyl phthalate			1.63	ND	mg/Kg		74	30 - 120	4	46
Di-n-butyl phthalate			1.63	1.381	mg/Kg		85	29 - 126	6	49
Di-n-octyl phthalate			1.63	1.602	mg/Kg		98	27 - 130	14	50
Fluoranthene			1.63	1.261	mg/Kg		77	10 - 143	5	50
Fluorene			1.63	1.260	mg/Kg		77	20 - 120	5	50
Hexachlorobenzene			1.63	1.252	mg/Kg		77	25 - 120	6	50
Hexachlorobutadiene			1.63	1.287	mg/Kg		79	10 - 120	11	50
Hexachlorocyclopentadiene			1.63	0.8414	mg/Kg		52	10 - 120	11	50
Hexachloroethane			1.63	1.311	mg/Kg		80	10 - 120	5	50
Indeno[1,2,3-cd]pyrene			1.63	1.200	mg/Kg		74	22 - 121	7	50
Isophorone			1.63	1.264	mg/Kg		77	24 - 120	12	50
Naphthalene			1.63	1.412	mg/Kg		63	10 - 120	1	50
Nitrobenzene			1.63	1.303	mg/Kg		80	19 - 120	12	50
N-Nitrosodi-n-propylamine			1.63	1.190	mg/Kg		73	24 - 120	13	50
n-Nitrosodiphenylamine(as diphenylamine)			1.63	1.599	mg/Kg		98	26 - 150	4	50
Pentachlorophenol			3.27	2.890	mg/Kg		88	19 - 145	5	50
Phenanthrene			1.63	1.261	mg/Kg		77	21 - 122	4	50
Phenol			1.63	1.170	mg/Kg		72	15 - 120	10	50
Pyrene			1.63	1.394	mg/Kg		85	20 - 123	10	50

Surrogate	Matrix Spike Dup	Matrix Spike Dup	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	86		10 - 120
2-Fluorobiphenyl (Surr)	69		29 - 120
2-Fluorophenol (Surr)	73		10 - 120
Nitrobenzene-d5 (Surr)	75		27 - 120
Phenol-d5 (Surr)	74		10 - 120
Terphenyl-d14 (Surr)	86		13 - 120

## Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

**Lab Sample ID: 123631-4**

**Matrix: Soil**

**Analysis Batch: 123505**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 123505\_P**

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C10-C12 Aliphatics	ND		5.00		mg/Kg		11/21/13 08:31	11/21/13 19:34	1
C12-C16 Aliphatics	ND		5.00		mg/Kg		11/21/13 08:31	11/21/13 19:34	1
C16-C21 Aliphatics	ND		5.00		mg/Kg		11/21/13 08:31	11/21/13 19:34	1
C21-C34 Aliphatics	ND		5.00		mg/Kg		11/21/13 08:31	11/21/13 19:34	1

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC (Continued))

**Lab Sample ID: 123631-4**  
**Matrix: Soil**  
**Analysis Batch: 123505**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 123505\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C8-C10 Aliphatics	ND		5.00		mg/Kg		11/21/13 08:31	11/21/13 19:34	1
Surrogate	%Recovery	Blank Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	89		60 - 140				11/21/13 08:31	11/21/13 19:34	1

**Lab Sample ID: 123637-4**  
**Matrix: Soil**  
**Analysis Batch: 123505**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 123505\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	ND		5.00		mg/Kg		11/21/13 08:31	11/21/13 16:04	1
C12-C16 Aromatics	ND		5.00		mg/Kg		11/21/13 08:31	11/21/13 16:04	1
C16-C21 Aromatics	ND		5.00		mg/Kg		11/21/13 08:31	11/21/13 16:04	1
C21-C34 Aromatics	ND		5.00		mg/Kg		11/21/13 08:31	11/21/13 16:04	1
C8-C10 Aromatics	ND		5.00		mg/Kg		11/21/13 08:31	11/21/13 16:04	1
Surrogate	%Recovery	Blank Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Bromonaphthalene	70		60 - 140				11/21/13 08:31	11/21/13 16:04	1
2-Fluorobiphenyl (Surr)	99		60 - 140				11/21/13 08:31	11/21/13 16:04	1
o-Terphenyl	90		60 - 140				11/21/13 08:31	11/21/13 16:04	1

**Lab Sample ID: 123631-5**  
**Matrix: Soil**  
**Analysis Batch: 123505**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 123505\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
C10-C12 Aliphatics	5.00	ND		mg/Kg		91	70 - 130
C12-C16 Aliphatics	10.0	8.823		mg/Kg		88	70 - 130
C16-C21 Aliphatics	15.0	17.69		mg/Kg		118	70 - 130
C21-C34 Aliphatics	25.0	25.83		mg/Kg		103	70 - 130
C8-C10 Aliphatics	10.0	7.799		mg/Kg		78	50 - 150
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctadecane	82		60 - 140				

**Lab Sample ID: 123637-5**  
**Matrix: Soil**  
**Analysis Batch: 123505**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 123505\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
C10-C12 Aromatics	5.00	ND		mg/Kg		89	70 - 130
C12-C16 Aromatics	15.0	14.78		mg/Kg		99	70 - 130
C16-C21 Aromatics	25.0	21.53		mg/Kg		86	70 - 130
C21-C34 Aromatics	40.0	33.57		mg/Kg		84	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
2-Bromonaphthalene	89		60 - 140				

TestAmerica Spokane



# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC (Continued))

**Lab Sample ID: 123637-5**  
**Matrix: Soil**  
**Analysis Batch: 123505**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 123505\_P**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	104		60 - 140
o-Terphenyl	96		60 - 140

## Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC)

**Lab Sample ID: 123266-5**  
**Matrix: Soil**  
**Analysis Batch: 123261**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 123261\_P**

Analyte	Blank Blank		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C10-C12 Aliphatics	ND		5.00		mg/Kg		11/20/13 09:06	11/20/13 09:06	1
C10-C12 Aromatics	ND		5.00		mg/Kg		11/20/13 09:06	11/20/13 09:06	1
C12-C13 Aromatics	ND		5.00		mg/Kg		11/20/13 09:06	11/20/13 09:06	1
C5-C6 Aliphatics	ND		5.00		mg/Kg		11/20/13 09:06	11/20/13 09:06	1
C6-C8 Aliphatics	ND		5.00		mg/Kg		11/20/13 09:06	11/20/13 09:06	1
C8-C10 Aliphatics	ND		5.00		mg/Kg		11/20/13 09:06	11/20/13 09:06	1
C8-C10 Aromatics	ND		5.00		mg/Kg		11/20/13 09:06	11/20/13 09:06	1

Surrogate	Blank Blank		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,5-Dibromotoluene (fid)	108		60 - 140	11/20/13 09:06	11/20/13 09:06	1
2,5-Dibromotoluene (pid)	117		60 - 140	11/20/13 09:06	11/20/13 09:06	1

**Lab Sample ID: 123266-2**  
**Matrix: Soil**  
**Analysis Batch: 123261**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 123261\_P**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
C10-C12 Aliphatics	0.200	0.2340		mg/Kg		117	70 - 130
C10-C12 Aromatics	0.100	0.1156		mg/Kg		116	70 - 130
C12-C13 Aromatics	0.100	0.1054		mg/Kg		105	70 - 130
C5-C6 Aliphatics	0.300	0.3114		mg/Kg		104	70 - 130
C6-C8 Aliphatics	0.200	0.1904		mg/Kg		95	70 - 130
C8-C10 Aliphatics	0.600	0.6041		mg/Kg		101	70 - 130
C8-C10 Aromatics	0.500	0.5317		mg/Kg		106	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,5-Dibromotoluene (fid)	109		60 - 140
2,5-Dibromotoluene (pid)	119		60 - 140

**Lab Sample ID: 123266-3**  
**Matrix: Soil**  
**Analysis Batch: 123261**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total**  
**Prep Batch: 123261\_P**

Analyte	Spike Added	LCS Dup LCS Dup		Unit	D	%Rec	Limits	RPD	
		Result	Qualifier					RPD	Limit
C10-C12 Aliphatics	0.200	0.2274		mg/Kg		114	70 - 130	3	25
C10-C12 Aromatics	0.100	0.1107		mg/Kg		111	70 - 130	4	25
C12-C13 Aromatics	0.100	ND		mg/Kg		100	70 - 130	5	25

TestAmerica Spokane



# QC Sample Results

Client: Geo Engineers - Spokane  
 Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC) (Continued)

**Lab Sample ID: 123266-3**

**Matrix: Soil**

**Analysis Batch: 123261**

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

**Prep Type: Total**

**Prep Batch: 123261\_P**

Analyte	Spike	LCS Dup	LCS Dup	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
C5-C6 Aliphatics	0.300	0.3104		mg/Kg		103	70 - 130	0	25
C6-C8 Aliphatics	0.200	0.1908		mg/Kg		95	70 - 130	0	25
C8-C10 Aliphatics	0.600	0.6074		mg/Kg		101	70 - 130	1	25
C8-C10 Aromatics	0.500	0.5322		mg/Kg		106	70 - 130	0	25

Surrogate	LCS Dup	LCS Dup	Limits
	%Recovery	Qualifier	
2,5-Dibromotoluene (fid)	104		60 - 140
2,5-Dibromotoluene (pid)	114		60 - 140



# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Client Sample ID: NDP8-TP1(6)

Lab Sample ID: SWK0096-01

Date Collected: 11/12/13 10:50

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.05	13K0068_P	11/18/13 10:07	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0068	11/21/13 08:43	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0105_P	11/18/13 14:50	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0105	11/19/13 11:12	MS	TAL SPK

## Client Sample ID: NDP8-TP2(6)

Lab Sample ID: SWK0096-02

Date Collected: 11/12/13 09:06

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.16	13K0068_P	11/18/13 10:07	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0068	11/20/13 17:38	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0105_P	11/18/13 14:50	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0105	11/19/13 11:12	MS	TAL SPK

## Client Sample ID: NDP8-TP3(6)

Lab Sample ID: SWK0096-03

Date Collected: 11/12/13 08:25

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 49.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		2.12	13K0068_P	11/18/13 10:07	MS	TAL SPK
Total	Analysis	NWTPH-Dx		10.0	13K0068	11/21/13 09:06	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0105_P	11/18/13 14:50	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0105	11/19/13 11:12	MS	TAL SPK

## Client Sample ID: NDP8-TP4(5.5)

Lab Sample ID: SWK0096-04

Date Collected: 11/12/13 10:20

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 72.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.27	13K0068_P	11/18/13 10:07	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0068	11/20/13 18:21	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0105_P	11/18/13 14:50	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0105	11/19/13 11:12	MS	TAL SPK

## Client Sample ID: NDP8-TP5(6.5)

Lab Sample ID: SWK0096-05

Date Collected: 11/12/13 09:45

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	NWTPH-Gx		1.00	13K0066	11/18/13 12:58	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		1.01	13K0066_P	11/18/13 09:39	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13K0066	11/18/13 12:58	CBW	TAL SPK

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: NDP8-TP5(6.5)**

**Lab Sample ID: SWK0096-05**

Date Collected: 11/12/13 09:45

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.21	13K0068_P	11/18/13 10:07	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0068	11/20/13 19:26	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0105_P	11/18/13 14:50	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0105	11/19/13 11:12	MS	TAL SPK
Total	Prep	5035			123261_P	11/20/13 01:08		TAL NSH
Total	Analysis	NWTPH/VPH		1	123261	11/20/13 09:50	KML	TAL NSH
Total	Prep	3541			123505_P	11/21/13 08:31		TAL NSH
Total	Analysis	NWTPH/EPH		1	123505	11/21/13 17:04	KKH	TAL NSH
Total	Prep	3550B			123324_P	11/20/13 09:07		TAL NSH
Total	Analysis	8270C		1	123324	11/21/13 20:51	KJP	TAL NSH
Total	Prep	NA	RE1		124558_P	11/25/13 14:59		TAL NSH
Total	Analysis	NWTPH/VPH	RE1	1	124558	11/25/13 14:59	DO1	TAL NSH
Total	Prep	3541	RE1		123505_P	11/21/13 08:31		TAL NSH
Total	Analysis	NWTPH/EPH	RE1	1	123505	11/21/13 20:35	KKH	TAL NSH
Total	Prep	3541	RE2		123505_P	11/21/13 08:31		TAL NSH
Total	Analysis	NWTPH/EPH	RE2	1	123505	11/22/13 14:22	KKH	TAL NSH

**Client Sample ID: SDP14-TP1(2)**

**Lab Sample ID: SWK0096-06**

Date Collected: 11/12/13 11:25

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		0.975	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0078	11/20/13 20:31	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

**Client Sample ID: SDP14-TP2(2)**

**Lab Sample ID: SWK0096-07**

Date Collected: 11/12/13 11:35

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.45	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0078	11/20/13 20:53	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

**Client Sample ID: SDP75A-TP1(2.5)**

**Lab Sample ID: SWK0096-08**

Date Collected: 11/12/13 11:58

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.50	13K0078_P	11/20/13 06:27	MS	TAL SPK

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Client Sample ID: SDP75A-TP1(2.5)

Lab Sample ID: SWK0096-08

Date Collected: 11/12/13 11:58

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	NWTPH-Dx		5.00	13K0078	11/22/13 10:34	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

## Client Sample ID: SDP75A-TP1a(3)

Lab Sample ID: SWK0096-09

Date Collected: 11/13/13 07:30

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 73.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.52	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		10.0	13K0078	11/22/13 10:57	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

## Client Sample ID: SDP75A-TP2(3)

Lab Sample ID: SWK0096-10

Date Collected: 11/12/13 12:45

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.55	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		20.0	13K0078	11/21/13 09:28	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

## Client Sample ID: SDP75A-TP2a(2)

Lab Sample ID: SWK0096-11

Date Collected: 11/13/13 09:20

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.02	13K0066_P	11/18/13 09:39	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	13K0066	11/18/13 13:18	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13K0066	11/18/13 13:18	CBW	TAL SPK
Total	Prep	EPA 3550B		1.45	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		5.00	13K0078	11/22/13 11:20	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK
Total	Prep	5035			123261_P	11/20/13 01:08		TAL NSH
Total	Analysis	NWTPH/VPH		1	123261	11/20/13 10:23	KML	TAL NSH
Total	Prep	3541			123505_P	11/21/13 08:31		TAL NSH
Total	Analysis	NWTPH/EPH		1	123505	11/21/13 17:34	KKH	TAL NSH
Total	Prep	3550B			123324_P	11/20/13 09:07		TAL NSH
Total	Analysis	8270C		1	123324	11/21/13 21:14	KJP	TAL NSH
Total	Prep	NA	RE1		124558_P	11/25/13 14:59		TAL NSH

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP75A-TP2a(2)**

**Lab Sample ID: SWK0096-11**

Date Collected: 11/13/13 09:20

Matrix: Soil

Date Received: 11/15/13 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	NWTPH/VPH	RE1	1	124558	11/25/13 14:59	DO1	TAL NSH
Total	Prep	3541	RE1		123505_P	11/21/13 08:31		TAL NSH
Total	Analysis	NWTPH/EPH	RE1	1	123505	11/21/13 21:05	KKH	TAL NSH
Total	Prep	3541	RE2		123505_P	11/21/13 08:31		TAL NSH
Total	Analysis	NWTPH/EPH	RE2	5	123505	11/22/13 10:50	KKH	TAL NSH
Total	Prep	3541	RE3		123505_P	11/21/13 08:31		TAL NSH
Total	Analysis	NWTPH/EPH	RE3	5	123505	11/22/13 14:52	KKH	TAL NSH
Total	Prep	3541	RE4		123505_P	11/21/13 08:31		TAL NSH
Total	Analysis	NWTPH/EPH	RE4	40	123505	11/22/13 15:22	KKH	TAL NSH

**Client Sample ID: SDP75A-TP3(2.5)**

**Lab Sample ID: SWK0096-12**

Date Collected: 11/12/13 12:30

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.36	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0078	11/21/13 00:08	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

**Client Sample ID: SDP75A-TP4(2)**

**Lab Sample ID: SWK0096-13**

Date Collected: 11/12/13 12:10

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 87

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.33	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0078	11/21/13 00:29	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

**Client Sample ID: SDP75A-TP5(3)**

**Lab Sample ID: SWK0096-14**

Date Collected: 11/12/13 13:00

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.990	13K0066_P	11/18/13 09:39	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	13K0066	11/18/13 13:38	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13K0066	11/18/13 13:38	CBW	TAL SPK
Total	Prep	EPA 3550B		1.49	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		20.0	13K0078	11/21/13 09:51	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK
Total	Prep	5035			123261_P	11/20/13 01:08		TAL NSH

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP75A-TP5(3)**

**Lab Sample ID: SWK0096-14**

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

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	NWTPH/VPH		1	123261	11/20/13 10:55	KML	TAL NSH
Total	Prep	3541			123505_P	11/21/13 08:31		TAL NSH
Total	Analysis	NWTPH/EPH		1	123505	11/21/13 18:04	KKH	TAL NSH
Total	Prep	3550B			123324_P	11/20/13 09:07		TAL NSH
Total	Analysis	8270C		1	123324	11/21/13 21:37	KJP	TAL NSH
Total	Prep	NA	RE1		124558_P	11/25/13 14:59		TAL NSH
Total	Analysis	NWTPH/VPH	RE1	1	124558	11/25/13 14:59	DO1	TAL NSH
Total	Prep	3541	RE1		123505_P	11/21/13 08:31		TAL NSH
Total	Analysis	NWTPH/EPH	RE1	1	123505	11/21/13 21:35	KKH	TAL NSH
Total	Prep	3541	RE2		123505_P	11/21/13 08:31		TAL NSH
Total	Analysis	NWTPH/EPH	RE2	10	123505	11/22/13 11:21	KKH	TAL NSH
Total	Prep	3541	RE3		123505_P	11/21/13 08:31		TAL NSH
Total	Analysis	NWTPH/EPH	RE3	10	123505	11/22/13 15:52	KKH	TAL NSH
Total	Prep	3541	RE4		123505_P	11/21/13 08:31		TAL NSH
Total	Analysis	NWTPH/EPH	RE4	100	123505	11/22/13 16:22	KKH	TAL NSH

**Client Sample ID: SDP81-TP1(2)**

**Lab Sample ID: SWK0096-15**

**Date Collected: 11/12/13 14:20**

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

**Percent Solids: 81**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.08	13K0066_P	11/18/13 09:39	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	13K0066	11/18/13 13:57	CBW	TAL SPK
Total	Prep	EPA 3550B		1.43	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0078	11/21/13 01:12	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

**Client Sample ID: SDP81-TP2(2)**

**Lab Sample ID: SWK0096-16**

**Date Collected: 11/12/13 14:07**

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

**Percent Solids: 74.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.02	13K0066_P	11/18/13 09:39	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	13K0066	11/18/13 14:17	CBW	TAL SPK
Total	Prep	EPA 3550B		1.47	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0078	11/21/13 01:34	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP81-TP3(2)**

**Lab Sample ID: SWK0096-17**

Date Collected: 11/12/13 13:50

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 45.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		2.76	13K0066_P	11/18/13 09:39	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	13K0066	11/18/13 14:37	CBW	TAL SPK
Total	Prep	EPA 3550B		1.60	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0078	11/21/13 01:55	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

**Client Sample ID: SDP81-TP4(2)**

**Lab Sample ID: SWK0096-18**

Date Collected: 11/12/13 13:40

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.27	13K0066_P	11/18/13 09:39	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	13K0066	11/18/13 14:57	CBW	TAL SPK
Total	Prep	EPA 3550B		1.61	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0078	11/21/13 02:17	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

**Client Sample ID: SDP88-TP1(3.5)**

**Lab Sample ID: SWK0096-19**

Date Collected: 11/12/13 15:20

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 34.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.543	13K0072_P	11/19/13 09:48	JSP	TAL SPK
Total	Analysis	EPA 7471B		5.00	13K0072	11/19/13 14:30	ZZZ	TAL SPK
Total	Analysis	TA SOP		1.00	13K0119	11/25/13 15:08	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13K0119_P	11/25/13 15:08	JSP	TAL SPK

**Client Sample ID: SDP88-TP2(3)**

**Lab Sample ID: SWK0096-20**

Date Collected: 11/12/13 15:10

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 31.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		1.02	13K0072_P	11/19/13 09:48	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13K0072	11/19/13 14:18	ZZZ	TAL SPK
Total	Analysis	TA SOP		1.00	13K0119	11/25/13 15:08	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13K0119_P	11/25/13 15:08	JSP	TAL SPK

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP88-TP3(4)**

**Lab Sample ID: SWK0096-21**

Date Collected: 11/12/13 15:05

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 62.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.382	13K0072_P	11/19/13 09:48	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13K0072	11/19/13 14:20	ZZZ	TAL SPK
Total	Analysis	TA SOP		1.00	13K0119	11/25/13 15:08	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13K0119_P	11/25/13 15:08	JSP	TAL SPK

**Client Sample ID: SDP88-TP4(3)**

**Lab Sample ID: SWK0096-22**

Date Collected: 11/12/13 15:15

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.725	13K0072_P	11/19/13 09:48	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13K0072	11/19/13 14:28	ZZZ	TAL SPK
Total	Analysis	TA SOP		1.00	13K0119	11/25/13 15:08	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13K0119_P	11/25/13 15:08	JSP	TAL SPK

**Client Sample ID: SDP101-TP1(3)**

**Lab Sample ID: SWK0096-23**

Date Collected: 11/12/13 16:20

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.46	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0078	11/21/13 02:38	MRS	TAL SPK
Total	Prep	EPA 7471		0.833	13L0090_P	12/17/13 09:21	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0090	12/17/13 14:32	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

**Client Sample ID: SDP101-TP2(3.5)**

**Lab Sample ID: SWK0096-24**

Date Collected: 11/12/13 16:00

Matrix: Soil

Date Received: 11/15/13 13:25

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.28	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0078	11/21/13 03:00	MRS	TAL SPK
Total	Prep	EPA 7471		0.893	13L0090_P	12/17/13 09:21	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0090	12/17/13 14:41	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK



# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: SDP101-TP3(3)**

**Lab Sample ID: SWK0096-25**

**Date Collected: 11/12/13 16:10**

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

**Percent Solids: 79.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.46	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0078	11/21/13 04:05	MRS	TAL SPK
Total	Prep	EPA 7471		1.02	13L0090_P	12/17/13 09:21	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0090	12/17/13 14:43	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

**Client Sample ID: SDP101-TP5(2.5)**

**Lab Sample ID: SWK0096-26**

**Date Collected: 11/13/13 09:45**

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

**Percent Solids: 78.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.43	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0078	11/21/13 04:26	MRS	TAL SPK
Total	Prep	EPA 7471		0.862	13L0090_P	12/17/13 09:21	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0090	12/17/13 14:45	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

**Client Sample ID: SDP75A-TP3a(2.5)**

**Lab Sample ID: SWK0096-27**

**Date Collected: 11/13/13 07:45**

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

**Percent Solids: 86.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.02	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0078	11/21/13 04:48	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

**Client Sample ID: SDP75A-TP1b(2)**

**Lab Sample ID: SWK0096-28**

**Date Collected: 11/13/13 08:20**

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

**Percent Solids: 71.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.29	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		10.0	13K0078	11/22/13 11:42	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

# Lab Chronicle

Client: Geo Engineers - Spokane  
 Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: Upstream-111313**

**Lab Sample ID: SWK0096-29**

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

**Matrix: Water**

**Date Received: 11/15/13 13:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3005A		1.25	13K0067_P	11/18/13 09:25	JSP	TAL SPK
Total	Analysis	EPA 200.7		1.00	13K0067	11/22/13 09:18	ICP	TAL SPK
Dissolved	Analysis	EPA 200.7		1.00	13K0099	11/22/13 15:14	ICP	TAL SPK
Dissolved	Prep	EPA 3005A		1.25	13K0099_P	11/22/13 08:32	JSP	TAL SPK
Total	Analysis	EPA 200.7		1.00	13K0067	11/22/13 15:27	ICP	TAL SPK
Dissolved	Prep	EPA 200 Series		1.25	13K0101_P	11/22/13 08:36	JSP	TAL SPK
Dissolved	Analysis	EPA 245.1 mod		1.00	13K0101	11/25/13 12:38	ZZZ	TAL SPK
Total	Prep	EPA 200 Series		1.67	13K0101_P	11/22/13 08:36	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	13K0101	11/25/13 12:45	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.32	13K0088_P	11/21/13 09:11	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13K0088	11/21/13 16:20	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13K0091_P	11/21/13 09:14	JSP	TAL SPK
Total	Analysis	EPA 120.1		1.00	13K0091	11/21/13 16:16	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13K0073_P	11/19/13 10:05	JSP	TAL SPK
Total	Analysis	SM4500H+B		1.00	13K0073	11/19/13 15:48	JSP	TAL SPK

**Client Sample ID: Midstream-111313**

**Lab Sample ID: SWK0096-30**

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

**Matrix: Water**

**Date Received: 11/15/13 13:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	EPA 200.7		1.00	13K0099	11/22/13 15:17	ICP	TAL SPK
Total	Prep	EPA 3005A		1.25	13K0067_P	11/18/13 09:25	JSP	TAL SPK
Total	Analysis	EPA 200.7		1.00	13K0067	11/22/13 15:30	ICP	TAL SPK
Dissolved	Prep	EPA 3005A		1.25	13K0099_P	11/22/13 08:32	JSP	TAL SPK
Dissolved	Prep	EPA 200 Series		1.25	13K0101_P	11/22/13 08:36	JSP	TAL SPK
Dissolved	Analysis	EPA 245.1 mod		1.00	13K0101	11/25/13 12:48	ZZZ	TAL SPK
Total	Prep	EPA 200 Series		1.67	13K0101_P	11/22/13 08:36	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	13K0101	11/25/13 12:50	ZZZ	TAL SPK
Total	Analysis	EPA 200.7		1.00	13K0067	11/22/13 09:20	ICP	TAL SPK
Total	Prep	Wet Chem		1.23	13K0088_P	11/21/13 09:11	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13K0088	11/21/13 16:20	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13K0091_P	11/21/13 09:14	JSP	TAL SPK
Total	Analysis	EPA 120.1		1.00	13K0091	11/21/13 16:16	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13K0073_P	11/19/13 10:05	JSP	TAL SPK
Total	Analysis	SM4500H+B		1.00	13K0073	11/19/13 15:48	JSP	TAL SPK

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

**Client Sample ID: Downstream-111313**

**Lab Sample ID: SWK0096-31**

**Date Collected: 11/13/13 11:05**

**Matrix: Water**

**Date Received: 11/15/13 13:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	EPA 3005A		1.25	13K0099_P	11/22/13 08:32	JSP	TAL SPK
Dissolved	Analysis	EPA 200.7		1.00	13K0099	11/22/13 15:20	ICP	TAL SPK
Total	Analysis	EPA 200.7		1.00	13K0067	11/22/13 15:32	ICP	TAL SPK
Total	Prep	EPA 3005A		1.25	13K0067_P	11/18/13 09:25	JSP	TAL SPK
Dissolved	Prep	EPA 200 Series		1.25	13K0101_P	11/22/13 08:36	JSP	TAL SPK
Dissolved	Analysis	EPA 245.1 mod		1.00	13K0101	11/25/13 12:52	ZZZ	TAL SPK
Total	Prep	EPA 200 Series		1.67	13K0101_P	11/22/13 08:36	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	13K0101	11/25/13 12:54	ZZZ	TAL SPK
Total	Analysis	EPA 200.7		1.00	13K0067	11/22/13 09:23	ICP	TAL SPK
Total	Prep	Wet Chem		1.27	13K0088_P	11/21/13 09:11	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13K0088	11/21/13 16:20	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13K0091_P	11/21/13 09:14	JSP	TAL SPK
Total	Analysis	EPA 120.1		1.00	13K0091	11/21/13 16:16	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13K0073_P	11/19/13 10:05	JSP	TAL SPK
Total	Analysis	SM4500H+B		1.00	13K0073	11/19/13 15:48	JSP	TAL SPK

**Client Sample ID: SDP101-TP4(3)**

**Lab Sample ID: SWK0096-32**

**Date Collected: 11/12/13 16:20**

**Matrix: Soil**

**Date Received: 11/15/13 13:25**

**Percent Solids: 82.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 3550B		1.40	13K0078_P	11/20/13 06:27	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0078	11/21/13 05:31	MRS	TAL SPK
Total	Prep	EPA 7471		1.02	13L0090_P	12/17/13 09:21	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0090	12/17/13 14:48	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	13K0106_P	11/20/13 11:25	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0106	11/21/13 11:21	MS	TAL SPK

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (800) 765-0980

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

# Certification Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

## Laboratory: TestAmerica Spokane

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14

## Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-15
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-14
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-15

TestAmerica Spokane

# Method Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWK0096

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by EPA Method 8260C		TAL SPK
NWTPH-Gx	Gasoline Hydrocarbons by NWTPH-Gx		TAL SPK
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup		TAL SPK
EPA 200.7	Dissolved Metals by EPA 200 Series Methods		TAL SPK
EPA 200.7	Total Metals by EPA 200 Series Methods		TAL SPK
EPA 245.1	Total Metals by EPA 200 Series Methods		TAL SPK
EPA 245.1 mod	Dissolved Metals by EPA 200 Series Methods		TAL SPK
EPA 7471B	Total Metals by EPA 6010/7000 Series Methods		TAL SPK
EPA 120.1	Physical Parameters by APHA/ASTM/EPA Methods		TAL SPK
SM 2320B	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK
SM4500H+B	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK
8270C	Semivolatile Organic Compounds (GC/MS)		TAL NSH
NWTPH/EPH	Northwest - Extractable Petroleum Hydrocarbons (GC)		TAL NSH
NWTPH/PH	Northwest - Volatile Petroleum Hydrocarbons (GC)		TAL NSH

#### Protocol References:

#### Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (800) 765-0980

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

## CHAIN OF CUSTODY REPORT

Work Order #: SNK0096

CLIENT: <u>GEOTECHNICAL ENGINEERS INC.</u>		INVOICE TO: <u>D. LAUDER</u>		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: _____ * Turnaround Request less than standard may incur Rush Charges.					
REPORT TO: <u>D. LAUDER</u>		ADDRESS: <u>dlauder@geoengineers.com</u>						PRESERVATIVE	
PHONE: <u>509 363 3125</u> FAX:		P.O. NUMBER:						REQUESTED ANALYSES	
PROJECT NAME: <u>CASHMERE MILLSITE TEST PITS</u>		PROJECT NUMBER: <u>18593-001-02</u>		SAMPLED BY: <u>EMMA HOGAN</u>					
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MMTPH-DK MMSI	MMTPH -5X	EPH + SVOCs	VPH + VOCs	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
NDP8-TP1(6)	11/12/13 1050	✓				S	1		
NDP8-TP2(6)	11/12/13 0906	✓					1		
NDP8-TP3(6)	11/12/13 0825	✓					1		
NDP8-TP4(5.5)	11/12/13 1020	✓					1		
NDP8-TP5(6.5)	11/12/13 0945	✓	✓	✓	✓		6		
SDP14TP1(2)	11/12/13 1125	✓					1		
SDP14TP2(2)	11/12/13 1135	✓					1		
SDP75A-TP1(2.5)	11/12/13 1158	✓					1		
SDP75A-TP1a(3)	11/13/13 0730	✓					1		
SDP75A-TP2(3)	11/12/13 1245	✓					1		
RELEASED BY: <u>EMMA HOGAN</u> FIRM: <u>GEI</u>	DATE: <u>11/15/13</u>	RECEIVED BY: <u>Pat Sheehan</u>	DATE: <u>11-18-13</u>	FIRM: <u>TestAmerica</u>		DATE: <u>11-18-13</u>			
PRINT NAME: _____	TIME: _____	PRINT NAME: _____	TIME: <u>8:25</u>	FIRM: _____		DATE: _____			
RELEASED BY: _____	DATE: _____	RECEIVED BY: _____	DATE: _____	FIRM: _____		DATE: _____			
PRINT NAME: _____	TIME: _____	PRINT NAME: _____	TIME: _____	FIRM: _____		DATE: _____			
ADDITIONAL REMARKS: <u>Use Litra Gel Cleanup for -Dioxanalyses; Use 5 Day TAT</u>							TEMP: <u>21</u>	PAGE <u>1</u> OF <u>3</u>	

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SNK0096

CHAIN OF CUSTODY RECORD

**GeoEngineers**  
**523 EAST SECOND AVE.**  
**SPOKANE, WASHINGTON 99202**  
**(509) 363-3125**

DATE 11/15/2013  
 PAGE 2 OF 3  
 LAB TEST AMERIC  
 LAB NO. \_\_\_\_\_

PROJECT NAME/LOCATION <u>ASTMARE MULTEST PITS</u>					ANALYSIS REQUIRED					NOTES/COMMENTS (Preserved, filtered, etc.)	
PROJECT NUMBER <u>18513-001-02</u>					NWTPH-Dx Stage	NWTPH-Gx	EPA 8210C	VPH+VOCs	Mercury		
PROJECT MANAGER <u>DAVE LAUDER</u>											
SAMPLED BY <u>ELLYA HOGAN</u>											
SAMPLE IDENTIFICATION		SAMPLE COLLECTION			# OF JARS						
LAB	GEOENGINEERS	DATE	TIME	MATRIX							
	SDP75A-TP2a(2)	11/13/13	0910	S	6	✓	✓	✓	✓		5 DAY NAT
	SDP75A-TP3(2.5)	11/14/13	1230		1	✓					
	SDP75A-TP4(2)	11/12/13	1210		1	✓					
	SDP75A-TP5(3)	11/14/13	1300		6	✓	✓	✓	✓		
	SDP81-TP1(2)	11/12/13	1420		3	✓	✓				
	SDP81-TP2(2)	11/12/13	1407		3	✓	✓				
	SDP81-TP3(2)	11/14/13	1350		3	✓	✓				
	SDP81-TP4(2)	11/12/13	1340		3	✓	✓				
	SDP88-TP1(3.5)	11/14/13	1520		1				✓		
	SDP88-TP2(3)	11/14/13	1510		1				✓		
	SDP88-TP3(4)	11/12/13	1505	✓	1				✓		

RELINQUISHED BY SIGNATURE <u>Ellya Hogan</u> PRINTED NAME <u>ELLYA HOGAN</u> DATE <u>11/15/13</u> TIME _____	FIRM <u>GEI</u>	RELINQUISHED BY SIGNATURE <u>At - Bob</u> PRINTED NAME _____ DATE _____ TIME _____	FIRM _____	RELINQUISHED BY SIGNATURE _____ PRINTED NAME _____ DATE _____ TIME _____	FIRM _____
RECEIVED BY SIGNATURE <u>At - Shannon</u> PRINTED NAME <u>At Shannon</u> DATE <u>11/15/13</u> TIME <u>13:25</u>	FIRM <u>TA</u>	RECEIVED BY SIGNATURE _____ PRINTED NAME _____ DATE _____ TIME _____	FIRM _____	RECEIVED BY SIGNATURE _____ PRINTED NAME _____ DATE _____ TIME _____	FIRM _____

ADDITIONAL COMMENTS:  
 Use Silica-sol cleanup for NWTPH-Dx analyses  
 Use EPA 8210C Series Methods for Mercury analysis  
 5-day NAT for all samples

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12/19/2013





SNK0096

CHAIN OF CUSTODY RECORD

**GeoEngineers**  
**523 EAST SECOND AVE.**  
**SPOKANE, WASHINGTON 99202**  
**(509) 363-3125**

total dissolved

DATE 11/15/2013  
 PAGE 3 OF 3  
 LAB TEST AMERICA  
 LAB NO. \_\_\_\_\_

PROJECT NAME/LOCATION <u>CASIMERE MULL TEST PITS</u>					ANALYSIS REQUIRED											NOTES/COMMENTS (Preserved, filtered, etc.)		
PROJECT NUMBER <u>10593-00102</u>					NWTPH-Dx <sup>150</sup>	NWTPH-Gx	EPH+SVCS	VPH+VOCs	Mercury <sup>EPA 8000</sup>	pH	alkalinity	RCRA 8 METALS	Copper <sup>total</sup>	Iron <sup>total</sup>	turbidity		conductivity	
PROJECT MANAGER <u>DAVE LAUDER</u>																SAMPLED BY <u>ELIYA HOGAN</u>		
SAMPLE IDENTIFICATION		SAMPLE COLLECTION			# OF JARS													
LAB	GEOENGINEERS	DATE	TIME	MATRIX														
	SDP58-TP4(3)	11/12/13	1515	S	1													
	SDP101-TP1(3)	11/12/13	1620		1	✓												
	SDP101-TP2(3.5)	11/12/13	1600		1	✓												
	SDP101-TP3(3)	11/12/13	1610		1	✓												
	SDP101-TP4(3)	11/12/13	1620		1	✓												
	SDP101-TP5(2.5)	11/13/13	0945		61	✓	✓	✓	✓									
	SDP75A-TP3(2.5)	11/13/13	0745		1	✓												
	SDP75A-TP1(2)	11/13/13	0820	↓	1	✓												
	UPSTREAM-111313	11/13/13	1130	W	2					✓	✓	✓	✓	✓	✓	✓	✓	✓
	MIDSTREAM-111313	↓	1115	W	2					✓	✓	✓	✓	✓	✓	✓	✓	✓
	DOWNSTREAM-111313	↓	1105	W	2					✓	✓	✓	✓	✓	✓	✓	✓	✓

5-day TAT

RELINQUISHED BY SIGNATURE <u>Ellyah Hogan</u> PRINTED NAME <u>ELIYA HOGAN</u> DATE <u>11/15/13</u> TIME _____	FIRM <u>GEI</u>	RELINQUISHED BY SIGNATURE _____ PRINTED NAME _____ DATE _____ TIME _____	FIRM _____	RELINQUISHED BY SIGNATURE _____ PRINTED NAME _____ DATE _____ TIME _____	FIRM _____
RECEIVED BY SIGNATURE <u>Cat Stapleton</u> PRINTED NAME <u>Cat Stapleton</u> DATE <u>11-15-13</u> TIME <u>13:25</u>	FIRM <u>TA</u>	RECEIVED BY SIGNATURE _____ PRINTED NAME _____ DATE _____ TIME _____	FIRM _____	RECEIVED BY SIGNATURE _____ PRINTED NAME _____ DATE _____ TIME _____	FIRM _____

ADDITIONAL COMMENTS:  
 Use Silica-gel cleanup for NWTPH-Dx analyses  
~~#1~~  
 5-DAY TURN AROUND TIME for all samples  
 Use EPA 1600/7000 series for Mercury analysis





**TestAmerica Spokane  
Sample Receipt Form**

Work Order #: <u>SWK0096</u>	Client: <u>ProEngineers</u>	Project: <u>Cashmere</u>		
Date/Time Received: <u>11-15-13 13:25</u>		By: <u>LS</u>		
Samples Delivered By: <input type="checkbox"/> Shipping Service <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Client <input type="checkbox"/> Other:				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	<u>X</u>			
Custody Seals are present and intact:			<u>1</u>	
Are CoC documents present:	<u>X</u>			
Necessary signatures:	<u>X</u>			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> Gel Ice <input type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:				
Temperature: <u>21</u> °C Thermometer (Circle one Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:				
Log-in Phase	Yes	No	NA	Comments
Date/Time: <u>11-15-13 15:01</u> By: <u>LS</u>				
Are sample labels affixed and completed for each container	<u>X</u>			
Samples containers were received intact:	<u>X</u>			
Do sample IDs match the CoC	<u>X</u>			
Appropriate sample containers were received for tests requested		<u>X</u>		
Are sample volumes adequate for tests requested		<u>X</u>		
Appropriate preservatives were used for the tests requested	<u>X</u>			
pH of inorganic samples checked and is within method specification			<u>X</u>	
Are VOC samples free of bubbles >6mm (1/4" diameter)			<u>X</u>	
Are dissolved parameters field filtered		<u>X</u>		
Do any samples need to be filtered or preserved by the lab	<u>X</u>			
Does this project require quick turnaround analysis	<u>X</u>			<u>5 days</u>
Are there any short hold time tests (see chart below)	<u>X</u>			<u>Turbidity expired upon arrival</u>
Are any samples within 2 days of or past expiration	<u>X</u>			
Was the CoC scanned	<u>X</u>			
Were there Non-conformance issues at login		<u>X</u>		
If yes, was a CAR generated #			<u>X</u>	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane  
11922 East 1st. Avenue  
Spokane, WA 99206  
Tel: (509)924-9200

TestAmerica Job ID: SWL0120

Client Project/Site: 18593-001-02

Client Project Description: Cashmere Mill

For:

Geo Engineers - Spokane  
523 East Second Ave.  
Spokane, WA 99202

Attn: Dave Lauder



Authorized for release by:  
1/9/2014 1:31:04 PM

Randee Decker, Project Manager  
(509)924-9200  
[Randee.Decker@testamericainc.com](mailto:Randee.Decker@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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# Sample Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWL0120-01	TP-B10 (1-2)	Soil	12/19/13 10:51	12/23/13 08:45
SWL0120-02	TP-B10 (3-4)	Soil	12/19/13 11:28	12/23/13 08:45
SWL0120-03	TP-B9 (1-2)	Soil	12/19/13 11:50	12/23/13 08:45
SWL0120-04	TP-B9 (3-4)	Soil	12/19/13 11:54	12/23/13 08:45
SWL0120-05	TP-B11 (1-2)	Soil	12/19/13 12:30	12/23/13 08:45
SWL0120-06	TP-B11 (3-4)	Soil	12/19/13 12:32	12/23/13 08:45
SWL0120-07	TP-B3 (1-2)	Soil	12/19/13 14:45	12/23/13 08:45
SWL0120-08	TP-B3 (3-4)	Soil	12/19/13 14:45	12/23/13 08:45
SWL0120-09	SDP87-TP4(1-2)	Soil	12/19/13 13:20	12/23/13 08:45
SWL0120-10	SDP87-TP4 (2-3)	Soil	12/19/13 13:20	12/23/13 08:45
SWL0120-11	SDP87-TP1(1-2)	Soil	12/19/13 13:45	12/23/13 08:45
SWL0120-12	SDP87-TP1(2-3)	Soil	12/19/13 13:46	12/23/13 08:45
SWL0120-13	SDP87-TP2(1-2)	Soil	12/19/13 14:15	12/23/13 08:45
SWL0120-14	SDP87-TP2 (2-3)	Soil	12/19/13 14:16	12/23/13 08:45
SWL0120-15	TP-B1 (1-2)	Soil	12/20/13 09:15	12/23/13 08:45
SWL0120-16	TP-B1 (4-5)	Soil	12/20/13 09:28	12/23/13 08:45
SWL0120-17	TP-B2 (1-2)	Soil	12/20/13 08:47	12/23/13 08:45
SWL0120-18	TP-B2 (3-4)	Soil	12/20/13 08:49	12/23/13 08:45
SWL0120-19	TP-B4 (1-2)	Soil	12/20/13 10:12	12/23/13 08:45
SWL0120-20	TP-B4 (3-4)	Soil	12/20/13 10:14	12/23/13 08:45
SWL0120-21	TP-B5 (1-2)	Soil	12/20/13 10:37	12/23/13 08:45
SWL0120-22	TP-B5 (3-4)	Soil	12/20/13 10:38	12/23/13 08:45
SWL0120-23	TP-B6 (1-2)	Soil	12/20/13 11:05	12/23/13 08:45
SWL0120-24	TP-B6 (3-4)	Soil	12/20/13 11:06	12/23/13 08:45
SWL0120-25	TP-B7 (1-2)	Soil	12/20/13 11:37	12/23/13 08:45
SWL0120-26	TP-B7 (4-5)	Soil	12/20/13 11:40	12/23/13 08:45
SWL0120-27	TP-B8 (1-2)	Soil	12/20/13 12:14	12/23/13 08:45
SWL0120-28	TP-B8 (4-5)	Soil	12/20/13 12:20	12/23/13 08:45
SWL0120-29	SDP87-TP3(1-2)	Soil	12/20/13 08:05	12/23/13 08:45
SWL0120-30	SDP87-TP3(2-3)	Soil	12/20/13 08:08	12/23/13 08:45

TestAmerica Spokane

# Definitions/Glossary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Qualifiers

### Fuels

Qualifier	Qualifier Description
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
Z6	Surrogate recovery was below acceptance limits.

## Glossary

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

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

**Client Sample ID: TP-B10 (1-2)**

**Lab Sample ID: SWL0120-01**

Date Collected: 12/19/13 10:51

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 86.1

**Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	67.4		50.0		ug/kg dry	☼	12/31/13 09:04	12/31/13 15:05	1.00

**Client Sample ID: TP-B10 (3-4)**

**Lab Sample ID: SWL0120-02**

Date Collected: 12/19/13 11:28

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 85.5

**Method: EPA 8260C - NWTPh-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		8.54		mg/kg dry	☼	12/23/13 13:08	12/23/13 18:16	1.00
Benzene	ND		0.00854		mg/kg dry	☼	12/23/13 13:08	12/23/13 18:16	1.00
Ethylbenzene	ND		0.171		mg/kg dry	☼	12/23/13 13:08	12/23/13 18:16	1.00
Toluene	ND		0.171		mg/kg dry	☼	12/23/13 13:08	12/23/13 18:16	1.00
o-Xylene	ND		0.342		mg/kg dry	☼	12/23/13 13:08	12/23/13 18:16	1.00
m,p-Xylene	ND		0.683		mg/kg dry	☼	12/23/13 13:08	12/23/13 18:16	1.00
Xylenes (total)	ND		2.56		mg/kg dry	☼	12/23/13 13:08	12/23/13 18:16	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	98.3		42.4 - 163	12/23/13 13:08	12/23/13 18:16	1.00
1,2-dichloroethane-d4	95.8		50 - 150	12/23/13 13:08	12/23/13 18:16	1.00
Toluene-d8	101		45.8 - 155	12/23/13 13:08	12/23/13 18:16	1.00
4-bromofluorobenzene	118		41.5 - 162	12/23/13 13:08	12/23/13 18:16	1.00

**Method: NWTPh-Dx - Semivolatile Petroleum Products by NWTPh-Dx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		11.2		mg/kg dry	☼	12/27/13 12:02	12/28/13 00:21	1.00
Heavy Oil Range Hydrocarbons	ND	C	28.1		mg/kg dry	☼	12/27/13 12:02	12/28/13 00:21	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	77.0		50 - 150	12/27/13 12:02	12/28/13 00:21	1.00
n-Triacontane-d62	97.7		50 - 150	12/27/13 12:02	12/28/13 00:21	1.00

**Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		50.0		ug/kg dry	☼	12/31/13 09:04	12/31/13 15:14	1.00

**Client Sample ID: TP-B9 (1-2)**

**Lab Sample ID: SWL0120-03**

Date Collected: 12/19/13 11:50

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 68.1

**Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	103		53.2		ug/kg dry	☼	12/31/13 09:04	12/31/13 15:16	1.00

**Client Sample ID: TP-B9 (3-4)**

**Lab Sample ID: SWL0120-04**

Date Collected: 12/19/13 11:54

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 78

**Method: EPA 8260C - NWTPh-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.36		mg/kg dry	☼	12/23/13 13:08	12/23/13 18:39	1.00
Benzene	ND		0.00736		mg/kg dry	☼	12/23/13 13:08	12/23/13 18:39	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Client Sample ID: TP-B9 (3-4)

Lab Sample ID: SWL0120-04

Date Collected: 12/19/13 11:54

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 78

### Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		0.147		mg/kg dry	☼	12/23/13 13:08	12/23/13 18:39	1.00
Toluene	ND		0.147		mg/kg dry	☼	12/23/13 13:08	12/23/13 18:39	1.00
o-Xylene	ND		0.294		mg/kg dry	☼	12/23/13 13:08	12/23/13 18:39	1.00
m,p-Xylene	ND		0.589		mg/kg dry	☼	12/23/13 13:08	12/23/13 18:39	1.00
Xylenes (total)	ND		2.21		mg/kg dry	☼	12/23/13 13:08	12/23/13 18:39	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	96.1		42.4 - 163	12/23/13 13:08	12/23/13 18:39	1.00
1,2-dichloroethane-d4	95.7		50 - 150	12/23/13 13:08	12/23/13 18:39	1.00
Toluene-d8	101		45.8 - 155	12/23/13 13:08	12/23/13 18:39	1.00
4-bromofluorobenzene	106		41.5 - 162	12/23/13 13:08	12/23/13 18:39	1.00

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		12.7		mg/kg dry	☼	12/27/13 12:02	12/28/13 00:43	1.00
Heavy Oil Range Hydrocarbons	ND	C	31.9		mg/kg dry	☼	12/27/13 12:02	12/28/13 00:43	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	64.6		50 - 150	12/27/13 12:02	12/28/13 00:43	1.00
n-Triacontane-d62	97.0		50 - 150	12/27/13 12:02	12/28/13 00:43	1.00

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		48.1		ug/kg dry	☼	12/31/13 09:04	12/31/13 15:18	1.00

## Client Sample ID: TP-B11 (1-2)

Lab Sample ID: SWL0120-05

Date Collected: 12/19/13 12:30

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 78.7

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	79.3		40.3		ug/kg dry	☼	12/31/13 09:04	12/31/13 15:21	1.00

## Client Sample ID: TP-B11 (3-4)

Lab Sample ID: SWL0120-06

Date Collected: 12/19/13 12:32

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 94.7

### Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.12		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:02	1.00
Benzene	ND		0.00512		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:02	1.00
Ethylbenzene	ND		0.102		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:02	1.00
Toluene	ND		0.102		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:02	1.00
o-Xylene	ND		0.205		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:02	1.00
m,p-Xylene	ND		0.410		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:02	1.00
Xylenes (total)	ND		1.54		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:02	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	98.3		42.4 - 163	12/23/13 13:08	12/23/13 19:02	1.00
1,2-dichloroethane-d4	94.7		50 - 150	12/23/13 13:08	12/23/13 19:02	1.00
Toluene-d8	99.1		45.8 - 155	12/23/13 13:08	12/23/13 19:02	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Client Sample ID: TP-B11 (3-4)

Lab Sample ID: SWL0120-06

Date Collected: 12/19/13 12:32

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 94.7

### Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	104		41.5 - 162	12/23/13 13:08	12/23/13 19:02	1.00

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.4		mg/kg dry	☼	12/27/13 12:02	12/28/13 01:04	1.00
Heavy Oil Range Hydrocarbons	ND	C	26.1		mg/kg dry	☼	12/27/13 12:02	12/28/13 01:04	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	63.1		50 - 150	12/27/13 12:02	12/28/13 01:04	1.00
n-Triacontane-d62	97.8		50 - 150	12/27/13 12:02	12/28/13 01:04	1.00

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		47.2		ug/kg dry	☼	12/31/13 09:04	12/31/13 15:28	1.00

## Client Sample ID: TP-B3 (1-2)

Lab Sample ID: SWL0120-07

Date Collected: 12/19/13 14:45

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 85.6

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	157		51.0		ug/kg dry	☼	12/31/13 09:04	12/31/13 15:30	1.00

## Client Sample ID: TP-B3 (3-4)

Lab Sample ID: SWL0120-08

Date Collected: 12/19/13 14:45

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 77.1

### Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.19		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:26	1.00
Benzene	ND		0.00719		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:26	1.00
Ethylbenzene	ND		0.144		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:26	1.00
Toluene	ND		0.144		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:26	1.00
o-Xylene	ND		0.288		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:26	1.00
m,p-Xylene	ND		0.576		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:26	1.00
Xylenes (total)	ND		2.16		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:26	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	98.7		42.4 - 163	12/23/13 13:08	12/23/13 19:26	1.00
1,2-dichloroethane-d4	98.1		50 - 150	12/23/13 13:08	12/23/13 19:26	1.00
Toluene-d8	101		45.8 - 155	12/23/13 13:08	12/23/13 19:26	1.00
4-bromofluorobenzene	102		41.5 - 162	12/23/13 13:08	12/23/13 19:26	1.00

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	14.6		12.6		mg/kg dry	☼	12/27/13 12:02	12/30/13 12:57	1.00
Heavy Oil Range Hydrocarbons	46.4		31.4		mg/kg dry	☼	12/27/13 12:02	12/30/13 12:57	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	64.0		50 - 150	12/27/13 12:02	12/30/13 12:57	1.00
n-Triacontane-d62	93.3		50 - 150	12/27/13 12:02	12/30/13 12:57	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Client Sample ID: TP-B3 (3-4)

Lab Sample ID: SWL0120-08

Date Collected: 12/19/13 14:45

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 77.1

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		45.5		ug/kg dry	☼	12/31/13 09:04	12/31/13 15:32	1.00

## Client Sample ID: SDP87-TP4(1-2)

Lab Sample ID: SWL0120-09

Date Collected: 12/19/13 13:20

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 84.9

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	480		48.1		ug/kg dry	☼	12/31/13 09:04	12/31/13 15:34	1.00

## Client Sample ID: SDP87-TP4 (2-3)

Lab Sample ID: SWL0120-10

Date Collected: 12/19/13 13:20

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 93.5

### Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.51		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:50	1.00
Benzene	ND		0.00551		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:50	1.00
Ethylbenzene	ND		0.110		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:50	1.00
Toluene	ND		0.110		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:50	1.00
o-Xylene	ND		0.220		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:50	1.00
m,p-Xylene	ND		0.441		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:50	1.00
Xylenes (total)	ND		1.65		mg/kg dry	☼	12/23/13 13:08	12/23/13 19:50	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	99.0		42.4 - 163	12/23/13 13:08	12/23/13 19:50	1.00
1,2-dichloroethane-d4	95.8		50 - 150	12/23/13 13:08	12/23/13 19:50	1.00
Toluene-d8	98.9		45.8 - 155	12/23/13 13:08	12/23/13 19:50	1.00
4-bromofluorobenzene	105		41.5 - 162	12/23/13 13:08	12/23/13 19:50	1.00

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.6		mg/kg dry	☼	12/27/13 12:02	12/28/13 01:48	1.00
Heavy Oil Range Hydrocarbons	ND	C	26.6		mg/kg dry	☼	12/27/13 12:02	12/28/13 01:48	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	67.6		50 - 150	12/27/13 12:02	12/28/13 01:48	1.00
n-Triacontane-d62	97.7		50 - 150	12/27/13 12:02	12/28/13 01:48	1.00

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		40.3		ug/kg dry	☼	12/31/13 09:04	12/31/13 15:37	1.00

## Client Sample ID: SDP87-TP1(1-2)

Lab Sample ID: SWL0120-11

Date Collected: 12/19/13 13:45

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 82.6

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		50.0		ug/kg dry	☼	12/31/13 09:04	12/31/13 15:39	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Client Sample ID: SDP87-TP1(2-3)

Lab Sample ID: SWL0120-12

Date Collected: 12/19/13 13:46

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 77

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		42.4		ug/kg dry	☼	12/31/13 09:04	12/31/13 15:41	1.00

## Client Sample ID: SDP87-TP2(1-2)

Lab Sample ID: SWL0120-13

Date Collected: 12/19/13 14:15

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 83.1

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		41.7		ug/kg dry	☼	12/31/13 09:05	12/31/13 15:55	1.00

## Client Sample ID: SDP87-TP2 (2-3)

Lab Sample ID: SWL0120-14

Date Collected: 12/19/13 14:16

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 78.9

### Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		6.90		mg/kg dry	☼	12/23/13 13:08	12/23/13 20:13	1.00
Benzene	ND		0.00690		mg/kg dry	☼	12/23/13 13:08	12/23/13 20:13	1.00
Ethylbenzene	ND		0.138		mg/kg dry	☼	12/23/13 13:08	12/23/13 20:13	1.00
Toluene	ND		0.138		mg/kg dry	☼	12/23/13 13:08	12/23/13 20:13	1.00
o-Xylene	ND		0.276		mg/kg dry	☼	12/23/13 13:08	12/23/13 20:13	1.00
m,p-Xylene	ND		0.552		mg/kg dry	☼	12/23/13 13:08	12/23/13 20:13	1.00
Xylenes (total)	ND		2.07		mg/kg dry	☼	12/23/13 13:08	12/23/13 20:13	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	99.9		42.4 - 163	12/23/13 13:08	12/23/13 20:13	1.00
1,2-dichloroethane-d4	98.7		50 - 150	12/23/13 13:08	12/23/13 20:13	1.00
Toluene-d8	101		45.8 - 155	12/23/13 13:08	12/23/13 20:13	1.00
4-bromofluorobenzene	103		41.5 - 162	12/23/13 13:08	12/23/13 20:13	1.00

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		12.6		mg/kg dry	☼	12/27/13 12:02	12/30/13 14:27	1.00
Heavy Oil Range Hydrocarbons	ND		31.4		mg/kg dry	☼	12/27/13 12:02	12/30/13 14:27	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	53.6		50 - 150	12/27/13 12:02	12/30/13 14:27	1.00
n-Triacontane-d62	90.5		50 - 150	12/27/13 12:02	12/30/13 14:27	1.00

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		52.1		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:04	1.00

## Client Sample ID: TP-B1 (1-2)

Lab Sample ID: SWL0120-15

Date Collected: 12/20/13 09:15

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 79.7

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	223		43.9		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:07	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Client Sample ID: TP-B1 (4-5)

Date Collected: 12/20/13 09:28

Date Received: 12/23/13 08:45

## Lab Sample ID: SWL0120-16

Matrix: Soil

Percent Solids: 46.7

### Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		17.3		mg/kg dry	☼	12/23/13 13:08	12/23/13 20:37	1.00
Benzene	ND		0.0173		mg/kg dry	☼	12/23/13 13:08	12/23/13 20:37	1.00
Ethylbenzene	ND		0.346		mg/kg dry	☼	12/23/13 13:08	12/23/13 20:37	1.00
Toluene	ND		0.346		mg/kg dry	☼	12/23/13 13:08	12/23/13 20:37	1.00
o-Xylene	ND		0.692		mg/kg dry	☼	12/23/13 13:08	12/23/13 20:37	1.00
m,p-Xylene	ND		1.38		mg/kg dry	☼	12/23/13 13:08	12/23/13 20:37	1.00
Xylenes (total)	ND		5.19		mg/kg dry	☼	12/23/13 13:08	12/23/13 20:37	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	98.0		42.4 - 163	12/23/13 13:08	12/23/13 20:37	1.00
1,2-dichloroethane-d4	99.3		50 - 150	12/23/13 13:08	12/23/13 20:37	1.00
Toluene-d8	99.0		45.8 - 155	12/23/13 13:08	12/23/13 20:37	1.00
4-bromofluorobenzene	106		41.5 - 162	12/23/13 13:08	12/23/13 20:37	1.00

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		104		mg/kg dry	☼	12/27/13 12:02	12/28/13 02:31	5.00
Heavy Oil Range Hydrocarbons	ND	C	261		mg/kg dry	☼	12/27/13 12:02	12/28/13 02:31	5.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	57.2		50 - 150	12/27/13 12:02	12/28/13 02:31	5.00
n-Triacontane-d62	69.3		50 - 150	12/27/13 12:02	12/28/13 02:31	5.00

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	39.6		37.3		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:09	1.00

## Client Sample ID: TP-B2 (1-2)

Date Collected: 12/20/13 08:47

Date Received: 12/23/13 08:45

## Lab Sample ID: SWL0120-17

Matrix: Soil

Percent Solids: 75.8

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	143		39.1		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:11	1.00

## Client Sample ID: TP-B2 (3-4)

Date Collected: 12/20/13 08:49

Date Received: 12/23/13 08:45

## Lab Sample ID: SWL0120-18

Matrix: Soil

Percent Solids: 70

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		44.6		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:14	1.00

## Client Sample ID: TP-B4 (1-2)

Date Collected: 12/20/13 10:12

Date Received: 12/23/13 08:45

## Lab Sample ID: SWL0120-19

Matrix: Soil

Percent Solids: 73.3

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2380		212		ug/kg dry	☼	12/31/13 09:05	12/31/13 17:02	5.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Client Sample ID: TP-B4 (1-2)

Date Collected: 12/20/13 10:12

Date Received: 12/23/13 08:45

## Lab Sample ID: SWL0120-19

Matrix: Soil

Percent Solids: 73.3

### Method: EPA 7471 - TCLP Metals by EPA 1311/6010/7000 Series Methods - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500		mg/l		01/07/14 08:46	01/07/14 15:49	1.00

## Client Sample ID: TP-B4 (3-4)

Date Collected: 12/20/13 10:14

Date Received: 12/23/13 08:45

## Lab Sample ID: SWL0120-20

Matrix: Soil

Percent Solids: 68.1

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1080		205		ug/kg dry	☼	12/31/13 09:05	12/31/13 17:05	5.00

## Client Sample ID: TP-B5 (1-2)

Date Collected: 12/20/13 10:37

Date Received: 12/23/13 08:45

## Lab Sample ID: SWL0120-21

Matrix: Soil

Percent Solids: 80.4

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	53.3		37.9		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:27	1.00

## Client Sample ID: TP-B5 (3-4)

Date Collected: 12/20/13 10:38

Date Received: 12/23/13 08:45

## Lab Sample ID: SWL0120-22

Matrix: Soil

Percent Solids: 78.6

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		47.2		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:29	1.00

## Client Sample ID: TP-B6 (1-2)

Date Collected: 12/20/13 11:05

Date Received: 12/23/13 08:45

## Lab Sample ID: SWL0120-23

Matrix: Soil

Percent Solids: 91.2

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		45.5		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:31	1.00

## Client Sample ID: TP-B6 (3-4)

Date Collected: 12/20/13 11:06

Date Received: 12/23/13 08:45

## Lab Sample ID: SWL0120-24

Matrix: Soil

Percent Solids: 89.8

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		49.0		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:34	1.00

## Client Sample ID: TP-B7 (1-2)

Date Collected: 12/20/13 11:37

Date Received: 12/23/13 08:45

## Lab Sample ID: SWL0120-25

Matrix: Soil

Percent Solids: 74.8

### Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	108		45.5		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:36	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

**Client Sample ID: TP-B7 (4-5)**

**Lab Sample ID: SWL0120-26**

Date Collected: 12/20/13 11:40

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 93.8

**Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		47.2		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:38	1.00

**Client Sample ID: TP-B8 (1-2)**

**Lab Sample ID: SWL0120-27**

Date Collected: 12/20/13 12:14

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 70.1

**Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	161		43.1		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:41	1.00

**Client Sample ID: TP-B8 (4-5)**

**Lab Sample ID: SWL0120-28**

Date Collected: 12/20/13 12:20

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 78.6

**Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		43.1		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:43	1.00

**Client Sample ID: SDP87-TP3(1-2)**

**Lab Sample ID: SWL0120-29**

Date Collected: 12/20/13 08:05

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 80.4

**Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		55.6		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:45	1.00

**Client Sample ID: SDP87-TP3(2-3)**

**Lab Sample ID: SWL0120-30**

Date Collected: 12/20/13 08:08

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 94.4

**Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		46.3		ug/kg dry	☼	12/31/13 09:05	12/31/13 16:55	1.00

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

**Lab Sample ID: 13L0122-BLK1**

**Matrix: Soil**

**Analysis Batch: 13L0122**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13L0122\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		12/23/13 13:08	12/23/13 17:06	1.00
Methyl tert-butyl ether	ND		0.00600		mg/kg wet		12/23/13 13:08	12/23/13 17:06	1.00
Benzene	ND		0.00500		mg/kg wet		12/23/13 13:08	12/23/13 17:06	1.00
Ethylbenzene	ND		0.100		mg/kg wet		12/23/13 13:08	12/23/13 17:06	1.00
Toluene	ND		0.100		mg/kg wet		12/23/13 13:08	12/23/13 17:06	1.00
o-Xylene	ND		0.200		mg/kg wet		12/23/13 13:08	12/23/13 17:06	1.00
m,p-Xylene	ND		0.400		mg/kg wet		12/23/13 13:08	12/23/13 17:06	1.00
Naphthalene	ND		0.200		mg/kg wet		12/23/13 13:08	12/23/13 17:06	1.00
1,2-Dichloroethane (EDC)	ND		0.100		mg/kg wet		12/23/13 13:08	12/23/13 17:06	1.00
1,2-Dibromoethane	ND		0.100		mg/kg wet		12/23/13 13:08	12/23/13 17:06	1.00
Hexane	ND		0.100		mg/kg wet		12/23/13 13:08	12/23/13 17:06	1.00
Xylenes (total)	ND		1.50		mg/kg wet		12/23/13 13:08	12/23/13 17:06	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	99.3		42.4 - 163	12/23/13 13:08	12/23/13 17:06	1.00
1,2-dichloroethane-d4	95.7		50 - 150	12/23/13 13:08	12/23/13 17:06	1.00
Toluene-d8	101		45.8 - 155	12/23/13 13:08	12/23/13 17:06	1.00
4-bromofluorobenzene	107		41.5 - 162	12/23/13 13:08	12/23/13 17:06	1.00

**Lab Sample ID: 13L0122-BS1**

**Matrix: Soil**

**Analysis Batch: 13L0122**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13L0122\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	0.500	0.574		mg/kg wet		115	79 - 127
Benzene	0.500	0.556		mg/kg wet		111	75.9 - 123
Ethylbenzene	0.500	0.530		mg/kg wet		106	80 - 120
Toluene	0.500	0.519		mg/kg wet		104	77.3 - 126
o-Xylene	0.500	0.558		mg/kg wet		112	80 - 120
m,p-Xylene	0.500	0.532		mg/kg wet		106	80 - 120
Naphthalene	0.500	0.465		mg/kg wet		93.0	58.8 - 130
1,2-Dichloroethane (EDC)	0.500	0.556		mg/kg wet		111	60 - 140
1,2-Dibromoethane	0.500	0.490		mg/kg wet		98.1	60 - 140
Hexane	0.500	0.530		mg/kg wet		106	50 - 150
Xylenes (total)	1.00	1.09		mg/kg wet		109	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	99.5		42.4 - 163
1,2-dichloroethane-d4	102		50 - 150
Toluene-d8	97.2		45.8 - 155
4-bromofluorobenzene	105		41.5 - 162

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

(Continued)

**Lab Sample ID: 13L0122-BS2**

**Matrix: Soil**

**Analysis Batch: 13L0122**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13L0122\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	50.0	54.5		mg/kg wet		109	74.4 - 124
<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
Dibromofluoromethane	98.7		42.4 - 163				
1,2-dichloroethane-d4	96.6		50 - 150				
Toluene-d8	100		45.8 - 155				
4-bromofluorobenzene	108		41.5 - 162				

## Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

**Lab Sample ID: 13L0135-BLK1**

**Matrix: Soil**

**Analysis Batch: 13L0135**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13L0135\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		12/27/13 12:02	12/27/13 19:41	1.00
Heavy Oil Range Hydrocarbons	ND	C	25.0		mg/kg wet		12/27/13 12:02	12/27/13 19:41	1.00
<b>Surrogate</b>	<b>Blank %Recovery</b>	<b>Blank Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-FBP	92.5		50 - 150				12/27/13 12:02	12/27/13 19:41	1.00
n-Triacontane-d62	99.0		50 - 150				12/27/13 12:02	12/27/13 19:41	1.00

**Lab Sample ID: 13L0135-BS1**

**Matrix: Soil**

**Analysis Batch: 13L0135**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13L0135\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Hydrocarbons	83.3	78.4		mg/kg wet		94.1	73 - 133
<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
2-FBP	100		50 - 150				
n-Triacontane-d62	99.5		50 - 150				

**Lab Sample ID: 13L0135-DUP1**

**Matrix: Soil**

**Analysis Batch: 13L0135**

**Client Sample ID: Duplicate**

**Prep Type: Total**

**Prep Batch: 13L0135\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Diesel Range Hydrocarbons	ND		7.17		mg/kg dry	☼		40
Heavy Oil Range Hydrocarbons	ND		23.7	C	mg/kg dry	☼		40
<b>Surrogate</b>	<b>Duplicate %Recovery</b>	<b>Duplicate Qualifier</b>	<b>Limits</b>					
2-FBP	48.3	Z6	50 - 150					
n-Triacontane-d62	92.0		50 - 150					

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx (Continued)

**Lab Sample ID: 13L0135-DUP2**

**Matrix: Soil**

**Analysis Batch: 13L0135**

**Client Sample ID: Duplicate**

**Prep Type: Total**

**Prep Batch: 13L0135\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Diesel Range Hydrocarbons	11.2		ND		mg/kg dry	☼		40
Heavy Oil Range Hydrocarbons	39.1		ND	C	mg/kg dry	☼		40
<b>Surrogate</b>	<b>Duplicate %Recovery</b>	<b>Duplicate Qualifier</b>	<b>Limits</b>					
2-FBP	23.8	Z6	50 - 150					
n-Triacontane-d62	94.4		50 - 150					

## Method: EPA 7471 - TCLP Metals by EPA 1311/6010/7000 Series Methods

**Lab Sample ID: 14A0019-BLK1**

**Matrix: Other (S)**

**Analysis Batch: 14A0019**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 14A0019\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500		mg/l		01/07/14 08:46	01/07/14 15:47	1.00

**Lab Sample ID: 14A0019-BS1**

**Matrix: Other (S)**

**Analysis Batch: 14A0019**

**Client Sample ID: Lab Control Sample**

**Prep Type: TCLP**

**Prep Batch: 14A0019\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00183		mg/l		91.5	80 - 120

**Lab Sample ID: 14A0019-MS1**

**Matrix: Other (S)**

**Analysis Batch: 14A0019**

**Client Sample ID: TP-B4 (1-2)**

**Prep Type: TCLP**

**Prep Batch: 14A0019\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.000426		0.00200	0.00254		mg/l		106	80 - 120

**Lab Sample ID: 14A0019-MSD1**

**Matrix: Other (S)**

**Analysis Batch: 14A0019**

**Client Sample ID: TP-B4 (1-2)**

**Prep Type: TCLP**

**Prep Batch: 14A0019\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.000426		0.00200	0.00249		mg/l		103	80 - 120	1.99	20

**Lab Sample ID: 14A0019-DUP1**

**Matrix: Other (S)**

**Analysis Batch: 14A0019**

**Client Sample ID: TP-B4 (1-2)**

**Prep Type: TCLP**

**Prep Batch: 14A0019\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Mercury	0.000426		0.000415		mg/l		2.62	20

TestAmerica Spokane



# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

**Lab Sample ID: 13L0148-BLK1**  
**Matrix: Soil**  
**Analysis Batch: 13L0148**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13L0148\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		50.0		ug/kg wet		12/31/13 09:04	12/31/13 15:02	1.00

**Lab Sample ID: 13L0148-BS1**  
**Matrix: Soil**  
**Analysis Batch: 13L0148**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13L0148\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	200	204		ug/kg wet		102	80 - 120

**Lab Sample ID: 13L0148-MS1**  
**Matrix: Soil**  
**Analysis Batch: 13L0148**

**Client Sample ID: TP-B10 (1-2)**  
**Prep Type: Total**  
**Prep Batch: 13L0148\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	67.4		211	281		ug/kg dry	☼	101	80 - 120

**Lab Sample ID: 13L0148-MSD1**  
**Matrix: Soil**  
**Analysis Batch: 13L0148**

**Client Sample ID: TP-B10 (1-2)**  
**Prep Type: Total**  
**Prep Batch: 13L0148\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	67.4		197	282		ug/kg dry	☼	109	80 - 120	0.578	20

**Lab Sample ID: 13L0148-DUP1**  
**Matrix: Soil**  
**Analysis Batch: 13L0148**

**Client Sample ID: TP-B10 (1-2)**  
**Prep Type: Total**  
**Prep Batch: 13L0148\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Mercury	67.4		73.2		ug/kg dry	☼	8.36	40

**Lab Sample ID: 13L0149-BLK1**  
**Matrix: Soil**  
**Analysis Batch: 13L0149**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13L0149\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		50.0		ug/kg wet		12/31/13 09:05	12/31/13 15:48	1.00

**Lab Sample ID: 13L0149-BS1**  
**Matrix: Soil**  
**Analysis Batch: 13L0149**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13L0149\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	200	197		ug/kg wet		98.5	80 - 120

**Lab Sample ID: 13L0149-MS1**  
**Matrix: Soil**  
**Analysis Batch: 13L0149**

**Client Sample ID: SDP87-TP2(1-2)**  
**Prep Type: Total**  
**Prep Batch: 13L0149\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		227	234		ug/kg dry	☼	103	80 - 120

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
 Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

**Lab Sample ID: 13L0149-MSD1**  
**Matrix: Soil**  
**Analysis Batch: 13L0149**

**Client Sample ID: SDP87-TP2(1-2)**  
**Prep Type: Total**  
**Prep Batch: 13L0149\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Mercury	ND		227	236		ug/kg dry	⊛	104	80 - 120	0.966	20

**Lab Sample ID: 13L0149-DUP1**  
**Matrix: Soil**  
**Analysis Batch: 13L0149**

**Client Sample ID: SDP87-TP2(1-2)**  
**Prep Type: Total**  
**Prep Batch: 13L0149\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Mercury	ND		ND		ug/kg dry	⊛		40



# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Client Sample ID: TP-B10 (1-2)

Lab Sample ID: SWL0120-01

Date Collected: 12/19/13 10:51

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		1.00	13L0148_P	12/31/13 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0148	12/31/13 15:05	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B10 (3-4)

Lab Sample ID: SWL0120-02

Date Collected: 12/19/13 11:28

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.32	13L0122_P	12/23/13 13:08	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0122	12/23/13 18:16	CBW	TAL SPK
Total	Prep	EPA 3550B		0.962	13L0135_P	12/27/13 12:02	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0135	12/28/13 00:21	MRS	TAL SPK
Total	Prep	EPA 7471		1.00	13L0148_P	12/31/13 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0148	12/31/13 15:14	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	13L0154_P	12/27/13 15:30	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13L0154	12/30/13 14:40	MS	TAL SPK

## Client Sample ID: TP-B9 (1-2)

Lab Sample ID: SWL0120-03

Date Collected: 12/19/13 11:50

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 68.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		1.06	13L0148_P	12/31/13 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0148	12/31/13 15:16	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B9 (3-4)

Lab Sample ID: SWL0120-04

Date Collected: 12/19/13 11:54

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 78

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.928	13L0122_P	12/23/13 13:08	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0122	12/23/13 18:39	CBW	TAL SPK
Total	Prep	EPA 3550B		0.994	13L0135_P	12/27/13 12:02	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0135	12/28/13 00:43	MRS	TAL SPK
Total	Prep	EPA 7471		0.962	13L0148_P	12/31/13 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0148	12/31/13 15:18	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	13L0154_P	12/27/13 15:30	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13L0154	12/30/13 14:40	MS	TAL SPK

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Client Sample ID: TP-B11 (1-2)

Lab Sample ID: SWL0120-05

Date Collected: 12/19/13 12:30

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.806	13L0148_P	12/31/13 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0148	12/31/13 15:21	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B11 (3-4)

Lab Sample ID: SWL0120-06

Date Collected: 12/19/13 12:32

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.917	13L0122_P	12/23/13 13:08	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0122	12/23/13 19:02	CBW	TAL SPK
Total	Prep	EPA 3550B		0.989	13L0135_P	12/27/13 12:02	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0135	12/28/13 01:04	MRS	TAL SPK
Total	Prep	EPA 7471		0.943	13L0148_P	12/31/13 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0148	12/31/13 15:28	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	13L0154_P	12/27/13 15:30	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13L0154	12/30/13 14:40	MS	TAL SPK

## Client Sample ID: TP-B3 (1-2)

Lab Sample ID: SWL0120-07

Date Collected: 12/19/13 14:45

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		1.02	13L0148_P	12/31/13 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0148	12/31/13 15:30	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B3 (3-4)

Lab Sample ID: SWL0120-08

Date Collected: 12/19/13 14:45

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.880	13L0122_P	12/23/13 13:08	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0122	12/23/13 19:26	CBW	TAL SPK
Total	Prep	EPA 3550B		0.968	13L0135_P	12/27/13 12:02	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0135	12/30/13 12:57	MRS	TAL SPK
Total	Prep	EPA 7471		0.909	13L0148_P	12/31/13 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0148	12/31/13 15:32	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	13L0154_P	12/27/13 15:30	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13L0154	12/30/13 14:40	MS	TAL SPK

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

**Client Sample ID: SDP87-TP4(1-2)**

**Lab Sample ID: SWL0120-09**

Date Collected: 12/19/13 13:20

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.962	13L0148_P	12/31/13 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0148	12/31/13 15:34	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

**Client Sample ID: SDP87-TP4 (2-3)**

**Lab Sample ID: SWL0120-10**

Date Collected: 12/19/13 13:20

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.965	13L0122_P	12/23/13 13:08	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0122	12/23/13 19:50	CBW	TAL SPK
Total	Prep	EPA 3550B		0.993	13L0135_P	12/27/13 12:02	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0135	12/28/13 01:48	MRS	TAL SPK
Total	Prep	EPA 7471		0.806	13L0148_P	12/31/13 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0148	12/31/13 15:37	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	13L0154_P	12/27/13 15:30	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13L0154	12/30/13 14:40	MS	TAL SPK

**Client Sample ID: SDP87-TP1(1-2)**

**Lab Sample ID: SWL0120-11**

Date Collected: 12/19/13 13:45

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		1.00	13L0148_P	12/31/13 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0148	12/31/13 15:39	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

**Client Sample ID: SDP87-TP1(2-3)**

**Lab Sample ID: SWL0120-12**

Date Collected: 12/19/13 13:46

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 77

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.847	13L0148_P	12/31/13 09:04	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0148	12/31/13 15:41	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Client Sample ID: SDP87-TP2(1-2)

Lab Sample ID: SWL0120-13

Date Collected: 12/19/13 14:15

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.833	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 15:55	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: SDP87-TP2 (2-3)

Lab Sample ID: SWL0120-14

Date Collected: 12/19/13 14:16

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 78.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.877	13L0122_P	12/23/13 13:08	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0122	12/23/13 20:13	CBW	TAL SPK
Total	Prep	EPA 3550B		0.991	13L0135_P	12/27/13 12:02	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0135	12/30/13 14:27	MRS	TAL SPK
Total	Prep	EPA 7471		1.04	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:04	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	13L0154_P	12/27/13 15:30	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13L0154	12/30/13 14:40	MS	TAL SPK

## Client Sample ID: TP-B1 (1-2)

Lab Sample ID: SWL0120-15

Date Collected: 12/20/13 09:15

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.877	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:07	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B1 (4-5)

Lab Sample ID: SWL0120-16

Date Collected: 12/20/13 09:28

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 46.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.08	13L0122_P	12/23/13 13:08	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0122	12/23/13 20:37	CBW	TAL SPK
Total	Prep	EPA 3550B		0.974	13L0135_P	12/27/13 12:02	MS	TAL SPK
Total	Analysis	NWTPH-Dx		5.00	13L0135	12/28/13 02:31	MRS	TAL SPK
Total	Prep	EPA 7471		0.746	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:09	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	13L0154_P	12/27/13 15:30	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13L0154	12/30/13 14:40	MS	TAL SPK

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Client Sample ID: TP-B2 (1-2)

Lab Sample ID: SWL0120-17

Date Collected: 12/20/13 08:47

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 75.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.781	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:11	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B2 (3-4)

Lab Sample ID: SWL0120-18

Date Collected: 12/20/13 08:49

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 70

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.893	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:14	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B4 (1-2)

Lab Sample ID: SWL0120-19

Date Collected: 12/20/13 10:12

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 73.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	TCLP Extraction		1.00	14A0018	01/06/14 15:39	JSP	TAL SPK
TCLP	Prep	EPA 7471		1.00	14A0019_P	01/07/14 08:46	JSP	TAL SPK
TCLP	Analysis	EPA 7471		1.00	14A0019	01/07/14 15:49	ZZZ	TAL SPK
Total	Prep	EPA 7471		0.847	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		5.00	13L0149	12/31/13 17:02	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B4 (3-4)

Lab Sample ID: SWL0120-20

Date Collected: 12/20/13 10:14

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 68.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.820	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		5.00	13L0149	12/31/13 17:05	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Client Sample ID: TP-B5 (1-2)

Lab Sample ID: SWL0120-21

Date Collected: 12/20/13 10:37

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.758	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:27	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B5 (3-4)

Lab Sample ID: SWL0120-22

Date Collected: 12/20/13 10:38

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.943	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:29	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B6 (1-2)

Lab Sample ID: SWL0120-23

Date Collected: 12/20/13 11:05

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.909	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:31	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B6 (3-4)

Lab Sample ID: SWL0120-24

Date Collected: 12/20/13 11:06

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.980	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:34	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B7 (1-2)

Lab Sample ID: SWL0120-25

Date Collected: 12/20/13 11:37

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.909	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:36	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK

TestAmerica Spokane



# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Client Sample ID: TP-B7 (1-2)

Lab Sample ID: SWL0120-25

Date Collected: 12/20/13 11:37

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B7 (4-5)

Lab Sample ID: SWL0120-26

Date Collected: 12/20/13 11:40

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.943	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:38	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B8 (1-2)

Lab Sample ID: SWL0120-27

Date Collected: 12/20/13 12:14

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 70.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.862	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:41	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: TP-B8 (4-5)

Lab Sample ID: SWL0120-28

Date Collected: 12/20/13 12:20

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.862	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:43	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

## Client Sample ID: SDP87-TP3(1-2)

Lab Sample ID: SWL0120-29

Date Collected: 12/20/13 08:05

Matrix: Soil

Date Received: 12/23/13 08:45

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		1.11	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:45	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

**Client Sample ID: SDP87-TP3(2-3)**

**Lab Sample ID: SWL0120-30**

**Date Collected: 12/20/13 08:08**

**Matrix: Soil**

**Date Received: 12/23/13 08:45**

**Percent Solids: 94.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 7471		0.926	13L0149_P	12/31/13 09:05	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0149	12/31/13 16:55	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	14A0012_P	01/02/14 15:12	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	14A0012	01/02/14 15:13	JSP	TAL SPK

**Laboratory References:**

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



# Certification Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0120

## Laboratory: TestAmerica Spokane

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14

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# Method Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

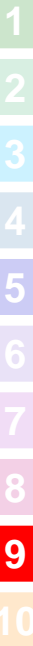
TestAmerica Job ID: SWL0120

Method	Method Description	Protocol	Laboratory
EPA 8260C	NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C		TAL SPK
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
EPA 7471	TCLP Metals by EPA 1311/6010/7000 Series Methods		TAL SPK
EPA 7471B	Total Metals by EPA 6010/7000 Series Methods		TAL SPK
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

**Protocol References:**

**Laboratory References:**

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



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 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #: **SNL0180**

CLIENT: <b>Geo Engineers</b>		INVOICE TO: <b>Geo Engineers Spokane</b>		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD.																																															
REPORT TO: <b>Dave Lauder</b> ADDRESS:		P.O. NUMBER:																																																	
PHONE: <b>509.363.3125</b> FAX: <b>509.363.3126</b>				<input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.																																															
PROJECT NAME: <b>Cashmere</b>		PRESERVATIVE																																																	
PROJECT NUMBER: <b>18593-001-02</b>		REQUESTED ANALYSES		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>MATRIX (W, S, O)</th> <th># OF CONT.</th> <th>LOCATION/ COMMENTS</th> <th>TA WO ID</th> </tr> </thead> <tbody> <tr><td>S</td><td>1</td><td></td><td></td></tr> <tr><td>S</td><td>3</td><td></td><td></td></tr> <tr><td>S</td><td>1</td><td></td><td></td></tr> <tr><td>S</td><td>3</td><td></td><td></td></tr> <tr><td>S</td><td>1</td><td></td><td></td></tr> <tr><td>S</td><td>3</td><td></td><td></td></tr> <tr><td>S</td><td>1</td><td></td><td></td></tr> <tr><td>S</td><td>3</td><td></td><td></td></tr> <tr><td>S</td><td>1</td><td></td><td></td></tr> <tr><td>S</td><td>3</td><td></td><td></td></tr> </tbody> </table>				MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID	S	1			S	3			S	1			S	3			S	1			S	3			S	1			S	3			S	1			S	3		
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SAMPLED BY: <b>JR Sugalski</b>																																																			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Hg 7471A	Dx	Gx	STEX																																														
1 TP-B10(1-2)	12/19/13 1051	X																																																	
2 TP-B10(3-4)	12/19/13 1128/1135 <small>Jar VOA</small>	X	X	X	X																																														
3 TP-B9(1-2)	12/19/13 1150	X																																																	
4 TP-B9(3-4)	1154/1208, 1209 <small>Jar VOA</small>	X	X	X	X																																														
5 TP-B11(1-2)	1230	X																																																	
6 TP-B11(3-4)	1232/1257 <small>Jar VOA</small>	X	X	X	X																																														
7 TP-B3(1-2)	1445	X																																																	
8 TP-B3(3-4)	1445/1500 <small>Jar VOA</small>	X	X	X	X																																														
9 SDP87-TP4(1-2)	1320	X																																																	
10 SDP87-TP4(2-3)	1320/1342 <small>Jar VOA</small>	X	X	X	X																																														
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PRINT NAME: <b>Jar Sugalski</b> FIRM: <b>GEF</b>	TIME: <b>0815</b>	PRINT NAME: <b>Pat Steplorn</b> FIRM: <b>TestAmerica</b>	TIME: <b>8:45</b>																																																
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Hold remaining sample for possible TCLP after results are reviewed																																																			

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 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #: SWL0120

CLIENT: <u>GeoEngineers</u>		INVOICE TO: <u>Geo Engineers Spokane</u>		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses 10 7 5 4 3 2 1 <1 STD. Petroleum Hydrocarbon Analyses 5 4 3 2 1 <1 STD. OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.							
REPORT TO: <u>Dave Lander</u>		P.O. NUMBER:									
ADDRESS:											
PHONE: <u>509.363.3125</u> FAX: <u>509.363.3126</u>											
PROJECT NAME: <u>Cashmere</u>		PRESERVATIVE									
PROJECT NUMBER: <u>18593-001-02</u>		REQUESTED ANALYSES									
SAMPLED BY: <u>JR Sugalski</u>											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Hg	As	Cr	Pb	Other	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID	
1 SPP87-TP1(1-2)	12/19/13 1345	X					S	1			
2 SPP87-TP1(2-3)	12/19/13 1346	X					S	1			
3 SPP87-TP2(1-2)	12/19/13 1415	X					S	1			
4 SPP87-TP2(2-3)	12/19/13 <sup>for VOA</sup> 1416/1430	X	X	X	X		S	3			
5 TP-B1(1-2)	12/20/13 0915	X					S	1			
6 TP-B1(4-5)	12/20/13 <sup>for VOA</sup> 0928/0935	X	X	X	X		S	3			
7 TP-B2(1-2)	12/20/13 0847	X					S	1			
8 TP-B2(3-4)	12/20/13 0849	X					S	1			
9 TP-B4(1-2)	12/20/13 1012	X					S	1			
10 TP-B4(3-4)	12/20/13 1014	X					S	1			
RELEASED BY: <u>[Signature]</u>	DATE: <u>12/23/13</u>	RECEIVED BY: <u>[Signature]</u>	DATE: <u>12/23/13</u>								
PRINT NAME: <u>Jedidiah Sugalski</u> FIRM: <u>GEI</u>	TIME: <u>0845</u>	PRINT NAME: <u>Cat Stephens</u> FIRM: <u>TestAmerica</u>	TIME: <u>845</u>								
RELEASED BY:	DATE:	RECEIVED BY:	DATE:								
PRINT NAME:	FIRM:	PRINT NAME:	FIRM:								
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Hold remaining sample for possible TCLP after results are reviewed							2				
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 509-924-9200 FAX 924-9290  
 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #: **SNL020**

CLIENT: <b>Geo Engineers</b>		INVOICE TO: <b>Geo Engineers Spokane</b>		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses 10 7 5 4 3 2 1 <1 STD. Petroleum Hydrocarbon Analyses 5 4 3 2 1 <1 STD.							
REPORT TO: <b>Dave Leuch</b>		P.O. NUMBER:									
ADDRESS:				OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.							
PHONE: <b>509.363.3125</b> FAX: <b>509.363.3126</b>											
PROJECT NAME: <b>Cashmere</b>		PRESERVATIVE									
PROJECT NUMBER: <b>18593-001-02</b>		REQUESTED ANALYSES									
SAMPLED BY: <b>JR Sugalski</b>											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	Hg	Pb	Cu	BTEX			MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 TP-B5(1-2)	12/20/13 1037	X						S	1		
2 TP-B5(3-4)	12/20/13 1038	X						S	1		
3 TP-B6(1-2)	12/20/13 1105	X						S	1		
4 TP-B6(3-4)	12/20/13 1106	X						S	1		
5 TP-B7(1-2)	12/20/13 1137	X						S	1		
6 TP-B7(4-5)	12/20/13 1140	X						S	1		
7 TP-B8(1-2)	12/20/13 1214	X						S	1		
8 TP-B8(4-5)	12/20/13 1220	X						S	1		
9 SPP87-TP3(1-2)	12/20/13 0805	X						S	1		
10 SPP87-TP3(2-3)	12/20/13 0808	X						S	1		
RELEASED BY: <b>[Signature]</b>	DATE: <b>12/23/13</b>	RECEIVED BY: <b>[Signature]</b>	DATE: <b>12-23-13</b>								
PRINT NAME: <b>Jedidiah Sugalski</b> FIRM: <b>GEI</b>	TIME: <b>0845</b>	PRINT NAME: <b>Pat Stapleton</b> FIRM: <b>TestAmerica</b>	TIME: <b>8:45</b>								
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1/9/2014



**TestAmerica Spokane  
Sample Receipt Form**

Work Order #: <u>SWL020</u>	Client: <u>GeoEngineers</u>	Project: <u>Cashmere</u>		
Date/Time Received: <u>12-23-13 8:45</u>	By: <u>CS</u>			
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input type="checkbox"/> Client <input type="checkbox"/> Other: _____				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:			✓	
Are CoC documents present:	✓			
Necessary signatures:	✓			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other: _____				
Temperature: <u>3.4</u> °C Thermometer (Circle one Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other: _____				
Log-in Phase	Yes	No	NA	Comments
Date/Time: <u>12-23-13 9:15</u> By: <u>CS</u>				
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification	X			
Are VOC samples free of bubbles >6mm (1/4" diameter)			X	
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab		X		
Does this project require quick turnaround analysis		X		
Are there any short hold time tests (see chart below)		X		
Are any samples within 2 days of or past expiration		X		
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated #			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

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<b>Project:</b>	Port of Chelan County – 2013 Cashmere Mill Data Gap Assessment – Well Installation Soil Data
<b>GEI File No:</b>	18593-001-02
<b>Date:</b>	January 21, 2014

---

## GENERAL

This report presents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of soil samples obtained from monitoring well installation at the Former Cashmere Mill Site located in Cashmere, Washington.

### Objective and Quality Control (QC) Elements

The objective of the data quality assessment was to review laboratory analytical procedures and QC results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide quantitation limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The laboratory data was reviewed for the following QC elements:

- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory and Field Duplicates
- Miscellaneous

### Chemical Analysis Performed

The soil samples obtained during the sampling event were submitted to TestAmerica Laboratories, Incorporated (TestAmerica) of Spokane, WA or Portland, OR for one or more of the following analyses:

- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;

- Gasoline-Range Hydrocarbons (NWTPH-Gx) by Methods NWTPH-Gx and SW8260C;
- Volatile Organic Compounds (VOCs) by Method SW8260C; and
- Metals by Methods EPA6010 and SW7471.

#### **TestAmerica Sample Delivery Groups (SDGs)**

The following laboratory SDGs were delivered by TestAmerica and were reviewed by GeoEngineers for the QC elements listed above:

- 250-14856-1
- SWJ0195
- SWL0112

#### **DATA QUALITY ASSESSMENT SUMMARY**

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in two USEPA documents: USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (USEPA, 2010) and USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2008).

##### **Chain-of-Custody Documentation**

Chain-of-custody forms were provided with the laboratory analytical reports. No transcription errors were found and the appropriate signatures were applied. The samples were transported to the laboratory at the appropriate temperatures of between 2 and 6 degrees Celsius. There were no anomalies mentioned in the sample receipt forms.

##### **Holding Times and Sample Preservation**

The holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria and sample preservation exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Recommended holding time and sample preservation was met for all analyses.

##### **Surrogate Recoveries**

A surrogate compound is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added at a known concentration and percent recoveries (%R) are calculated following analysis. All surrogate recoveries for field samples were within the laboratory control limits.

##### **Method Blanks**

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest into project samples. Method blanks were analyzed with each batch of samples, at a frequency of one per twenty samples. In cases where target analytes are qualified as

non-detected because of blank contamination, the new reporting limit is elevated to the level of the former concentration reported in the sample. No method blank detections above the reporting limit were reported by the testing laboratory.

#### **Matrix Spikes/Matrix Spike Duplicates**

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery (%R) is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result value from the MS and MSD, the relative percent difference (RPD) is calculated. The %R control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the %R/RPD values were within the proper control limits, with the following exceptions:

- SDG 250-14856-1: (NWTPH-Gx) The laboratory performed a MS analysis on Sample MW-3(5). The %R value for gasoline-range hydrocarbons was less than the control limit in the MS extracted on 10/17/2013. The reporting limit for gasoline-range hydrocarbons was qualified as estimated (UJ) in this sample.
- SDG SWL0112: (Metals) The laboratory performed two MS/MSD sample sets with %R and/or RPD outliers, however they were performed on samples that were associated with another client of the laboratory and not any of the project samples collected by GeoEngineers. Therefore, no action was required for these outliers.

#### **Laboratory Control Samples/Laboratory Control Sample Duplicates**

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The %R control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the %R/RPD values were within the proper control limits.

#### **Laboratory Duplicates**

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the

samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limit for soil samples is 50 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exception:

- SDG SWL0112: (Metals) The laboratory performed a laboratory duplicate analysis with RPD outliers, however, it was performed on a sample that was associated with another client of the laboratory and not any of the project samples collected by GeoEngineers. Therefore, no action was required for these outliers.

#### **Field Duplicates**

Field duplicate samples are obtained and analyzed along with the primary project samples. The duplicate samples are analyzed for the same parameters as the associated primary samples. The RPD between the primary and duplicate samples is used to assess sample heterogeneity and laboratory precision, unless one or more of the samples used has a concentration greater than five times the method reporting limit for that sample. In such cases, the absolute difference is used instead of the RPD. The RPD control limit for soil samples is 50 percent.

There were no field duplicate samples collected during this sampling event.

#### **Miscellaneous**

- SDG 25014856-1: (NWTPH-Dx) Samples MW-6(5) and MW-3(5) exhibited a chromatographic pattern that did not match a typical range for hydrocarbons. There were no qualification of the results from these samples, however, the results of these samples are considered biased high.

### **OVERALL ASSESSMENT**

The results of this Stage 2A data validation indicate that the laboratory followed the specified analytical methods. The accuracy of the data are acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values, with the exceptions noted above. The precision of the data also are acceptable, as demonstrated by the LCS/LCSD, MS/MSD, laboratory duplicate RPD values.

Selected data were qualified as follows:

- Estimated because of a MS %R outlier.

However, based on the data quality review, it is our opinion that the analytical data, including data qualified as noted above, are of acceptable quality for their intended use.

### **REFERENCES**

U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review," EPA 540-R-10-011. January 2010.

U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," EPA-540-R-08-01. June 2008.

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

# TestAmerica

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## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Portland  
9405 SW Nimbus Ave.  
Beaverton, OR 97008  
Tel: (503)906-9200

TestAmerica Job ID: 250-14856-1

TestAmerica Sample Delivery Group: 18539-001-02  
Client Project/Site: Cashmere Mill

For:

GeoEngineers Inc  
523 East Second Ave  
Spokane, Washington 99202

Attn: Dave Lauder



Authorized for release by:  
10/23/2013 1:08:18 PM

Vanessa Berry, Project Manager I  
(503)906-9233  
[vanessa.frahs@testamericainc.com](mailto:vanessa.frahs@testamericainc.com)

### LINKS

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results through  
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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: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14856-1  
SDG: 18539-001-02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
250-14856-1	MW-6(5)	Solid	10/09/13 11:10	10/15/13 09:25
250-14856-3	MW-3(5)	Solid	10/09/13 15:30	10/15/13 09:25
250-14856-7	MW-2(5)	Solid	10/10/13 08:02	10/15/13 09:25

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# Case Narrative

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14856-1  
SDG: 18539-001-02

**Job ID: 250-14856-1**

**Laboratory: TestAmerica Portland**

## Narrative

### Job Narrative 250-14856-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/15/2013 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.6° C.

#### GC VOA

Method(s) NWTPH-Gx: The matrix spike (MS) recoveries associated with batch 21278 were outside control limits: (250-14856-3 MS). Matrix interference is suspected due to the presence of organic matter in this sample. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

#### GC Semi VOA

Method(s) NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to oil overlap. (250-14709-1 DU), (250-14856-1 DU), MW-6(5) (250-14856-1), SL-H4-E-1 (250-14709-1)

Method(s) NWTPH-Dx: Detected hydrocarbons appear to be due to a single peak. Does not resemble a typical hydrocarbon pattern. peak may be due to a phthalate or similar product.MW-3(5) (250-14856-3)

No other analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

#### VOA Prep

No analytical or quality issues were noted.

# Definitions/Glossary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14856-1  
SDG: 18539-001-02

## Qualifiers

### GC VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits

## Glossary

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

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14856-1  
SDG: 18539-001-02

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Client Sample ID: MW-6(5)**  
**Date Collected: 10/09/13 11:10**  
**Date Received: 10/15/13 09:25**

**Lab Sample ID: 250-14856-1**  
**Matrix: Solid**  
**Percent Solids: 85.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.5		mg/Kg	☼	10/17/13 15:16	10/17/13 18:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene (fid)</i>	92		50 - 150				10/17/13 15:16	10/17/13 18:29	1

**Client Sample ID: MW-3(5)**  
**Date Collected: 10/09/13 15:30**  
**Date Received: 10/15/13 09:25**

**Lab Sample ID: 250-14856-3**  
**Matrix: Solid**  
**Percent Solids: 82.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.7		mg/Kg	☼	10/17/13 15:16	10/17/13 18:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene (fid)</i>	92		50 - 150				10/17/13 15:16	10/17/13 18:57	1

**Client Sample ID: MW-2(5)**  
**Date Collected: 10/10/13 08:02**  
**Date Received: 10/15/13 09:25**

**Lab Sample ID: 250-14856-7**  
**Matrix: Solid**  
**Percent Solids: 93.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.1		mg/Kg	☼	10/17/13 15:16	10/17/13 18:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>a,a,a-Trifluorotoluene (fid)</i>	96		50 - 150				10/17/13 15:16	10/17/13 18:01	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14856-1  
SDG: 18539-001-02

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Client Sample ID: MW-6(5)**  
**Date Collected: 10/09/13 11:10**  
**Date Received: 10/15/13 09:25**

**Lab Sample ID: 250-14856-1**  
**Matrix: Solid**  
**Percent Solids: 85.8**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		14		mg/Kg	☼	10/16/13 11:30	10/16/13 22:46	1
RRO (nC25-nC36)	58		29		mg/Kg	☼	10/16/13 11:30	10/16/13 22:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	97		50 - 150				10/16/13 11:30	10/16/13 22:46	1

**Client Sample ID: MW-3(5)**  
**Date Collected: 10/09/13 15:30**  
**Date Received: 10/15/13 09:25**

**Lab Sample ID: 250-14856-3**  
**Matrix: Solid**  
**Percent Solids: 82.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	220		15		mg/Kg	☼	10/16/13 11:30	10/16/13 23:05	1
RRO (nC25-nC36)	140		30		mg/Kg	☼	10/16/13 11:30	10/16/13 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	98		50 - 150				10/16/13 11:30	10/16/13 23:05	1

**Client Sample ID: MW-2(5)**  
**Date Collected: 10/10/13 08:02**  
**Date Received: 10/15/13 09:25**

**Lab Sample ID: 250-14856-7**  
**Matrix: Solid**  
**Percent Solids: 93.6**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		13		mg/Kg	☼	10/16/13 11:30	10/16/13 23:24	1
RRO (nC25-nC36)	ND		27		mg/Kg	☼	10/16/13 11:30	10/16/13 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	97		50 - 150				10/16/13 11:30	10/16/13 23:24	1

# Client Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14856-1  
SDG: 18539-001-02

## General Chemistry

Client Sample ID: MW-6(5)  
Date Collected: 10/09/13 11:10  
Date Received: 10/15/13 09:25

Lab Sample ID: 250-14856-1  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14		0.010		%			10/16/13 10:46	1
Percent Solids	86		0.010		%			10/16/13 10:46	1

Client Sample ID: MW-3(5)  
Date Collected: 10/09/13 15:30  
Date Received: 10/15/13 09:25

Lab Sample ID: 250-14856-3  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17		0.010		%			10/16/13 10:46	1
Percent Solids	83		0.010		%			10/16/13 10:46	1

Client Sample ID: MW-2(5)  
Date Collected: 10/10/13 08:02  
Date Received: 10/15/13 09:25

Lab Sample ID: 250-14856-7  
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.4		0.010		%			10/16/13 10:46	1
Percent Solids	94		0.010		%			10/16/13 10:46	1

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14856-1  
SDG: 18539-001-02

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-21244/1-A**

**Matrix: Solid**

**Analysis Batch: 21278**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 21244**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		4.0		mg/Kg		10/17/13 15:16	10/17/13 16:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene (fid)	100		50 - 150				10/17/13 15:16	10/17/13 16:33	1

**Lab Sample ID: LCS 250-21244/2-A**

**Matrix: Solid**

**Analysis Batch: 21278**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 21244**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	25.0	27.8		mg/Kg		111	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
a,a,a-Trifluorotoluene (fid)	102		50 - 150				

**Lab Sample ID: 250-14856-3 MS**

**Matrix: Solid**

**Analysis Batch: 21278**

**Client Sample ID: MW-3(5)**

**Prep Type: Total/NA**

**Prep Batch: 21244**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	ND		29.2	6.64	F	mg/Kg	☼	23	65 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
a,a,a-Trifluorotoluene (fid)	95		50 - 150						

**Lab Sample ID: 250-14856-7 DU**

**Matrix: Solid**

**Analysis Batch: 21278**

**Client Sample ID: MW-2(5)**

**Prep Type: Total/NA**

**Prep Batch: 21244**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Gasoline Range Hydrocarbons	ND		ND		mg/Kg	☼	NC	40
Surrogate	DU %Recovery	DU Qualifier	Limits					
a,a,a-Trifluorotoluene (fid)	97		50 - 150					

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 250-21197/1-B**

**Matrix: Solid**

**Analysis Batch: 21207**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 21197**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C25)	ND		12		mg/Kg		10/16/13 11:30	10/16/13 21:49	1
RRO (nC25-nC36)	ND		25		mg/Kg		10/16/13 11:30	10/16/13 21:49	1

TestAmerica Portland

# QC Sample Results

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14856-1  
SDG: 18539-001-02

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 250-21197/1-B**  
**Matrix: Solid**  
**Analysis Batch: 21207**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 21197**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctadecane	98		50 - 150	10/16/13 11:30	10/16/13 21:49	1

**Lab Sample ID: LCS 250-21197/2-B**  
**Matrix: Solid**  
**Analysis Batch: 21207**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 21197**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
DRO (C10-C25)	124	125		mg/Kg		101	50 - 150	
RRO (nC25-nC36)	74.4	73.1		mg/Kg		98	50 - 150	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctadecane	105		50 - 150

**Lab Sample ID: 250-14856-1 DU**  
**Matrix: Solid**  
**Analysis Batch: 21207**

**Client Sample ID: MW-6(5)**  
**Prep Type: Total/NA**  
**Prep Batch: 21197**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	
							RPD	Limit
DRO (C10-C25)	ND		ND		mg/Kg	☼	4	40
RRO (nC25-nC36)	58		64.4		mg/Kg	☼	10	40

Surrogate	DU DU		Limits
	%Recovery	Qualifier	
1-Chlorooctadecane	86		50 - 150

# Certification Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14856-1  
SDG: 18539-001-02

## Laboratory: TestAmerica Portland

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13
California	State Program	9	2597	09-30-13 *
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14

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



# Method Summary

Client: GeoEngineers Inc  
Project/Site: Cashmere Mill

TestAmerica Job ID: 250-14856-1  
SDG: 18539-001-02

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL PRT
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL PRT
D2216-80	Percent Dry Weight (Solids) per ASTM D2216-80	ASTM	TAL PRT

**Protocol References:**

ASTM = ASTM International

NWTPH = Northwest Total Petroleum Hydrocarbon

**Laboratory References:**

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8<sup>th</sup> Street East, I  
11922 E. First Ave., S  
9405 SW Nimbus Ave., Be  
2000 W International Airport Rd Ste A10, Anc.



250-14856 Chain of Custody

2-5047  
4-9290  
6-9210  
3-9210

## CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <u>GeoEngineers</u>		INVOICE TO: <u>GeoEngineers - Dave Lauder</u>		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify:																																											
REPORT TO: <u>Dave Lauder</u>		P.O. NUMBER:																																													
ADDRESS: <u>523 E 2nd Ave</u>		PRESERVATIVE		* Turnaround Requests less than standard may incur Rush Charges.																																											
PHONE: <u>509 363 3170</u> FAX: <u>509</u>		REQUESTED ANALYSES																																													
PROJECT NAME: <u>Cashmere</u>		SAMPLED BY: <u>S Lathen</u>		<table border="1"> <thead> <tr> <th>MATRIX (W, S, O)</th> <th># OF CONT.</th> <th>LOCATION/ COMMENTS</th> <th>TA WO ID</th> </tr> </thead> <tbody> <tr> <td><u>S</u></td> <td><u>1</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID	<u>S</u>	<u>1</u>																																		
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PROJECT NUMBER: <u>18539-001-07</u>																																															
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NWTPH Gx	NWTPH Px																																												
<u>1 MW-6(5)</u>	<u>10/9/13 1110</u>	<u>X</u>	<u>X</u>																																												
<u>2 MW-6(10)</u>	<u>10/9/13 1236</u>																																														
<u>3 MW-3(5)</u>	<u>10/9/13 1530</u>	<u>X</u>	<u>X</u>																																												
<u>4 MW-3(10)</u>	<u>10/9/13 1535</u>																																														
<u>5 MW-3(15)</u>	<u>10/9/13 1540</u>																																														
<u>6 MW-3(20)</u>	<u>10/9/13 1550</u>																																														
<u>7 MW-2(5)</u>	<u>10/10/13 802</u>	<u>X</u>	<u>X</u>																																												
<u>8 MW-2(20)</u>	<u>10/10/13 1030</u>																																														
RELEASED BY: <u>[Signature]</u>		DATE: <u>10/14/13</u>		RECEIVED BY: <u>[Signature]</u>		DATE: <u>10/15/13</u>																																									
PRINT NAME: <u>S Lathen</u>		FIRM: <u>GEI</u>		PRINT NAME: <u>Phil Stabik-Sera</u>		FIRM: <u>TAP</u>																																									
RELEASED BY:		DATE:		RECEIVED BY:		DATE:																																									
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:																																									
ADDITIONAL REMARKS:		TIME: <u>1430</u>		TIME:		TEMP: <u>5.6</u>																																									

Gx/Px w/ silica Gel Cleanup for all samples analyzed  
5 day TAT at std. Rates

IR/G-L TAL-1000 (0612)

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10/23/2013



## Login Sample Receipt Checklist

Client: GeoEngineers Inc

Job Number: 250-14856-1

SDG Number: 18539-001-02

**Login Number: 14856**

**List Number: 1**

**Creator: Svabik-Seror, Philip M**

**List Source: TestAmerica Portland**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Spokane  
11922 East 1st. Avenue  
Spokane, WA 99206  
Tel: (509)924-9200

TestAmerica Job ID: SWJ0195  
Client Project/Site: 18593-001-02  
Client Project Description: Cashmere Mill

For:  
Geo Engineers - Spokane  
523 East Second Ave.  
Spokane, WA 99202

Attn: Dave Lauder



Authorized for release by:  
11/5/2013 3:50:31 PM

Randee Decker, Project Manager  
(509)924-9200  
[Randee.Decker@testamericainc.com](mailto:Randee.Decker@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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# Table of Contents

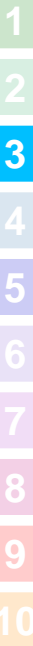
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# Sample Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0195

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWJ0195-02	MW-1(5-5.6)	Soil	10/24/13 09:16	10/29/13 15:40
SWJ0195-06	MW-4(5-5.7)	Soil	10/24/13 12:28	10/29/13 15:40
SWJ0195-10	MW-5(2.5-2.9)	Soil	10/24/13 14:50	10/29/13 15:40
SWJ0195-15	MW-7(2-3)	Soil	10/25/13 07:50	10/29/13 15:40
SWJ0195-18	MW-8(2-3)	Soil	10/25/13 10:36	10/29/13 15:40
SWJ0195-23	AR-1(2-3)	Soil	10/25/13 14:57	10/29/13 15:40



# Definitions/Glossary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0195

## Qualifiers

### GCMS Volatiles

Qualifier	Qualifier Description
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.

### Fuels

Qualifier	Qualifier Description
QSG	Silica Gel clean-up performed on extracts.

## Glossary

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

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0195

## Client Sample ID: MW-1(5-5.6)

Date Collected: 10/24/13 09:16

Date Received: 10/29/13 15:40

## Lab Sample ID: SWJ0195-02

Matrix: Soil

Percent Solids: 97.6

### Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND	C	3.43		mg/kg dry	☼	11/04/13 10:12	11/04/13 14:36	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	97.6		42.4 - 163				11/04/13 10:12	11/04/13 14:36	1.00
Toluene-d8	99.1		45.8 - 155				11/04/13 10:12	11/04/13 14:36	1.00
4-bromofluorobenzene	103		41.5 - 162				11/04/13 10:12	11/04/13 14:36	1.00

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND	QSG	10.2		mg/kg dry	☼	11/04/13 12:41	11/05/13 09:35	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	25.6		mg/kg dry	☼	11/04/13 12:41	11/05/13 09:35	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	90.6	QSG	50 - 150				11/04/13 12:41	11/05/13 09:35	1.00
n-Triacontane-d62	98.4	QSG	50 - 150				11/04/13 12:41	11/05/13 09:35	1.00

## Client Sample ID: MW-4(5-5.7)

Date Collected: 10/24/13 12:28

Date Received: 10/29/13 15:40

## Lab Sample ID: SWJ0195-06

Matrix: Soil

Percent Solids: 81.7

### Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND	C	7.13		mg/kg dry	☼	11/04/13 10:12	11/04/13 14:55	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		42.4 - 163				11/04/13 10:12	11/04/13 14:55	1.00
Toluene-d8	97.6		45.8 - 155				11/04/13 10:12	11/04/13 14:55	1.00
4-bromofluorobenzene	100		41.5 - 162				11/04/13 10:12	11/04/13 14:55	1.00

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND	QSG	12.1		mg/kg dry	☼	11/04/13 12:41	11/05/13 09:58	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	30.3		mg/kg dry	☼	11/04/13 12:41	11/05/13 09:58	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	85.5	QSG	50 - 150				11/04/13 12:41	11/05/13 09:58	1.00
n-Triacontane-d62	97.2	QSG	50 - 150				11/04/13 12:41	11/05/13 09:58	1.00

## Client Sample ID: MW-5(2.5-2.9)

Date Collected: 10/24/13 14:50

Date Received: 10/29/13 15:40

## Lab Sample ID: SWJ0195-10

Matrix: Soil

Percent Solids: 79.2

### Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND	C	8.00		mg/kg dry	☼	11/04/13 10:12	11/04/13 15:15	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	102		42.4 - 163				11/04/13 10:12	11/04/13 15:15	1.00
Toluene-d8	97.5		45.8 - 155				11/04/13 10:12	11/04/13 15:15	1.00
4-bromofluorobenzene	102		41.5 - 162				11/04/13 10:12	11/04/13 15:15	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0195

## Client Sample ID: MW-5(2.5-2.9)

Lab Sample ID: SWJ0195-10

Date Collected: 10/24/13 14:50

Matrix: Soil

Date Received: 10/29/13 15:40

Percent Solids: 79.2

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND	QSG	12.3		mg/kg dry	☼	11/04/13 12:41	11/05/13 10:21	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	30.8		mg/kg dry	☼	11/04/13 12:41	11/05/13 10:21	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	82.9	QSG	50 - 150				11/04/13 12:41	11/05/13 10:21	1.00
n-Triacontane-d62	93.3	QSG	50 - 150				11/04/13 12:41	11/05/13 10:21	1.00

## Client Sample ID: MW-7(2-3)

Lab Sample ID: SWJ0195-15

Date Collected: 10/25/13 07:50

Matrix: Soil

Date Received: 10/29/13 15:40

Percent Solids: 91.8

### Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND	C	7.09		mg/kg dry	☼	11/04/13 10:12	11/04/13 15:35	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	98.1		42.4 - 163				11/04/13 10:12	11/04/13 15:35	1.00
Toluene-d8	103		45.8 - 155				11/04/13 10:12	11/04/13 15:35	1.00
4-bromofluorobenzene	105		41.5 - 162				11/04/13 10:12	11/04/13 15:35	1.00

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	12.8	QSG	10.7		mg/kg dry	☼	11/04/13 12:41	11/05/13 10:44	1.00
Heavy Oil Range Hydrocarbons	88.7	QSG	26.8		mg/kg dry	☼	11/04/13 12:41	11/05/13 10:44	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	92.3	QSG	50 - 150				11/04/13 12:41	11/05/13 10:44	1.00
n-Triacontane-d62	97.6	QSG	50 - 150				11/04/13 12:41	11/05/13 10:44	1.00

## Client Sample ID: MW-8(2-3)

Lab Sample ID: SWJ0195-18

Date Collected: 10/25/13 10:36

Matrix: Soil

Date Received: 10/29/13 15:40

Percent Solids: 88.6

### Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND	C	6.36		mg/kg dry	☼	11/04/13 10:12	11/04/13 15:55	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	97.4		42.4 - 163				11/04/13 10:12	11/04/13 15:55	1.00
Toluene-d8	102		45.8 - 155				11/04/13 10:12	11/04/13 15:55	1.00
4-bromofluorobenzene	102		41.5 - 162				11/04/13 10:12	11/04/13 15:55	1.00

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	19.4	QSG	11.1		mg/kg dry	☼	11/04/13 12:41	11/05/13 11:53	1.00
Heavy Oil Range Hydrocarbons	162	QSG	27.8		mg/kg dry	☼	11/04/13 12:41	11/05/13 11:53	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	93.8	QSG	50 - 150				11/04/13 12:41	11/05/13 11:53	1.00
n-Triacontane-d62	103	QSG	50 - 150				11/04/13 12:41	11/05/13 11:53	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
 Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0195

**Client Sample ID: AR-1(2-3)**

**Lab Sample ID: SWJ0195-23**

**Date Collected: 10/25/13 14:57**

**Matrix: Soil**

**Date Received: 10/29/13 15:40**

**Percent Solids: 81.1**

**Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND	C	7.16		mg/kg dry	☼	11/04/13 10:12	11/04/13 16:14	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	98.7		42.4 - 163	11/04/13 10:12	11/04/13 16:14	1.00
Toluene-d8	102		45.8 - 155	11/04/13 10:12	11/04/13 16:14	1.00
4-bromofluorobenzene	103		41.5 - 162	11/04/13 10:12	11/04/13 16:14	1.00

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND	QSG	12.2		mg/kg dry	☼	11/04/13 12:41	11/05/13 12:15	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	30.5		mg/kg dry	☼	11/04/13 12:41	11/05/13 12:15	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	84.1	QSG	50 - 150	11/04/13 12:41	11/05/13 12:15	1.00
n-Triacontane-d62	97.2	QSG	50 - 150	11/04/13 12:41	11/05/13 12:15	1.00

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0195

## Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

**Lab Sample ID: 13K0007-BLK1**

**Matrix: Soil**

**Analysis Batch: 13K0007**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13K0007\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		11/04/13 08:28	11/04/13 10:40	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	99.1		42.4 - 163				11/04/13 08:28	11/04/13 10:40	1.00
Toluene-d8	100		45.8 - 155				11/04/13 08:28	11/04/13 10:40	1.00
4-bromofluorobenzene	103		41.5 - 162				11/04/13 08:28	11/04/13 10:40	1.00

**Lab Sample ID: 13K0007-BS2**

**Matrix: Soil**

**Analysis Batch: 13K0007**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13K0007\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	50.0	54.6		mg/kg wet		109	74.4 - 124
Surrogate	%Recovery	Qualifier	Limits				
Dibromofluoromethane	98.1		42.4 - 163				
Toluene-d8	101		45.8 - 155				
4-bromofluorobenzene	104		41.5 - 162				

**Lab Sample ID: 13K0007-BSD2**

**Matrix: Soil**

**Analysis Batch: 13K0007**

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

**Prep Type: Total**

**Prep Batch: 13K0007\_P**

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Hydrocarbons	50.0	61.0		mg/kg wet		122	74.4 - 124	11.0	20
Surrogate	%Recovery	Qualifier	Limits						
Dibromofluoromethane	96.3		42.4 - 163						
Toluene-d8	100		45.8 - 155						
4-bromofluorobenzene	105		41.5 - 162						

## Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

**Lab Sample ID: 13K0011-BLK1**

**Matrix: Soil**

**Analysis Batch: 13K0011**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13K0011\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND	QSG	10.0		mg/kg wet		11/04/13 12:41	11/05/13 08:51	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	25.0		mg/kg wet		11/04/13 12:41	11/05/13 08:51	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	88.1	QSG	50 - 150				11/04/13 12:41	11/05/13 08:51	1.00
n-Triacontane-d62	96.6	QSG	50 - 150				11/04/13 12:41	11/05/13 08:51	1.00

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0195

## Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup (Continued)

**Lab Sample ID: 13K0011-BS1**  
**Matrix: Soil**  
**Analysis Batch: 13K0011**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13K0011\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Hydrocarbons	83.3	65.4	QSG	mg/kg wet		78.5	73 - 133
<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
2-FBP	97.0	QSG	50 - 150				
n-Triacontane-d62	99.8	QSG	50 - 150				

**Lab Sample ID: 13K0011-MS1**  
**Matrix: Soil**  
**Analysis Batch: 13K0011**

**Client Sample ID: AR-1(2-3)**  
**Prep Type: Total**  
**Prep Batch: 13K0011\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Hydrocarbons	ND	QSG	118	91.5	QSG	mg/kg dry	☼	77.6	70.1 - 139
<b>Surrogate</b>	<b>Matrix Spike %Recovery</b>	<b>Matrix Spike Qualifier</b>	<b>Limits</b>						
2-FBP	92.9	QSG	50 - 150						
n-Triacontane-d62	101	QSG	50 - 150						

**Lab Sample ID: 13K0011-DUP1**  
**Matrix: Soil**  
**Analysis Batch: 13K0011**

**Client Sample ID: AR-1(2-3)**  
**Prep Type: Total**  
**Prep Batch: 13K0011\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Diesel Range Hydrocarbons	ND	QSG	ND	QSG	mg/kg dry	☼		40
Heavy Oil Range Hydrocarbons	20.8	QSG	27.1	QSG	mg/kg dry	☼	26.2	40
<b>Surrogate</b>	<b>Duplicate %Recovery</b>	<b>Duplicate Qualifier</b>	<b>Limits</b>					
2-FBP	89.2	QSG	50 - 150					
n-Triacontane-d62	99.8	QSG	50 - 150					

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0195

## Client Sample ID: MW-1(5-5.6)

## Lab Sample ID: SWJ0195-02

Date Collected: 10/24/13 09:16

Matrix: Soil

Date Received: 10/29/13 15:40

Percent Solids: 97.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.646	13K0007_P	11/04/13 10:12	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13K0007	11/04/13 14:36	CBW	TAL SPK
Total	Prep	EPA 3550B		1.00	13K0011_P	11/04/13 12:41	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0011	11/05/13 09:35	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0014_P	11/04/13 16:10	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0014	11/05/13 09:05	MS	TAL SPK

## Client Sample ID: MW-4(5-5.7)

## Lab Sample ID: SWJ0195-06

Date Collected: 10/24/13 12:28

Matrix: Soil

Date Received: 10/29/13 15:40

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.981	13K0007_P	11/04/13 10:12	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13K0007	11/04/13 14:55	CBW	TAL SPK
Total	Prep	EPA 3550B		0.991	13K0011_P	11/04/13 12:41	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0011	11/05/13 09:58	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0014_P	11/04/13 16:10	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0014	11/05/13 09:05	MS	TAL SPK

## Client Sample ID: MW-5(2.5-2.9)

## Lab Sample ID: SWJ0195-10

Date Collected: 10/24/13 14:50

Matrix: Soil

Date Received: 10/29/13 15:40

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.06	13K0007_P	11/04/13 10:12	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13K0007	11/04/13 15:15	CBW	TAL SPK
Total	Prep	EPA 3550B		0.976	13K0011_P	11/04/13 12:41	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0011	11/05/13 10:21	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0014_P	11/04/13 16:10	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0014	11/05/13 09:05	MS	TAL SPK

## Client Sample ID: MW-7(2-3)

## Lab Sample ID: SWJ0195-15

Date Collected: 10/25/13 07:50

Matrix: Soil

Date Received: 10/29/13 15:40

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.22	13K0007_P	11/04/13 10:12	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13K0007	11/04/13 15:35	CBW	TAL SPK
Total	Prep	EPA 3550B		0.983	13K0011_P	11/04/13 12:41	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0011	11/05/13 10:44	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0014_P	11/04/13 16:10	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0014	11/05/13 09:05	MS	TAL SPK

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
 Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0195

**Client Sample ID: MW-8(2-3)**

**Lab Sample ID: SWJ0195-18**

Date Collected: 10/25/13 10:36

Matrix: Soil

Date Received: 10/29/13 15:40

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.01	13K0007_P	11/04/13 10:12	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13K0007	11/04/13 15:55	CBW	TAL SPK
Total	Prep	EPA 3550B		0.986	13K0011_P	11/04/13 12:41	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0011	11/05/13 11:53	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0014_P	11/04/13 16:10	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0014	11/05/13 09:05	MS	TAL SPK

**Client Sample ID: AR-1(2-3)**

**Lab Sample ID: SWJ0195-23**

Date Collected: 10/25/13 14:57

Matrix: Soil

Date Received: 10/29/13 15:40

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.973	13K0007_P	11/04/13 10:12	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13K0007	11/04/13 16:14	CBW	TAL SPK
Total	Prep	EPA 3550B		0.989	13K0011_P	11/04/13 12:41	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13K0011	11/05/13 12:15	MRS	TAL SPK
Total	Prep	Wet Chem		1.00	13K0014_P	11/04/13 16:10	MS	TAL SPK
Total	Analysis	TA SOP		1.00	13K0014	11/05/13 09:05	MS	TAL SPK

**Laboratory References:**

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



# Certification Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0195

## Laboratory: TestAmerica Spokane

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C569	01-06-14

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# Method Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0195

Method	Method Description	Protocol	Laboratory
EPA 8260C	NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C		TAL SPK
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup		TAL SPK
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

**Protocol References:**

**Laboratory References:**

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200





# TestAmerica

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## CHAIN OF CUSTODY REPORT

Work Order #: **SWT7195**

CLIENT: <b>GECON/INTEKS</b>			INVOICE TO: <b>DAVE LUDER / GECON/INTEKS</b>			<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 <small>STD.</small> <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.							
REPORT TO: <b>DAVE LUDER</b> ADDRESS: <b>523 E 2ND AVE SPOKANE, WA 99202</b>			P.O. NUMBER:										
PHONE: <b>509-362-3125</b> FAX: <b>509-363-3126</b>			PROJECT NAME: <b>CASHMERE HILL SITE</b>										
PROJECT NUMBER: <b>18593-001-02</b>			PRESERVATIVE										
SAMPLED BY: <b>WTH</b>			REQUESTED ANALYSES										
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME	NWTH -GX	NWTH -GX w/ SEC	VPH + ANALYSES	EPH + ANALYSES				MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 MW-1 (2-2.2)		10/24/13 0900								S	1		
2 MW-1 (5-5.6)		0916	X	X							1		
3 MW-1 (15-15.9)		0950									2		
4 MW-1 (20-21)		1010									3		
5 MW-4 (2-2.8)		1212									3		
6 MW-4 (5-5.7)		1228	X	X							3		
7 MW-4 (10-10.5)		1236									3		
8 MW-4 (15-15.7)		1244									3		
9 MW-4 (20.5-21.5)		1305									3		
10 MW-5 (2.5-2.9)		1450	X	X							3		
RELEASED BY: <b>Kate Hill</b>			DATE: <b>10/29/13</b>			RECEIVED BY: <b>Col Stapleton</b>			DATE: <b>10/29/13</b>				
PRINT NAME: <b>KATE HILL</b>			FIRM: <b>GET</b>			PRINT NAME: <b>Col Stapleton</b>			FIRM: <b>TA</b>				
RELEASED BY:			DATE:			RECEIVED BY:			DATE:				
PRINT NAME:			FIRM:			PRINT NAME:			FIRM:				
ADDITIONAL REMARKS:												TEMP: <b>1.2</b>	PAGE <b>1</b> OF <b>3</b>

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8<sup>th</sup> Street East, Tacoma, WA 98424-1317  
 11922 E. First Ave., Spokane WA 99206-5302  
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047  
 509-924-9200 FAX 924-9290  
 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order # SN0195

CLIENT: <u>GED ENGINEERS</u>		INVOICE TO: <u>DAVE LAUDER</u>		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Retroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.							
REPORT TO: <u>DAVE LAUDER</u> ADDRESS:		P.O. NUMBER:									
PHONE: _____ FAX: _____		PRESERVATIVE									
PROJECT NAME: <u>CASHWOLE MILL SITE</u>		REQUESTED ANALYSES									
PROJECT NUMBER: <u>18593-001-02</u>											
SAMPLED BY: <u>KTH</u>											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NWTH -G+	NWTH -DX + SGC	UPH + Analyses	EPH + Analyses			MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 MW-5 (5-5.4)	10/24/13 1455							S	1		
2 MW-5 (10-10.3)	↓ 1514							↓	1		
3 MW-5 (15-4-15.6)	↓ 1524							↓	3		
4 MW-5 (20.5-21.4)	↓ 1536							↓	3		
5 MW-7 (2-3)	10/25/13 0750	X	X					↓	3		
6 MW-7 (5-5.4)	↓ 0755							↓	1		
7 MW-7 (20-20.8)	↓ 0850							↓	5		
8 MW-8 (2-3)	1036	X	X					↓	3		
9 MW-8 (5-5.4)	↓ 1042							↓	1		
10 MW-8 (10-10.4)	↓ 1055							↓	3		
RELEASED BY: <u>[Signature]</u>	FIRM: <u>WST</u>	DATE: <u>10/29/13</u>	TIME: <u>1535</u>	RECEIVED BY: <u>[Signature]</u>	FIRM: <u>TA</u>	DATE: <u>10-29-13</u>	TIME: <u>15.40</u>				
RELEASED BY:	FIRM:	DATE:	TIME:	RECEIVED BY:	FIRM:	DATE:	TIME:				
PRINT NAME:	FIRM:	DATE:	TIME:	PRINT NAME:	FIRM:	DATE:	TIME:				
ADDITIONAL REMARKS:								TEMP: <u>1.2</u>	PAGE 2 OF 3		

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## CHAIN OF CUSTODY REPORT

Work Order # SWJ0195

CLIENT: <u>GED ENGINEERS</u>		INVOICE TO: <u>DAVE LAUER</u>		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <1 STD. OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.					
REPORT TO: <u>DAVE LAUER</u>		P.O. NUMBER:							
ADDRESS:									
PHONE:		FAX:							
PROJECT NAME: <u>CASHMANE MILL SITE</u>		PRESERVATIVE							
PROJECT NUMBER: <u>18593-001-02</u>		REQUESTED ANALYSES							
SAMPLED BY: <u>KAT</u>									
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	NWTPA -GR	NWTPA -DX + SGC	VPH + Analytes	LEPH + Analytes	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 <u>AW-8 (20-20.5)</u>	<u>10/25/13</u>					<u>S</u>	<u>1</u>		
2 <u>AR-1 (2.5)</u>	<u>1435</u>						<u>1</u>		
3 <u>AR-1 (2-3)</u>	<u>1457</u>	<u>X</u>	<u>X</u>				<u>5</u>		
4 <u>AR-1 (3-3.3)</u>	<u>1500</u>						<u>1</u>		
5									
6									
7									
8									
9									
10									
RELEASED BY: <u>KATRE HOLL</u>		FIRM: <u>GED</u>		DATE: <u>10/29/13</u>		RECEIVED BY: <u>Carl Stephens</u>		DATE: <u>10-24-13</u>	
PRINT NAME: <u>KATRE HOLL</u>		FIRM: <u>GED</u>		TIME: <u>15:35</u>		PRINT NAME: <u>Carl Stephens</u>		TIME: <u>15:40</u>	
RELEASED BY:		FIRM:		DATE:		RECEIVED BY:		DATE:	
PRINT NAME:		FIRM:		TIME:		PRINT NAME:		TIME:	
ADDITIONAL REMARKS:								TEMP: <u>1.2</u>	PAGE <u>3</u> OF <u>3</u>

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**TestAmerica Spokane  
Sample Receipt Form**

Work Order # <u>SW50195</u>	Client <u>GeoEngineers</u>	Project <u>Cashmere Mill Site</u>		
Date/Time Received: <u>10-29-13 15:40</u>		By: <u>CS</u>		
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> Other:				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	<input checked="" type="checkbox"/>			
Custody Seals are present and intact:			<input checked="" type="checkbox"/>	
Are CoC documents present:	<input checked="" type="checkbox"/>			
Necessary signatures:	<input checked="" type="checkbox"/>			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:				
Temperature: <u>1.2</u> °C Thermometer (Circle one Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6)				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:				
Log-in Phase	Yes	No	NA	Comments
Date/Time: <u>10-30-13 9:30</u> By: <u>CS</u>				
Are sample labels affixed and completed for each container	<input checked="" type="checkbox"/>			
Samples containers were received intact:	<input checked="" type="checkbox"/>			
Do sample IDs match the CoC	<input checked="" type="checkbox"/>			
Appropriate sample containers were received for tests requested		<input checked="" type="checkbox"/>		<i>Sample MW-1 (5-5-6) no vials provided for Ex.</i>
Are sample volumes adequate for tests requested	<input checked="" type="checkbox"/>			
Appropriate preservatives were used for the tests requested	<input checked="" type="checkbox"/>			
pH of inorganic samples checked and is within method specification			<input checked="" type="checkbox"/>	
Are VOC samples free of bubbles >6mm (1/4" diameter)			<input checked="" type="checkbox"/>	
Are dissolved parameters field filtered			<input checked="" type="checkbox"/>	
Do any samples need to be filtered or preserved by the lab		<input checked="" type="checkbox"/>		
Does this project require quick turnaround analysis	<input checked="" type="checkbox"/>			<u>5 days</u>
Are there any short hold time tests (see chart below)		<input checked="" type="checkbox"/>		
Are any samples within 2 days of or past expiration		<input checked="" type="checkbox"/>		
Was the CoC scanned	<input checked="" type="checkbox"/>			
Were there Non-conformance issues at login		<input checked="" type="checkbox"/>		
If yes, was a CAR generated #			<input checked="" type="checkbox"/>	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane  
11922 East 1st. Avenue  
Spokane, WA 99206  
Tel: (509)924-9200

TestAmerica Job ID: SWL0112

Client Project/Site: 18539-001-02

Client Project Description: Cashmere Mill

For:

Geo Engineers - Spokane  
523 East Second Ave.  
Spokane, WA 99202

Attn: Dave Lauder



Authorized for release by:  
12/31/2013 3:55:21 PM

Randee Decker, Project Manager  
(509)924-9200

[Randee.Decker@testamericainc.com](mailto:Randee.Decker@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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# Sample Summary

Client: Geo Engineers - Spokane  
Project/Site: 18539-001-02

TestAmerica Job ID: SWL0112

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWL0112-01	MW-9(5)	Soil	12/16/13 14:30	12/20/13 09:00
SWL0112-02	MW-9(10)	Soil	12/16/13 14:45	12/20/13 09:00

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# Definitions/Glossary

Client: Geo Engineers - Spokane  
Project/Site: 18539-001-02

TestAmerica Job ID: SWL0112

## Qualifiers

### Metals

Qualifier	Qualifier Description
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
R	The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.

## Glossary

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



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18539-001-02

TestAmerica Job ID: SWL0112

**Client Sample ID: MW-9(5)**

**Lab Sample ID: SWL0112-01**

Date Collected: 12/16/13 14:30

Matrix: Soil

Date Received: 12/20/13 09:00

Percent Solids: 63.9

**Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		11.7		mg/kg dry	☼	12/20/13 10:15	12/20/13 15:54	1.00
Benzene	ND		0.0117		mg/kg dry	☼	12/20/13 10:15	12/20/13 15:54	1.00
Ethylbenzene	ND		0.234		mg/kg dry	☼	12/20/13 10:15	12/20/13 15:54	1.00
Toluene	ND		0.234		mg/kg dry	☼	12/20/13 10:15	12/20/13 15:54	1.00
o-Xylene	ND		0.468		mg/kg dry	☼	12/20/13 10:15	12/20/13 15:54	1.00
m,p-Xylene	ND		0.936		mg/kg dry	☼	12/20/13 10:15	12/20/13 15:54	1.00
Xylenes (total)	ND		3.51		mg/kg dry	☼	12/20/13 10:15	12/20/13 15:54	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	102		42.4 - 163	12/20/13 10:15	12/20/13 15:54	1.00
1,2-dichloroethane-d4	92.0		50 - 150	12/20/13 10:15	12/20/13 15:54	1.00
Toluene-d8	98.1		45.8 - 155	12/20/13 10:15	12/20/13 15:54	1.00
4-bromofluorobenzene	115		41.5 - 162	12/20/13 10:15	12/20/13 15:54	1.00

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		15.2		mg/kg dry	☼	12/30/13 13:36	12/30/13 17:52	1.00
Heavy Oil Range Hydrocarbons	39.1		38.1		mg/kg dry	☼	12/30/13 13:36	12/30/13 17:52	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	84.7		50 - 150	12/30/13 13:36	12/30/13 17:52	1.00
n-Triacontane-d62	108		50 - 150	12/30/13 13:36	12/30/13 17:52	1.00

**Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.44		1.49		mg/kg dry	☼	12/26/13 08:42	12/27/13 14:50	1.00
Barium	106		0.597		mg/kg dry	☼	12/26/13 08:42	12/27/13 14:50	1.00
Cadmium	ND		0.239		mg/kg dry	☼	12/26/13 08:42	12/27/13 14:50	1.00
Chromium	28.7		0.597		mg/kg dry	☼	12/26/13 08:42	12/27/13 14:50	1.00
Lead	7.60		1.49		mg/kg dry	☼	12/26/13 08:42	12/27/13 14:50	1.00
Selenium	ND		2.99		mg/kg dry	☼	12/26/13 08:42	12/27/13 14:50	1.00
Silver	ND		0.597		mg/kg dry	☼	12/26/13 08:42	12/27/13 14:50	1.00

**Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		52.1		ug/kg dry	☼	12/27/13 09:18	12/27/13 14:29	1.00

**Client Sample ID: MW-9(10)**

**Lab Sample ID: SWL0112-02**

Date Collected: 12/16/13 14:45

Matrix: Soil

Date Received: 12/20/13 09:00

Percent Solids: 76

**Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		7.70		mg/kg dry	☼	12/20/13 10:15	12/20/13 16:18	1.00
Benzene	ND		0.00770		mg/kg dry	☼	12/20/13 10:15	12/20/13 16:18	1.00
Ethylbenzene	ND		0.154		mg/kg dry	☼	12/20/13 10:15	12/20/13 16:18	1.00
Toluene	ND		0.154		mg/kg dry	☼	12/20/13 10:15	12/20/13 16:18	1.00
o-Xylene	ND		0.308		mg/kg dry	☼	12/20/13 10:15	12/20/13 16:18	1.00
m,p-Xylene	ND		0.616		mg/kg dry	☼	12/20/13 10:15	12/20/13 16:18	1.00
Xylenes (total)	ND		2.31		mg/kg dry	☼	12/20/13 10:15	12/20/13 16:18	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18539-001-02

TestAmerica Job ID: SWL0112

**Client Sample ID: MW-9(10)**

**Lab Sample ID: SWL0112-02**

**Date Collected: 12/16/13 14:45**

**Matrix: Soil**

**Date Received: 12/20/13 09:00**

**Percent Solids: 76**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	98.8		42.4 - 163	12/20/13 10:15	12/20/13 16:18	1.00
1,2-dichloroethane-d4	92.1		50 - 150	12/20/13 10:15	12/20/13 16:18	1.00
Toluene-d8	98.5		45.8 - 155	12/20/13 10:15	12/20/13 16:18	1.00
4-bromofluorobenzene	110		41.5 - 162	12/20/13 10:15	12/20/13 16:18	1.00

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		12.9		mg/kg dry	☼	12/30/13 13:36	12/30/13 18:37	1.00
Heavy Oil Range Hydrocarbons	ND		32.3		mg/kg dry	☼	12/30/13 13:36	12/30/13 18:37	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	62.9		50 - 150	12/30/13 13:36	12/30/13 18:37	1.00
n-Triacontane-d62	99.4		50 - 150	12/30/13 13:36	12/30/13 18:37	1.00

**Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.21		1.33		mg/kg dry	☼	12/26/13 08:42	12/27/13 14:54	1.00
Barium	62.7		0.531		mg/kg dry	☼	12/26/13 08:42	12/27/13 14:54	1.00
Cadmium	ND		0.212		mg/kg dry	☼	12/26/13 08:42	12/27/13 14:54	1.00
Chromium	34.7		0.531		mg/kg dry	☼	12/26/13 08:42	12/27/13 14:54	1.00
Lead	1.62		1.33		mg/kg dry	☼	12/26/13 08:42	12/27/13 14:54	1.00
Selenium	ND		2.65		mg/kg dry	☼	12/26/13 08:42	12/27/13 14:54	1.00
Silver	ND		0.531		mg/kg dry	☼	12/26/13 08:42	12/27/13 14:54	1.00

**Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		43.9		ug/kg dry	☼	12/27/13 09:18	12/27/13 14:31	1.00

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18539-001-02

TestAmerica Job ID: SWL0112

## Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

**Lab Sample ID: 13L0110-BLK1**

**Matrix: Soil**

**Analysis Batch: 13L0110**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13L0110\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		5.00		mg/kg wet		12/20/13 08:35	12/20/13 10:26	1.00
Methyl tert-butyl ether	ND		0.00600		mg/kg wet		12/20/13 08:35	12/20/13 10:26	1.00
Benzene	ND		0.00500		mg/kg wet		12/20/13 08:35	12/20/13 10:26	1.00
Ethylbenzene	ND		0.100		mg/kg wet		12/20/13 08:35	12/20/13 10:26	1.00
Toluene	ND		0.100		mg/kg wet		12/20/13 08:35	12/20/13 10:26	1.00
o-Xylene	ND		0.200		mg/kg wet		12/20/13 08:35	12/20/13 10:26	1.00
m,p-Xylene	ND		0.400		mg/kg wet		12/20/13 08:35	12/20/13 10:26	1.00
Naphthalene	ND		0.200		mg/kg wet		12/20/13 08:35	12/20/13 10:26	1.00
1,2-Dichloroethane (EDC)	ND		0.100		mg/kg wet		12/20/13 08:35	12/20/13 10:26	1.00
1,2-Dibromoethane	ND		0.100		mg/kg wet		12/20/13 08:35	12/20/13 10:26	1.00
Hexane	ND		0.100		mg/kg wet		12/20/13 08:35	12/20/13 10:26	1.00
Xylenes (total)	ND		1.50		mg/kg wet		12/20/13 08:35	12/20/13 10:26	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	105		42.4 - 163	12/20/13 08:35	12/20/13 10:26	1.00
1,2-dichloroethane-d4	101		50 - 150	12/20/13 08:35	12/20/13 10:26	1.00
Toluene-d8	97.3		45.8 - 155	12/20/13 08:35	12/20/13 10:26	1.00
4-bromofluorobenzene	103		41.5 - 162	12/20/13 08:35	12/20/13 10:26	1.00

**Lab Sample ID: 13L0110-BS1**

**Matrix: Soil**

**Analysis Batch: 13L0110**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13L0110\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Methyl tert-butyl ether	0.500	0.592		mg/kg wet		118	79 - 127
Benzene	0.500	0.586		mg/kg wet		117	75.9 - 123
Ethylbenzene	0.500	0.534		mg/kg wet		107	80 - 120
Toluene	0.500	0.530		mg/kg wet		106	77.3 - 126
o-Xylene	0.500	0.560		mg/kg wet		112	80 - 120
m,p-Xylene	0.500	0.545		mg/kg wet		109	80 - 120
Naphthalene	0.500	0.411		mg/kg wet		82.2	58.8 - 130
1,2-Dichloroethane (EDC)	0.500	0.591		mg/kg wet		118	60 - 140
1,2-Dibromoethane	0.500	0.488		mg/kg wet		97.6	60 - 140
Hexane	0.500	0.532		mg/kg wet		106	50 - 150
Xylenes (total)	1.00	1.10		mg/kg wet		110	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	103		42.4 - 163
1,2-dichloroethane-d4	108		50 - 150
Toluene-d8	93.0		45.8 - 155
4-bromofluorobenzene	101		41.5 - 162

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18539-001-02

TestAmerica Job ID: SWL0112

## Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

(Continued)

**Lab Sample ID: 13L0110-BS2**

**Matrix: Soil**

**Analysis Batch: 13L0110**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13L0110\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	50.0	44.6		mg/kg wet		89.2	74.4 - 124
<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
Dibromofluoromethane	100		42.4 - 163				
1,2-dichloroethane-d4	100		50 - 150				
Toluene-d8	97.6		45.8 - 155				
4-bromofluorobenzene	104		41.5 - 162				

## Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

**Lab Sample ID: 13L0145-BLK1**

**Matrix: Soil**

**Analysis Batch: 13L0145**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13L0145\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		10.0		mg/kg wet		12/30/13 13:36	12/30/13 17:07	1.00
Heavy Oil Range Hydrocarbons	ND		25.0		mg/kg wet		12/30/13 13:36	12/30/13 17:07	1.00
<b>Surrogate</b>	<b>Blank %Recovery</b>	<b>Blank Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-FBP	91.6		50 - 150				12/30/13 13:36	12/30/13 17:07	1.00
n-Triacontane-d62	119		50 - 150				12/30/13 13:36	12/30/13 17:07	1.00

**Lab Sample ID: 13L0145-BS1**

**Matrix: Soil**

**Analysis Batch: 13L0145**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13L0145\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Hydrocarbons	83.3	71.5		mg/kg wet		85.8	73 - 133
<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
2-FBP	83.7		50 - 150				
n-Triacontane-d62	109		50 - 150				

**Lab Sample ID: 13L0145-DUP1**

**Matrix: Soil**

**Analysis Batch: 13L0145**

**Client Sample ID: MW-9(5)**

**Prep Type: Total**

**Prep Batch: 13L0145\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Diesel Range Hydrocarbons	11.2		ND		mg/kg dry	☼		40
Heavy Oil Range Hydrocarbons	39.1		57.4		mg/kg dry	☼	38.0	40
<b>Surrogate</b>	<b>Duplicate %Recovery</b>	<b>Duplicate Qualifier</b>	<b>Limits</b>					
2-FBP	79.2		50 - 150					
n-Triacontane-d62	100		50 - 150					

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18539-001-02

TestAmerica Job ID: SWL0112

## Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx (Continued)

**Lab Sample ID: 13L0145-DUP2**

**Matrix: Soil**

**Analysis Batch: 13L0145**

**Client Sample ID: Duplicate**

**Prep Type: Total**

**Prep Batch: 13L0145\_P**

Analyte	Sample	Sample	Duplicate	Duplicate	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Diesel Range Hydrocarbons	ND		ND		mg/kg dry	☼		40
Heavy Oil Range Hydrocarbons	ND		ND		mg/kg dry	☼		40
<b>Surrogate</b>	<b>Duplicate</b>	<b>Duplicate</b>						
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
2-FBP	67.2		50 - 150					
n-Triacontane-d62	89.7		50 - 150					

## Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B

**Lab Sample ID: 13L0127-BLK1**

**Matrix: Soil**

**Analysis Batch: 13L0127**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13L0127\_P**

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		1.25		mg/kg wet		12/26/13 08:42	12/27/13 13:38	1.00
Barium	ND		0.500		mg/kg wet		12/26/13 08:42	12/27/13 13:38	1.00
Cadmium	ND		0.200		mg/kg wet		12/26/13 08:42	12/27/13 13:38	1.00
Chromium	ND		0.500		mg/kg wet		12/26/13 08:42	12/27/13 13:38	1.00
Lead	ND		1.25		mg/kg wet		12/26/13 08:42	12/27/13 13:38	1.00
Selenium	ND		2.50		mg/kg wet		12/26/13 08:42	12/27/13 13:38	1.00
Silver	ND		0.500		mg/kg wet		12/26/13 08:42	12/27/13 13:38	1.00

**Lab Sample ID: 13L0127-BS1**

**Matrix: Soil**

**Analysis Batch: 13L0127**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13L0127\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Barium	50.0	48.9		mg/kg wet		97.8	80 - 120	
Cadmium	50.0	50.7		mg/kg wet		101	80 - 120	
Chromium	50.0	50.6		mg/kg wet		101	80 - 120	
Lead	50.0	50.9		mg/kg wet		102	80 - 120	
Selenium	500	503		mg/kg wet		101	80 - 120	
Silver	50.0	49.0		mg/kg wet		98.1	80 - 120	

**Lab Sample ID: 13L0127-MS1**

**Matrix: Soil**

**Analysis Batch: 13L0127**

**Client Sample ID: Matrix Spike**

**Prep Type: Total**

**Prep Batch: 13L0127\_P**

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Arsenic	10.4		56.2	63.1		mg/kg dry	☼	93.8	75 - 125
Barium	66.6		56.2	126		mg/kg dry	☼	106	75 - 125
Cadmium	0.244		56.2	54.8		mg/kg dry	☼	97.0	75 - 125
Chromium	10.3		56.2	62.6		mg/kg dry	☼	92.9	75 - 125
Lead	16.7		56.2	105	M1	mg/kg dry	☼	157	75 - 125
Selenium	ND		562	527		mg/kg dry	☼	93.7	75 - 125
Silver	ND		56.2	51.7		mg/kg dry	☼	92.0	75 - 125

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18539-001-02

TestAmerica Job ID: SWL0112

## Method: EPA 6010C - Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B (Continued)

**Lab Sample ID: 13L0127-MSD1**  
**Matrix: Soil**  
**Analysis Batch: 13L0127**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13L0127\_P**

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier					
Arsenic	10.4		54.1	60.4		☼	92.6	75 - 125	4.43	20
Barium	66.6		54.1	103	M2	☼	67.0	75 - 125	20.6	20
Cadmium	0.244		54.1	53.1		☼	97.8	75 - 125	3.12	20
Chromium	10.3		54.1	59.9		☼	91.6	75 - 125	4.44	20
Lead	16.7		54.1	65.9	R	☼	91.1	75 - 125	45.5	20
Selenium	ND		54.1	518		☼	95.9	75 - 125	1.65	20
Silver	ND		54.1	49.9		☼	92.4	75 - 125	3.53	20

**Lab Sample ID: 13L0127-DUP1**  
**Matrix: Soil**  
**Analysis Batch: 13L0127**

**Client Sample ID: Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13L0127\_P**

Analyte	Sample	Sample	Duplicate		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	10.4		7.18	R4	mg/kg dry	☼	36.3	20
Barium	66.6		64.2		mg/kg dry	☼	3.66	20
Cadmium	0.244		0.181	R4	mg/kg dry	☼	29.6	20
Chromium	10.3		9.30		mg/kg dry	☼	10.3	20
Lead	16.7		14.9		mg/kg dry	☼	11.4	20
Selenium	ND		ND		mg/kg dry	☼		20
Silver	ND		ND		mg/kg dry	☼		20

## Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods

**Lab Sample ID: 13L0133-BLK1**  
**Matrix: Soil**  
**Analysis Batch: 13L0133**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13L0133\_P**

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		50.0		ug/kg wet		12/27/13 09:18	12/27/13 14:02	1.00

**Lab Sample ID: 13L0133-BS1**  
**Matrix: Soil**  
**Analysis Batch: 13L0133**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13L0133\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits

**Lab Sample ID: 13L0133-MS1**  
**Matrix: Soil**  
**Analysis Batch: 13L0133**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total**  
**Prep Batch: 13L0133\_P**

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Mercury	ND		259	256		ug/kg dry	☼	99.0	80 - 120	

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
 Project/Site: 18539-001-02

TestAmerica Job ID: SWL0112

## Method: EPA 7471B - Total Metals by EPA 6010/7000 Series Methods (Continued)

**Lab Sample ID: 13L0133-MSD1**  
**Matrix: Soil**  
**Analysis Batch: 13L0133**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13L0133\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	ND		214	207	R	ug/kg dry	☼	96.5	80 - 120	21.5	20

**Lab Sample ID: 13L0133-DUP1**  
**Matrix: Soil**  
**Analysis Batch: 13L0133**

**Client Sample ID: Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13L0133\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Mercury	ND		ND		ug/kg dry	☼		40



# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18539-001-02

TestAmerica Job ID: SWL0112

**Client Sample ID: MW-9(5)**

**Lab Sample ID: SWL0112-01**

**Date Collected: 12/16/13 14:30**

**Matrix: Soil**

**Date Received: 12/20/13 09:00**

**Percent Solids: 63.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.13	13L0110_P	12/20/13 10:15	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0110	12/20/13 15:54	CBW	TAL SPK
Total	Prep	EPA 3550B		0.974	13L0145_P	12/30/13 13:36	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0145	12/30/13 17:52	MRS	TAL SPK
Total	Prep	EPA 3050B		0.763	13L0127_P	12/26/13 08:42	JSP	TAL SPK
Total	Analysis	EPA 6010C		1.00	13L0127	12/27/13 14:50	ICP	TAL SPK
Total	Prep	EPA 7471		1.04	13L0133_P	12/27/13 09:18	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0133	12/27/13 14:29	ZZZ	TAL SPK
Total	Prep	Wet Chem		1.00	13L0140_P	12/27/13 16:11	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	13L0140	12/27/13 16:12	JSP	TAL SPK

**Client Sample ID: MW-9(10)**

**Lab Sample ID: SWL0112-02**

**Date Collected: 12/16/13 14:45**

**Matrix: Soil**

**Date Received: 12/20/13 09:00**

**Percent Solids: 76**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		0.931	13L0110_P	12/20/13 10:15	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0110	12/20/13 16:18	CBW	TAL SPK
Total	Prep	EPA 3550B		0.983	13L0145_P	12/30/13 13:36	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0145	12/30/13 18:37	MRS	TAL SPK
Total	Prep	EPA 3050B		0.806	13L0127_P	12/26/13 08:42	JSP	TAL SPK
Total	Prep	EPA 7471		0.877	13L0133_P	12/27/13 09:18	JSP	TAL SPK
Total	Analysis	EPA 7471B		1.00	13L0133	12/27/13 14:31	ZZZ	TAL SPK
Total	Analysis	EPA 6010C		1.00	13L0127	12/27/13 14:54	ICP	TAL SPK
Total	Prep	Wet Chem		1.00	13L0140_P	12/27/13 16:11	JSP	TAL SPK
Total	Analysis	TA SOP		1.00	13L0140	12/27/13 16:12	JSP	TAL SPK

**Laboratory References:**

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



# Certification Summary

Client: Geo Engineers - Spokane  
Project/Site: 18539-001-02

TestAmerica Job ID: SWL0112

## Laboratory: TestAmerica Spokane

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14



# Method Summary

Client: Geo Engineers - Spokane  
Project/Site: 18539-001-02

TestAmerica Job ID: SWL0112

Method	Method Description	Protocol	Laboratory
EPA 8260C	NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C		TAL SPK
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
EPA 6010C	Metals Content by EPA 6010/7000 Series Methods, Prep by EPA 3050B		TAL SPK
EPA 7471B	Total Metals by EPA 6010/7000 Series Methods		TAL SPK
TA SOP	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

**Protocol References:**

**Laboratory References:**

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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253-922-2310 FAX 922-5047  
 509-924-9200 FAX 924-9290  
 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <i>Bee Engineers</i>		INVOICE TO: <i>Dave Lauder</i>															
REPORT TO: <i>Dave Lauder</i>		P.O. NUMBER:															
ADDRESS:		PRESERVATIVE: <i>STP</i>															
PHONE:	FAX:	REQUESTED ANALYSES															
PROJECT NAME: <i>Cashmere</i>		<table border="1"> <tr> <td><i>NWTPH</i></td> <td><i>Org/BTEX</i></td> <td><i>NWTPH</i></td> <td><i>OK</i></td> <td><i>Microb</i></td> <td><i>RCRA</i></td> <td><i>SMETA</i></td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> </tr> </table>		<i>NWTPH</i>	<i>Org/BTEX</i>	<i>NWTPH</i>	<i>OK</i>	<i>Microb</i>	<i>RCRA</i>	<i>SMETA</i>	X	X	X			X	X
<i>NWTPH</i>	<i>Org/BTEX</i>	<i>NWTPH</i>	<i>OK</i>	<i>Microb</i>	<i>RCRA</i>	<i>SMETA</i>											
X	X	X			X	X											
PROJECT NUMBER: <i>18539201-02</i>		OTHER: Specify:															
SAMPLED BY: <i>SHL</i>		* Turnaround Requests less than standard may incur Rush Charges.															
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID												
1 <i>MW-9 (5)</i>	<i>12/16/13 1930</i>	<i>S</i>	<i>3</i>														
2 <i>MW-9 (10)</i>	<i>1445</i>	↓	↓														
3 <i>MW-9 (15)</i>	<i>1505</i>	↓	↓														
4 <i>MW-9 (20)</i>	<i>1525</i>																
5																	
6																	
7																	
8																	
9																	
10																	
RELEASED BY: <i>[Signature]</i>	FIRM: <i>GET</i>	DATE: <i>12/20/13</i>	RECEIVED BY: <i>[Signature]</i>	FIRM: <i>GET</i>	DATE: <i>12/20/13</i>												
PRINT NAME: <i>S Latner</i>		TIME: <i>8:45</i>	PRINT NAME: <i>Teresa Hughbanks</i>		TIME: <i>8:45</i>												
RELEASED BY: <i>[Signature]</i>	FIRM: <i>GET</i>	DATE: <i>12/20/13</i>	RECEIVED BY: <i>[Signature]</i>	FIRM: <i>TestAmerica</i>	DATE: <i>12-20-13</i>												
PRINT NAME: <i>Teresa Hughbanks</i>		TIME: <i>9:05</i>	PRINT NAME: <i>Col Stapleton</i>		TIME: <i>9:00</i>												
ADDITIONAL REMARKS:				TEMP: <i>2.4</i>	PAGE OF												

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12/31/2013

TAL-1000 (0612)



**TestAmerica Spokane  
Sample Receipt Form**

Work Order #: <u>SNL0112</u>	Client: <u>GeoEngineers</u>	Project: <u>Cashmere</u>		
Date/Time Received: <u>12-20-13 9:00</u>	By: <u>CS</u>			
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input type="checkbox"/> Client <input type="checkbox"/> Other: _____				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	<input checked="" type="checkbox"/>			
Custody Seals are present and intact:			<input checked="" type="checkbox"/>	
Are CoC documents present:	<input checked="" type="checkbox"/>			
Necessary signatures:	<input checked="" type="checkbox"/>			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other: _____				
Temperature: <u>2.4</u> °C Thermometer (Circle one Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6)				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other: _____				
Log-In Phase	Yes	No	NA	Comments
Date/Time: <u>12-20-13 9:00</u> By: <u>CS</u>				
Are sample labels affixed and completed for each container	<input checked="" type="checkbox"/>			
Samples containers were received intact:	<input checked="" type="checkbox"/>			
Do sample IDs match the CoC	<input checked="" type="checkbox"/>			
Appropriate sample containers were received for tests requested	<input checked="" type="checkbox"/>			
Are sample volumes adequate for tests requested	<input checked="" type="checkbox"/>			
Appropriate preservatives were used for the tests requested	<input checked="" type="checkbox"/>			
pH of inorganic samples checked and is within method specification	<input checked="" type="checkbox"/>			
Are VOC samples free of bubbles >6mm (1/4" diameter)			<input checked="" type="checkbox"/>	
Are dissolved parameters field filtered			<input checked="" type="checkbox"/>	
Do any samples need to be filtered or preserved by the lab			<input checked="" type="checkbox"/>	
Does this project require quick turnaround analysis		<input checked="" type="checkbox"/>		
Are there any short hold time tests (see chart below)		<input checked="" type="checkbox"/>		
Are any samples within 2 days of or past expiration		<input checked="" type="checkbox"/>		
Was the CoC scanned	<input checked="" type="checkbox"/>			
Were there Non-conformance issues at login		<input checked="" type="checkbox"/>		
If yes, was a CAR generated #			<input checked="" type="checkbox"/>	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012



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**Project:** Port of Chelan County – 2013 Cashmere Mill Data Gap Assessment –Groundwater Data  
**GEI File No:** 18593-001-02  
**Date:** January 21, 2014

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## GENERAL

This report presents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of water samples obtained from groundwater samples at the Former Cashmere Mill Site located in Cashmere, Washington.

### Objective and Quality Control (QC) Elements

The objective of the data quality assessment was to review laboratory analytical procedures and QC results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide quantitation limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The laboratory data was reviewed for the following QC elements:

- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method and Trip Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory and Field Duplicates

### Chemical Analysis Performed

The soil and water samples obtained during the sampling event were submitted to TestAmerica Laboratories, Incorporated (TestAmerica) of Spokane, WA for one or more of the following analyses:

- Volatile Organic Compounds (VOCs) by Method SW8260;
- Semi-volatile Organic Compounds (SVOCs) by Method SW8270;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;

- Gasoline-Range Hydrocarbons (NWTPH-Gx) by Methods NWTPH-Gx and SW8260;
- Dissolved Gasses (Methane) by Method RSK-175;
- Metals (Total and Dissolved) by Methods SW200.8 and SW245.1;
- Anions by Method EPA300.0; and
- Total Alkalinity by Method SM2320

Additionally, two water samples obtained during the sampling event were submitted to SVL Analytical (SVL) of Kellogg, ID for the following analyses:

- Metals by Method SW200.8; and
- Arsenic Speciation

#### **TestAmerica Sample Delivery Groups (SDGs)**

The following laboratory SDGs were delivered by TestAmerica and were reviewed by GeoEngineers for the QC elements listed above:

- SWJ0194
- SWL0026
- SWL0121

#### **SVL Sample Delivery Group (SDG)**

The following laboratory SDG was delivered by SVL and was reviewed by GeoEngineers for the QC elements listed above:

- W3L0064

### **DATA QUALITY ASSESSMENT SUMMARY**

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in two USEPA documents: USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (USEPA, 2010) and USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 2008).

#### **Chain-of-Custody Documentation**

Chain-of-custody forms were provided with the laboratory analytical reports. No transcription errors were found and the appropriate signatures were applied. The samples were transported to the laboratory at the appropriate temperatures of between 2 and 6 degrees Celsius. There were no anomalies mentioned in the sample receipt forms.

#### **Holding Times and Sample Preservation**

The holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria and sample preservation exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample

collection. Recommended holding time and sample preservation was met for all analyses, with the following exception:

- SDG SWL0026: (Anions) The holding time of 48 hours for nitrate-nitrogen was exceeded in Samples MW-1-120313, MW-7-120313, and MW-8-120313. The positive result and reporting limits for this target analyte were qualified as estimated (J/UJ) in these samples.

#### **Surrogate Recoveries**

A surrogate compound is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added at a known concentration and percent recoveries (%R) are calculated following analysis. All surrogate recoveries for field samples were within the laboratory control limits, with the following exception:

- SDG SWL0121: (NWTPH-Dx) The %R value for surrogate 2-fluorobiphenyl was less than the control limits in Sample MW-9-122013. However, the sample was spiked with a total of 2 surrogates. In this case, the other surrogate exhibited a %R value within the respective control limits. No action was required for this outlier.

#### **Method and Trip Blanks**

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest into project samples. Method blanks were analyzed with each batch of samples, at a frequency of one per twenty samples. In cases where target analytes are qualified as non-detected because of blank contamination, the new reporting limit is elevated to the level of the former concentration reported in the sample. No method blank detections above the reporting limit were reported by the testing laboratory.

Trip blanks are analyzed to assess whether field sampling or sample transport processes may have introduced measurable concentrations of volatile analytes of interest into project samples. In cases where target analytes are qualified as non-detected because of blank contamination, the new reporting limit is elevated to the level of the former concentration reported in the sample. No trip blank detections were reported by the testing laboratory.

#### **Matrix Spikes/Matrix Spike Duplicates**

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery (%R) is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result value from the MS and MSD, the relative percent difference (RPD) is calculated. The %R control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the %R/RPD values were within the proper control limits.

#### **Laboratory Control Samples/Laboratory Control Sample Duplicates**

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to all samples in the associated batch, instead of just the parent sample. The %R control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the %R/RPD values were within the proper control limits, with the following exception:

- SDG SWL0026: (SVOCs) The %R value for bis(2-ethylhexyl)phthalate was greater than the control limit in the LCS extracted on 12/10/2013 (13:26). There were no positive results in the samples associated with this LCS. However, the result from the LCS analysis exceeded the instrument calibration range and for this reason, the reporting limits for bis(2-ethylhexyl)phthalate were qualified as estimated (UJ) in Samples MW-1-120313 and MW-7-120313.

#### **Laboratory Duplicates**

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exception:

- SDG SWJ0194: (Anions) The laboratory performed a laboratory duplicate on Sample MW-4-102813. The RPD for nitrate-nitrogen was greater than the control limit. There were no positive results for nitrate-nitrogen in Sample MW-4-102813, therefore, no action was required for this outlier.

#### **Field Duplicates**

Field duplicate samples are obtained and analyzed along with the primary project samples. The duplicate samples are analyzed for the same parameters as the associated primary samples. The RPD between the primary and duplicate samples is used to assess sample heterogeneity and laboratory precision, unless one or more of the samples used has a concentration greater than five times the method reporting limit for that sample. In such cases, the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent.

- SDG SWJ0194: One field duplicate sample pair, MW-5-102813 and Duplicate-1-102813, was submitted with this SDG. The precision criteria for all target analytes were met for this sample pair.



## **OVERALL ASSESSMENT**

The results of this Stage 2A data validation indicate that the laboratory followed the specified analytical methods. The accuracy of the data are acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values, with the exceptions noted above. The precision of the data also are acceptable, as demonstrated by the LCS/LCSD, MS/MSD, laboratory/field duplicate RPD values, with the exceptions noted above.

Selected data were qualified as follows:

- Estimated because of holding time and LCS instrument calibration range exceedances.

However, based on the data quality review, it is our opinion that the analytical data, including data qualified as noted above, are of acceptable quality for their intended use.

## **REFERENCES**

- U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," OSWER 9240.1-45, EPA 540-R-10-011. January 2010.
- U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," EPA-540-R-08-01. June 2008.
- U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane  
11922 East 1st. Avenue  
Spokane, WA 99206  
Tel: (509)924-9200

TestAmerica Job ID: SWJ0194

Client Project/Site: 18593-001-02

Client Project Description: Cashmere Mill

For:

Geo Engineers - Spokane  
523 East Second Ave.  
Spokane, WA 99202

Attn: Dave Lauder



Authorized for release by:  
11/7/2013 12:48:27 PM

Randee Decker, Project Manager  
(509)924-9200

[Randee.Decker@testamericainc.com](mailto:Randee.Decker@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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# Case Narrative

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

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## Job ID: SWJ0194

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### Laboratory: TestAmerica Nashville

#### Narrative

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**Job Narrative**  
490-39056-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/30/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

#### GC Semi VOA

No analytical or quality issues were noted.

### Laboratory: TestAmerica Portland

#### Narrative

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**Job Narrative**  
250-15134-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/30/2013 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

Except:

SWJ0194-07 (250-15134-7) Amber 07C received broken.

#### GC/MS Semi VOA

No analytical or quality issues were noted.

#### Metals

Method(s) 245.1: The Initial calibration verification (ICV) for Hg associated with batch 21775 recovered above the upper control limit. The samples associated with this ICV were non-detects for the affected analyte; therefore, the data have been reported. (250-15134-1 MS), (250-15134-1 MSD), (250-15134-4 MS), (250-15134-4 MSD), (CCB 250-21728/10-A), (CCV 250-21728/9-A), (ICB 250-21728/8-A), (ICV 250-21728/7-A), (LCS 250-21728/12-A), (LCS 250-21729/2-A), (MB 250-21640/1-C), (MB 250-21728/11-A), SWJ0194-01 (250-15134-1), SWJ0194-02 (250-15134-2), SWJ0194-03 (250-15134-3), SWJ0194-04 (250-15134-4), SWJ0194-05 (250-15134-5), SWJ0194-06 (250-15134-6), SWJ0194-07 (250-15134-7), SWJ0194-08 (250-15134-8), SWJ0194-10 (250-15134-9)

No other analytical or quality issues were noted.

#### Organic Prep

Method(s) 3520C: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 198928 method 8270C. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No other analytical or quality issues were noted.

### Laboratory: TestAmerica Spokane

#### Narrative

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#### Receipt

The sample(s) were received on 10/29/2013 3:40:00 PM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2 °C.

# Case Narrative

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

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## Job ID: SWJ0194 (Continued)

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### Laboratory: TestAmerica Spokane (Continued)

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No other analytical or quality issues were noted.

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#### General Chemistry

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Method 300.0: Sample SWJ0194-08 (MW-8-102813) was analyzed outside of the method recommended holding time. The holding time was missed by three minutes.

8

No other analytical or quality issues were noted.

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# Sample Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWJ0194-01	MW-1-102813	Water	10/28/13 17:48	10/29/13 15:40
SWJ0194-02	MW-2-102813	Water	10/28/13 17:00	10/29/13 15:40
SWJ0194-03	MW-3-102813	Water	10/28/13 16:14	10/29/13 15:40
SWJ0194-04	MW-4-102813	Water	10/28/13 15:13	10/29/13 15:40
SWJ0194-05	MW-5-102813	Water	10/28/13 14:15	10/29/13 15:40
SWJ0194-06	MW-6-102813	Water	10/28/13 13:24	10/29/13 15:40
SWJ0194-07	MW-7-102813	Water	10/28/13 11:54	10/29/13 15:40
SWJ0194-08	MW-8-102813	Water	10/28/13 10:45	10/29/13 15:40
SWJ0194-09	B-1-102813	Water	10/28/13 17:20	10/29/13 15:40
SWJ0194-10	Duplicate-1-102813	Water	10/28/13 12:34	10/29/13 15:40
SWJ0194-11	Trip Blank	Water	10/28/13 00:00	10/29/13 15:40

# Definitions/Glossary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Qualifiers

### Fuels

Qualifier	Qualifier Description
QSG	Silica Gel clean-up performed on extracts.

### Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

### Wet Chem

Qualifier	Qualifier Description
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
H	Sample analysis performed past method-specified holding time.

## Glossary

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

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-1-102813**

**Lab Sample ID: SWJ0194-01**

**Date Collected: 10/28/13 17:48**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	102		71.2 - 143				10/31/13 07:42	10/31/13 12:38	1.00
Toluene-d8	97.7		74.1 - 135				10/31/13 07:42	10/31/13 12:38	1.00
4-bromofluorobenzene	105		68.7 - 141				10/31/13 07:42	10/31/13 12:38	1.00

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Chloromethane	ND		3.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Vinyl chloride	ND		0.200		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Bromomethane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Chloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Dichlorofluoromethane	ND		0.100		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Carbon disulfide	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Methylene chloride	ND		10.0		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Acetone	ND		25.0		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Bromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Chloroform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
2-Butanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
n-Hexane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Benzene	ND		0.200		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
tert-Butanol	ND		5.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Trichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Dibromomethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Bromodichloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Toluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Tetrachloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Dibromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
2-Hexanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 12:38	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-1-102813**

**Lab Sample ID: SWJ0194-01**

**Date Collected: 10/28/13 17:48**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Chlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
m,p-Xylene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
o-Xylene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Styrene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Bromoform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Isopropylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
n-Propylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Bromobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
2-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
sec-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
p-Isopropyltoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
n-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Naphthalene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 12:38	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	102		71.2 - 143				10/31/13 07:42	10/31/13 12:38	1.00
1,2-dichloroethane-d4	94.7		70 - 140				10/31/13 07:42	10/31/13 12:38	1.00
Toluene-d8	97.7		74.1 - 135				10/31/13 07:42	10/31/13 12:38	1.00
4-bromofluorobenzene	105		68.7 - 141				10/31/13 07:42	10/31/13 12:38	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Acenaphthylene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Acetophenone	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Aniline	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Anthracene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Aramite, Total	ND		21		ug/L		11/01/13 18:08	11/05/13 17:36	1
Benzo[a]anthracene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Benzo[a]pyrene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Benzo[b]fluoranthene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Benzo[g,h,i]perylene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Benzo[k]fluoranthene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Benzyl alcohol	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-1-102813**

**Lab Sample ID: SWJ0194-01**

**Date Collected: 10/28/13 17:48**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Bis(2-chloroethyl)ether	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Bis(2-ethylhexyl) phthalate	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Butyl benzyl phthalate	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Ethyl 4,4'-Dichlorobenzilate	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Chrysene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Diallate	ND		6.3		ug/L		11/01/13 18:08	11/05/13 17:36	1
Dibenz(a,h)anthracene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Dibenzofuran	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Diethyl phthalate	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Dimethoate	ND		22		ug/L		11/01/13 18:08	11/05/13 17:36	1
Dimethyl phthalate	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Di-n-butyl phthalate	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Di-n-octyl phthalate	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Diphenylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Disulfoton	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
Ethyl methanesulfonate	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Ethyl Parathion	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
Fluoranthene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Fluorene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Hexachlorobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Hexachlorobutadiene	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Hexachlorocyclopentadiene	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
Hexachloroethane	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Hexachloropropene	ND		110		ug/L		11/01/13 18:08	11/05/13 17:36	1
Indeno[1,2,3-cd]pyrene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Isodrin	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Isophorone	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Isosafrole	ND		3.9		ug/L		11/01/13 18:08	11/05/13 17:36	1
Methapyrilene	ND		170		ug/L		11/01/13 18:08	11/05/13 17:36	1
Methyl methanesulfonate	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Methyl parathion	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
Naphthalene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Nitrobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
5-Nitro-o-toluidine	ND		22		ug/L		11/01/13 18:08	11/05/13 17:36	1
N-Nitrosodiethylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
N-Nitrosodimethylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
N-Nitrosodi-n-butylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
N-Nitrosodi-n-propylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
N-Nitrosomethylethylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
N-Nitrosomorpholine	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
N-Nitrosopiperidine	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
N-Nitrosopyrrolidine	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Pentachlorobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Pentachloroethane	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
Pentachloronitrobenzene	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
Pentachlorophenol	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
Phenacetin	ND		22		ug/L		11/01/13 18:08	11/05/13 17:36	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-1-102813**

**Lab Sample ID: SWJ0194-01**

**Date Collected: 10/28/13 17:48**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Phenanthrene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
Phorate	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
Pronamide	ND		22		ug/L		11/01/13 18:08	11/05/13 17:36	1
Pyrene	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
Pyridine	ND		22		ug/L		11/01/13 18:08	11/05/13 17:36	1
Thionazin	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
1,2,4,5-Tetrachlorobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
1,2,4-Trichlorobenzene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
1,2-Dichlorobenzene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
1,3,5-Trinitrobenzene	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
1,3-Dichlorobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
1,4-Dichlorobenzene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
1-Naphthylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
1,4-Naphthoquinone	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
1,3-Dinitrobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
2,3,4,6-Tetrachlorophenol	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
2,4,5-Trichlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
2,4,6-Trichlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
2,4-Dichlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
2,4-Dimethylphenol	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
2,4-Dinitrophenol	ND		34		ug/L		11/01/13 18:08	11/05/13 17:36	1
2,4-Dinitrotoluene	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
2,6-Dinitrotoluene	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
2-Acetylaminofluorene	ND		110		ug/L		11/01/13 18:08	11/05/13 17:36	1
2-Chloronaphthalene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
2-Chlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
2-Picoline	ND		22		ug/L		11/01/13 18:08	11/05/13 17:36	1
2-Toluidine	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
3 & 4 Methylphenol	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
3,3'-Dichlorobenzidine	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
3,3'-Dimethylbenzidine	ND		22		ug/L		11/01/13 18:08	11/05/13 17:36	1
3-Methylcholanthrene	ND		22		ug/L		11/01/13 18:08	11/05/13 17:36	1
3-Nitroaniline	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
4,6-Dinitro-2-methylphenol	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
2-Methylphenol	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
2-Naphthylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
2-Nitroaniline	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
2-Nitrophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
4-Aminobiphenyl	ND		56		ug/L		11/01/13 18:08	11/05/13 17:36	1
4-Bromophenyl phenyl ether	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
4-Chloro-3-methylphenol	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
4-Chloroaniline	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
4-Chlorophenyl phenyl ether	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
4-Nitroaniline	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
4-Nitrophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
4-Nitroquinoline-1-oxide	ND		110		ug/L		11/01/13 18:08	11/05/13 17:36	1
2-Methylnaphthalene	ND		4.5		ug/L		11/01/13 18:08	11/05/13 17:36	1
7,12-Dimethylbenz(a)anthracene	ND		22		ug/L		11/01/13 18:08	11/05/13 17:36	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-1-102813**

**Lab Sample ID: SWJ0194-01**

**Date Collected: 10/28/13 17:48**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dichlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 17:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorophenol	84		10 - 120				11/01/13 18:08	11/05/13 17:36	1
Phenol-d5	85		10 - 120				11/01/13 18:08	11/05/13 17:36	1
Nitrobenzene-d5	84		27 - 120				11/01/13 18:08	11/05/13 17:36	1
2-Fluorobiphenyl	80		29 - 120				11/01/13 18:08	11/05/13 17:36	1
2,4,6-Tribromophenol	87		10 - 120				11/01/13 18:08	11/05/13 17:36	1
Terphenyl-d14	87		13 - 120				11/01/13 18:08	11/05/13 17:36	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND	QSG	0.239		mg/l		11/01/13 13:30	11/05/13 00:31	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	0.382		mg/l		11/01/13 13:30	11/05/13 00:31	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-FBP	84.4	QSG	50 - 150				11/01/13 13:30	11/05/13 00:31	1.00
n-Triacontane-d62	92.6	QSG	50 - 150				11/01/13 13:30	11/05/13 00:31	1.00

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>0.0531</b>		0.00500		mg/L			11/01/13 15:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Acetylene (Surr)	85		62 - 124					11/01/13 15:14	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:31	1
<b>Barium</b>	<b>130</b>		1.0		ug/L		10/30/13 17:21	10/31/13 13:31	1
Silver	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:31	1
<b>Arsenic</b>	<b>17</b>		1.0		ug/L		10/30/13 17:21	10/31/13 13:31	1
Lead	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:31	1
Selenium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:31	1
Chromium	ND		2.0		ug/L		10/30/13 17:21	10/31/13 13:31	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:44	1
<b>Barium</b>	<b>130</b>		1.0		ug/L		11/01/13 10:18	11/01/13 19:44	1
Silver	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:44	1
<b>Arsenic</b>	<b>14</b>		1.0		ug/L		11/01/13 10:18	11/01/13 19:44	1
Lead	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:44	1
Selenium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:44	1
<b>Manganese</b>	<b>300</b>		2.0		ug/L		11/01/13 10:18	11/01/13 19:44	1
Chromium	ND		2.0		ug/L		11/01/13 10:18	11/01/13 19:44	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:08	11/04/13 15:48	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-1-102813**

**Lab Sample ID: SWJ0194-01**

Date Collected: 10/28/13 17:48

Matrix: Water

Date Received: 10/29/13 15:40

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:14	11/04/13 16:27	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	200		200		ug/l		10/30/13 07:35	10/30/13 08:30	1.00
Sulfate	10100		500		ug/l		10/30/13 07:35	10/30/13 08:30	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	340000		4000		ug/l		11/05/13 11:47	11/05/13 14:27	1.00

**Client Sample ID: MW-2-102813**

**Lab Sample ID: SWJ0194-02**

Date Collected: 10/28/13 17:00

Matrix: Water

Date Received: 10/29/13 15:40

**Method: EPA 8260C - NWTPh-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		10/31/13 07:42	10/31/13 13:02	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	102		71.2 - 143	10/31/13 07:42	10/31/13 13:02	1.00
Toluene-d8	97.3		74.1 - 135	10/31/13 07:42	10/31/13 13:02	1.00
4-bromofluorobenzene	98.6		68.7 - 141	10/31/13 07:42	10/31/13 13:02	1.00

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Chloromethane	ND		3.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Vinyl chloride	ND		0.200		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Bromomethane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Chloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Dichlorofluoromethane	ND		0.100		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Carbon disulfide	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Methylene chloride	ND		10.0		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Acetone	ND		25.0		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Bromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Chloroform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
2-Butanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
n-Hexane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Benzene	ND		0.200		ug/l		10/31/13 07:42	10/31/13 13:02	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-2-102813**

**Lab Sample ID: SWJ0194-02**

**Date Collected: 10/28/13 17:00**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butanol	ND		5.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Trichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Dibromomethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Bromodichloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Toluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Tetrachloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Dibromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
2-Hexanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Ethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Chlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
m,p-Xylene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
o-Xylene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Styrene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Bromoform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Isopropylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
n-Propylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Bromobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
2-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
sec-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
p-Isopropyltoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
n-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Naphthalene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:02	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	102		71.2 - 143				10/31/13 07:42	10/31/13 13:02	1.00
1,2-dichloroethane-d4	97.5		70 - 140				10/31/13 07:42	10/31/13 13:02	1.00
Toluene-d8	97.3		74.1 - 135				10/31/13 07:42	10/31/13 13:02	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-2-102813**

**Lab Sample ID: SWJ0194-02**

**Date Collected: 10/28/13 17:00**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	98.6		68.7 - 141	10/31/13 07:42	10/31/13 13:02	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Acenaphthylene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Acetophenone	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Aniline	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Anthracene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Aramite, Total	ND		20		ug/L		11/01/13 18:08	11/05/13 18:03	1
Benzo[a]anthracene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Benzo[a]pyrene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Benzo[b]fluoranthene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Benzo[g,h,i]perylene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Benzo[k]fluoranthene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Benzyl alcohol	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Bis(2-chloroethoxy)methane	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Bis(2-chloroethyl)ether	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Bis(2-ethylhexyl) phthalate	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Butyl benzyl phthalate	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Ethyl 4,4'-Dichlorobenzilate	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Chrysene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Diallate	ND		6.2		ug/L		11/01/13 18:08	11/05/13 18:03	1
Dibenz(a,h)anthracene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Dibenzofuran	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Diethyl phthalate	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Dimethoate	ND		22		ug/L		11/01/13 18:08	11/05/13 18:03	1
Dimethyl phthalate	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Di-n-butyl phthalate	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Di-n-octyl phthalate	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Diphenylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Disulfoton	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
Ethyl methanesulfonate	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Ethyl Parathion	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
Fluoranthene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Fluorene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Hexachlorobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Hexachlorobutadiene	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Hexachlorocyclopentadiene	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
Hexachloroethane	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Hexachloropropene	ND		110		ug/L		11/01/13 18:08	11/05/13 18:03	1
Indeno[1,2,3-cd]pyrene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Isodrin	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Isophorone	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Isosafrole	ND		3.9		ug/L		11/01/13 18:08	11/05/13 18:03	1
Methapyrilene	ND		170		ug/L		11/01/13 18:08	11/05/13 18:03	1
Methyl methanesulfonate	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Methyl parathion	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
Naphthalene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-2-102813**

**Lab Sample ID: SWJ0194-02**

**Date Collected: 10/28/13 17:00**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
5-Nitro-o-toluidine	ND		22		ug/L		11/01/13 18:08	11/05/13 18:03	1
N-Nitrosodiethylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
N-Nitrosodimethylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
N-Nitrosodi-n-butylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
N-Nitrosodi-n-propylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
N-Nitrosomethylethylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
N-Nitrosomorpholine	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
N-Nitrosopiperidine	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
N-Nitrosopyrrolidine	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Pentachlorobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Pentachloroethane	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
Pentachloronitrobenzene	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
Pentachlorophenol	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
Phenacetin	ND		22		ug/L		11/01/13 18:08	11/05/13 18:03	1
Phenol	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Phenanthrene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
Phorate	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
Pronamide	ND		22		ug/L		11/01/13 18:08	11/05/13 18:03	1
Pyrene	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
Pyridine	ND		22		ug/L		11/01/13 18:08	11/05/13 18:03	1
Thionazin	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
1,2,4,5-Tetrachlorobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
1,2,4-Trichlorobenzene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
1,2-Dichlorobenzene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
1,3,5-Trinitrobenzene	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
1,3-Dichlorobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
1,4-Dichlorobenzene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
1-Naphthylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
1,4-Naphthoquinone	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
1,3-Dinitrobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
2,3,4,6-Tetrachlorophenol	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
2,4,5-Trichlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
2,4,6-Trichlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
2,4-Dichlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
2,4-Dimethylphenol	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
2,4-Dinitrophenol	ND		33		ug/L		11/01/13 18:08	11/05/13 18:03	1
2,4-Dinitrotoluene	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
2,6-Dinitrotoluene	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
2-Acetylaminofluorene	ND		110		ug/L		11/01/13 18:08	11/05/13 18:03	1
2-Chloronaphthalene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
2-Chlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
2-Picoline	ND		22		ug/L		11/01/13 18:08	11/05/13 18:03	1
2-Toluidine	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
3 & 4 Methylphenol	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
3,3'-Dichlorobenzidine	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
3,3'-Dimethylbenzidine	ND		22		ug/L		11/01/13 18:08	11/05/13 18:03	1
3-Methylcholanthrene	ND		22		ug/L		11/01/13 18:08	11/05/13 18:03	1

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-2-102813**

**Lab Sample ID: SWJ0194-02**

**Date Collected: 10/28/13 17:00**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
4,6-Dinitro-2-methylphenol	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
2-Methylphenol	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
2-Naphthylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
2-Nitroaniline	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
2-Nitrophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
4-Aminobiphenyl	ND		55		ug/L		11/01/13 18:08	11/05/13 18:03	1
4-Bromophenyl phenyl ether	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
4-Chloro-3-methylphenol	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
4-Chloroaniline	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
4-Chlorophenyl phenyl ether	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
4-Nitroaniline	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
4-Nitrophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1
4-Nitroquinoline-1-oxide	ND		110		ug/L		11/01/13 18:08	11/05/13 18:03	1
2-Methylnaphthalene	ND		4.4		ug/L		11/01/13 18:08	11/05/13 18:03	1
7,12-Dimethylbenz(a)anthracene	ND		22		ug/L		11/01/13 18:08	11/05/13 18:03	1
2,6-Dichlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	63		10 - 120	11/01/13 18:08	11/05/13 18:03	1
Phenol-d5	69		10 - 120	11/01/13 18:08	11/05/13 18:03	1
Nitrobenzene-d5	66		27 - 120	11/01/13 18:08	11/05/13 18:03	1
2-Fluorobiphenyl	70		29 - 120	11/01/13 18:08	11/05/13 18:03	1
2,4,6-Tribromophenol	84		10 - 120	11/01/13 18:08	11/05/13 18:03	1
Terphenyl-d14	84		13 - 120	11/01/13 18:08	11/05/13 18:03	1

## Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND	QSG	0.239		mg/l		11/01/13 13:30	11/05/13 00:53	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	0.382		mg/l		11/01/13 13:30	11/05/13 00:53	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	80.5	QSG	50 - 150	11/01/13 13:30	11/05/13 00:53	1.00
n-Triacontane-d62	89.4	QSG	50 - 150	11/01/13 13:30	11/05/13 00:53	1.00

## Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>0.276</b>		0.00500		mg/L			11/01/13 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	86		62 - 124		11/01/13 15:16	1

## Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:38	1
<b>Barium</b>	<b>130</b>		1.0		ug/L		10/30/13 17:21	10/31/13 13:38	1
Silver	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:38	1
<b>Arsenic</b>	<b>6.0</b>		1.0		ug/L		10/30/13 17:21	10/31/13 13:38	1
Lead	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:38	1
Selenium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:38	1
Chromium	ND		2.0		ug/L		10/30/13 17:21	10/31/13 13:38	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-2-102813**

**Lab Sample ID: SWJ0194-02**

Date Collected: 10/28/13 17:00

Matrix: Water

Date Received: 10/29/13 15:40

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:51	1
<b>Barium</b>	<b>110</b>		1.0		ug/L		11/01/13 10:18	11/01/13 19:51	1
Silver	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:51	1
<b>Arsenic</b>	<b>5.0</b>		1.0		ug/L		11/01/13 10:18	11/01/13 19:51	1
Lead	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:51	1
Selenium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:51	1
<b>Manganese</b>	<b>380</b>		2.0		ug/L		11/01/13 10:18	11/01/13 19:51	1
Chromium	ND		2.0		ug/L		11/01/13 10:18	11/01/13 19:51	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:08	11/04/13 15:56	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:14	11/04/13 16:29	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		200		ug/l		10/30/13 07:35	10/30/13 08:50	1.00
<b>Sulfate</b>	<b>27600</b>		500		ug/l		10/30/13 07:35	10/30/13 08:50	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Alkalinity</b>	<b>400000</b>		4000		ug/l		11/05/13 11:47	11/05/13 14:27	1.00

**Client Sample ID: MW-3-102813**

**Lab Sample ID: SWJ0194-03**

Date Collected: 10/28/13 16:14

Matrix: Water

Date Received: 10/29/13 15:40

**Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	102		71.2 - 143				10/31/13 07:42	10/31/13 13:25	1.00
Toluene-d8	97.7		74.1 - 135				10/31/13 07:42	10/31/13 13:25	1.00
4-bromofluorobenzene	103		68.7 - 141				10/31/13 07:42	10/31/13 13:25	1.00

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Chloromethane	ND		3.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Vinyl chloride	ND		0.200		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Bromomethane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Chloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Dichlorofluoromethane	ND		0.100		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Carbon disulfide	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Methylene chloride	ND		10.0		ug/l		10/31/13 07:42	10/31/13 13:25	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-3-102813**

**Lab Sample ID: SWJ0194-03**

**Date Collected: 10/28/13 16:14**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Bromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Chloroform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
2-Butanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
n-Hexane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
<b>Benzene</b>	<b>0.300</b>		0.200		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
tert-Butanol	ND		5.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Trichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Dibromomethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Bromodichloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Toluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Tetrachloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Dibromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
2-Hexanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Ethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Chlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
m,p-Xylene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
o-Xylene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Styrene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Bromoform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Isopropylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
n-Propylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Bromobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
2-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-3-102813**

**Lab Sample ID: SWJ0194-03**

**Date Collected: 10/28/13 16:14**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
p-Isopropyltoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
n-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Naphthalene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:25	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	102		71.2 - 143				10/31/13 07:42	10/31/13 13:25	1.00
1,2-dichloroethane-d4	98.6		70 - 140				10/31/13 07:42	10/31/13 13:25	1.00
Toluene-d8	97.7		74.1 - 135				10/31/13 07:42	10/31/13 13:25	1.00
4-bromofluorobenzene	103		68.7 - 141				10/31/13 07:42	10/31/13 13:25	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Acenaphthylene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Acetophenone	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Aniline	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Anthracene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Aramite, Total	ND		17		ug/L		11/01/13 18:08	11/05/13 18:30	1
Benzo[a]anthracene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Benzo[a]pyrene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Benzo[b]fluoranthene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Benzo[g,h,i]perylene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Benzo[k]fluoranthene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Benzyl alcohol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Bis(2-chloroethoxy)methane	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Bis(2-chloroethyl)ether	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Bis(2-ethylhexyl) phthalate	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Butyl benzyl phthalate	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Ethyl 4,4'-Dichlorobenzilate	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Chrysene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Diallate	ND		5.3		ug/L		11/01/13 18:08	11/05/13 18:30	1
Dibenz(a,h)anthracene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Dibenzofuran	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Diethyl phthalate	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Dimethoate	ND		19		ug/L		11/01/13 18:08	11/05/13 18:30	1
Dimethyl phthalate	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Di-n-butyl phthalate	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Di-n-octyl phthalate	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Diphenylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Disulfoton	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1
Ethyl methanesulfonate	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Ethyl Parathion	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-3-102813**

**Lab Sample ID: SWJ0194-03**

**Date Collected: 10/28/13 16:14**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Fluorene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Hexachlorobenzene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Hexachlorobutadiene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Hexachlorocyclopentadiene	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1
Hexachloroethane	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Hexachloropropene	ND		95		ug/L		11/01/13 18:08	11/05/13 18:30	1
Indeno[1,2,3-cd]pyrene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Isodrin	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Isophorone	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Isosafrole	ND		3.3		ug/L		11/01/13 18:08	11/05/13 18:30	1
Methapyrilene	ND		140		ug/L		11/01/13 18:08	11/05/13 18:30	1
Methyl methanesulfonate	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Methyl parathion	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1
Naphthalene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Nitrobenzene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
5-Nitro-o-toluidine	ND		19		ug/L		11/01/13 18:08	11/05/13 18:30	1
N-Nitrosodiethylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
N-Nitrosodimethylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
N-Nitrosodi-n-butylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
N-Nitrosodi-n-propylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
N-Nitrosomethylethylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
N-Nitrosomorpholine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
N-Nitrosopiperidine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
N-Nitrosopyrrolidine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Pentachlorobenzene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Pentachloroethane	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1
Pentachloronitrobenzene	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1
Pentachlorophenol	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1
Phenacetin	ND		19		ug/L		11/01/13 18:08	11/05/13 18:30	1
Phenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Phenanthrene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
Phorate	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1
Pronamide	ND		19		ug/L		11/01/13 18:08	11/05/13 18:30	1
Pyrene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
Pyridine	ND		19		ug/L		11/01/13 18:08	11/05/13 18:30	1
Thionazin	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1
1,2,4,5-Tetrachlorobenzene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
1,2,4-Trichlorobenzene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
1,2-Dichlorobenzene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
1,3,5-Trinitrobenzene	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1
1,3-Dichlorobenzene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
1,4-Dichlorobenzene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
1-Naphthylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
1,4-Naphthoquinone	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1
1,3-Dinitrobenzene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
2,3,4,6-Tetrachlorophenol	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1
2,4,5-Trichlorophenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-3-102813**

**Lab Sample ID: SWJ0194-03**

Date Collected: 10/28/13 16:14

Matrix: Water

Date Received: 10/29/13 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
2,4-Dichlorophenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
2,4-Dimethylphenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
2,4-Dinitrophenol	ND		28		ug/L		11/01/13 18:08	11/05/13 18:30	1
2,4-Dinitrotoluene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
2,6-Dinitrotoluene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
2-Acetylaminofluorene	ND		95		ug/L		11/01/13 18:08	11/05/13 18:30	1
2-Chloronaphthalene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
2-Chlorophenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
2-Picoline	ND		19		ug/L		11/01/13 18:08	11/05/13 18:30	1
2-Toluidine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
3 & 4 Methylphenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
3,3'-Dichlorobenzidine	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1
3,3'-Dimethylbenzidine	ND		19		ug/L		11/01/13 18:08	11/05/13 18:30	1
3-Methylcholanthrene	ND		19		ug/L		11/01/13 18:08	11/05/13 18:30	1
3-Nitroaniline	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
4,6-Dinitro-2-methylphenol	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1
2-Methylphenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
2-Naphthylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
2-Nitroaniline	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
2-Nitrophenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
4-Aminobiphenyl	ND		47		ug/L		11/01/13 18:08	11/05/13 18:30	1
4-Bromophenyl phenyl ether	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
4-Chloro-3-methylphenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
4-Chloroaniline	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
4-Chlorophenyl phenyl ether	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
4-Nitroaniline	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
4-Nitrophenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1
4-Nitroquinoline-1-oxide	ND		95		ug/L		11/01/13 18:08	11/05/13 18:30	1
2-Methylnaphthalene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 18:30	1
7,12-Dimethylbenz(a)anthracene	ND		19		ug/L		11/01/13 18:08	11/05/13 18:30	1
2,6-Dichlorophenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		10 - 120	11/01/13 18:08	11/05/13 18:30	1
Phenol-d5	77		10 - 120	11/01/13 18:08	11/05/13 18:30	1
Nitrobenzene-d5	75		27 - 120	11/01/13 18:08	11/05/13 18:30	1
2-Fluorobiphenyl	75		29 - 120	11/01/13 18:08	11/05/13 18:30	1
2,4,6-Tribromophenol	85		10 - 120	11/01/13 18:08	11/05/13 18:30	1
Terphenyl-d14	63		13 - 120	11/01/13 18:08	11/05/13 18:30	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND	QSG	0.240		mg/l		11/01/13 13:30	11/05/13 01:15	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	0.384		mg/l		11/01/13 13:30	11/05/13 01:15	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	83.9	QSG	50 - 150	11/01/13 13:30	11/05/13 01:15	1.00
n-Triacontane-d62	92.8	QSG	50 - 150	11/01/13 13:30	11/05/13 01:15	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-3-102813**

**Lab Sample ID: SWJ0194-03**

Date Collected: 10/28/13 16:14

Matrix: Water

Date Received: 10/29/13 15:40

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	5.73		0.100		mg/L			11/01/13 15:20	20
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Acetylene (Surr)	95		62 - 124					11/01/13 15:18	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:44	1
Barium	280		1.0		ug/L		10/30/13 17:21	10/31/13 13:44	1
Silver	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:44	1
Arsenic	6.7		1.0		ug/L		10/30/13 17:21	10/31/13 13:44	1
Lead	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:44	1
Selenium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:44	1
Chromium	ND		2.0		ug/L		10/30/13 17:21	10/31/13 13:44	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:58	1
Barium	48		1.0		ug/L		11/01/13 10:18	11/01/13 19:58	1
Silver	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:58	1
Arsenic	2.5		1.0		ug/L		11/01/13 10:18	11/01/13 19:58	1
Lead	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:58	1
Selenium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:58	1
Manganese	3200		20		ug/L		11/01/13 10:18	11/04/13 11:44	10
Chromium	ND		2.0		ug/L		11/01/13 10:18	11/01/13 19:58	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:08	11/04/13 15:58	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:14	11/04/13 16:32	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		200		ug/l		10/30/13 07:35	10/30/13 09:10	1.00
Sulfate	580		500		ug/l		10/30/13 07:35	10/30/13 09:10	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	470000		4000		ug/l		11/05/13 11:47	11/05/13 14:27	1.00

**Client Sample ID: MW-4-102813**

**Lab Sample ID: SWJ0194-04**

Date Collected: 10/28/13 15:13

Matrix: Water

Date Received: 10/29/13 15:40

**Method: EPA 8260C - NWTPh-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		10/31/13 07:42	10/31/13 13:48	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-4-102813**

**Lab Sample ID: SWJ0194-04**

**Date Collected: 10/28/13 15:13**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	105		71.2 - 143	10/31/13 07:42	10/31/13 13:48	1.00
Toluene-d8	98.9		74.1 - 135	10/31/13 07:42	10/31/13 13:48	1.00
4-bromofluorobenzene	95.7		68.7 - 141	10/31/13 07:42	10/31/13 13:48	1.00

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Chloromethane	ND		3.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Vinyl chloride	ND		0.200		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Bromomethane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Chloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Dichlorofluoromethane	ND		0.100		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Carbon disulfide	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Methylene chloride	ND		10.0		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Acetone	ND		25.0		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Bromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Chloroform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
2-Butanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
n-Hexane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Benzene	ND		0.200		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
tert-Butanol	ND		5.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Trichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Dibromomethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Bromodichloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Toluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Tetrachloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Dibromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
2-Hexanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Ethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Chlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-4-102813**

**Lab Sample ID: SWJ0194-04**

**Date Collected: 10/28/13 15:13**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
o-Xylene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Styrene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Bromoform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Isopropylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
n-Propylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Bromobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
2-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
sec-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
p-Isopropyltoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
n-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
Naphthalene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 13:48	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	105		71.2 - 143	10/31/13 07:42	10/31/13 13:48	1.00
1,2-dichloroethane-d4	98.0		70 - 140	10/31/13 07:42	10/31/13 13:48	1.00
Toluene-d8	98.9		74.1 - 135	10/31/13 07:42	10/31/13 13:48	1.00
4-bromofluorobenzene	95.7		68.7 - 141	10/31/13 07:42	10/31/13 13:48	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Acenaphthylene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Acetophenone	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Aniline	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Anthracene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Aramite, Total	ND		17		ug/L		11/01/13 18:08	11/05/13 18:56	1
Benzo[a]anthracene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Benzo[a]pyrene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Benzo[b]fluoranthene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Benzo[g,h,i]perylene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Benzo[k]fluoranthene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Benzyl alcohol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Bis(2-chloroethoxy)methane	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Bis(2-chloroethyl)ether	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Bis(2-ethylhexyl) phthalate	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-4-102813**

**Lab Sample ID: SWJ0194-04**

**Date Collected: 10/28/13 15:13**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Ethyl 4,4'-Dichlorobenzilate	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Chrysene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Diallate	ND		5.1		ug/L		11/01/13 18:08	11/05/13 18:56	1
Dibenz(a,h)anthracene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Dibenzofuran	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Diethyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Dimethoate	ND		18		ug/L		11/01/13 18:08	11/05/13 18:56	1
Dimethyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Di-n-butyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Di-n-octyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Diphenylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Disulfoton	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1
Ethyl methanesulfonate	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Ethyl Parathion	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1
Fluoranthene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Fluorene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Hexachlorobenzene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Hexachlorobutadiene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Hexachlorocyclopentadiene	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1
Hexachloroethane	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Hexachloropropene	ND		92		ug/L		11/01/13 18:08	11/05/13 18:56	1
Indeno[1,2,3-cd]pyrene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Isodrin	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Isophorone	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Isosafrole	ND		3.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Methapyrilene	ND		140		ug/L		11/01/13 18:08	11/05/13 18:56	1
Methyl methanesulfonate	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Methyl parathion	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1
Naphthalene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Nitrobenzene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
5-Nitro-o-toluidine	ND		18		ug/L		11/01/13 18:08	11/05/13 18:56	1
N-Nitrosodiethylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
N-Nitrosodimethylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
N-Nitrosodi-n-butylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
N-Nitrosodi-n-propylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
N-Nitrosomethylethylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
N-Nitrosomorpholine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
N-Nitrosopiperidine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
N-Nitrosopyrrolidine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Pentachlorobenzene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Pentachloroethane	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1
Pentachloronitrobenzene	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1
Pentachlorophenol	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1
Phenacetin	ND		18		ug/L		11/01/13 18:08	11/05/13 18:56	1
Phenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Phenanthrene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
Phorate	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-4-102813**

**Lab Sample ID: SWJ0194-04**

Date Collected: 10/28/13 15:13

Matrix: Water

Date Received: 10/29/13 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pronamide	ND		18		ug/L		11/01/13 18:08	11/05/13 18:56	1
Pyrene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
Pyridine	ND		18		ug/L		11/01/13 18:08	11/05/13 18:56	1
Thionazin	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1
1,2,4,5-Tetrachlorobenzene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
1,2,4-Trichlorobenzene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
1,2-Dichlorobenzene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
1,3,5-Trinitrobenzene	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1
1,3-Dichlorobenzene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
1,4-Dichlorobenzene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
1-Naphthylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
1,4-Naphthoquinone	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1
1,3-Dinitrobenzene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
2,3,4,6-Tetrachlorophenol	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1
2,4,5-Trichlorophenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
2,4,6-Trichlorophenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
2,4-Dichlorophenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
2,4-Dimethylphenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
2,4-Dinitrophenol	ND		27		ug/L		11/01/13 18:08	11/05/13 18:56	1
2,4-Dinitrotoluene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
2,6-Dinitrotoluene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
2-Acetylaminofluorene	ND		92		ug/L		11/01/13 18:08	11/05/13 18:56	1
2-Chloronaphthalene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
2-Chlorophenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
2-Picoline	ND		18		ug/L		11/01/13 18:08	11/05/13 18:56	1
2-Toluidine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
3 & 4 Methylphenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
3,3'-Dichlorobenzidine	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1
3,3'-Dimethylbenzidine	ND		18		ug/L		11/01/13 18:08	11/05/13 18:56	1
3-Methylcholanthrene	ND		18		ug/L		11/01/13 18:08	11/05/13 18:56	1
3-Nitroaniline	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
4,6-Dinitro-2-methylphenol	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1
2-Methylphenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
2-Naphthylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
2-Nitroaniline	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
2-Nitrophenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
4-Aminobiphenyl	ND		46		ug/L		11/01/13 18:08	11/05/13 18:56	1
4-Bromophenyl phenyl ether	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
4-Chloro-3-methylphenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
4-Chloroaniline	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
4-Chlorophenyl phenyl ether	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
4-Nitroaniline	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
4-Nitrophenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1
4-Nitroquinoline-1-oxide	ND		92		ug/L		11/01/13 18:08	11/05/13 18:56	1
2-Methylnaphthalene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 18:56	1
7,12-Dimethylbenz(a)anthracene	ND		18		ug/L		11/01/13 18:08	11/05/13 18:56	1
2,6-Dichlorophenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		10 - 120	11/01/13 18:08	11/05/13 18:56	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-4-102813**

**Lab Sample ID: SWJ0194-04**

Date Collected: 10/28/13 15:13

Matrix: Water

Date Received: 10/29/13 15:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5	80		10 - 120	11/01/13 18:08	11/05/13 18:56	1
Nitrobenzene-d5	78		27 - 120	11/01/13 18:08	11/05/13 18:56	1
2-Fluorobiphenyl	74		29 - 120	11/01/13 18:08	11/05/13 18:56	1
2,4,6-Tribromophenol	84		10 - 120	11/01/13 18:08	11/05/13 18:56	1
Terphenyl-d14	85		13 - 120	11/01/13 18:08	11/05/13 18:56	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND	QSG	0.238		mg/l		11/01/13 13:30	11/05/13 01:37	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	0.380		mg/l		11/01/13 13:30	11/05/13 01:37	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	77.5	QSG	50 - 150	11/01/13 13:30	11/05/13 01:37	1.00
n-Triacontane-d62	88.0	QSG	50 - 150	11/01/13 13:30	11/05/13 01:37	1.00

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.114		0.00500		mg/L			11/04/13 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	80		62 - 124		11/04/13 14:46	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:48	1
Barium	110		1.0		ug/L		10/30/13 17:21	10/31/13 13:48	1
Silver	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:48	1
Arsenic	2.4		1.0		ug/L		10/30/13 17:21	10/31/13 13:48	1
Lead	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:48	1
Selenium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:48	1
Chromium	ND		2.0		ug/L		10/30/13 17:21	10/31/13 13:48	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:01	1
Barium	98		1.0		ug/L		11/01/13 10:18	11/01/13 20:01	1
Silver	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:01	1
Arsenic	1.8		1.0		ug/L		11/01/13 10:18	11/01/13 20:01	1
Lead	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:01	1
Selenium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:01	1
Manganese	1000		10		ug/L		11/01/13 10:18	11/04/13 11:47	5
Chromium	ND		2.0		ug/L		11/01/13 10:18	11/01/13 20:01	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:08	11/04/13 16:01	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:14	11/04/13 16:34	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Client Sample ID: MW-4-102813

Lab Sample ID: SWJ0194-04

Date Collected: 10/28/13 15:13

Matrix: Water

Date Received: 10/29/13 15:40

### Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		200		ug/l		10/30/13 07:35	10/30/13 09:29	1.00
Sulfate	8450		500		ug/l		10/30/13 07:35	10/30/13 09:29	1.00

### Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	350000		4000		ug/l		11/05/13 11:47	11/05/13 14:27	1.00

## Client Sample ID: MW-5-102813

Lab Sample ID: SWJ0194-05

Date Collected: 10/28/13 14:15

Matrix: Water

Date Received: 10/29/13 15:40

### Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Dibromofluoromethane	105		71.2 - 143				10/31/13 07:42	10/31/13 14:12	1.00
Toluene-d8	99.3		74.1 - 135				10/31/13 07:42	10/31/13 14:12	1.00
4-bromofluorobenzene	100		68.7 - 141				10/31/13 07:42	10/31/13 14:12	1.00

### Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Chloromethane	ND		3.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Vinyl chloride	ND		0.200		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Bromomethane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Chloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Dichlorofluoromethane	ND		0.100		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Carbon disulfide	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Methylene chloride	ND		10.0		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Acetone	ND		25.0		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Bromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Chloroform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
2-Butanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
n-Hexane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Benzene	ND		0.200		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
tert-Butanol	ND		5.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Trichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-5-102813**

**Lab Sample ID: SWJ0194-05**

**Date Collected: 10/28/13 14:15**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Bromodichloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Toluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Tetrachloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Dibromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
2-Hexanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Ethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Chlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
m,p-Xylene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
o-Xylene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Styrene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Bromoform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Isopropylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
n-Propylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Bromobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
2-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
sec-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
p-Isopropyltoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
n-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Naphthalene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:12	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	105		71.2 - 143				10/31/13 07:42	10/31/13 14:12	1.00
1,2-dichloroethane-d4	101		70 - 140				10/31/13 07:42	10/31/13 14:12	1.00
Toluene-d8	99.3		74.1 - 135				10/31/13 07:42	10/31/13 14:12	1.00
4-bromofluorobenzene	100		68.7 - 141				10/31/13 07:42	10/31/13 14:12	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-5-102813**

**Lab Sample ID: SWJ0194-05**

**Date Collected: 10/28/13 14:15**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Acenaphthylene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Acetophenone	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Aniline	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Anthracene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Aramite, Total	ND		17		ug/L		11/01/13 18:08	11/05/13 19:23	1
Benzo[a]anthracene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Benzo[a]pyrene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Benzo[b]fluoranthene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Benzo[g,h,i]perylene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Benzo[k]fluoranthene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Benzyl alcohol	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Bis(2-chloroethoxy)methane	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Bis(2-chloroethyl)ether	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Bis(2-ethylhexyl) phthalate	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Butyl benzyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Ethyl 4,4'-Dichlorobenzilate	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Chrysene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Diallate	ND		5.2		ug/L		11/01/13 18:08	11/05/13 19:23	1
Dibenz(a,h)anthracene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Dibenzofuran	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Diethyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Dimethoate	ND		19		ug/L		11/01/13 18:08	11/05/13 19:23	1
Dimethyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Di-n-butyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Di-n-octyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Diphenylamine	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Disulfoton	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
Ethyl methanesulfonate	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Ethyl Parathion	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
Fluoranthene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Fluorene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Hexachlorobenzene	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Hexachlorobutadiene	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Hexachlorocyclopentadiene	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
Hexachloroethane	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Hexachloropropene	ND		93		ug/L		11/01/13 18:08	11/05/13 19:23	1
Indeno[1,2,3-cd]pyrene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Isodrin	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Isophorone	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Isosafrole	ND		3.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Methapyrilene	ND		140		ug/L		11/01/13 18:08	11/05/13 19:23	1
Methyl methanesulfonate	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Methyl parathion	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
Naphthalene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Nitrobenzene	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
5-Nitro-o-toluidine	ND		19		ug/L		11/01/13 18:08	11/05/13 19:23	1
N-Nitrosodiethylamine	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
N-Nitrosodimethylamine	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-5-102813**

**Lab Sample ID: SWJ0194-05**

**Date Collected: 10/28/13 14:15**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-butylamine	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
N-Nitrosodi-n-propylamine	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
N-Nitrosomethylethylamine	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
N-Nitrosomorpholine	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
N-Nitrosopiperidine	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
N-Nitrosopyrrolidine	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Pentachlorobenzene	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Pentachloroethane	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
Pentachloronitrobenzene	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
Pentachlorophenol	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
Phenacetin	ND		19		ug/L		11/01/13 18:08	11/05/13 19:23	1
Phenol	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Phenanthrene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
Phorate	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
Pronamide	ND		19		ug/L		11/01/13 18:08	11/05/13 19:23	1
Pyrene	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
Pyridine	ND		19		ug/L		11/01/13 18:08	11/05/13 19:23	1
Thionazin	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
1,2,4,5-Tetrachlorobenzene	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
1,2,4-Trichlorobenzene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
1,2-Dichlorobenzene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
1,3,5-Trinitrobenzene	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
1,3-Dichlorobenzene	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
1,4-Dichlorobenzene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
1-Naphthylamine	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
1,4-Naphthoquinone	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
1,3-Dinitrobenzene	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
2,3,4,6-Tetrachlorophenol	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
2,4,5-Trichlorophenol	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
2,4,6-Trichlorophenol	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
2,4-Dichlorophenol	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
2,4-Dimethylphenol	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
2,4-Dinitrophenol	ND		28		ug/L		11/01/13 18:08	11/05/13 19:23	1
2,4-Dinitrotoluene	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
2,6-Dinitrotoluene	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
2-Acetylaminofluorene	ND		93		ug/L		11/01/13 18:08	11/05/13 19:23	1
2-Chloronaphthalene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
2-Chlorophenol	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
2-Picoline	ND		19		ug/L		11/01/13 18:08	11/05/13 19:23	1
2-Toluidine	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
3 & 4 Methylphenol	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
3,3'-Dichlorobenzidine	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
3,3'-Dimethylbenzidine	ND		19		ug/L		11/01/13 18:08	11/05/13 19:23	1
3-Methylcholanthrene	ND		19		ug/L		11/01/13 18:08	11/05/13 19:23	1
3-Nitroaniline	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
4,6-Dinitro-2-methylphenol	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
2-Methylphenol	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
2-Naphthylamine	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-5-102813**

**Lab Sample ID: SWJ0194-05**

**Date Collected: 10/28/13 14:15**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
2-Nitrophenol	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
4-Aminobiphenyl	ND		47		ug/L		11/01/13 18:08	11/05/13 19:23	1
4-Bromophenyl phenyl ether	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
4-Chloro-3-methylphenol	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
4-Chloroaniline	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
4-Chlorophenyl phenyl ether	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
4-Nitroaniline	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
4-Nitrophenol	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1
4-Nitroquinoline-1-oxide	ND		93		ug/L		11/01/13 18:08	11/05/13 19:23	1
2-Methylnaphthalene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:23	1
7,12-Dimethylbenz(a)anthracene	ND		19		ug/L		11/01/13 18:08	11/05/13 19:23	1
2,6-Dichlorophenol	ND		9.3		ug/L		11/01/13 18:08	11/05/13 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	87		10 - 120	11/01/13 18:08	11/05/13 19:23	1
Phenol-d5	89		10 - 120	11/01/13 18:08	11/05/13 19:23	1
Nitrobenzene-d5	90		27 - 120	11/01/13 18:08	11/05/13 19:23	1
2-Fluorobiphenyl	83		29 - 120	11/01/13 18:08	11/05/13 19:23	1
2,4,6-Tribromophenol	87		10 - 120	11/01/13 18:08	11/05/13 19:23	1
Terphenyl-d14	86		13 - 120	11/01/13 18:08	11/05/13 19:23	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND	QSG	0.237		mg/l		11/01/13 13:30	11/05/13 01:58	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	0.380		mg/l		11/01/13 13:30	11/05/13 01:58	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	86.3	QSG	50 - 150	11/01/13 13:30	11/05/13 01:58	1.00
n-Triacontane-d62	94.2	QSG	50 - 150	11/01/13 13:30	11/05/13 01:58	1.00

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>0.159</b>		0.00500		mg/L			11/04/13 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	76		62 - 124		11/04/13 15:04	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:51	1
<b>Barium</b>	<b>120</b>		1.0		ug/L		10/30/13 17:21	10/31/13 13:51	1
Silver	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:51	1
<b>Arsenic</b>	<b>16</b>		1.0		ug/L		10/30/13 17:21	10/31/13 13:51	1
Lead	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:51	1
Selenium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:51	1
Chromium	ND		2.0		ug/L		10/30/13 17:21	10/31/13 13:51	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:04	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-5-102813**

**Lab Sample ID: SWJ0194-05**

Date Collected: 10/28/13 14:15

Matrix: Water

Date Received: 10/29/13 15:40

**Method: 200.8 - Metals (ICP/MS) - Dissolved (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	120		1.0		ug/L		11/01/13 10:18	11/01/13 20:04	1
Silver	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:04	1
Arsenic	13		1.0		ug/L		11/01/13 10:18	11/01/13 20:04	1
Lead	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:04	1
Selenium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:04	1
Manganese	1100		10		ug/L		11/01/13 10:18	11/04/13 11:50	5
Chromium	ND		2.0		ug/L		11/01/13 10:18	11/01/13 20:04	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:08	11/04/13 16:03	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:14	11/04/13 16:47	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		200		ug/l		10/30/13 07:35	10/30/13 09:49	1.00
Sulfate	5400		500		ug/l		10/30/13 07:35	10/30/13 09:49	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	370000		4000		ug/l		11/05/13 11:47	11/05/13 14:27	1.00

**Client Sample ID: MW-6-102813**

**Lab Sample ID: SWJ0194-06**

Date Collected: 10/28/13 13:24

Matrix: Water

Date Received: 10/29/13 15:40

**Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Dibromofluoromethane</i>	<i>105</i>		<i>71.2 - 143</i>				<i>10/31/13 07:42</i>	<i>10/31/13 14:35</i>	<i>1.00</i>
<i>Toluene-d8</i>	<i>97.9</i>		<i>74.1 - 135</i>				<i>10/31/13 07:42</i>	<i>10/31/13 14:35</i>	<i>1.00</i>
<i>4-bromofluorobenzene</i>	<i>99.4</i>		<i>68.7 - 141</i>				<i>10/31/13 07:42</i>	<i>10/31/13 14:35</i>	<i>1.00</i>

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Chloromethane	ND		3.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Vinyl chloride	ND		0.200		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Bromomethane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Chloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Dichlorofluoromethane	ND		0.100		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Carbon disulfide	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Methylene chloride	ND		10.0		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Acetone	ND		25.0		ug/l		10/31/13 07:42	10/31/13 14:35	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-6-102813**

**Lab Sample ID: SWJ0194-06**

**Date Collected: 10/28/13 13:24**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Bromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Chloroform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
2-Butanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
n-Hexane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Benzene	ND		0.200		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
tert-Butanol	ND		5.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Trichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Dibromomethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Bromodichloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Toluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Tetrachloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Dibromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
2-Hexanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Ethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Chlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
m,p-Xylene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
o-Xylene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Styrene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Bromoform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Isopropylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
n-Propylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Bromobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
2-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
sec-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-6-102813**

**Lab Sample ID: SWJ0194-06**

**Date Collected: 10/28/13 13:24**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
n-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Naphthalene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:35	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	105		71.2 - 143				10/31/13 07:42	10/31/13 14:35	1.00
1,2-dichloroethane-d4	101		70 - 140				10/31/13 07:42	10/31/13 14:35	1.00
Toluene-d8	97.9		74.1 - 135				10/31/13 07:42	10/31/13 14:35	1.00
4-bromofluorobenzene	99.4		68.7 - 141				10/31/13 07:42	10/31/13 14:35	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Acenaphthylene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Acetophenone	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Aniline	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Anthracene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Aramite, Total	ND		17		ug/L		11/01/13 18:08	11/05/13 19:50	1
Benzo[a]anthracene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Benzo[a]pyrene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Benzo[b]fluoranthene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Benzo[g,h,i]perylene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Benzo[k]fluoranthene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Benzyl alcohol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Bis(2-chloroethoxy)methane	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Bis(2-chloroethyl)ether	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Bis(2-ethylhexyl) phthalate	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Butyl benzyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Ethyl 4,4'-Dichlorobenzilate	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Chrysene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Diallate	ND		5.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Dibenz(a,h)anthracene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Dibenzofuran	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Diethyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Dimethoate	ND		18		ug/L		11/01/13 18:08	11/05/13 19:50	1
Dimethyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Di-n-butyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Di-n-octyl phthalate	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Diphenylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Disulfoton	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
Ethyl methanesulfonate	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Ethyl Parathion	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
Fluoranthene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-6-102813**

**Lab Sample ID: SWJ0194-06**

**Date Collected: 10/28/13 13:24**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Hexachlorobenzene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Hexachlorobutadiene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Hexachlorocyclopentadiene	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
Hexachloroethane	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Hexachloropropene	ND		92		ug/L		11/01/13 18:08	11/05/13 19:50	1
Indeno[1,2,3-cd]pyrene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Isodrin	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Isophorone	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Isosafrole	ND		3.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Methapyrilene	ND		140		ug/L		11/01/13 18:08	11/05/13 19:50	1
Methyl methanesulfonate	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Methyl parathion	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
<b>Naphthalene</b>	<b>4.2</b>		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Nitrobenzene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
5-Nitro-o-toluidine	ND		18		ug/L		11/01/13 18:08	11/05/13 19:50	1
N-Nitrosodiethylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
N-Nitrosodimethylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
N-Nitrosodi-n-butylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
N-Nitrosodi-n-propylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
N-Nitrosomethylethylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
N-Nitrosomorpholine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
N-Nitrosopiperidine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
N-Nitrosopyrrolidine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Pentachlorobenzene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Pentachloroethane	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
Pentachloronitrobenzene	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
Pentachlorophenol	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
Phenacetin	ND		18		ug/L		11/01/13 18:08	11/05/13 19:50	1
Phenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Phenanthrene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
Phorate	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
Pronamide	ND		18		ug/L		11/01/13 18:08	11/05/13 19:50	1
Pyrene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
Pyridine	ND		18		ug/L		11/01/13 18:08	11/05/13 19:50	1
Thionazin	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
1,2,4,5-Tetrachlorobenzene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
1,2,4-Trichlorobenzene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
1,2-Dichlorobenzene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
1,3,5-Trinitrobenzene	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
1,3-Dichlorobenzene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
1,4-Dichlorobenzene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
1-Naphthylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
1,4-Naphthoquinone	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
1,3-Dinitrobenzene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
2,3,4,6-Tetrachlorophenol	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
2,4,5-Trichlorophenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
2,4,6-Trichlorophenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-6-102813**

**Lab Sample ID: SWJ0194-06**

Date Collected: 10/28/13 13:24

Matrix: Water

Date Received: 10/29/13 15:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
2,4-Dimethylphenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
2,4-Dinitrophenol	ND		28		ug/L		11/01/13 18:08	11/05/13 19:50	1
2,4-Dinitrotoluene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
2,6-Dinitrotoluene	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
2-Acetylaminofluorene	ND		92		ug/L		11/01/13 18:08	11/05/13 19:50	1
2-Chloronaphthalene	ND		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
2-Chlorophenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
2-Picoline	ND		18		ug/L		11/01/13 18:08	11/05/13 19:50	1
2-Toluidine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
3 & 4 Methylphenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
3,3'-Dichlorobenzidine	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
3,3'-Dimethylbenzidine	ND		18		ug/L		11/01/13 18:08	11/05/13 19:50	1
3-Methylcholanthrene	ND		18		ug/L		11/01/13 18:08	11/05/13 19:50	1
3-Nitroaniline	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
4,6-Dinitro-2-methylphenol	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
2-Methylphenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
2-Naphthylamine	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
2-Nitroaniline	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
2-Nitrophenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
4-Aminobiphenyl	ND		46		ug/L		11/01/13 18:08	11/05/13 19:50	1
4-Bromophenyl phenyl ether	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
4-Chloro-3-methylphenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
4-Chloroaniline	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
4-Chlorophenyl phenyl ether	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
4-Nitroaniline	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
4-Nitrophenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1
4-Nitroquinoline-1-oxide	ND		92		ug/L		11/01/13 18:08	11/05/13 19:50	1
<b>2-Methylnaphthalene</b>	<b>5.9</b>		3.7		ug/L		11/01/13 18:08	11/05/13 19:50	1
7,12-Dimethylbenz(a)anthracene	ND		18		ug/L		11/01/13 18:08	11/05/13 19:50	1
2,6-Dichlorophenol	ND		9.2		ug/L		11/01/13 18:08	11/05/13 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	79		10 - 120	11/01/13 18:08	11/05/13 19:50	1
Phenol-d5	83		10 - 120	11/01/13 18:08	11/05/13 19:50	1
Nitrobenzene-d5	82		27 - 120	11/01/13 18:08	11/05/13 19:50	1
2-Fluorobiphenyl	78		29 - 120	11/01/13 18:08	11/05/13 19:50	1
2,4,6-Tribromophenol	86		10 - 120	11/01/13 18:08	11/05/13 19:50	1
Terphenyl-d14	84		13 - 120	11/01/13 18:08	11/05/13 19:50	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND	QSG	0.239		mg/l		11/01/13 13:30	11/05/13 03:03	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	0.382		mg/l		11/01/13 13:30	11/05/13 03:03	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	80.3	QSG	50 - 150	11/01/13 13:30	11/05/13 03:03	1.00
n-Triacontane-d62	86.5	QSG	50 - 150	11/01/13 13:30	11/05/13 03:03	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-6-102813**

**Lab Sample ID: SWJ0194-06**

Date Collected: 10/28/13 13:24

Matrix: Water

Date Received: 10/29/13 15:40

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.107		0.00500		mg/L			11/04/13 15:06	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Acetylene (Surr)	78		62 - 124					11/04/13 15:06	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:05	1
Barium	68		1.0		ug/L		10/30/13 17:21	10/31/13 14:05	1
Silver	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:05	1
Arsenic	2.5		1.0		ug/L		10/30/13 17:21	10/31/13 14:05	1
Lead	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:05	1
Selenium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:05	1
Chromium	2.2		2.0		ug/L		10/30/13 17:21	10/31/13 14:05	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:08	1
Barium	62		1.0		ug/L		11/01/13 10:18	11/01/13 20:08	1
Silver	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:08	1
Arsenic	2.0		1.0		ug/L		11/01/13 10:18	11/01/13 20:08	1
Lead	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:08	1
Selenium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:08	1
Manganese	980		2.0		ug/L		11/01/13 10:18	11/01/13 20:08	1
Chromium	ND		2.0		ug/L		11/01/13 10:18	11/01/13 20:08	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:08	11/04/13 16:12	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:14	11/04/13 16:50	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		200		ug/l		10/30/13 07:35	10/30/13 10:08	1.00
Sulfate	10200		500		ug/l		10/30/13 07:35	10/30/13 10:08	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	360000		4000		ug/l		11/05/13 11:47	11/05/13 14:27	1.00

**Client Sample ID: MW-7-102813**

**Lab Sample ID: SWJ0194-07**

Date Collected: 10/28/13 11:54

Matrix: Water

Date Received: 10/29/13 15:40

**Method: EPA 8260C - NWTPh-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		10/31/13 07:42	10/31/13 14:58	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-7-102813**

**Lab Sample ID: SWJ0194-07**

**Date Collected: 10/28/13 11:54**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	105		71.2 - 143	10/31/13 07:42	10/31/13 14:58	1.00
Toluene-d8	98.7		74.1 - 135	10/31/13 07:42	10/31/13 14:58	1.00
4-bromofluorobenzene	96.5		68.7 - 141	10/31/13 07:42	10/31/13 14:58	1.00

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Chloromethane	ND		3.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Vinyl chloride	ND		0.200		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Bromomethane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Chloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Dichlorofluoromethane	ND		0.100		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Carbon disulfide	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Methylene chloride	ND		10.0		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Acetone	ND		25.0		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Bromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Chloroform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
2-Butanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
n-Hexane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Benzene	ND		0.200		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
tert-Butanol	ND		5.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Trichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Dibromomethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Bromodichloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Toluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Tetrachloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Dibromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
2-Hexanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Ethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Chlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-7-102813**

**Lab Sample ID: SWJ0194-07**

**Date Collected: 10/28/13 11:54**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
o-Xylene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Styrene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Bromoform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Isopropylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
n-Propylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Bromobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
2-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
sec-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
p-Isopropyltoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
n-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
Naphthalene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 14:58	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	105		71.2 - 143	10/31/13 07:42	10/31/13 14:58	1.00
1,2-dichloroethane-d4	100		70 - 140	10/31/13 07:42	10/31/13 14:58	1.00
Toluene-d8	98.7		74.1 - 135	10/31/13 07:42	10/31/13 14:58	1.00
4-bromofluorobenzene	96.5		68.7 - 141	10/31/13 07:42	10/31/13 14:58	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Acenaphthylene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Acetophenone	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Aniline	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Anthracene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Aramite, Total	ND		18		ug/L		11/01/13 18:08	11/05/13 20:17	1
Benzo[a]anthracene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Benzo[a]pyrene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Benzo[b]fluoranthene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Benzo[g,h,i]perylene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Benzo[k]fluoranthene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Benzyl alcohol	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Bis(2-chloroethoxy)methane	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Bis(2-chloroethyl)ether	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Bis(2-ethylhexyl) phthalate	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-7-102813**

**Lab Sample ID: SWJ0194-07**

**Date Collected: 10/28/13 11:54**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Ethyl 4,4'-Dichlorobenzilate	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Chrysene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Diallate	ND		5.4		ug/L		11/01/13 18:08	11/05/13 20:17	1
Dibenz(a,h)anthracene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Dibenzofuran	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Diethyl phthalate	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Dimethoate	ND		19		ug/L		11/01/13 18:08	11/05/13 20:17	1
Dimethyl phthalate	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Di-n-butyl phthalate	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Di-n-octyl phthalate	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Diphenylamine	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Disulfoton	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1
Ethyl methanesulfonate	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Ethyl Parathion	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1
Fluoranthene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Fluorene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Hexachlorobenzene	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Hexachlorobutadiene	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Hexachlorocyclopentadiene	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1
Hexachloroethane	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Hexachloropropene	ND		97		ug/L		11/01/13 18:08	11/05/13 20:17	1
Indeno[1,2,3-cd]pyrene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Isodrin	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Isophorone	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Isosafrole	ND		3.4		ug/L		11/01/13 18:08	11/05/13 20:17	1
Methapyrilene	ND		150		ug/L		11/01/13 18:08	11/05/13 20:17	1
Methyl methanesulfonate	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Methyl parathion	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1
Naphthalene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Nitrobenzene	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
5-Nitro-o-toluidine	ND		19		ug/L		11/01/13 18:08	11/05/13 20:17	1
N-Nitrosodiethylamine	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
N-Nitrosodimethylamine	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
N-Nitrosodi-n-butylamine	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
N-Nitrosodi-n-propylamine	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
N-Nitrosomethylethylamine	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
N-Nitrosomorpholine	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
N-Nitrosopiperidine	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
N-Nitrosopyrrolidine	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Pentachlorobenzene	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Pentachloroethane	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1
Pentachloronitrobenzene	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1
Pentachlorophenol	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1
Phenacetin	ND		19		ug/L		11/01/13 18:08	11/05/13 20:17	1
Phenol	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Phenanthrene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
Phorate	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-7-102813**

**Lab Sample ID: SWJ0194-07**

**Date Collected: 10/28/13 11:54**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pronamide	ND		19		ug/L		11/01/13 18:08	11/05/13 20:17	1
Pyrene	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
Pyridine	ND		19		ug/L		11/01/13 18:08	11/05/13 20:17	1
Thionazin	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1
1,2,4,5-Tetrachlorobenzene	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
1,2,4-Trichlorobenzene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
1,2-Dichlorobenzene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
1,3,5-Trinitrobenzene	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1
1,3-Dichlorobenzene	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
1,4-Dichlorobenzene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
1-Naphthylamine	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
1,4-Naphthoquinone	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1
1,3-Dinitrobenzene	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
2,3,4,6-Tetrachlorophenol	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1
2,4,5-Trichlorophenol	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
2,4,6-Trichlorophenol	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
2,4-Dichlorophenol	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
2,4-Dimethylphenol	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
2,4-Dinitrophenol	ND		29		ug/L		11/01/13 18:08	11/05/13 20:17	1
2,4-Dinitrotoluene	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
2,6-Dinitrotoluene	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
2-Acetylaminofluorene	ND		97		ug/L		11/01/13 18:08	11/05/13 20:17	1
2-Chloronaphthalene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
2-Chlorophenol	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
2-Picoline	ND		19		ug/L		11/01/13 18:08	11/05/13 20:17	1
2-Toluidine	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
3 & 4 Methylphenol	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
3,3'-Dichlorobenzidine	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1
3,3'-Dimethylbenzidine	ND		19		ug/L		11/01/13 18:08	11/05/13 20:17	1
3-Methylcholanthrene	ND		19		ug/L		11/01/13 18:08	11/05/13 20:17	1
3-Nitroaniline	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
4,6-Dinitro-2-methylphenol	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1
2-Methylphenol	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
2-Naphthylamine	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
2-Nitroaniline	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
2-Nitrophenol	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
4-Aminobiphenyl	ND		49		ug/L		11/01/13 18:08	11/05/13 20:17	1
4-Bromophenyl phenyl ether	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
4-Chloro-3-methylphenol	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
4-Chloroaniline	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
4-Chlorophenyl phenyl ether	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
4-Nitroaniline	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
4-Nitrophenol	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1
4-Nitroquinoline-1-oxide	ND		97		ug/L		11/01/13 18:08	11/05/13 20:17	1
2-Methylnaphthalene	ND		3.9		ug/L		11/01/13 18:08	11/05/13 20:17	1
7,12-Dimethylbenz(a)anthracene	ND		19		ug/L		11/01/13 18:08	11/05/13 20:17	1
2,6-Dichlorophenol	ND		9.7		ug/L		11/01/13 18:08	11/05/13 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		10 - 120	11/01/13 18:08	11/05/13 20:17	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-7-102813**

**Lab Sample ID: SWJ0194-07**

Date Collected: 10/28/13 11:54

Matrix: Water

Date Received: 10/29/13 15:40

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5	78		10 - 120	11/01/13 18:08	11/05/13 20:17	1
Nitrobenzene-d5	79		27 - 120	11/01/13 18:08	11/05/13 20:17	1
2-Fluorobiphenyl	75		29 - 120	11/01/13 18:08	11/05/13 20:17	1
2,4,6-Tribromophenol	85		10 - 120	11/01/13 18:08	11/05/13 20:17	1
Terphenyl-d14	86		13 - 120	11/01/13 18:08	11/05/13 20:17	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND	QSG	0.238		mg/l		11/01/13 13:30	11/05/13 03:25	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	0.381		mg/l		11/01/13 13:30	11/05/13 03:25	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	81.0	QSG	50 - 150	11/01/13 13:30	11/05/13 03:25	1.00
n-Triacontane-d62	85.7	QSG	50 - 150	11/01/13 13:30	11/05/13 03:25	1.00

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.0630		0.00500		mg/L			11/04/13 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	81		62 - 124		11/04/13 15:08	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:08	1
Barium	110		1.0		ug/L		10/30/13 17:21	10/31/13 14:08	1
Silver	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:08	1
Arsenic	83		1.0		ug/L		10/30/13 17:21	10/31/13 14:08	1
Lead	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:08	1
Selenium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:08	1
Chromium	ND		2.0		ug/L		10/30/13 17:21	10/31/13 14:08	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:21	1
Barium	100		1.0		ug/L		11/01/13 10:18	11/01/13 20:21	1
Silver	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:21	1
Arsenic	79		1.0		ug/L		11/01/13 10:18	11/01/13 20:21	1
Lead	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:21	1
Selenium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:21	1
Manganese	660		2.0		ug/L		11/01/13 10:18	11/01/13 20:21	1
Chromium	ND		2.0		ug/L		11/01/13 10:18	11/01/13 20:21	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:08	11/04/13 16:14	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:14	11/04/13 16:52	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-7-102813**

**Lab Sample ID: SWJ0194-07**

Date Collected: 10/28/13 11:54

Matrix: Water

Date Received: 10/29/13 15:40

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		200		ug/l		10/30/13 07:35	10/30/13 10:28	1.00
<b>Sulfate</b>	<b>7540</b>		500		ug/l		10/30/13 07:35	10/30/13 10:28	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Alkalinity</b>	<b>340000</b>		4000		ug/l		11/05/13 11:47	11/05/13 14:27	1.00

**Client Sample ID: MW-8-102813**

**Lab Sample ID: SWJ0194-08**

Date Collected: 10/28/13 10:45

Matrix: Water

Date Received: 10/29/13 15:40

**Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	104		71.2 - 143				10/31/13 07:42	10/31/13 15:22	1.00
Toluene-d8	95.7		74.1 - 135				10/31/13 07:42	10/31/13 15:22	1.00
4-bromofluorobenzene	97.9		68.7 - 141				10/31/13 07:42	10/31/13 15:22	1.00

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Chloromethane	ND		3.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Vinyl chloride	ND		0.200		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Bromomethane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Chloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Dichlorofluoromethane	ND		0.100		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Carbon disulfide	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Methylene chloride	ND		10.0		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Acetone	ND		25.0		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Bromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Chloroform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
2-Butanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
n-Hexane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Benzene	ND		0.200		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
tert-Butanol	ND		5.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Trichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-8-102813**

**Lab Sample ID: SWJ0194-08**

**Date Collected: 10/28/13 10:45**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Bromodichloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Toluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Tetrachloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,1,1,2-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Dibromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
2-Hexanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Ethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Chlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
m,p-Xylene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
o-Xylene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Styrene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Bromoform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Isopropylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
n-Propylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Bromobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
2-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
sec-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
p-Isopropyltoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
n-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Naphthalene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:22	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		71.2 - 143				10/31/13 07:42	10/31/13 15:22	1.00
1,2-dichloroethane-d4	99.9		70 - 140				10/31/13 07:42	10/31/13 15:22	1.00
Toluene-d8	95.7		74.1 - 135				10/31/13 07:42	10/31/13 15:22	1.00
4-bromofluorobenzene	97.9		68.7 - 141				10/31/13 07:42	10/31/13 15:22	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-8-102813**

**Lab Sample ID: SWJ0194-08**

**Date Collected: 10/28/13 10:45**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Acenaphthylene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Acetophenone	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Aniline	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Anthracene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Aramite, Total	ND		18		ug/L		11/01/13 18:08	11/05/13 20:44	1
Benzo[a]anthracene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Benzo[a]pyrene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Benzo[b]fluoranthene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Benzo[g,h,i]perylene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Benzo[k]fluoranthene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Benzyl alcohol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Bis(2-chloroethoxy)methane	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Bis(2-chloroethyl)ether	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Bis(2-ethylhexyl) phthalate	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Butyl benzyl phthalate	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Ethyl 4,4'-Dichlorobenzilate	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Chrysene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Diallate	ND		5.3		ug/L		11/01/13 18:08	11/05/13 20:44	1
Dibenz(a,h)anthracene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Dibenzofuran	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Diethyl phthalate	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Dimethoate	ND		19		ug/L		11/01/13 18:08	11/05/13 20:44	1
Dimethyl phthalate	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Di-n-butyl phthalate	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Di-n-octyl phthalate	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Diphenylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Disulfoton	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
Ethyl methanesulfonate	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Ethyl Parathion	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
Fluoranthene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Fluorene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Hexachlorobenzene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Hexachlorobutadiene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Hexachlorocyclopentadiene	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
Hexachloroethane	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Hexachloropropene	ND		95		ug/L		11/01/13 18:08	11/05/13 20:44	1
Indeno[1,2,3-cd]pyrene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Isodrin	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Isophorone	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Isosafrole	ND		3.3		ug/L		11/01/13 18:08	11/05/13 20:44	1
Methapyrilene	ND		140		ug/L		11/01/13 18:08	11/05/13 20:44	1
Methyl methanesulfonate	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Methyl parathion	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
Naphthalene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Nitrobenzene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
5-Nitro-o-toluidine	ND		19		ug/L		11/01/13 18:08	11/05/13 20:44	1
N-Nitrosodiethylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
N-Nitrosodimethylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
 Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-8-102813**

**Lab Sample ID: SWJ0194-08**

**Date Collected: 10/28/13 10:45**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-butylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
N-Nitrosodi-n-propylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
N-Nitrosomethylethylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
N-Nitrosomorpholine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
N-Nitrosopiperidine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
N-Nitrosopyrrolidine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Pentachlorobenzene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Pentachloroethane	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
Pentachloronitrobenzene	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
Pentachlorophenol	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
Phenacetin	ND		19		ug/L		11/01/13 18:08	11/05/13 20:44	1
Phenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Phenanthrene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
Phorate	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
Pronamide	ND		19		ug/L		11/01/13 18:08	11/05/13 20:44	1
Pyrene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
Pyridine	ND		19		ug/L		11/01/13 18:08	11/05/13 20:44	1
Thionazin	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
1,2,4,5-Tetrachlorobenzene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
1,2,4-Trichlorobenzene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
1,2-Dichlorobenzene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
1,3,5-Trinitrobenzene	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
1,3-Dichlorobenzene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
1,4-Dichlorobenzene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
1-Naphthylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
1,4-Naphthoquinone	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
1,3-Dinitrobenzene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
2,3,4,6-Tetrachlorophenol	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
2,4,5-Trichlorophenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
2,4,6-Trichlorophenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
2,4-Dichlorophenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
2,4-Dimethylphenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
2,4-Dinitrophenol	ND		29		ug/L		11/01/13 18:08	11/05/13 20:44	1
2,4-Dinitrotoluene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
2,6-Dinitrotoluene	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
2-Acetylaminofluorene	ND		95		ug/L		11/01/13 18:08	11/05/13 20:44	1
2-Chloronaphthalene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
2-Chlorophenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
2-Picoline	ND		19		ug/L		11/01/13 18:08	11/05/13 20:44	1
2-Toluidine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
3 & 4 Methylphenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
3,3'-Dichlorobenzidine	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
3,3'-Dimethylbenzidine	ND		19		ug/L		11/01/13 18:08	11/05/13 20:44	1
3-Methylcholanthrene	ND		19		ug/L		11/01/13 18:08	11/05/13 20:44	1
3-Nitroaniline	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
4,6-Dinitro-2-methylphenol	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
2-Methylphenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
2-Naphthylamine	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-8-102813**

**Lab Sample ID: SWJ0194-08**

**Date Collected: 10/28/13 10:45**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
2-Nitrophenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
4-Aminobiphenyl	ND		48		ug/L		11/01/13 18:08	11/05/13 20:44	1
4-Bromophenyl phenyl ether	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
4-Chloro-3-methylphenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
4-Chloroaniline	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
4-Chlorophenyl phenyl ether	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
4-Nitroaniline	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
4-Nitrophenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1
4-Nitroquinoline-1-oxide	ND		95		ug/L		11/01/13 18:08	11/05/13 20:44	1
2-Methylnaphthalene	ND		3.8		ug/L		11/01/13 18:08	11/05/13 20:44	1
7,12-Dimethylbenz(a)anthracene	ND		19		ug/L		11/01/13 18:08	11/05/13 20:44	1
2,6-Dichlorophenol	ND		9.5		ug/L		11/01/13 18:08	11/05/13 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	72		10 - 120	11/01/13 18:08	11/05/13 20:44	1
Phenol-d5	74		10 - 120	11/01/13 18:08	11/05/13 20:44	1
Nitrobenzene-d5	73		27 - 120	11/01/13 18:08	11/05/13 20:44	1
2-Fluorobiphenyl	68		29 - 120	11/01/13 18:08	11/05/13 20:44	1
2,4,6-Tribromophenol	78		10 - 120	11/01/13 18:08	11/05/13 20:44	1
Terphenyl-d14	81		13 - 120	11/01/13 18:08	11/05/13 20:44	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND	QSG	0.238		mg/l		11/01/13 13:30	11/05/13 03:47	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	0.380		mg/l		11/01/13 13:30	11/05/13 03:47	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	82.8	QSG	50 - 150	11/01/13 13:30	11/05/13 03:47	1.00
n-Triacontane-d62	87.7	QSG	50 - 150	11/01/13 13:30	11/05/13 03:47	1.00

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>3.05</b>		0.0500		mg/L			11/04/13 15:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	80		62 - 124		11/04/13 15:11	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:11	1
<b>Barium</b>	<b>90</b>		1.0		ug/L		10/30/13 17:21	10/31/13 14:11	1
Silver	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:11	1
<b>Arsenic</b>	<b>13</b>		1.0		ug/L		10/30/13 17:21	10/31/13 14:11	1
Lead	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:11	1
Selenium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:11	1
Chromium	ND		2.0		ug/L		10/30/13 17:21	10/31/13 14:11	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:24	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-8-102813**

**Lab Sample ID: SWJ0194-08**

Date Collected: 10/28/13 10:45

Matrix: Water

Date Received: 10/29/13 15:40

**Method: 200.8 - Metals (ICP/MS) - Dissolved (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	69		1.0		ug/L		11/01/13 10:18	11/01/13 20:24	1
Silver	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:24	1
Arsenic	4.7		1.0		ug/L		11/01/13 10:18	11/01/13 20:24	1
Lead	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:24	1
Selenium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:24	1
Manganese	630		2.0		ug/L		11/01/13 10:18	11/01/13 20:24	1
Chromium	ND		2.0		ug/L		11/01/13 10:18	11/01/13 20:24	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:08	11/04/13 16:17	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:14	11/04/13 16:55	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND	H	200		ug/l		10/30/13 07:35	10/30/13 10:48	1.00
Sulfate	1370		500		ug/l		10/30/13 07:35	10/30/13 10:48	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	230000		4000		ug/l		11/05/13 11:47	11/05/13 14:27	1.00

**Client Sample ID: B-1-102813**

**Lab Sample ID: SWJ0194-09**

Date Collected: 10/28/13 17:20

Matrix: Water

Date Received: 10/29/13 15:40

**Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Dibromofluoromethane	106		71.2 - 143				10/31/13 07:42	10/31/13 15:45	1.00
Toluene-d8	97.9		74.1 - 135				10/31/13 07:42	10/31/13 15:45	1.00
4-bromofluorobenzene	100		68.7 - 141				10/31/13 07:42	10/31/13 15:45	1.00

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Chloromethane	ND		3.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Vinyl chloride	ND		0.200		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Bromomethane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Chloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Dichlorofluoromethane	ND		0.100		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Carbon disulfide	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Methylene chloride	ND		10.0		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Acetone	ND		25.0		ug/l		10/31/13 07:42	10/31/13 15:45	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: B-1-102813**

**Lab Sample ID: SWJ0194-09**

**Date Collected: 10/28/13 17:20**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Bromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Chloroform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
2-Butanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
n-Hexane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Benzene	ND		0.200		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
tert-Butanol	ND		5.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Trichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Dibromomethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Bromodichloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Toluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Tetrachloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Dibromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
2-Hexanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Ethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Chlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
m,p-Xylene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
o-Xylene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Styrene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Bromoform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Isopropylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
n-Propylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Bromobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
2-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
sec-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: B-1-102813**

**Lab Sample ID: SWJ0194-09**

Date Collected: 10/28/13 17:20

Matrix: Water

Date Received: 10/29/13 15:40

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
n-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
<b>Naphthalene</b>	<b>4.69</b>		2.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 15:45	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	106		71.2 - 143				10/31/13 07:42	10/31/13 15:45	1.00
1,2-dichloroethane-d4	102		70 - 140				10/31/13 07:42	10/31/13 15:45	1.00
Toluene-d8	97.9		74.1 - 135				10/31/13 07:42	10/31/13 15:45	1.00
4-bromofluorobenzene	100		68.7 - 141				10/31/13 07:42	10/31/13 15:45	1.00

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Hydrocarbons</b>	<b>2.17</b>	<b>QSG</b>	0.242		mg/l		11/01/13 13:30	11/05/13 13:24	1.00
<b>Heavy Oil Range Hydrocarbons</b>	<b>5.39</b>	<b>QSG</b>	0.387		mg/l		11/01/13 13:30	11/05/13 13:24	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	85.1	QSG	50 - 150				11/01/13 13:30	11/05/13 13:24	1.00
n-Triacontane-d62	96.7	QSG	50 - 150				11/01/13 13:30	11/05/13 13:24	1.00

**Client Sample ID: Duplicate-1-102813**

**Lab Sample ID: SWJ0194-10**

Date Collected: 10/28/13 12:34

Matrix: Water

Date Received: 10/29/13 15:40

**Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	106		71.2 - 143				10/31/13 07:42	10/31/13 16:08	1.00
Toluene-d8	97.9		74.1 - 135				10/31/13 07:42	10/31/13 16:08	1.00
4-bromofluorobenzene	99.3		68.7 - 141				10/31/13 07:42	10/31/13 16:08	1.00

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Chloromethane	ND		3.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Vinyl chloride	ND		0.200		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Bromomethane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Chloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Dichlorofluoromethane	ND		0.100		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Carbon disulfide	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Methylene chloride	ND		10.0		ug/l		10/31/13 07:42	10/31/13 16:08	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: Duplicate-1-102813**

**Lab Sample ID: SWJ0194-10**

**Date Collected: 10/28/13 12:34**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Bromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Chloroform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
2-Butanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
n-Hexane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Benzene	ND		0.200		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
tert-Butanol	ND		5.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Trichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Dibromomethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Bromodichloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Toluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Tetrachloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Dibromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
2-Hexanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Ethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Chlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
m,p-Xylene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
o-Xylene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Styrene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Bromoform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Isopropylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
n-Propylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Bromobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
2-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: Duplicate-1-102813**

**Lab Sample ID: SWJ0194-10**

**Date Collected: 10/28/13 12:34**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
p-Isopropyltoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
n-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Naphthalene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:08	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	106		71.2 - 143				10/31/13 07:42	10/31/13 16:08	1.00
1,2-dichloroethane-d4	100		70 - 140				10/31/13 07:42	10/31/13 16:08	1.00
Toluene-d8	97.9		74.1 - 135				10/31/13 07:42	10/31/13 16:08	1.00
4-bromofluorobenzene	99.3		68.7 - 141				10/31/13 07:42	10/31/13 16:08	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Acenaphthylene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Acetophenone	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Aniline	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Anthracene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Aramite, Total	ND		20		ug/L		11/01/13 18:08	11/05/13 21:10	1
Benzo[a]anthracene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Benzo[a]pyrene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Benzo[b]fluoranthene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Benzo[g,h,i]perylene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Benzo[k]fluoranthene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Benzyl alcohol	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Bis(2-chloroethoxy)methane	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Bis(2-chloroethyl)ether	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Bis(2-ethylhexyl) phthalate	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Butyl benzyl phthalate	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Ethyl 4,4'-Dichlorobenzilate	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Chrysene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Diallate	ND		6.0		ug/L		11/01/13 18:08	11/05/13 21:10	1
Dibenz(a,h)anthracene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Dibenzofuran	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Diethyl phthalate	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Dimethoate	ND		21		ug/L		11/01/13 18:08	11/05/13 21:10	1
Dimethyl phthalate	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Di-n-butyl phthalate	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Di-n-octyl phthalate	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Diphenylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Disulfoton	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1
Ethyl methanesulfonate	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Ethyl Parathion	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: Duplicate-1-102813**

**Lab Sample ID: SWJ0194-10**

**Date Collected: 10/28/13 12:34**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Fluorene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Hexachlorobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Hexachlorobutadiene	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Hexachlorocyclopentadiene	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1
Hexachloroethane	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Hexachloropropene	ND		110		ug/L		11/01/13 18:08	11/05/13 21:10	1
Indeno[1,2,3-cd]pyrene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Isodrin	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Isophorone	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Isosafrole	ND		3.7		ug/L		11/01/13 18:08	11/05/13 21:10	1
Methapyrilene	ND		160		ug/L		11/01/13 18:08	11/05/13 21:10	1
Methyl methanesulfonate	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Methyl parathion	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1
Naphthalene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Nitrobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
5-Nitro-o-toluidine	ND		21		ug/L		11/01/13 18:08	11/05/13 21:10	1
N-Nitrosodiethylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
N-Nitrosodimethylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
N-Nitrosodi-n-butylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
N-Nitrosodi-n-propylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
N-Nitrosomethylethylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
N-Nitrosomorpholine	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
N-Nitrosopiperidine	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
N-Nitrosopyrrolidine	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Pentachlorobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Pentachloroethane	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1
Pentachloronitrobenzene	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1
Pentachlorophenol	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1
Phenacetin	ND		21		ug/L		11/01/13 18:08	11/05/13 21:10	1
Phenol	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Phenanthrene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
Phorate	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1
Pronamide	ND		21		ug/L		11/01/13 18:08	11/05/13 21:10	1
Pyrene	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
Pyridine	ND		21		ug/L		11/01/13 18:08	11/05/13 21:10	1
Thionazin	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1
1,2,4,5-Tetrachlorobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
1,2,4-Trichlorobenzene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
1,2-Dichlorobenzene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
1,3,5-Trinitrobenzene	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1
1,3-Dichlorobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
1,4-Dichlorobenzene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
1-Naphthylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
1,4-Naphthoquinone	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1
1,3-Dinitrobenzene	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
2,3,4,6-Tetrachlorophenol	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1
2,4,5-Trichlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: Duplicate-1-102813**

**Lab Sample ID: SWJ0194-10**

**Date Collected: 10/28/13 12:34**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
2,4-Dichlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
2,4-Dimethylphenol	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
2,4-Dinitrophenol	ND		32		ug/L		11/01/13 18:08	11/05/13 21:10	1
2,4-Dinitrotoluene	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
2,6-Dinitrotoluene	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
2-Acetylaminofluorene	ND		110		ug/L		11/01/13 18:08	11/05/13 21:10	1
2-Chloronaphthalene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
2-Chlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
2-Picoline	ND		21		ug/L		11/01/13 18:08	11/05/13 21:10	1
2-Toluidine	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
3 & 4 Methylphenol	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
3,3'-Dichlorobenzidine	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1
3,3'-Dimethylbenzidine	ND		21		ug/L		11/01/13 18:08	11/05/13 21:10	1
3-Methylcholanthrene	ND		21		ug/L		11/01/13 18:08	11/05/13 21:10	1
3-Nitroaniline	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
4,6-Dinitro-2-methylphenol	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1
2-Methylphenol	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
2-Naphthylamine	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
2-Nitroaniline	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
2-Nitrophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
4-Aminobiphenyl	ND		53		ug/L		11/01/13 18:08	11/05/13 21:10	1
4-Bromophenyl phenyl ether	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
4-Chloro-3-methylphenol	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
4-Chloroaniline	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
4-Chlorophenyl phenyl ether	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
4-Nitroaniline	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
4-Nitrophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1
4-Nitroquinoline-1-oxide	ND		110		ug/L		11/01/13 18:08	11/05/13 21:10	1
2-Methylnaphthalene	ND		4.3		ug/L		11/01/13 18:08	11/05/13 21:10	1
7,12-Dimethylbenz(a)anthracene	ND		21		ug/L		11/01/13 18:08	11/05/13 21:10	1
2,6-Dichlorophenol	ND		11		ug/L		11/01/13 18:08	11/05/13 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	83		10 - 120	11/01/13 18:08	11/05/13 21:10	1
Phenol-d5	86		10 - 120	11/01/13 18:08	11/05/13 21:10	1
Nitrobenzene-d5	85		27 - 120	11/01/13 18:08	11/05/13 21:10	1
2-Fluorobiphenyl	80		29 - 120	11/01/13 18:08	11/05/13 21:10	1
2,4,6-Tribromophenol	89		10 - 120	11/01/13 18:08	11/05/13 21:10	1
Terphenyl-d14	84		13 - 120	11/01/13 18:08	11/05/13 21:10	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND	QSG	0.238		mg/l		11/01/13 13:30	11/05/13 13:47	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	0.382		mg/l		11/01/13 13:30	11/05/13 13:47	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	84.5	QSG	50 - 150	11/01/13 13:30	11/05/13 13:47	1.00
n-Triacontane-d62	103	QSG	50 - 150	11/01/13 13:30	11/05/13 13:47	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: Duplicate-1-102813**

**Lab Sample ID: SWJ0194-10**

Date Collected: 10/28/13 12:34

Matrix: Water

Date Received: 10/29/13 15:40

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.172		0.00500		mg/L			11/04/13 15:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Acetylene (Surr)	81		62 - 124					11/04/13 15:15	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:15	1
Barium	130		1.0		ug/L		10/30/13 17:21	10/31/13 14:15	1
Silver	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:15	1
Arsenic	17		1.0		ug/L		10/30/13 17:21	10/31/13 14:15	1
Lead	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:15	1
Selenium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 14:15	1
Chromium	ND		2.0		ug/L		10/30/13 17:21	10/31/13 14:15	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:28	1
Barium	120		1.0		ug/L		11/01/13 10:18	11/01/13 20:28	1
Silver	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:28	1
Arsenic	13		1.0		ug/L		11/01/13 10:18	11/01/13 20:28	1
Lead	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:28	1
Selenium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 20:28	1
Manganese	1100		10		ug/L		11/01/13 10:18	11/04/13 11:54	5
Chromium	ND		2.0		ug/L		11/01/13 10:18	11/01/13 20:28	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:08	11/04/13 16:19	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:14	11/04/13 16:57	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		200		ug/l		10/30/13 07:35	10/30/13 11:07	1.00
Sulfate	6300		500		ug/l		10/30/13 07:35	10/30/13 11:07	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	375000		4000		ug/l		11/05/13 11:47	11/05/13 14:27	1.00

**Client Sample ID: Trip Blank**

**Lab Sample ID: SWJ0194-11**

Date Collected: 10/28/13 00:00

Matrix: Water

Date Received: 10/29/13 15:40

**Method: EPA 8260C - NWTPh-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		10/31/13 07:42	10/31/13 16:32	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: Trip Blank**

**Lab Sample ID: SWJ0194-11**

**Date Collected: 10/28/13 00:00**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	105		71.2 - 143	10/31/13 07:42	10/31/13 16:32	1.00
Toluene-d8	96.5		74.1 - 135	10/31/13 07:42	10/31/13 16:32	1.00
4-bromofluorobenzene	95.0		68.7 - 141	10/31/13 07:42	10/31/13 16:32	1.00

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Chloromethane	ND		3.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Vinyl chloride	ND		0.200		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Bromomethane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Chloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Dichlorofluoromethane	ND		0.100		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Carbon disulfide	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Methylene chloride	ND		10.0		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Acetone	ND		25.0		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Bromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Chloroform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
2-Butanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
n-Hexane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Benzene	ND		0.200		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
tert-Butanol	ND		5.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Trichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Dibromomethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Bromodichloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Toluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Tetrachloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Dibromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
2-Hexanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Ethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Chlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: Trip Blank**

**Lab Sample ID: SWJ0194-11**

**Date Collected: 10/28/13 00:00**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
o-Xylene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Styrene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Bromoform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Isopropylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
n-Propylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Bromobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
2-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
sec-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
p-Isopropyltoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
n-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
Naphthalene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 16:32	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	105		71.2 - 143	10/31/13 07:42	10/31/13 16:32	1.00
1,2-dichloroethane-d4	103		70 - 140	10/31/13 07:42	10/31/13 16:32	1.00
Toluene-d8	96.5		74.1 - 135	10/31/13 07:42	10/31/13 16:32	1.00
4-bromofluorobenzene	95.0		68.7 - 141	10/31/13 07:42	10/31/13 16:32	1.00

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

**Lab Sample ID: 13J0200-BLK1**  
**Matrix: Water**  
**Analysis Batch: 13J0200**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13J0200\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		10/31/13 07:42	10/31/13 09:32	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	97.2		71.2 - 143	10/31/13 07:42	10/31/13 09:32	1.00
Toluene-d8	102		74.1 - 135	10/31/13 07:42	10/31/13 09:32	1.00
4-bromofluorobenzene	103		68.7 - 141	10/31/13 07:42	10/31/13 09:32	1.00

**Lab Sample ID: 13J0200-BS2**  
**Matrix: Water**  
**Analysis Batch: 13J0200**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13J0200\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	1000	1050		ug/l		105	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	97.7		71.2 - 143
Toluene-d8	99.5		74.1 - 135
4-bromofluorobenzene	106		68.7 - 141

## Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

**Lab Sample ID: 13J0200-BLK1**  
**Matrix: Water**  
**Analysis Batch: 13J0200**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13J0200\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Chloromethane	ND		3.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Vinyl chloride	ND		0.200		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Bromomethane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Chloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Dichlorofluoromethane	ND		0.100		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Carbon disulfide	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Methylene chloride	ND		10.0		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Acetone	ND		25.0		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Bromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Chloroform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)

**Lab Sample ID: 13J0200-BLK1**

**Matrix: Water**

**Analysis Batch: 13J0200**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13J0200\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
n-Hexane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Benzene	ND		0.200		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Trichloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Dibromomethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Bromodichloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Toluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Cyclohexane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Tetrachloroethene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Dibromochloromethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
2-Hexanone	ND		10.0		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Ethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Chlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
m,p-Xylene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
o-Xylene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Methylcyclohexane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Styrene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Bromoform	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Isopropylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
n-Propylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Bromobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
2-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
sec-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
p-Isopropyltoluene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
n-Butylbenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00
Naphthalene	ND		2.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)

**Lab Sample ID: 13J0200-BLK1**

**Matrix: Water**

**Analysis Batch: 13J0200**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13J0200\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/31/13 07:42	10/31/13 09:32	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	97.2		71.2 - 143	10/31/13 07:42	10/31/13 09:32	1.00
1,2-dichloroethane-d4	90.7		70 - 140	10/31/13 07:42	10/31/13 09:32	1.00
Toluene-d8	102		74.1 - 135	10/31/13 07:42	10/31/13 09:32	1.00
4-bromofluorobenzene	103		68.7 - 141	10/31/13 07:42	10/31/13 09:32	1.00

**Lab Sample ID: 13J0200-BS1**

**Matrix: Water**

**Analysis Batch: 13J0200**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13J0200\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	9.35		ug/l		93.5	60 - 140
Chloromethane	10.0	10.5		ug/l		105	60 - 140
Vinyl chloride	10.0	10.5		ug/l		105	60 - 140
Bromomethane	10.0	9.78		ug/l		97.8	60 - 140
Chloroethane	10.0	10.3		ug/l		103	60 - 140
Trichlorofluoromethane	10.0	10.4		ug/l		104	60 - 140
1,1-Dichloroethene	10.0	10.7		ug/l		107	78.1 - 155
Dichlorofluoromethane	10.0	11.0		ug/l		110	60 - 140
Carbon disulfide	10.0	9.80		ug/l		98.0	60 - 140
Methylene chloride	10.0	11.8		ug/l		118	60 - 140
Acetone	50.0	50.6		ug/l		101	60 - 140
trans-1,2-Dichloroethene	10.0	10.1		ug/l		101	60 - 140
Methyl tert-butyl ether	10.0	10.9		ug/l		109	80.1 - 128
1,1,2-Trichlorotrifluoroethane	10.0	10.6		ug/l		106	60 - 140
1,1-Dichloroethane	10.0	10.6		ug/l		106	60 - 140
cis-1,2-Dichloroethene	10.0	10.9		ug/l		109	60 - 140
2,2-Dichloropropane	10.0	10.1		ug/l		101	60 - 140
Bromochloromethane	10.0	11.0		ug/l		110	60 - 140
Chloroform	10.0	10.2		ug/l		102	60 - 140
Carbon tetrachloride	10.0	10.2		ug/l		102	60 - 140
1,1,1-Trichloroethane	10.0	10.0		ug/l		100	60 - 140
2-Butanone	50.0	59.6		ug/l		119	60 - 140
n-Hexane	10.0	10.4		ug/l		104	60 - 140
1,1-Dichloropropene	10.0	10.6		ug/l		106	60 - 140
Benzene	10.0	9.94		ug/l		99.4	80 - 122
1,2-Dichloroethane (EDC)	10.0	10.4		ug/l		104	63.9 - 144
Trichloroethene	10.0	10.2		ug/l		102	74.8 - 123
Dibromomethane	10.0	11.3		ug/l		113	60 - 140
1,2-Dichloropropane	10.0	11.0		ug/l		110	60 - 140
Bromodichloromethane	10.0	10.6		ug/l		106	60 - 140
cis-1,3-Dichloropropene	10.0	11.1		ug/l		111	60 - 140
Toluene	10.0	9.93		ug/l		99.3	80 - 123
4-Methyl-2-pentanone	50.0	58.4		ug/l		117	60 - 140
Cyclohexane	10.0	10.9		ug/l		109	60 - 140
trans-1,3-Dichloropropene	10.0	11.4		ug/l		114	60 - 140

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)

Lab Sample ID: 13J0200-BS1

Matrix: Water

Analysis Batch: 13J0200

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 13J0200\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	10.0	10.0		ug/l		100	60 - 140
1,1,2-Trichloroethane	10.0	10.8		ug/l		108	60 - 140
Dibromochloromethane	10.0	10.8		ug/l		108	60 - 140
1,3-Dichloropropane	10.0	10.9		ug/l		109	60 - 140
1,2-Dibromoethane	10.0	10.9		ug/l		109	70 - 130
2-Hexanone	50.0	47.9		ug/l		95.8	60 - 140
Ethylbenzene	10.0	10.5		ug/l		105	80 - 120
Chlorobenzene	10.0	10.4		ug/l		104	79.2 - 125
1,1,1,2-Tetrachloroethane	10.0	10.5		ug/l		105	60 - 140
m,p-Xylene	10.0	10.4		ug/l		104	80 - 120
o-Xylene	10.0	10.7		ug/l		107	80 - 120
Methylcyclohexane	10.0	10.9		ug/l		109	60 - 140
Styrene	10.0	11.3		ug/l		113	60 - 140
Bromoform	10.0	10.6		ug/l		106	60 - 140
Isopropylbenzene	10.0	11.0		ug/l		110	60 - 140
n-Propylbenzene	10.0	10.4		ug/l		104	60 - 140
1,1,2,2-Tetrachloroethane	10.0	10.8		ug/l		108	60 - 140
Bromobenzene	10.0	10.4		ug/l		104	60 - 140
1,3,5-Trimethylbenzene	10.0	10.6		ug/l		106	60 - 140
2-Chlorotoluene	10.0	11.2		ug/l		112	60 - 140
1,2,3-Trichloropropane	10.0	11.2		ug/l		112	60 - 140
trans-1,4-Dichloro-2-butene	10.0	11.1		ug/l		111	60 - 140
4-Chlorotoluene	10.0	11.0		ug/l		110	60 - 140
tert-Butylbenzene	10.0	11.4		ug/l		114	60 - 140
1,2,4-Trimethylbenzene	10.0	11.0		ug/l		110	60 - 140
sec-Butylbenzene	10.0	10.7		ug/l		107	60 - 140
p-Isopropyltoluene	10.0	11.0		ug/l		110	60 - 140
1,3-Dichlorobenzene	10.0	10.5		ug/l		105	60 - 140
1,4-Dichlorobenzene	10.0	10.4		ug/l		104	60 - 140
n-Butylbenzene	10.0	10.7		ug/l		107	60 - 140
1,2-Dichlorobenzene	10.0	10.7		ug/l		107	60 - 140
1,2-Dibromo-3-chloropropane	10.0	10.8		ug/l		108	60 - 140
1,2,4-Trichlorobenzene	10.0	10.0		ug/l		100	60 - 140
Naphthalene	10.0	9.76		ug/l		97.6	62.8 - 132
1,2,3-Trichlorobenzene	10.0	10.8		ug/l		108	60 - 140

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane	101		71.2 - 143
1,2-dichloroethane-d4	98.1		70 - 140
Toluene-d8	100		74.1 - 135
4-bromofluorobenzene	102		68.7 - 141

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

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

**Lab Sample ID: MB 280-198928/1-A**

**Matrix: Water**

**Analysis Batch: 199372**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 198928**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Acenaphthylene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Acetophenone	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Aniline	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Anthracene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Aramite, Total	ND		18		ug/L		11/01/13 18:08	11/05/13 16:16	1
Benzo[a]anthracene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Benzo[a]pyrene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Benzo[b]fluoranthene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Benzo[g,h,i]perylene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Benzo[k]fluoranthene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Benzyl alcohol	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Bis(2-chloroethyl)ether	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Bis(2-ethylhexyl) phthalate	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Butyl benzyl phthalate	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Ethyl 4,4'-Dichlorobenzilate	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Chrysene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Diallate	ND		5.6		ug/L		11/01/13 18:08	11/05/13 16:16	1
Dibenz(a,h)anthracene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Dibenzofuran	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Diethyl phthalate	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Dimethoate	ND		20		ug/L		11/01/13 18:08	11/05/13 16:16	1
Dimethyl phthalate	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Di-n-butyl phthalate	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Di-n-octyl phthalate	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Diphenylamine	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Disulfoton	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
Ethyl methanesulfonate	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Ethyl Parathion	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
Fluoranthene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Fluorene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Hexachlorobenzene	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Hexachlorobutadiene	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Hexachlorocyclopentadiene	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
Hexachloroethane	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Hexachloropropene	ND		100		ug/L		11/01/13 18:08	11/05/13 16:16	1
Indeno[1,2,3-cd]pyrene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Isodrin	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Isophorone	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Isosafrole	ND		3.5		ug/L		11/01/13 18:08	11/05/13 16:16	1
Methapyrilene	ND		150		ug/L		11/01/13 18:08	11/05/13 16:16	1
Methyl methanesulfonate	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Methyl parathion	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
Naphthalene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Nitrobenzene	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
5-Nitro-o-toluidine	ND		20		ug/L		11/01/13 18:08	11/05/13 16:16	1
N-Nitrosodiethylamine	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1

TestAmerica Spokane



# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

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

Lab Sample ID: MB 280-198928/1-A

Matrix: Water

Analysis Batch: 199372

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 198928

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
N-Nitrosodimethylamine	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
N-Nitrosodi-n-butylamine	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
N-Nitrosomethylethylamine	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
N-Nitrosomorpholine	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
N-Nitrosopiperidine	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
N-Nitrosopyrrolidine	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Pentachlorobenzene	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Pentachloroethane	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
Pentachloronitrobenzene	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
Pentachlorophenol	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
Phenacetin	ND		20		ug/L		11/01/13 18:08	11/05/13 16:16	1
Phenol	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Phenanthrene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
Phorate	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
Pronamide	ND		20		ug/L		11/01/13 18:08	11/05/13 16:16	1
Pyrene	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
Pyridine	ND		20		ug/L		11/01/13 18:08	11/05/13 16:16	1
Thionazin	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
1,2,4,5-Tetrachlorobenzene	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
1,2,4-Trichlorobenzene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
1,2-Dichlorobenzene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
1,3,5-Trinitrobenzene	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
1,3-Dichlorobenzene	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
1,4-Dichlorobenzene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
1-Naphthylamine	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
1,4-Naphthoquinone	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
1,3-Dinitrobenzene	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
2,3,4,6-Tetrachlorophenol	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
2,4,5-Trichlorophenol	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
2,4,6-Trichlorophenol	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
2,4-Dichlorophenol	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
2,4-Dimethylphenol	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
2,4-Dinitrophenol	ND		30		ug/L		11/01/13 18:08	11/05/13 16:16	1
2,4-Dinitrotoluene	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
2,6-Dinitrotoluene	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
2-Acetylaminofluorene	ND		100		ug/L		11/01/13 18:08	11/05/13 16:16	1
2-Chloronaphthalene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
2-Chlorophenol	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
2-Picoline	ND		20		ug/L		11/01/13 18:08	11/05/13 16:16	1
2-Toluidine	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
3 & 4 Methylphenol	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
3,3'-Dichlorobenzidine	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
3,3'-Dimethylbenzidine	ND		20		ug/L		11/01/13 18:08	11/05/13 16:16	1
3-Methylcholanthrene	ND		20		ug/L		11/01/13 18:08	11/05/13 16:16	1
3-Nitroaniline	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

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

**Lab Sample ID: MB 280-198928/1-A**

**Matrix: Water**

**Analysis Batch: 199372**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 198928**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
2-Methylphenol	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
2-Naphthylamine	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
2-Nitroaniline	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
2-Nitrophenol	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
4-Aminobiphenyl	ND		50		ug/L		11/01/13 18:08	11/05/13 16:16	1
4-Bromophenyl phenyl ether	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
4-Chloro-3-methylphenol	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
4-Chloroaniline	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
4-Nitroaniline	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
4-Nitrophenol	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1
4-Nitroquinoline-1-oxide	ND		100		ug/L		11/01/13 18:08	11/05/13 16:16	1
2-Methylnaphthalene	ND		4.0		ug/L		11/01/13 18:08	11/05/13 16:16	1
7,12-Dimethylbenz(a)anthracene	ND		20		ug/L		11/01/13 18:08	11/05/13 16:16	1
2,6-Dichlorophenol	ND		10		ug/L		11/01/13 18:08	11/05/13 16:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	84		10 - 120	11/01/13 18:08	11/05/13 16:16	1
Phenol-d5	86		10 - 120	11/01/13 18:08	11/05/13 16:16	1
Nitrobenzene-d5	85		27 - 120	11/01/13 18:08	11/05/13 16:16	1
2-Fluorobiphenyl	79		29 - 120	11/01/13 18:08	11/05/13 16:16	1
2,4,6-Tribromophenol	80		10 - 120	11/01/13 18:08	11/05/13 16:16	1
Terphenyl-d14	91		13 - 120	11/01/13 18:08	11/05/13 16:16	1

**Lab Sample ID: LCS 280-198928/2-A**

**Matrix: Water**

**Analysis Batch: 199372**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 198928**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	80.0	60.6		ug/L		76	51 - 120
Acenaphthylene	80.0	58.9		ug/L		74	52 - 120
Aniline	80.0	45.3		ug/L		57	10 - 120
Anthracene	80.0	63.1		ug/L		79	51 - 120
Benzo[a]anthracene	80.0	65.0		ug/L		81	48 - 120
Benzo[a]pyrene	80.0	63.1		ug/L		79	46 - 120
Benzo[b]fluoranthene	80.0	64.8		ug/L		81	46 - 120
Benzo[g,h,i]perylene	80.0	74.3		ug/L		93	41 - 120
Benzo[k]fluoranthene	80.0	64.6		ug/L		81	49 - 120
Benzyl alcohol	80.0	57.6		ug/L		72	71 - 120
Bis(2-chloroethoxy)methane	80.0	59.4		ug/L		74	69 - 120
Bis(2-chloroethyl)ether	80.0	58.0		ug/L		73	66 - 120
Bis(2-ethylhexyl) phthalate	80.0	63.5		ug/L		79	50 - 133
Butyl benzyl phthalate	80.0	62.2		ug/L		78	50 - 120
Chrysene	80.0	65.1		ug/L		81	48 - 120
Dibenz(a,h)anthracene	80.0	73.6		ug/L		92	39 - 120
Diethyl phthalate	80.0	64.6		ug/L		81	68 - 120
Dimethyl phthalate	80.0	65.9		ug/L		82	73 - 120

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

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

**Lab Sample ID: LCS 280-198928/2-A**

**Matrix: Water**

**Analysis Batch: 199372**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 198928**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-butyl phthalate	80.0	63.1		ug/L		79	50 - 120
Di-n-octyl phthalate	80.0	65.9		ug/L		82	40 - 120
Fluoranthene	80.0	64.1		ug/L		80	49 - 120
Fluorene	80.0	63.1		ug/L		79	56 - 120
Hexachlorobenzene	80.0	65.4		ug/L		82	51 - 120
Hexachlorobutadiene	80.0	37.9		ug/L		47	19 - 120
Hexachlorocyclopentadiene	80.0	ND		ug/L		20	10 - 120
Hexachloroethane	80.0	32.4		ug/L		41	17 - 120
Indeno[1,2,3-cd]pyrene	80.0	71.0		ug/L		89	32 - 120
Isophorone	80.0	55.8		ug/L		70	69 - 120
Naphthalene	80.0	49.5		ug/L		62	35 - 120
Nitrobenzene	80.0	61.4		ug/L		77	68 - 120
N-Nitrosodimethylamine	80.0	56.5		ug/L		71	60 - 120
N-Nitrosodi-n-propylamine	80.0	58.1		ug/L		73	50 - 120
n-Nitrosodiphenylamine(as diphenylamine)	80.0	65.9		ug/L		82	42 - 120
Pentachlorophenol	160	122		ug/L		76	40 - 120
Phenol	80.0	58.4		ug/L		73	62 - 120
Phenanthrene	80.0	64.8		ug/L		81	52 - 120
Pyrene	80.0	65.7		ug/L		82	50 - 120
Pyridine	80.0	47.8		ug/L		60	10 - 120
1,2,4-Trichlorobenzene	80.0	43.6		ug/L		54	25 - 120
1,2-Dichlorobenzene	80.0	37.7		ug/L		47	27 - 120
1,3-Dichlorobenzene	80.0	35.5		ug/L		44	23 - 120
1,4-Dichlorobenzene	80.0	36.2		ug/L		45	26 - 120
2,4,5-Trichlorophenol	80.0	64.1		ug/L		80	54 - 120
2,4,6-Trichlorophenol	80.0	66.1		ug/L		83	54 - 120
2,4-Dichlorophenol	80.0	60.9		ug/L		76	53 - 120
2,4-Dimethylphenol	80.0	45.3		ug/L		57	40 - 120
2,4-Dinitrophenol	160	126		ug/L		79	38 - 120
2,4-Dinitrotoluene	80.0	67.0		ug/L		84	72 - 120
2,6-Dinitrotoluene	80.0	66.6		ug/L		83	75 - 120
2-Chloronaphthalene	80.0	57.8		ug/L		72	41 - 120
2-Chlorophenol	80.0	58.1		ug/L		73	53 - 120
3 & 4 Methylphenol	80.0	58.7		ug/L		73	60 - 120
3,3'-Dichlorobenzidine	80.0	52.6		ug/L		66	10 - 120
3-Nitroaniline	80.0	58.4		ug/L		73	44 - 120
4,6-Dinitro-2-methylphenol	160	141		ug/L		88	46 - 126
2-Methylphenol	80.0	56.6		ug/L		71	55 - 120
2-Nitroaniline	80.0	67.3		ug/L		84	73 - 120
2-Nitrophenol	80.0	59.6		ug/L		74	50 - 120
4-Bromophenyl phenyl ether	80.0	63.8		ug/L		80	52 - 120
4-Chloro-3-methylphenol	80.0	61.7		ug/L		77	65 - 120
4-Chloroaniline	80.0	54.3		ug/L		68	38 - 120
4-Chlorophenyl phenyl ether	80.0	62.4		ug/L		78	53 - 120
4-Nitroaniline	80.0	64.1		ug/L		80	51 - 120
4-Nitrophenol	160	135		ug/L		85	57 - 120
2-Methylnaphthalene	80.0	53.5		ug/L		67	34 - 120

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

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

**Lab Sample ID: LCS 280-198928/2-A**

**Matrix: Water**

**Analysis Batch: 199372**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 198928**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorophenol	73		10 - 120
Phenol-d5	76		10 - 120
Nitrobenzene-d5	77		27 - 120
2-Fluorobiphenyl	75		29 - 120
2,4,6-Tribromophenol	85		10 - 120
Terphenyl-d14	86		13 - 120

**Lab Sample ID: LCSD 280-198928/3-A**

**Matrix: Water**

**Analysis Batch: 199372**

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

**Prep Type: Total/NA**

**Prep Batch: 198928**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
Acenaphthene	80.0	59.3		ug/L		74	51 - 120	2	30	
Acenaphthylene	80.0	57.3		ug/L		72	52 - 120	3	30	
Aniline	80.0	48.1		ug/L		60	10 - 120	6	30	
Anthracene	80.0	58.6		ug/L		73	51 - 120	7	30	
Benzo[a]anthracene	80.0	61.3		ug/L		77	48 - 120	6	30	
Benzo[a]pyrene	80.0	58.0		ug/L		72	46 - 120	8	30	
Benzo[b]fluoranthene	80.0	58.6		ug/L		73	46 - 120	10	38	
Benzo[g,h,i]perylene	80.0	68.5		ug/L		86	41 - 120	8	30	
Benzo[k]fluoranthene	80.0	58.3		ug/L		73	49 - 120	10	37	
Benzyl alcohol	80.0	59.8		ug/L		75	71 - 120	4	30	
Bis(2-chloroethoxy)methane	80.0	59.6		ug/L		75	69 - 120	0	30	
Bis(2-chloroethyl)ether	80.0	61.1		ug/L		76	66 - 120	5	34	
Bis(2-ethylhexyl) phthalate	80.0	61.3		ug/L		77	50 - 133	4	30	
Butyl benzyl phthalate	80.0	59.3		ug/L		74	50 - 120	5	30	
Chrysene	80.0	61.2		ug/L		76	48 - 120	6	30	
Dibenz(a,h)anthracene	80.0	68.2		ug/L		85	39 - 120	8	30	
Diethyl phthalate	80.0	62.2		ug/L		78	68 - 120	4	30	
Dimethyl phthalate	80.0	63.6		ug/L		80	73 - 120	3	30	
Di-n-butyl phthalate	80.0	59.3		ug/L		74	50 - 120	6	30	
Di-n-octyl phthalate	80.0	65.4		ug/L		82	40 - 120	1	30	
Fluoranthene	80.0	60.0		ug/L		75	49 - 120	7	34	
Fluorene	80.0	59.7		ug/L		75	56 - 120	5	30	
Hexachlorobenzene	80.0	61.2		ug/L		77	51 - 120	7	30	
Hexachlorobutadiene	80.0	37.2		ug/L		46	19 - 120	2	47	
Hexachlorocyclopentadiene	80.0	ND		ug/L		21	10 - 120	7	72	
Hexachloroethane	80.0	33.7		ug/L		42	17 - 120	4	57	
Indeno[1,2,3-cd]pyrene	80.0	68.0		ug/L		85	32 - 120	4	30	
Isophorone	80.0	56.1		ug/L		70	69 - 120	1	30	
Naphthalene	80.0	49.2		ug/L		62	35 - 120	0	34	
Nitrobenzene	80.0	61.4		ug/L		77	68 - 120	0	30	
N-Nitrosodimethylamine	80.0	59.1		ug/L		74	60 - 120	4	43	
N-Nitrosodi-n-propylamine	80.0	59.7		ug/L		75	50 - 120	3	30	
n-Nitrosodiphenylamine(as diphenylamine)	80.0	61.9		ug/L		77	42 - 120	6	37	
Pentachlorophenol	160	112		ug/L		70	40 - 120	8	33	
Phenol	80.0	60.8		ug/L		76	62 - 120	4	42	

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

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

**Lab Sample ID: LCSD 280-198928/3-A**

**Matrix: Water**

**Analysis Batch: 199372**

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

**Prep Type: Total/NA**

**Prep Batch: 198928**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Phenanthrene	80.0	61.0		ug/L		76	52 - 120	6	30	
Pyrene	80.0	62.1		ug/L		78	50 - 120	6	30	
Pyridine	80.0	51.8		ug/L		65	10 - 120	8	38	
1,2,4-Trichlorobenzene	80.0	43.3		ug/L		54	25 - 120	1	42	
1,2-Dichlorobenzene	80.0	39.5		ug/L		49	27 - 120	5	49	
1,3-Dichlorobenzene	80.0	36.8		ug/L		46	23 - 120	4	52	
1,4-Dichlorobenzene	80.0	37.9		ug/L		47	26 - 120	5	52	
2,4,5-Trichlorophenol	80.0	63.7		ug/L		80	54 - 120	1	30	
2,4,6-Trichlorophenol	80.0	66.1		ug/L		83	54 - 120	0	30	
2,4-Dichlorophenol	80.0	62.8		ug/L		79	53 - 120	3	30	
2,4-Dimethylphenol	80.0	48.1		ug/L		60	40 - 120	6	30	
2,4-Dinitrophenol	160	125		ug/L		78	38 - 120	0	49	
2,4-Dinitrotoluene	80.0	64.5		ug/L		81	72 - 120	4	32	
2,6-Dinitrotoluene	80.0	64.2		ug/L		80	75 - 120	4	30	
2-Chloronaphthalene	80.0	56.3		ug/L		70	41 - 120	3	30	
2-Chlorophenol	80.0	60.8		ug/L		76	53 - 120	5	30	
3 & 4 Methylphenol	80.0	60.1		ug/L		75	60 - 120	2	30	
3,3'-Dichlorobenzidene	80.0	ND		ug/L		61	10 - 120	7	30	
3-Nitroaniline	80.0	55.8		ug/L		70	44 - 120	5	35	
4,6-Dinitro-2-methylphenol	160	135		ug/L		84	46 - 126	4	37	
2-Methylphenol	80.0	58.7		ug/L		73	55 - 120	4	30	
2-Nitroaniline	80.0	65.5		ug/L		82	73 - 120	3	30	
2-Nitrophenol	80.0	61.4		ug/L		77	50 - 120	3	30	
4-Bromophenyl phenyl ether	80.0	60.6		ug/L		76	52 - 120	5	31	
4-Chloro-3-methylphenol	80.0	61.5		ug/L		77	65 - 120	0	30	
4-Chloroaniline	80.0	53.7		ug/L		67	38 - 120	1	54	
4-Chlorophenyl phenyl ether	80.0	59.3		ug/L		74	53 - 120	5	30	
4-Nitroaniline	80.0	62.7		ug/L		78	51 - 120	2	34	
4-Nitrophenol	160	131		ug/L		82	57 - 120	3	35	
2-Methylnaphthalene	80.0	52.6		ug/L		66	34 - 120	2	32	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol	76		10 - 120
Phenol-d5	78		10 - 120
Nitrobenzene-d5	79		27 - 120
2-Fluorobiphenyl	76		29 - 120
2,4,6-Tribromophenol	83		10 - 120
Terphenyl-d14	83		13 - 120

## Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

**Lab Sample ID: 13J0204-BLK1**

**Matrix: Water**

**Analysis Batch: 13J0204**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13J0204\_P**

Analyte	Blank Blank		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Hydrocarbons	ND	QSG	0.250		mg/l		11/01/13 13:30	11/04/13 23:48	1.00
Heavy Oil Range Hydrocarbons	ND	QSG	0.400		mg/l		11/01/13 13:30	11/04/13 23:48	1.00

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup

(Continued)

**Lab Sample ID: 13J0204-BLK1**

**Matrix: Water**

**Analysis Batch: 13J0204**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13J0204\_P**

Surrogate	Blank		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-FBP	78.5	QSG	50 - 150	11/01/13 13:30	11/04/13 23:48	1.00
n-Triacontane-d62	97.3	QSG	50 - 150	11/01/13 13:30	11/04/13 23:48	1.00

**Lab Sample ID: 13J0204-BS1**

**Matrix: Water**

**Analysis Batch: 13J0204**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13J0204\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2-FBP	91.9	QSG	50 - 150
n-Triacontane-d62	101	QSG	50 - 150

## Method: RSK-175 - Dissolved Gases (GC)

**Lab Sample ID: MB 490-118779/35**

**Matrix: Water**

**Analysis Batch: 118779**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methane	ND		0.00500		mg/L			11/01/13 14:13	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Acetylene (Surr)	93		62 - 124		11/01/13 14:13	1

**Lab Sample ID: LCS 490-118779/36**

**Matrix: Water**

**Analysis Batch: 118779**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Acetylene (Surr)	87		62 - 124

**Lab Sample ID: LCSD 490-118779/37**

**Matrix: Water**

**Analysis Batch: 118779**

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

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Acetylene (Surr)	84		62 - 124

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 490-38552-E-3 MS

Matrix: Water

Analysis Batch: 118779

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
Methane	ND		0.273	0.2235		mg/L		82	46 - 142
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
Acetylene (Surr)	76		62 - 124						

Lab Sample ID: 490-38552-E-3 MSD

Matrix: Water

Analysis Batch: 118779

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
Methane	ND		0.273	0.2243		mg/L		82	46 - 142	0	30
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
Acetylene (Surr)	74		62 - 124								

Lab Sample ID: MB 490-119201/35

Matrix: Water

Analysis Batch: 119201

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		0.00500		mg/L			11/04/13 13:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Acetylene (Surr)	87		62 - 124					11/04/13 13:39	1

Lab Sample ID: LCS 490-119201/36

Matrix: Water

Analysis Batch: 119201

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	0.273	0.2729		mg/L		100	80 - 120
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
Acetylene (Surr)	88		62 - 124				

Lab Sample ID: LCSD 490-119201/37

Matrix: Water

Analysis Batch: 119201

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
Methane	0.273	0.2751		mg/L		101	80 - 120	1	33
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
Acetylene (Surr)	88		62 - 124						

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: 490-38641-E-1 MS

Matrix: Water

Analysis Batch: 119201

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
Methane	ND		0.273	0.2453		mg/L		90	46 - 142
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
Acetylene (Surr)	84		62 - 124						

Lab Sample ID: 490-38641-E-1 MSD

Matrix: Water

Analysis Batch: 119201

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
Methane	ND		0.273	0.2407		mg/L		88	46 - 142	2	30
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
Acetylene (Surr)	79		62 - 124								

## Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 250-21636/1-A

Matrix: Water

Analysis Batch: 21673

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:24	1
Barium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:24	1
Silver	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:24	1
Arsenic	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:24	1
Lead	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:24	1
Selenium	ND		1.0		ug/L		10/30/13 17:21	10/31/13 13:24	1
Chromium	ND		2.0		ug/L		10/30/13 17:21	10/31/13 13:24	1

Lab Sample ID: LCS 250-21636/2-A

Matrix: Water

Analysis Batch: 21673

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	100	93.1		ug/L		93	85 - 115
Barium	100	90.6		ug/L		91	85 - 115
Silver	50.0	46.7		ug/L		93	85 - 115
Arsenic	100	90.7		ug/L		91	85 - 115
Lead	100	98.0		ug/L		98	85 - 115
Selenium	100	92.4		ug/L		92	85 - 115
Chromium	100	93.5		ug/L		93	85 - 115

TestAmerica Spokane



# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Method: 200.8 - Metals (ICP/MS) (Continued)

**Lab Sample ID: 250-15134-2 MS**  
**Matrix: Water**  
**Analysis Batch: 21673**

**Client Sample ID: SWJ0194-02**  
**Prep Type: Total/NA**  
**Prep Batch: 21636**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Cadmium	ND		100	94.0		ug/L		94	70 - 130
Barium	130		100	214		ug/L		89	70 - 130
Silver	ND		50.0	46.7		ug/L		93	70 - 130
Arsenic	6.0		100	98.2		ug/L		92	70 - 130
Lead	ND		100	95.2		ug/L		95	70 - 130
Selenium	ND		100	89.1		ug/L		89	70 - 130
Chromium	ND		100	95.7		ug/L		94	70 - 130

**Lab Sample ID: 250-15134-1 DU**  
**Matrix: Water**  
**Analysis Batch: 21673**

**Client Sample ID: SWJ0194-01**  
**Prep Type: Total/NA**  
**Prep Batch: 21636**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cadmium	ND		ND		ug/L		NC	20
Barium	130		133		ug/L		1	20
Silver	ND		ND		ug/L		NC	20
Arsenic	17		18.8		ug/L		10	20
Lead	ND		ND		ug/L		NC	20
Selenium	ND		ND		ug/L		NC	20
Chromium	ND		ND		ug/L		NC	20

**Lab Sample ID: LCS 250-21685/2-A**  
**Matrix: Water**  
**Analysis Batch: 21742**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 21685**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium	100	88.1		ug/L		88	85 - 115
Barium	100	91.1		ug/L		91	85 - 115
Silver	50.0	45.2		ug/L		90	85 - 115
Arsenic	100	92.2		ug/L		92	85 - 115
Lead	100	91.4		ug/L		91	85 - 115
Selenium	100	90.9		ug/L		91	85 - 115
Manganese	100	95.0		ug/L		95	85 - 115
Chromium	100	95.1		ug/L		95	85 - 115

**Lab Sample ID: MB 250-21640/1-B**  
**Matrix: Water**  
**Analysis Batch: 21742**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 21685**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:38	1
Barium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:38	1
Silver	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:38	1
Arsenic	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:38	1
Lead	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:38	1
Selenium	ND		1.0		ug/L		11/01/13 10:18	11/01/13 19:38	1
Manganese	ND		2.0		ug/L		11/01/13 10:18	11/01/13 19:38	1
Chromium	ND		2.0		ug/L		11/01/13 10:18	11/01/13 19:38	1

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Method: 200.8 - Metals (ICP/MS) (Continued)

**Lab Sample ID: 250-15134-2 MS**  
**Matrix: Water**  
**Analysis Batch: 21742**

**Client Sample ID: SWJ0194-02**  
**Prep Type: Dissolved**  
**Prep Batch: 21685**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Cadmium	ND		100	87.7		ug/L		88	70 - 130
Barium	110		100	200		ug/L		87	70 - 130
Silver	ND		50.0	44.0		ug/L		88	70 - 130
Arsenic	5.0		100	96.2		ug/L		91	70 - 130
Lead	ND		100	88.3		ug/L		88	70 - 130
Selenium	ND		100	87.6		ug/L		88	70 - 130
Manganese	380		100	464		ug/L		82	70 - 130
Chromium	ND		100	94.3		ug/L		94	70 - 130

**Lab Sample ID: 250-15134-1 DU**  
**Matrix: Water**  
**Analysis Batch: 21742**

**Client Sample ID: SWJ0194-01**  
**Prep Type: Dissolved**  
**Prep Batch: 21685**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier		Result					
Cadmium	ND		ND		ug/L		NC		20
Barium	130		128		ug/L		0.4		20
Silver	ND		ND		ug/L		NC		20
Arsenic	14		13.8		ug/L		2		20
Lead	ND		ND		ug/L		NC		20
Selenium	ND		ND		ug/L		NC		20
Manganese	300		296		ug/L		0.4		20
Chromium	ND		ND		ug/L		NC		20

## Method: 245.1 - Mercury (CVAA)

**Lab Sample ID: MB 250-21728/11-A**  
**Matrix: Water**  
**Analysis Batch: 21775**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 21728**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND	^	0.20		ug/L		11/01/13 17:08	11/04/13 15:41	1

**Lab Sample ID: LCS 250-21728/12-A**  
**Matrix: Water**  
**Analysis Batch: 21775**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 21728**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Added	Result				
Mercury	5.00	5.07	^	ug/L		101	85 - 115

**Lab Sample ID: 250-15134-1 MS**  
**Matrix: Water**  
**Analysis Batch: 21775**

**Client Sample ID: SWJ0194-01**  
**Prep Type: Total/NA**  
**Prep Batch: 21728**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Mercury	ND	^	5.00	5.15	^	ug/L		103	75 - 125

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Method: 245.1 - Mercury (CVAA) (Continued)

**Lab Sample ID: 250-15134-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 21775**

**Client Sample ID: SWJ0194-01**  
**Prep Type: Total/NA**  
**Prep Batch: 21728**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	ND	^	5.00	5.06	^	ug/L		101	75 - 125	2	20

**Lab Sample ID: LCS 250-21729/2-A**  
**Matrix: Water**  
**Analysis Batch: 21775**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 21729**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.06	^	ug/L		101	85 - 115

**Lab Sample ID: MB 250-21640/1-C**  
**Matrix: Water**  
**Analysis Batch: 21775**

**Client Sample ID: Method Blank**  
**Prep Type: Dissolved**  
**Prep Batch: 21729**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^	0.20		ug/L		11/01/13 17:14	11/04/13 16:21	1

**Lab Sample ID: 250-15134-4 MS**  
**Matrix: Water**  
**Analysis Batch: 21775**

**Client Sample ID: SWJ0194-04**  
**Prep Type: Dissolved**  
**Prep Batch: 21729**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND	^	5.00	4.95	^	ug/L		99	75 - 125

**Lab Sample ID: 250-15134-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 21775**

**Client Sample ID: SWJ0194-04**  
**Prep Type: Dissolved**  
**Prep Batch: 21729**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	ND	^	5.00	4.99	^	ug/L		100	75 - 125	1	20

## Method: EPA 300.0 - Anions by EPA Method 300.0

**Lab Sample ID: 13J0192-BLK1**  
**Matrix: Water**  
**Analysis Batch: 13J0192**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13J0192\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		200		ug/l		10/30/13 07:35	10/30/13 13:05	1.00
Sulfate	ND		500		ug/l		10/30/13 07:35	10/30/13 13:05	1.00

**Lab Sample ID: 13J0192-BS1**  
**Matrix: Water**  
**Analysis Batch: 13J0192**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13J0192\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5000	4860		ug/l		97.2	90 - 110
Sulfate	12500	12100		ug/l		96.6	90 - 110

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Method: EPA 300.0 - Anions by EPA Method 300.0 (Continued)

**Lab Sample ID: 13J0192-MS1**

**Matrix: Water**

**Analysis Batch: 13J0192**

**Client Sample ID: MW-4-102813**

**Prep Type: Total**

**Prep Batch: 13J0192\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
Nitrate-Nitrogen	110		5000	5590		ug/l		110	80 - 120
Sulfate	8450		12500	21600		ug/l		105	80 - 120

**Lab Sample ID: 13J0192-MSD1**

**Matrix: Water**

**Analysis Batch: 13J0192**

**Client Sample ID: MW-4-102813**

**Prep Type: Total**

**Prep Batch: 13J0192\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Nitrate-Nitrogen	110		5000	5640		ug/l		111	80 - 120	0.979	12.1
Sulfate	8450		12500	21600		ug/l		105	80 - 120	0.051	10
										0	

**Lab Sample ID: 13J0192-DUP1**

**Matrix: Water**

**Analysis Batch: 13J0192**

**Client Sample ID: MW-4-102813**

**Prep Type: Total**

**Prep Batch: 13J0192\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Nitrate-Nitrogen	110		150	R4	ug/l		30.8	13.1
Sulfate	8450		8420		ug/l		0.356	15.7

## Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods

**Lab Sample ID: 13K0016-BLK1**

**Matrix: Water**

**Analysis Batch: 13K0016**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13K0016\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		4000		ug/l		11/05/13 11:47	11/05/13 14:27	1.00

**Lab Sample ID: 13K0016-BS1**

**Matrix: Water**

**Analysis Batch: 13K0016**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13K0016\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Alkalinity	500000	475000		ug/l		95.0	90 - 110

**Lab Sample ID: 13K0016-DUP1**

**Matrix: Water**

**Analysis Batch: 13K0016**

**Client Sample ID: MW-1-102813**

**Prep Type: Total**

**Prep Batch: 13K0016\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Total Alkalinity	340000		340000		ug/l		0.00	10

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
 Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-1-102813**

**Lab Sample ID: SWJ0194-01**

**Date Collected: 10/28/13 17:48**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	13J0200_P	10/31/13 07:42	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13J0200	10/31/13 12:38	CBW	TAL SPK
Total/NA	Prep	3520C			198928	11/01/13 18:08	JJW	TAL DEN
Total/NA	Analysis	8270C		1	199372	11/05/13 17:36	DCK	TAL DEN
Total	Prep	EPA 3510/600 Series		0.955	13J0204_P	11/01/13 13:30	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13J0204	11/05/13 00:31	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	118779	11/01/13 15:14	MGH	TAL NSH
Total/NA	Prep	200.8			21636	10/30/13 17:21	KTN	TAL PRT
Total/NA	Analysis	200.8		1	21673	10/31/13 13:31	AJH	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	200.8			21685	11/01/13 10:18	TNL	TAL PRT
Dissolved	Analysis	200.8		1	21742	11/01/13 19:44	TNL	TAL PRT
Total/NA	Prep	245.1			21728	11/01/13 17:08	LQN	TAL PRT
Total/NA	Analysis	245.1		1	21775	11/04/13 15:48	LQN	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	245.1			21729	11/01/13 17:14	LQN	TAL PRT
Dissolved	Analysis	245.1		1	21775	11/04/13 16:27	LQN	TAL PRT
Total	Prep	Wet Chem		1.00	13K0016_P	11/05/13 11:47	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13K0016	11/05/13 14:27	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13J0192_P	10/30/13 07:35	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13J0192	10/30/13 08:30	CBW	TAL SPK

**Client Sample ID: MW-2-102813**

**Lab Sample ID: SWJ0194-02**

**Date Collected: 10/28/13 17:00**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	13J0200_P	10/31/13 07:42	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13J0200	10/31/13 13:02	CBW	TAL SPK
Total/NA	Prep	3520C			198928	11/01/13 18:08	JJW	TAL DEN
Total/NA	Analysis	8270C		1	199372	11/05/13 18:03	DCK	TAL DEN
Total	Prep	EPA 3510/600 Series		0.956	13J0204_P	11/01/13 13:30	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13J0204	11/05/13 00:53	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	118779	11/01/13 15:16	MGH	TAL NSH
Total/NA	Prep	200.8			21636	10/30/13 17:21	KTN	TAL PRT
Total/NA	Analysis	200.8		1	21673	10/31/13 13:38	AJH	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	200.8			21685	11/01/13 10:18	TNL	TAL PRT
Dissolved	Analysis	200.8		1	21742	11/01/13 19:51	TNL	TAL PRT
Total/NA	Prep	245.1			21728	11/01/13 17:08	LQN	TAL PRT
Total/NA	Analysis	245.1		1	21775	11/04/13 15:56	LQN	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	245.1			21729	11/01/13 17:14	LQN	TAL PRT

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Client Sample ID: MW-2-102813

## Lab Sample ID: SWJ0194-02

Date Collected: 10/28/13 17:00

Matrix: Water

Date Received: 10/29/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	245.1		1	21775	11/04/13 16:29	LQN	TAL PRT
Total	Prep	Wet Chem		1.00	13K0016_P	11/05/13 11:47	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13K0016	11/05/13 14:27	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13J0192_P	10/30/13 07:35	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13J0192	10/30/13 08:50	CBW	TAL SPK

## Client Sample ID: MW-3-102813

## Lab Sample ID: SWJ0194-03

Date Collected: 10/28/13 16:14

Matrix: Water

Date Received: 10/29/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	13J0200_P	10/31/13 07:42	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13J0200	10/31/13 13:25	CBW	TAL SPK
Total/NA	Prep	3520C			198928	11/01/13 18:08	JJW	TAL DEN
Total/NA	Analysis	8270C		1	199372	11/05/13 18:30	DCK	TAL DEN
Total	Prep	EPA 3510/600 Series		0.961	13J0204_P	11/01/13 13:30	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13J0204	11/05/13 01:15	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	118779	11/01/13 15:18	MGH	TAL NSH
Total/NA	Analysis	RSK-175		20	118779	11/01/13 15:20	MGH	TAL NSH
Total/NA	Prep	200.8			21636	10/30/13 17:21	KTN	TAL PRT
Total/NA	Analysis	200.8		1	21673	10/31/13 13:44	AJH	TAL PRT
Dissolved	Analysis	200.8		1	21742	11/01/13 19:58	TNL	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	200.8			21685	11/01/13 10:18	TNL	TAL PRT
Dissolved	Analysis	200.8		10	21765	11/04/13 11:44	TNL	TAL PRT
Total/NA	Prep	245.1			21728	11/01/13 17:08	LQN	TAL PRT
Total/NA	Analysis	245.1		1	21775	11/04/13 15:58	LQN	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	245.1			21729	11/01/13 17:14	LQN	TAL PRT
Dissolved	Analysis	245.1		1	21775	11/04/13 16:32	LQN	TAL PRT
Total	Prep	Wet Chem		1.00	13K0016_P	11/05/13 11:47	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13K0016	11/05/13 14:27	JSP	TAL SPK
Total	Analysis	EPA 300.0		1.00	13J0192	10/30/13 09:10	CBW	TAL SPK
Total	Prep	Wet Chem		1.00	13J0192_P	10/30/13 07:35	CBW	TAL SPK

## Client Sample ID: MW-4-102813

## Lab Sample ID: SWJ0194-04

Date Collected: 10/28/13 15:13

Matrix: Water

Date Received: 10/29/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	13J0200_P	10/31/13 07:42	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13J0200	10/31/13 13:48	CBW	TAL SPK
Total/NA	Prep	3520C			198928	11/01/13 18:08	JJW	TAL DEN

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-4-102813**

**Lab Sample ID: SWJ0194-04**

**Date Collected: 10/28/13 15:13**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C		1	199372	11/05/13 18:56	DCK	TAL DEN
Total	Prep	EPA 3510/600 Series		0.951	13J0204_P	11/01/13 13:30	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13J0204	11/05/13 01:37	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	119201	11/04/13 14:46	MGH	TAL NSH
Total/NA	Prep	200.8			21636	10/30/13 17:21	KTN	TAL PRT
Total/NA	Analysis	200.8		1	21673	10/31/13 13:48	AJH	TAL PRT
Dissolved	Analysis	200.8		1	21742	11/01/13 20:01	TNL	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	200.8			21685	11/01/13 10:18	TNL	TAL PRT
Dissolved	Analysis	200.8		5	21765	11/04/13 11:47	TNL	TAL PRT
Total/NA	Prep	245.1			21728	11/01/13 17:08	LQN	TAL PRT
Total/NA	Analysis	245.1		1	21775	11/04/13 16:01	LQN	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	245.1			21729	11/01/13 17:14	LQN	TAL PRT
Dissolved	Analysis	245.1		1	21775	11/04/13 16:34	LQN	TAL PRT
Total	Prep	Wet Chem		1.00	13K0016_P	11/05/13 11:47	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13K0016	11/05/13 14:27	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13J0192_P	10/30/13 07:35	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13J0192	10/30/13 09:29	CBW	TAL SPK

**Client Sample ID: MW-5-102813**

**Lab Sample ID: SWJ0194-05**

**Date Collected: 10/28/13 14:15**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	EPA 8260C		1.00	13J0200	10/31/13 14:12	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	13J0200_P	10/31/13 07:42	CBW	TAL SPK
Total/NA	Prep	3520C			198928	11/01/13 18:08	JJW	TAL DEN
Total/NA	Analysis	8270C		1	199372	11/05/13 19:23	DCK	TAL DEN
Total	Prep	EPA 3510/600 Series		0.949	13J0204_P	11/01/13 13:30	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13J0204	11/05/13 01:58	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	119201	11/04/13 15:04	MGH	TAL NSH
Total/NA	Prep	200.8			21636	10/30/13 17:21	KTN	TAL PRT
Total/NA	Analysis	200.8		1	21673	10/31/13 13:51	AJH	TAL PRT
Dissolved	Prep	200.8			21685	11/01/13 10:18	TNL	TAL PRT
Dissolved	Analysis	200.8		1	21742	11/01/13 20:04	TNL	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Analysis	200.8		5	21765	11/04/13 11:50	TNL	TAL PRT
Total/NA	Prep	245.1			21728	11/01/13 17:08	LQN	TAL PRT
Total/NA	Analysis	245.1		1	21775	11/04/13 16:03	LQN	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	245.1			21729	11/01/13 17:14	LQN	TAL PRT
Dissolved	Analysis	245.1		1	21775	11/04/13 16:47	LQN	TAL PRT

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-5-102813**

**Lab Sample ID: SWJ0194-05**

**Date Collected: 10/28/13 14:15**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13K0016_P	11/05/13 11:47	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13K0016	11/05/13 14:27	JSP	TAL SPK
Total	Analysis	EPA 300.0		1.00	13J0192	10/30/13 09:49	CBW	TAL SPK
Total	Prep	Wet Chem		1.00	13J0192_P	10/30/13 07:35	CBW	TAL SPK

**Client Sample ID: MW-6-102813**

**Lab Sample ID: SWJ0194-06**

**Date Collected: 10/28/13 13:24**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	13J0200_P	10/31/13 07:42	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13J0200	10/31/13 14:35	CBW	TAL SPK
Total/NA	Prep	3520C			198928	11/01/13 18:08	JJW	TAL DEN
Total/NA	Analysis	8270C		1	199372	11/05/13 19:50	DCK	TAL DEN
Total	Prep	EPA 3510/600 Series		0.955	13J0204_P	11/01/13 13:30	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13J0204	11/05/13 03:03	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	119201	11/04/13 15:06	MGH	TAL NSH
Total/NA	Prep	200.8			21636	10/30/13 17:21	KTN	TAL PRT
Total/NA	Analysis	200.8		1	21673	10/31/13 14:05	AJH	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	200.8			21685	11/01/13 10:18	TNL	TAL PRT
Dissolved	Analysis	200.8		1	21742	11/01/13 20:08	TNL	TAL PRT
Total/NA	Prep	245.1			21728	11/01/13 17:08	LQN	TAL PRT
Total/NA	Analysis	245.1		1	21775	11/04/13 16:12	LQN	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	245.1			21729	11/01/13 17:14	LQN	TAL PRT
Dissolved	Analysis	245.1		1	21775	11/04/13 16:50	LQN	TAL PRT
Total	Prep	Wet Chem		1.00	13K0016_P	11/05/13 11:47	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13K0016	11/05/13 14:27	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13J0192_P	10/30/13 07:35	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13J0192	10/30/13 10:08	CBW	TAL SPK

**Client Sample ID: MW-7-102813**

**Lab Sample ID: SWJ0194-07**

**Date Collected: 10/28/13 11:54**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	13J0200_P	10/31/13 07:42	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13J0200	10/31/13 14:58	CBW	TAL SPK
Total/NA	Prep	3520C			198928	11/01/13 18:08	JJW	TAL DEN
Total/NA	Analysis	8270C		1	199372	11/05/13 20:17	DCK	TAL DEN
Total	Prep	EPA 3510/600 Series		0.953	13J0204_P	11/01/13 13:30	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13J0204	11/05/13 03:25	MRS	TAL SPK

TestAmerica Spokane



# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Client Sample ID: MW-7-102813**

**Lab Sample ID: SWJ0194-07**

**Date Collected: 10/28/13 11:54**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	119201	11/04/13 15:08	MGH	TAL NSH
Total/NA	Prep	200.8			21636	10/30/13 17:21	KTN	TAL PRT
Total/NA	Analysis	200.8		1	21673	10/31/13 14:08	AJH	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	200.8			21685	11/01/13 10:18	TNL	TAL PRT
Dissolved	Analysis	200.8		1	21742	11/01/13 20:21	TNL	TAL PRT
Total/NA	Prep	245.1			21728	11/01/13 17:08	LQN	TAL PRT
Total/NA	Analysis	245.1		1	21775	11/04/13 16:14	LQN	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	245.1			21729	11/01/13 17:14	LQN	TAL PRT
Dissolved	Analysis	245.1		1	21775	11/04/13 16:52	LQN	TAL PRT
Total	Prep	Wet Chem		1.00	13K0016_P	11/05/13 11:47	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13K0016	11/05/13 14:27	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13J0192_P	10/30/13 07:35	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13J0192	10/30/13 10:28	CBW	TAL SPK

**Client Sample ID: MW-8-102813**

**Lab Sample ID: SWJ0194-08**

**Date Collected: 10/28/13 10:45**

**Matrix: Water**

**Date Received: 10/29/13 15:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	13J0200_P	10/31/13 07:42	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13J0200	10/31/13 15:22	CBW	TAL SPK
Total/NA	Prep	3520C			198928	11/01/13 18:08	JJW	TAL DEN
Total/NA	Analysis	8270C		1	199372	11/05/13 20:44	DCK	TAL DEN
Total	Prep	EPA 3510/600 Series		0.950	13J0204_P	11/01/13 13:30	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13J0204	11/05/13 03:47	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	119201	11/04/13 15:11	MGH	TAL NSH
Total/NA	Analysis	RSK-175		10	119201	11/04/13 15:13	MGH	TAL NSH
Total/NA	Prep	200.8			21636	10/30/13 17:21	KTN	TAL PRT
Total/NA	Analysis	200.8		1	21673	10/31/13 14:11	AJH	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	200.8			21685	11/01/13 10:18	TNL	TAL PRT
Dissolved	Analysis	200.8		1	21742	11/01/13 20:24	TNL	TAL PRT
Total/NA	Prep	245.1			21728	11/01/13 17:08	LQN	TAL PRT
Total/NA	Analysis	245.1		1	21775	11/04/13 16:17	LQN	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	245.1			21729	11/01/13 17:14	LQN	TAL PRT
Dissolved	Analysis	245.1		1	21775	11/04/13 16:55	LQN	TAL PRT
Total	Prep	Wet Chem		1.00	13K0016_P	11/05/13 11:47	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13K0016	11/05/13 14:27	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13J0192_P	10/30/13 07:35	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13J0192	10/30/13 10:48	CBW	TAL SPK

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Client Sample ID: B-1-102813

Lab Sample ID: SWJ0194-09

Date Collected: 10/28/13 17:20

Matrix: Water

Date Received: 10/29/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	EPA 8260C		1.00	13J0200	10/31/13 15:45	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	13J0200_P	10/31/13 07:42	CBW	TAL SPK
Total	Prep	EPA 3510/600 Series		0.966	13J0204_P	11/01/13 13:30	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13J0204	11/05/13 13:24	MRS	TAL SPK

## Client Sample ID: Duplicate-1-102813

Lab Sample ID: SWJ0194-10

Date Collected: 10/28/13 12:34

Matrix: Water

Date Received: 10/29/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	13J0200_P	10/31/13 07:42	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13J0200	10/31/13 16:08	CBW	TAL SPK
Total/NA	Prep	3520C			198928	11/01/13 18:08	JJW	TAL DEN
Total/NA	Analysis	8270C		1	199372	11/05/13 21:10	DCK	TAL DEN
Total	Prep	EPA 3510/600 Series		0.954	13J0204_P	11/01/13 13:30	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13J0204	11/05/13 13:47	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	119201	11/04/13 15:15	MGH	TAL NSH
Total/NA	Prep	200.8			21636	10/30/13 17:21	KTN	TAL PRT
Total/NA	Analysis	200.8		1	21673	10/31/13 14:15	AJH	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Analysis	200.8		1	21742	11/01/13 20:28	TNL	TAL PRT
Dissolved	Prep	200.8			21685	11/01/13 10:18	TNL	TAL PRT
Dissolved	Analysis	200.8		5	21765	11/04/13 11:54	TNL	TAL PRT
Total/NA	Prep	245.1			21728	11/01/13 17:08	LQN	TAL PRT
Total/NA	Analysis	245.1		1	21775	11/04/13 16:19	LQN	TAL PRT
Dissolved	Filtration	Filtration			21640	10/30/13 22:20	TNL	TAL PRT
Dissolved	Prep	245.1			21729	11/01/13 17:14	LQN	TAL PRT
Dissolved	Analysis	245.1		1	21775	11/04/13 16:57	LQN	TAL PRT
Total	Prep	Wet Chem		1.00	13K0016_P	11/05/13 11:47	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13K0016	11/05/13 14:27	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13J0192_P	10/30/13 07:35	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13J0192	10/30/13 11:07	CBW	TAL SPK

## Client Sample ID: Trip Blank

Lab Sample ID: SWJ0194-11

Date Collected: 10/28/13 00:00

Matrix: Water

Date Received: 10/29/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	13J0200_P	10/31/13 07:42	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13J0200	10/31/13 16:32	CBW	TAL SPK

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

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# Certification Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Laboratory: TestAmerica Spokane

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C569	01-06-14

## Laboratory: TestAmerica Denver

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	11-30-13
A2LA	ISO/IEC 17025		2907.01	11-30-13
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	04-05-14
Arizona	State Program	9	AZ0713	12-19-13
Arkansas DEQ	State Program	6	88-0687	06-01-14
California	ELAP	9	2513	08-31-14
Colorado	State Program	8	N/A	09-30-14
Connecticut	State Program	1	PH-0686	09-30-14
Florida	NELAP	4	E87667	06-30-14
Illinois	NELAP	5	200017	04-30-14
Iowa	State Program	7	370	12-01-14
Kansas	NELAP	7	E-10166	04-30-14
Louisiana	NELAP	6	30785	06-30-14 *
Maine	State Program	1	CO0002	03-03-15
Maryland	State Program	3	268	03-31-14
Minnesota	NELAP	5	8-999-405	12-31-13
Nevada	State Program	9	CO0026	09-01-14
New Hampshire	NELAP	1	205310	04-28-14
New Jersey	NELAP	2	CO004	06-30-14
New Mexico	State Program	6	CO00026	06-30-14 *
New York	NELAP	2	11964	04-01-14
North Carolina DENR	State Program	4	358	12-31-13
North Dakota	State Program	8	R-034	06-30-14 *
Oklahoma	State Program	6	8614	08-31-14
Oregon	NELAP	10	CO200001	01-16-14
Pennsylvania	NELAP	3	68-00664	07-30-14
South Carolina	State Program	4	72002	06-30-14 *
Texas	NELAP	6	T104704183-08-TX	10-01-14
USDA	Federal		P330-13-00202	07-02-16
Utah	NELAP	8	CO000262012-4	07-31-14
Virginia	NELAP	3	460232	06-14-14
Washington	State Program	10	C583	08-03-14
West Virginia DEP	State Program	3	354	11-30-13
Wisconsin	State Program	5	999615430	08-31-14
Wyoming (UST)	A2LA	8		11-30-13

## Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *

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

TestAmerica Spokane

# Certification Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

## Laboratory: TestAmerica Nashville (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-14
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-13

## Laboratory: TestAmerica Portland

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14

# Method Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWJ0194

Method	Method Description	Protocol	Laboratory
EPA 8260C	NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C		TAL SPK
EPA 8260C	Volatile Organic Compounds by EPA Method 8260C		TAL SPK
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL DEN
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup		TAL SPK
RSK-175	Dissolved Gases (GC)	RSK	TAL NSH
200.8	Metals (ICP/MS)	EPA	TAL PRT
245.1	Mercury (CVAA)	EPA	TAL PRT
EPA 300.0	Anions by EPA Method 300.0		TAL SPK
SM 2320B	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

#### Protocol References:

EPA = US Environmental Protection Agency

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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

#### Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8<sup>th</sup> Street East, Tacoma, WA 98424-1317  
 11922 E. First Ave., Spokane WA 99206-5302  
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047  
 509-924-9200 FAX 924-9290  
 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

11/7/2013

## CHAIN OF CUSTODY REPORT

Work Order #: SW00014

CLIENT: <u>GE ENGINEERS</u>				INVOICE TO: <u>DAVE LAUDER</u>										<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: _____ * Turnaround Requests less than standard may incur Rush Charges.			
REPORT TO: <u>DAVE LAUDER</u> ADDRESS: <u>523 E 2ND AVE</u> <u>SPokane, WA 99202</u>				P.O. NUMBER:													
PHONE: <u>509-363-3125</u> FAX: <u>509-363-3126</u>				PRESERVATIVE													
PROJECT NAME: <u>CASHMERE MILL</u>				REQUESTED ANALYSES													
PROJECT NUMBER: <u>1893-001-02</u>																	
SAMPLED BY: <u>KAH</u>																	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		NUMPH-DX 4/SEC	NUMPH-GX	TOTAL METALS <sup>1</sup>	DISSOLVED METALS <sup>2</sup>	VOCS	SVOCs	NITRATE	SULFIDE MANGANESE	SULFATE	METHANE	ALUMINUM	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 MW-1-102813	10/28/13 1748		X	X	X	X	X	X	X	X	X	X	X	W	10		
2 MW-2-102813	1700		X	X	X	X	X	X	X	X	X	X	X				
3 MW-3-102813	1614		X	X	X	X	X	X	X	X	X	X	X				
4 MW-4-102813	1513		X	X	X	X	X	X	X	X	X	X	X				
5 MW-5-102813	1415		X	X	X	X	X	X	X	X	X	X	X				
6 MW-6-102813	1324		X	X	X	X	X	X	X	X	X	X	X				
7 MW-7-102813	1154		X	X	X	X	X	X	X	X	X	X	X				
8 MW-8-102813	1045		X	X	X	X	X	X	X	X	X	X	X				
9 B-1-102813	1720		X	X	X	X	X								3		
10 B-2																	
RELEASED BY: <u>KATIE HALL</u>				DATE: <u>10/29/13</u>				RECEIVED BY: <u>Col Stephens</u>				DATE: <u>10-29-13</u>					
PRINT NAME: <u>KATIE HALL</u>				FIRM: <u>GET</u>				TIME: <u>1535</u>				FIRM: <u>TA</u>					
RELEASED BY:				DATE:				RECEIVED BY:				DATE:					
PRINT NAME:				FIRM:				TIME:				FIRM:					
ADDITIONAL REMARKS: <u>1+2 - ARSENIC, BARIUM, CADMIUM, CHROMIUM, MERCURY, LEAD, SELENIUM, SILVER</u>																	
														TEMP: <u>12</u>	PAGE 1 OF 2		

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THE LEADER IN ENVIRONMENTAL TESTING

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 11922 E. First Ave., Spokane WA 99206-5302  
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 509-924-9200 FAX 924-9290  
 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

11/7/2013

## CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: <b>GEDENGLINGS</b>		INVOICE TO: <b>DAVE LUDER</b>											<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> STD. 7 5 4 3 2 1 <1 Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> STD. 4 3 2 1 <1 OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.							
REPORT TO: <b>DAVE LUDER</b> ADDRESS:		P.O. NUMBER:																		
PHONE: FAX:		PRESERVATIVE											MATRIX (W, S, O)				# OF CONT.	LOCATION/ COMMENTS		TA WO ID
PROJECT NAME: <b>CASHMERE MILL</b>		REQUESTED ANALYSES																		
PROJECT NUMBER: <b>18593-001-02</b>																				
SAMPLED BY: <b>KAH</b>																				
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		MUTUAL-GX w/SSC	MUTUAL-GX	TOTAL METALS	DISSOLVED METALS	VOCs	SVOCs	NITRATE	SULFIDE	SULFATE	METHANE	ALKALINITY						
1 <b>DUPLICATE-1-10/28/13</b>		10/28/13 1234		X	X	X	X	X	X	X	X	X	X	X	W	10				
2 <b>TRIP BLANK</b>		-			X			X							←	1				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
RELEASED BY: <b>KAH</b>		DATE: <b>10/29/13</b>		RECEIVED BY: <b>Cat Stapleton</b>		DATE: <b>10/29/13</b>		FIRM: <b>TA</b>		TIME: <b>15:40</b>		DATE:		TIME:						
PRINT NAME: <b>KATIE HALL</b>		FIRM: <b>UET</b>		DATE:		RECEIVED BY:		FIRM:		TIME:		DATE:		TIME:						
RELEASED BY:		DATE:		RECEIVED BY:		DATE:		FIRM:		TIME:		DATE:		TIME:						
PRINT NAME:		FIRM:		DATE:		RECEIVED BY:		FIRM:		TIME:		DATE:		TIME:						
ADDITIONAL REMARKS: <b>#2: ARSENIC, BARIUM, CADMIUM, CHROMIUM, MERCURY, LEAD, SELENIUM, SILVER</b>														TEMP: <b>12</b>	PAGE 2 OF 2					

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**TestAmerica Spokane  
Sample Receipt Form**

<b>Work Order #:</b> SW-2014-11	<b>Client:</b> Art Engineers	<b>Project:</b> Dishmere		
<b>Date/Time Received:</b> 10/29/13 15:40	<b>By:</b> [Signature]			
<b>Samples Delivered By:</b> <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input type="checkbox"/> Client <input type="checkbox"/> Other:				
<b>List Air Bill Number(s) or Attach a photocopy of the Air Bill:</b>				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:			X	
Are CoC documents present:	X			
Necessary signatures:	X			
<b>Thermal Preservation Type:</b> <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:				
<b>Temperature:</b> 12 °C Thermometer (Circle one Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6				
<b>Temperature out of range:</b> <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:				
Log-in Phase	Yes	No	NA	Comments
<b>Date/Time:</b> 10/29/13 1556 <b>By:</b> [Signature]				
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification	X			
Are VOC samples free of bubbles >6mm (1/4" diameter)	X			
Are dissolved parameters field filtered		X		
Do any samples need to be filtered or preserved by the lab	X			
Does this project require quick turnaround analysis	X			
Are there any short hold time tests (see chart below)	X			
Are any samples within 2 days of or past expiration	X			
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated #			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Spokane  
11922 East 1st. Avenue  
Spokane, WA 99206  
Tel: (509)924-9200

TestAmerica Job ID: SWL0026  
Client Project/Site: 18593-001-02  
Client Project Description: Cashmere Mill

For:  
Geo Engineers - Spokane  
523 East Second Ave.  
Spokane, WA 99202

Attn: Dave Lauder



Authorized for release by:  
12/13/2013 12:23:31 PM

Randee Decker, Project Manager  
(509)924-9200  
[Randee.Decker@testamericainc.com](mailto:Randee.Decker@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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# Table of Contents

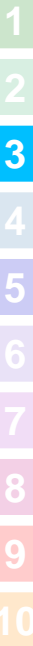
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# Sample Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWL0026-01	MW-1-120313	Water	12/03/13 10:48	12/05/13 10:50
SWL0026-02	MW-2-120313	Water	12/03/13 14:19	12/05/13 10:50
SWL0026-03	MW-2-120413(16)	Water	12/04/13 07:59	12/05/13 10:50
SWL0026-04	MW-3-120413	Water	12/04/13 12:09	12/05/13 10:50
SWL0026-05	MW-4-120413	Water	12/04/13 09:34	12/05/13 10:50
SWL0026-06	MW-5-120413	Water	12/04/13 10:27	12/05/13 10:50
SWL0026-07	MW-6-120413	Water	12/04/13 11:19	12/05/13 10:50
SWL0026-08	MW-7-120313	Water	12/03/13 11:59	12/05/13 10:50
SWL0026-09	MW-7-120413(11)	Water	12/04/13 08:51	12/05/13 10:50
SWL0026-10	MW-8-120313	Water	12/03/13 09:28	12/05/13 10:50
SWL0026-11	B-1-120413	Water	12/04/13 14:28	12/05/13 10:50
SWL0026-12	OW-1-120413	Water	12/04/13 13:37	12/05/13 10:50



# Definitions/Glossary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
E	Result exceeded calibration range.

### 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.

### Wet Chem

Qualifier	Qualifier Description
H3	Sample was received and analyzed past holding time.

## Glossary

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

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-1-120313**

**Lab Sample ID: SWL0026-01**

**Date Collected: 12/03/13 10:48**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Chloromethane	ND		3.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Vinyl chloride	ND		0.200		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Bromomethane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Chloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Trichlorofluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,1-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Dichlorofluoromethane	ND		0.100		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Carbon disulfide	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Methylene chloride	ND		10.0		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Acetone	ND		25.0		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,1-Dichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
2,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Bromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Chloroform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Carbon tetrachloride	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
2-Butanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
n-Hexane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,1-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Benzene	ND		0.200		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Trichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Dibromomethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Bromodichloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Toluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Tetrachloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Dibromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,3-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,2-Dibromoethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
2-Hexanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Ethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Chlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
m,p-Xylene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
o-Xylene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Styrene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Bromoform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Isopropylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
n-Propylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-1-120313**

**Lab Sample ID: SWL0026-01**

**Date Collected: 12/03/13 10:48**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Bromobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
2-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
4-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
tert-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
sec-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
p-Isopropyltoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
n-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Hexachlorobutadiene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
Naphthalene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:03	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		71.2 - 143	12/06/13 09:05	12/06/13 16:03	1.00
1,2-dichloroethane-d4	103		70 - 140	12/06/13 09:05	12/06/13 16:03	1.00
Toluene-d8	98.5		74.1 - 135	12/06/13 09:05	12/06/13 16:03	1.00
4-bromofluorobenzene	107		68.7 - 141	12/06/13 09:05	12/06/13 16:03	1.00

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		12/06/13 09:05	12/06/13 16:03	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		71.2 - 143	12/06/13 09:05	12/06/13 16:03	1.00
Toluene-d8	98.5		74.1 - 135	12/06/13 09:05	12/06/13 16:03	1.00
4-bromofluorobenzene	107		68.7 - 141	12/06/13 09:05	12/06/13 16:03	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
1,3-Dichlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
1,4-Dichlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
1,2-Dichlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
1-Methylnaphthalene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
2,4,5-Trichlorophenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
2,4,6-Trichlorophenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
2,4-Dichlorophenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
2,4-Dimethylphenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
2,4-Dinitrophenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
2,4-Dinitrotoluene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
2,6-Dinitrotoluene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-1-120313**

**Lab Sample ID: SWL0026-01**

**Date Collected: 12/03/13 10:48**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
2-Chlorophenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
2-Methylphenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
2-Methylnaphthalene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
2-Nitroaniline	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
2-Nitrophenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
3 & 4 Methylphenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
3,3'-Dichlorobenzidine	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
3-Nitroaniline	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
4,6-Dinitro-2-methylphenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
4-Chloro-3-methylphenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
4-Bromophenyl phenyl ether	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
4-Chloroaniline	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
4-Chlorophenyl phenyl ether	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
4-Nitroaniline	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
4-Nitrophenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Acenaphthene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Acenaphthylene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Anthracene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Benzo[a]anthracene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Benzo[a]pyrene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Benzo[b]fluoranthene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Benzo[g,h,i]perylene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Benzo[k]fluoranthene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
bis (2-chloroisopropyl) ether	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Carbazole	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Chrysene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Dibenz(a,h)anthracene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Dibenzofuran	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Dimethyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Diethyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Di-n-butyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Di-n-octyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Fluorene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Fluoranthene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Hexachlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Hexachlorobutadiene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Hexachlorocyclopentadiene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Hexachloroethane	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Indeno[1,2,3-cd]pyrene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Isophorone	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Naphthalene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Nitrobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
N-Nitrosodi-n-propylamine	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Pentachlorophenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Phenanthrene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Pyrene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:21	1
Phenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-1-120313**

**Lab Sample ID: SWL0026-01**

Date Collected: 12/03/13 10:48

Matrix: Water

Date Received: 12/05/13 10:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cresols	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Bis(2-chloroethoxy)methane	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Bis(2-chloroethyl)ether	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Bis(2-ethylhexyl) phthalate	ND *		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
Butyl benzyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:21	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	64		27 - 120				12/10/13 13:26	12/11/13 13:21	1
2-Fluorophenol (Surr)	44		10 - 120				12/10/13 13:26	12/11/13 13:21	1
2-Fluorobiphenyl (Surr)	61		29 - 120				12/10/13 13:26	12/11/13 13:21	1
2,4,6-Tribromophenol (Surr)	84		10 - 120				12/10/13 13:26	12/11/13 13:21	1
Phenol-d5 (Surr)	29		10 - 120				12/10/13 13:26	12/11/13 13:21	1
Terphenyl-d14 (Surr)	79		13 - 120				12/10/13 13:26	12/11/13 13:21	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.238		mg/l		12/11/13 08:57	12/11/13 16:58	1.00
Heavy Oil Range Hydrocarbons	ND		0.397		mg/l		12/11/13 08:57	12/11/13 16:58	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-FBP	50.9		50 - 150				12/11/13 08:57	12/11/13 16:58	1.00
n-Triacontane-d62	68.1		50 - 150				12/11/13 08:57	12/11/13 16:58	1.00

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>0.0788</b>		0.00500		mg/L			12/11/13 13:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Acetylene (Surr)	85		62 - 124					12/11/13 13:53	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0032</b>		0.0010		mg/L		12/10/13 07:52	12/10/13 14:32	1
<b>Barium</b>	<b>0.12</b>		0.0010		mg/L		12/10/13 07:52	12/10/13 14:32	1
Cadmium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:32	1
Chromium	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:32	1
Copper	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:32	1
Lead	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:32	1
<b>Manganese</b>	<b>0.39</b>		0.0020		mg/L		12/10/13 07:52	12/10/13 14:32	1
Selenium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:32	1
Silver	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:32	1
<b>Iron</b>	<b>0.80</b>		0.025		mg/L		12/10/13 07:52	12/10/13 14:32	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 00:46	1
<b>Barium</b>	<b>0.10</b>		0.0010		mg/L		12/09/13 09:59	12/10/13 00:46	1
Iron	ND		0.025		mg/L		12/09/13 09:59	12/10/13 00:46	1
Silver	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 00:46	1
<b>Arsenic</b>	<b>0.0021</b>		0.0010		mg/L		12/09/13 09:59	12/10/13 00:46	1
Copper	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 00:46	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-1-120313**

**Lab Sample ID: SWL0026-01**

Date Collected: 12/03/13 10:48

Matrix: Water

Date Received: 12/05/13 10:50

**Method: 200.8 - Metals (ICP/MS) - Dissolved (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 00:46	1
Selenium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 00:46	1
<b>Manganese</b>	<b>0.37</b>		0.0020		mg/L		12/09/13 09:59	12/10/13 00:46	1
Chromium	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 00:46	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 18:19	12/09/13 21:47	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 15:11	12/09/13 20:38	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Nitrate-Nitrogen</b>	<b>0.220</b>	<b>H3</b>	0.200		mg/l		12/05/13 12:29	12/05/13 15:24	1.00
<b>Sulfate</b>	<b>9.13</b>		0.500		mg/l		12/05/13 12:29	12/05/13 15:24	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Alkalinity</b>	<b>325</b>		4.00		mg/l		12/12/13 08:42	12/12/13 17:30	1.00

**Method: SM4500-PE - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	ND		0.0600		mg/l		12/12/13 08:43	12/12/13 16:55	1.00

**Client Sample ID: MW-2-120313**

**Lab Sample ID: SWL0026-02**

Date Collected: 12/03/13 14:19

Matrix: Water

Date Received: 12/05/13 10:50

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Chloromethane	ND		3.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Vinyl chloride	ND		0.200		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Bromomethane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Chloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Trichlorofluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,1-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Dichlorofluoromethane	ND		0.100		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Carbon disulfide	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Methylene chloride	ND		10.0		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Acetone	ND		25.0		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,1-Dichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
2,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Bromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Chloroform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-2-120313**

**Lab Sample ID: SWL0026-02**

**Date Collected: 12/03/13 14:19**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
2-Butanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
n-Hexane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,1-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Benzene	ND		0.200		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Trichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Dibromomethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Bromodichloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Toluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Tetrachloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,1,1,2-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Dibromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,3-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,2-Dibromoethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
2-Hexanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Ethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Chlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
m,p-Xylene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
o-Xylene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Styrene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Bromoform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Isopropylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
n-Propylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Bromobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
2-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
4-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
tert-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
sec-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
p-Isopropyltoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
n-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Hexachlorobutadiene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
Naphthalene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-2-120313**

**Lab Sample ID: SWL0026-02**

**Date Collected: 12/03/13 14:19**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	105		71.2 - 143				12/06/13 09:05	12/06/13 16:26	1.00
1,2-dichloroethane-d4	102		70 - 140				12/06/13 09:05	12/06/13 16:26	1.00
Toluene-d8	100		74.1 - 135				12/06/13 09:05	12/06/13 16:26	1.00
4-bromofluorobenzene	101		68.7 - 141				12/06/13 09:05	12/06/13 16:26	1.00

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		12/06/13 09:05	12/06/13 16:26	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	105		71.2 - 143				12/06/13 09:05	12/06/13 16:26	1.00
Toluene-d8	100		74.1 - 135				12/06/13 09:05	12/06/13 16:26	1.00
4-bromofluorobenzene	101		68.7 - 141				12/06/13 09:05	12/06/13 16:26	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
1,3-Dichlorobenzene	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
1,4-Dichlorobenzene	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
1,2-Dichlorobenzene	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
1-Methylnaphthalene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
2,4,5-Trichlorophenol	ND		23.8		ug/L		12/10/13 07:31	12/10/13 19:33	1
2,4,6-Trichlorophenol	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
2,4-Dichlorophenol	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
2,4-Dimethylphenol	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
2,4-Dinitrophenol	ND		23.8		ug/L		12/10/13 07:31	12/10/13 19:33	1
2,4-Dinitrotoluene	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
2,6-Dinitrotoluene	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
2-Chloronaphthalene	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
2-Chlorophenol	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
2-Methylphenol	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
2-Methylnaphthalene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
2-Nitroaniline	ND		23.8		ug/L		12/10/13 07:31	12/10/13 19:33	1
2-Nitrophenol	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
3 & 4 Methylphenol	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
3,3'-Dichlorobenzidine	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
3-Nitroaniline	ND		23.8		ug/L		12/10/13 07:31	12/10/13 19:33	1
4,6-Dinitro-2-methylphenol	ND		23.8		ug/L		12/10/13 07:31	12/10/13 19:33	1
4-Chloro-3-methylphenol	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
4-Bromophenyl phenyl ether	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
4-Chloroaniline	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
4-Chlorophenyl phenyl ether	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
4-Nitroaniline	ND		23.8		ug/L		12/10/13 07:31	12/10/13 19:33	1
4-Nitrophenol	ND		23.8		ug/L		12/10/13 07:31	12/10/13 19:33	1
Acenaphthene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
Acenaphthylene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
Anthracene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-2-120313**

**Lab Sample ID: SWL0026-02**

**Date Collected: 12/03/13 14:19**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
Benzo[a]pyrene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
Benzo[b]fluoranthene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
Benzo[g,h,i]perylene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
Benzo[k]fluoranthene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
bis (2-chloroisopropyl) ether	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Carbazole	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Chrysene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
Dibenz(a,h)anthracene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
Dibenzofuran	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Dimethyl phthalate	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Diethyl phthalate	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Di-n-butyl phthalate	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Di-n-octyl phthalate	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Fluorene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
Fluoranthene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
Hexachlorobenzene	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Hexachlorobutadiene	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Hexachlorocyclopentadiene	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Hexachloroethane	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Indeno[1,2,3-cd]pyrene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
Isophorone	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Naphthalene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
Nitrobenzene	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
N-Nitrosodi-n-propylamine	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Pentachlorophenol	ND		23.8		ug/L		12/10/13 07:31	12/10/13 19:33	1
Phenanthrene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
Pyrene	ND		1.90		ug/L		12/10/13 07:31	12/10/13 19:33	1
Phenol	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Cresols	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Bis(2-chloroethoxy)methane	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Bis(2-chloroethyl)ether	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Bis(2-ethylhexyl) phthalate	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1
Butyl benzyl phthalate	ND		9.52		ug/L		12/10/13 07:31	12/10/13 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	54		27 - 120	12/10/13 07:31	12/10/13 19:33	1
2-Fluorophenol (Surr)	32		10 - 120	12/10/13 07:31	12/10/13 19:33	1
2-Fluorobiphenyl (Surr)	52		29 - 120	12/10/13 07:31	12/10/13 19:33	1
2,4,6-Tribromophenol (Surr)	66		10 - 120	12/10/13 07:31	12/10/13 19:33	1
Phenol-d5 (Surr)	21		10 - 120	12/10/13 07:31	12/10/13 19:33	1
Terphenyl-d14 (Surr)	49		13 - 120	12/10/13 07:31	12/10/13 19:33	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-DX**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.247		mg/l		12/11/13 08:57	12/11/13 17:21	1.00
Heavy Oil Range Hydrocarbons	ND		0.412		mg/l		12/11/13 08:57	12/11/13 17:21	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-2-120313**

**Lab Sample ID: SWL0026-02**

Date Collected: 12/03/13 14:19

Matrix: Water

Date Received: 12/05/13 10:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	66.1		50 - 150	12/11/13 08:57	12/11/13 17:21	1.00
n-Triacontane-d62	97.0		50 - 150	12/11/13 08:57	12/11/13 17:21	1.00

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.213		0.00500		mg/L			12/11/13 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	86		62 - 124		12/11/13 13:55	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0058		0.0010		mg/L		12/10/13 07:52	12/10/13 14:35	1
Barium	0.12		0.0010		mg/L		12/10/13 07:52	12/10/13 14:35	1
Cadmium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:35	1
Chromium	0.0022		0.0020		mg/L		12/10/13 07:52	12/10/13 14:35	1
Copper	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:35	1
Lead	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:35	1
Manganese	0.35		0.0020		mg/L		12/10/13 07:52	12/10/13 14:35	1
Selenium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:35	1
Silver	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:35	1
Iron	1.3		0.025		mg/L		12/10/13 07:52	12/10/13 14:35	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:12	1
Barium	0.11		0.0010		mg/L		12/09/13 09:59	12/10/13 01:12	1
Iron	ND		0.025		mg/L		12/09/13 09:59	12/10/13 01:12	1
Silver	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:12	1
Arsenic	0.0042		0.0010		mg/L		12/09/13 09:59	12/10/13 01:12	1
Copper	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 01:12	1
Lead	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:12	1
Selenium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:12	1
Manganese	0.34		0.0020		mg/L		12/09/13 09:59	12/10/13 01:12	1
Chromium	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 01:12	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 18:19	12/09/13 21:49	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 15:11	12/09/13 20:40	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	0.310		0.200		mg/l		12/05/13 12:29	12/05/13 12:47	1.00
Sulfate	19.5		0.500		mg/l		12/05/13 12:29	12/05/13 12:47	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	380		4.00		mg/l		12/12/13 08:42	12/12/13 17:30	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-2-120313**

**Lab Sample ID: SWL0026-02**

Date Collected: 12/03/13 14:19

Matrix: Water

Date Received: 12/05/13 10:50

**Method: SM4500-PE - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.0994		0.0600		mg/l		12/12/13 08:43	12/12/13 16:55	1.00

**Client Sample ID: MW-2-120413(16)**

**Lab Sample ID: SWL0026-03**

Date Collected: 12/04/13 07:59

Matrix: Water

Date Received: 12/05/13 10:50

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0061		0.0010		mg/L		12/06/13 18:29	12/09/13 17:19	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0040		0.0010		mg/L		12/09/13 10:28	12/09/13 18:47	1

**Client Sample ID: MW-3-120413**

**Lab Sample ID: SWL0026-04**

Date Collected: 12/04/13 12:09

Matrix: Water

Date Received: 12/05/13 10:50

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Chloromethane	ND		3.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Vinyl chloride	ND		0.200		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Bromomethane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Chloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Trichlorofluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,1-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Dichlorofluoromethane	ND		0.100		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Carbon disulfide	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Methylene chloride	ND		10.0		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Acetone	ND		25.0		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,1-Dichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
2,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Bromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Chloroform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Carbon tetrachloride	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
2-Butanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
n-Hexane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,1-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
<b>Benzene</b>	<b>0.270</b>		0.200		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Trichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Dibromomethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Bromodichloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-3-120413**

**Lab Sample ID: SWL0026-04**

**Date Collected: 12/04/13 12:09**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Toluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Tetrachloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Dibromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,3-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,2-Dibromoethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
2-Hexanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Ethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Chlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
m,p-Xylene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
o-Xylene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Styrene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Bromoform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Isopropylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
n-Propylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Bromobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
2-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
4-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
tert-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
sec-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
p-Isopropyltoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
n-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Hexachlorobutadiene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
Naphthalene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 16:49	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	103		71.2 - 143	12/06/13 09:05	12/06/13 16:49	1.00
1,2-dichloroethane-d4	105		70 - 140	12/06/13 09:05	12/06/13 16:49	1.00
Toluene-d8	98.7		74.1 - 135	12/06/13 09:05	12/06/13 16:49	1.00
4-bromofluorobenzene	104		68.7 - 141	12/06/13 09:05	12/06/13 16:49	1.00

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		12/06/13 09:05	12/06/13 16:49	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-3-120413**

**Lab Sample ID: SWL0026-04**

**Date Collected: 12/04/13 12:09**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	103		71.2 - 143	12/06/13 09:05	12/06/13 16:49	1.00
Toluene-d8	98.7		74.1 - 135	12/06/13 09:05	12/06/13 16:49	1.00
4-bromofluorobenzene	104		68.7 - 141	12/06/13 09:05	12/06/13 16:49	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
1,3-Dichlorobenzene	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
1,4-Dichlorobenzene	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
1,2-Dichlorobenzene	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
1-Methylnaphthalene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
2,4,5-Trichlorophenol	ND		24.0		ug/L		12/10/13 07:31	12/10/13 19:57	1
2,4,6-Trichlorophenol	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
2,4-Dichlorophenol	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
2,4-Dimethylphenol	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
2,4-Dinitrophenol	ND		24.0		ug/L		12/10/13 07:31	12/10/13 19:57	1
2,4-Dinitrotoluene	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
2,6-Dinitrotoluene	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
2-Chloronaphthalene	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
2-Chlorophenol	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
2-Methylphenol	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
2-Methylnaphthalene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
2-Nitroaniline	ND		24.0		ug/L		12/10/13 07:31	12/10/13 19:57	1
2-Nitrophenol	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
3 & 4 Methylphenol	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
3,3'-Dichlorobenzidine	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
3-Nitroaniline	ND		24.0		ug/L		12/10/13 07:31	12/10/13 19:57	1
4,6-Dinitro-2-methylphenol	ND		24.0		ug/L		12/10/13 07:31	12/10/13 19:57	1
4-Chloro-3-methylphenol	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
4-Bromophenyl phenyl ether	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
4-Chloroaniline	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
4-Chlorophenyl phenyl ether	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
4-Nitroaniline	ND		24.0		ug/L		12/10/13 07:31	12/10/13 19:57	1
4-Nitrophenol	ND		24.0		ug/L		12/10/13 07:31	12/10/13 19:57	1
Acenaphthene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Acenaphthylene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Anthracene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Benzo[a]anthracene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Benzo[a]pyrene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Benzo[b]fluoranthene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Benzo[g,h,i]perylene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Benzo[k]fluoranthene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
bis (2-chloroisopropyl) ether	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Carbazole	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Chrysene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Dibenz(a,h)anthracene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Dibenzofuran	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Dimethyl phthalate	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Diethyl phthalate	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Di-n-butyl phthalate	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-3-120413**

**Lab Sample ID: SWL0026-04**

**Date Collected: 12/04/13 12:09**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Fluorene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Fluoranthene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Hexachlorobenzene	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Hexachlorobutadiene	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Hexachlorocyclopentadiene	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Hexachloroethane	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Indeno[1,2,3-cd]pyrene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Isophorone	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Naphthalene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Nitrobenzene	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
N-Nitrosodi-n-propylamine	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Pentachlorophenol	ND		24.0		ug/L		12/10/13 07:31	12/10/13 19:57	1
Phenanthrene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Pyrene	ND		1.92		ug/L		12/10/13 07:31	12/10/13 19:57	1
Phenol	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Cresols	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Bis(2-chloroethoxy)methane	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Bis(2-chloroethyl)ether	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Bis(2-ethylhexyl) phthalate	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1
Butyl benzyl phthalate	ND		9.62		ug/L		12/10/13 07:31	12/10/13 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	63		27 - 120	12/10/13 07:31	12/10/13 19:57	1
2-Fluorophenol (Surr)	38		10 - 120	12/10/13 07:31	12/10/13 19:57	1
2-Fluorobiphenyl (Surr)	57		29 - 120	12/10/13 07:31	12/10/13 19:57	1
2,4,6-Tribromophenol (Surr)	79		10 - 120	12/10/13 07:31	12/10/13 19:57	1
Phenol-d5 (Surr)	25		10 - 120	12/10/13 07:31	12/10/13 19:57	1
Terphenyl-d14 (Surr)	44		13 - 120	12/10/13 07:31	12/10/13 19:57	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Hydrocarbons</b>	<b>1.45</b>		0.238		mg/l		12/11/13 08:57	12/11/13 17:43	1.00
<b>Heavy Oil Range Hydrocarbons</b>	<b>0.875</b>		0.397		mg/l		12/11/13 08:57	12/11/13 17:43	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	68.2		50 - 150	12/11/13 08:57	12/11/13 17:43	1.00
n-Triacontane-d62	77.8		50 - 150	12/11/13 08:57	12/11/13 17:43	1.00

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>5.74</b>		0.100		mg/L			12/11/13 13:59	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	72		62 - 124		12/11/13 13:57	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0072</b>		0.0010		mg/L		12/10/13 07:52	12/10/13 14:39	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-3-120413**

**Lab Sample ID: SWL0026-04**

Date Collected: 12/04/13 12:09

Matrix: Water

Date Received: 12/05/13 10:50

**Method: 200.8 - Metals (ICP/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.26		0.0010		mg/L		12/10/13 07:52	12/10/13 14:39	1
Cadmium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:39	1
Chromium	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:39	1
Copper	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:39	1
Lead	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:39	1
Manganese	2.8		0.20		mg/L		12/10/13 07:52	12/10/13 21:25	100
Selenium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:39	1
Silver	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:39	1
Iron	69		2.5		mg/L		12/10/13 07:52	12/10/13 21:25	100

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:16	1
Barium	0.067		0.0010		mg/L		12/09/13 09:59	12/10/13 01:16	1
Iron	38		0.25		mg/L		12/09/13 09:59	12/10/13 12:47	10
Silver	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:16	1
Arsenic	0.0021		0.0010		mg/L		12/09/13 09:59	12/10/13 01:16	1
Copper	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 01:16	1
Lead	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:16	1
Selenium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:16	1
Manganese	2.8		0.020		mg/L		12/09/13 09:59	12/10/13 12:47	10
Chromium	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 01:16	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 18:19	12/09/13 21:52	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 15:11	12/09/13 20:43	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	0.250		0.200		mg/l		12/05/13 12:29	12/05/13 15:44	1.00
Sulfate	1.36		0.500		mg/l		12/05/13 12:29	12/05/13 15:44	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	405		4.00		mg/l		12/12/13 08:42	12/12/13 17:30	1.00

**Method: SM4500-PE - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	2.59		0.600		mg/l		12/12/13 08:43	12/12/13 16:55	10.0

**Client Sample ID: MW-4-120413**

**Lab Sample ID: SWL0026-05**

Date Collected: 12/04/13 09:34

Matrix: Water

Date Received: 12/05/13 10:50

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-4-120413**

**Lab Sample ID: SWL0026-05**

**Date Collected: 12/04/13 09:34**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		3.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Vinyl chloride	ND		0.200		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Bromomethane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Chloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Trichlorofluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,1-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Dichlorofluoromethane	ND		0.100		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Carbon disulfide	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Methylene chloride	ND		10.0		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Acetone	ND		25.0		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,1-Dichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
2,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Bromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Chloroform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Carbon tetrachloride	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
2-Butanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
n-Hexane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,1-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Benzene	ND		0.200		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Trichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Dibromomethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Bromodichloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Toluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Tetrachloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Dibromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,3-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,2-Dibromoethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
2-Hexanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Ethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Chlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
m,p-Xylene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
o-Xylene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Styrene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Bromoform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Isopropylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
n-Propylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-4-120413**

**Lab Sample ID: SWL0026-05**

**Date Collected: 12/04/13 09:34**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
2-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
4-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
tert-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
sec-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
p-Isopropyltoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
n-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Hexachlorobutadiene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
Naphthalene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:12	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		71.2 - 143	12/06/13 09:05	12/06/13 17:12	1.00
1,2-dichloroethane-d4	105		70 - 140	12/06/13 09:05	12/06/13 17:12	1.00
Toluene-d8	98.3		74.1 - 135	12/06/13 09:05	12/06/13 17:12	1.00
4-bromofluorobenzene	102		68.7 - 141	12/06/13 09:05	12/06/13 17:12	1.00

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		12/06/13 09:05	12/06/13 17:12	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		71.2 - 143	12/06/13 09:05	12/06/13 17:12	1.00
Toluene-d8	98.3		74.1 - 135	12/06/13 09:05	12/06/13 17:12	1.00
4-bromofluorobenzene	102		68.7 - 141	12/06/13 09:05	12/06/13 17:12	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
1,3-Dichlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
1,4-Dichlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
1,2-Dichlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
1-Methylnaphthalene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
2,4,5-Trichlorophenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:21	1
2,4,6-Trichlorophenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
2,4-Dichlorophenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
2,4-Dimethylphenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
2,4-Dinitrophenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:21	1
2,4-Dinitrotoluene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
2,6-Dinitrotoluene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
2-Chloronaphthalene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-4-120413**

**Lab Sample ID: SWL0026-05**

**Date Collected: 12/04/13 09:34**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
2-Methylphenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
2-Methylnaphthalene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
2-Nitroaniline	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:21	1
2-Nitrophenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
3 & 4 Methylphenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
3,3'-Dichlorobenzidine	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
3-Nitroaniline	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:21	1
4,6-Dinitro-2-methylphenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:21	1
4-Chloro-3-methylphenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
4-Bromophenyl phenyl ether	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
4-Chloroaniline	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
4-Chlorophenyl phenyl ether	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
4-Nitroaniline	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:21	1
4-Nitrophenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:21	1
Acenaphthene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Acenaphthylene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Anthracene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Benzo[a]anthracene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Benzo[a]pyrene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Benzo[b]fluoranthene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Benzo[g,h,i]perylene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Benzo[k]fluoranthene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
bis (2-chloroisopropyl) ether	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Carbazole	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Chrysene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Dibenz(a,h)anthracene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Dibenzofuran	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Dimethyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Diethyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Di-n-butyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Di-n-octyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Fluorene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Fluoranthene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Hexachlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Hexachlorobutadiene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Hexachlorocyclopentadiene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Hexachloroethane	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Indeno[1,2,3-cd]pyrene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Isophorone	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Naphthalene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Nitrobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
N-Nitrosodi-n-propylamine	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Pentachlorophenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:21	1
Phenanthrene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Pyrene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:21	1
Phenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Cresols	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-4-120413**

**Lab Sample ID: SWL0026-05**

Date Collected: 12/04/13 09:34

Matrix: Water

Date Received: 12/05/13 10:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Bis(2-chloroethyl)ether	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Bis(2-ethylhexyl) phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1
Butyl benzyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	66		27 - 120	12/10/13 07:31	12/10/13 20:21	1
2-Fluorophenol (Surr)	39		10 - 120	12/10/13 07:31	12/10/13 20:21	1
2-Fluorobiphenyl (Surr)	60		29 - 120	12/10/13 07:31	12/10/13 20:21	1
2,4,6-Tribromophenol (Surr)	76		10 - 120	12/10/13 07:31	12/10/13 20:21	1
Phenol-d5 (Surr)	25		10 - 120	12/10/13 07:31	12/10/13 20:21	1
Terphenyl-d14 (Surr)	54		13 - 120	12/10/13 07:31	12/10/13 20:21	1

### Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.244		mg/l		12/11/13 08:57	12/11/13 18:06	1.00
Heavy Oil Range Hydrocarbons	ND		0.407		mg/l		12/11/13 08:57	12/11/13 18:06	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	62.9		50 - 150	12/11/13 08:57	12/11/13 18:06	1.00
n-Triacontane-d62	79.2		50 - 150	12/11/13 08:57	12/11/13 18:06	1.00

### Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>0.123</b>		0.00500		mg/L			12/11/13 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	83		62 - 124		12/11/13 14:01	1

### Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0025</b>		0.0010		mg/L		12/10/13 07:52	12/10/13 14:42	1
<b>Barium</b>	<b>0.11</b>		0.0010		mg/L		12/10/13 07:52	12/10/13 14:42	1
Cadmium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:42	1
Chromium	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:42	1
Copper	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:42	1
Lead	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:42	1
<b>Manganese</b>	<b>1.1</b>		0.020		mg/L		12/10/13 07:52	12/10/13 21:36	10
Selenium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:42	1
Silver	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:42	1
<b>Iron</b>	<b>2.8</b>		0.025		mg/L		12/10/13 07:52	12/10/13 14:42	1

### Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:19	1
<b>Barium</b>	<b>0.083</b>		0.0010		mg/L		12/09/13 09:59	12/10/13 01:19	1
Iron	ND		0.025		mg/L		12/09/13 09:59	12/10/13 01:19	1
Silver	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:19	1
<b>Arsenic</b>	<b>0.0015</b>		0.0010		mg/L		12/09/13 09:59	12/10/13 01:19	1
Copper	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 01:19	1
Lead	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:19	1

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-4-120413**

**Lab Sample ID: SWL0026-05**

Date Collected: 12/04/13 09:34

Matrix: Water

Date Received: 12/05/13 10:50

**Method: 200.8 - Metals (ICP/MS) - Dissolved (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:19	1
<b>Manganese</b>	<b>1.1</b>		0.020		mg/L		12/09/13 09:59	12/10/13 12:50	10
Chromium	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 01:19	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 18:19	12/09/13 21:54	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 15:11	12/09/13 20:45	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		12/05/13 12:29	12/05/13 16:04	1.00
<b>Sulfate</b>	<b>9.09</b>		0.500		mg/l		12/05/13 12:29	12/05/13 16:04	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Alkalinity</b>	<b>345</b>		4.00		mg/l		12/12/13 08:42	12/12/13 17:30	1.00

**Method: SM4500-PE - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Phosphorus</b>	<b>0.143</b>		0.0600		mg/l		12/12/13 08:43	12/12/13 16:55	1.00

**Client Sample ID: MW-5-120413**

**Lab Sample ID: SWL0026-06**

Date Collected: 12/04/13 10:27

Matrix: Water

Date Received: 12/05/13 10:50

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Chloromethane	ND		3.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Vinyl chloride	ND		0.200		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Bromomethane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Chloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Trichlorofluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,1-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Dichlorofluoromethane	ND		0.100		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Carbon disulfide	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Methylene chloride	ND		10.0		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Acetone	ND		25.0		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,1,1-Trichlorotrifluoroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,1-Dichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
2,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Bromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Chloroform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Carbon tetrachloride	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-5-120413**

**Lab Sample ID: SWL0026-06**

**Date Collected: 12/04/13 10:27**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
2-Butanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
n-Hexane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,1-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Benzene	ND		0.200		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Trichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Dibromomethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Bromodichloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Toluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Tetrachloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Dibromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,3-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,2-Dibromoethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
2-Hexanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Ethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Chlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
m,p-Xylene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
o-Xylene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Styrene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Bromoform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Isopropylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
n-Propylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Bromobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
2-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
4-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
tert-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
sec-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
p-Isopropyltoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
n-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Hexachlorobutadiene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
Naphthalene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:36	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-5-120413**

**Lab Sample ID: SWL0026-06**

**Date Collected: 12/04/13 10:27**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	103		71.2 - 143	12/06/13 09:05	12/06/13 17:36	1.00
1,2-dichloroethane-d4	105		70 - 140	12/06/13 09:05	12/06/13 17:36	1.00
Toluene-d8	100		74.1 - 135	12/06/13 09:05	12/06/13 17:36	1.00
4-bromofluorobenzene	101		68.7 - 141	12/06/13 09:05	12/06/13 17:36	1.00

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		12/06/13 09:05	12/06/13 17:36	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	103		71.2 - 143	12/06/13 09:05	12/06/13 17:36	1.00
Toluene-d8	100		74.1 - 135	12/06/13 09:05	12/06/13 17:36	1.00
4-bromofluorobenzene	101		68.7 - 141	12/06/13 09:05	12/06/13 17:36	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
1,3-Dichlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
1,4-Dichlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
1,2-Dichlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
1-Methylnaphthalene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
2,4,5-Trichlorophenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:45	1
2,4,6-Trichlorophenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
2,4-Dichlorophenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
2,4-Dimethylphenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
2,4-Dinitrophenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:45	1
2,4-Dinitrotoluene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
2,6-Dinitrotoluene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
2-Chloronaphthalene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
2-Chlorophenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
2-Methylphenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
2-Methylnaphthalene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
2-Nitroaniline	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:45	1
2-Nitrophenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
3 & 4 Methylphenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
3,3'-Dichlorobenzidine	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
3-Nitroaniline	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:45	1
4,6-Dinitro-2-methylphenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:45	1
4-Chloro-3-methylphenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
4-Bromophenyl phenyl ether	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
4-Chloroaniline	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
4-Chlorophenyl phenyl ether	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
4-Nitroaniline	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:45	1
4-Nitrophenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:45	1
Acenaphthene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
Acenaphthylene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
Anthracene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
Benzo[a]anthracene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
Benzo[a]pyrene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
Benzo[b]fluoranthene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
Benzo[g,h,i]perylene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-5-120413**

**Lab Sample ID: SWL0026-06**

Date Collected: 12/04/13 10:27

Matrix: Water

Date Received: 12/05/13 10:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
bis (2-chloroisopropyl) ether	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Carbazole	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Chrysene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
Dibenz(a,h)anthracene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
Dibenzofuran	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Dimethyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Diethyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Di-n-butyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Di-n-octyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Fluorene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
Fluoranthene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
Hexachlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Hexachlorobutadiene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Hexachlorocyclopentadiene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Hexachloroethane	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Indeno[1,2,3-cd]pyrene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
Isophorone	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Naphthalene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
Nitrobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
N-Nitrosodi-n-propylamine	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Pentachlorophenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 20:45	1
Phenanthrene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
Pyrene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 20:45	1
Phenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Cresols	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Bis(2-chloroethoxy)methane	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Bis(2-chloroethyl)ether	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Bis(2-ethylhexyl) phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1
Butyl benzyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	60		27 - 120	12/10/13 07:31	12/10/13 20:45	1
2-Fluorophenol (Surr)	35		10 - 120	12/10/13 07:31	12/10/13 20:45	1
2-Fluorobiphenyl (Surr)	59		29 - 120	12/10/13 07:31	12/10/13 20:45	1
2,4,6-Tribromophenol (Surr)	83		10 - 120	12/10/13 07:31	12/10/13 20:45	1
Phenol-d5 (Surr)	22		10 - 120	12/10/13 07:31	12/10/13 20:45	1
Terphenyl-d14 (Surr)	54		13 - 120	12/10/13 07:31	12/10/13 20:45	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.246		mg/l		12/11/13 08:57	12/11/13 18:28	1.00
Heavy Oil Range Hydrocarbons	ND		0.410		mg/l		12/11/13 08:57	12/11/13 18:28	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	60.6		50 - 150	12/11/13 08:57	12/11/13 18:28	1.00
n-Triacontane-d62	74.2		50 - 150	12/11/13 08:57	12/11/13 18:28	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-5-120413**

**Lab Sample ID: SWL0026-06**

Date Collected: 12/04/13 10:27

Matrix: Water

Date Received: 12/05/13 10:50

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.359		0.00500		mg/L			12/11/13 14:03	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Acetylene (Surr)	84		62 - 124					12/11/13 14:03	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0048		0.0010		mg/L		12/10/13 07:52	12/10/13 14:45	1
Barium	0.13		0.0010		mg/L		12/10/13 07:52	12/10/13 14:45	1
Cadmium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:45	1
Chromium	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:45	1
Copper	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:45	1
Lead	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:45	1
Manganese	1.3		0.020		mg/L		12/10/13 07:52	12/10/13 21:40	10
Selenium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:45	1
Silver	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:45	1
Iron	2.3		0.025		mg/L		12/10/13 07:52	12/10/13 14:45	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:22	1
Barium	0.099		0.0010		mg/L		12/09/13 09:59	12/10/13 01:22	1
Iron	ND		0.025		mg/L		12/09/13 09:59	12/10/13 01:22	1
Silver	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:22	1
Arsenic	0.0032		0.0010		mg/L		12/09/13 09:59	12/10/13 01:22	1
Copper	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 01:22	1
Lead	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:22	1
Selenium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:22	1
Manganese	1.3		0.020		mg/L		12/09/13 09:59	12/10/13 12:54	10
Chromium	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 01:22	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 18:19	12/09/13 22:08	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 15:11	12/09/13 20:48	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		12/05/13 12:29	12/05/13 16:23	1.00
Sulfate	9.20		0.500		mg/l		12/05/13 12:29	12/05/13 16:23	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	390		4.00		mg/l		12/12/13 08:42	12/12/13 17:30	1.00

**Method: SM4500-PE - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.136		0.0600		mg/l		12/12/13 08:43	12/12/13 16:55	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-6-120413**

**Lab Sample ID: SWL0026-07**

**Date Collected: 12/04/13 11:19**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Chloromethane	ND		3.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Vinyl chloride	ND		0.200		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Bromomethane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Chloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Trichlorofluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,1-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Dichlorofluoromethane	ND		0.100		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Carbon disulfide	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Methylene chloride	ND		10.0		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Acetone	ND		25.0		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,1-Dichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
2,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Bromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Chloroform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Carbon tetrachloride	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
2-Butanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
n-Hexane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,1-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Benzene	ND		0.200		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Trichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Dibromomethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Bromodichloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Toluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Tetrachloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Dibromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,3-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,2-Dibromoethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
2-Hexanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Ethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Chlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
m,p-Xylene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
o-Xylene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Styrene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Bromoform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Isopropylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
n-Propylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-6-120413**

**Lab Sample ID: SWL0026-07**

**Date Collected: 12/04/13 11:19**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Bromobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
2-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
4-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
tert-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
sec-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
p-Isopropyltoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
n-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Hexachlorobutadiene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
Naphthalene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 17:59	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		71.2 - 143	12/06/13 09:05	12/06/13 17:59	1.00
1,2-dichloroethane-d4	107		70 - 140	12/06/13 09:05	12/06/13 17:59	1.00
Toluene-d8	101		74.1 - 135	12/06/13 09:05	12/06/13 17:59	1.00
4-bromofluorobenzene	101		68.7 - 141	12/06/13 09:05	12/06/13 17:59	1.00

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		12/06/13 09:05	12/06/13 17:59	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	104		71.2 - 143	12/06/13 09:05	12/06/13 17:59	1.00
Toluene-d8	101		74.1 - 135	12/06/13 09:05	12/06/13 17:59	1.00
4-bromofluorobenzene	101		68.7 - 141	12/06/13 09:05	12/06/13 17:59	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
1,3-Dichlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
1,4-Dichlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
1,2-Dichlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
1-Methylnaphthalene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
2,4,5-Trichlorophenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 21:08	1
2,4,6-Trichlorophenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
2,4-Dichlorophenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
2,4-Dimethylphenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
2,4-Dinitrophenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 21:08	1
2,4-Dinitrotoluene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
2,6-Dinitrotoluene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
 Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-6-120413**

**Lab Sample ID: SWL0026-07**

**Date Collected: 12/04/13 11:19**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
2-Chlorophenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
2-Methylphenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
2-Methylnaphthalene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
2-Nitroaniline	ND		23.6		ug/L		12/10/13 07:31	12/10/13 21:08	1
2-Nitrophenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
3 & 4 Methylphenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
3,3'-Dichlorobenzidine	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
3-Nitroaniline	ND		23.6		ug/L		12/10/13 07:31	12/10/13 21:08	1
4,6-Dinitro-2-methylphenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 21:08	1
4-Chloro-3-methylphenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
4-Bromophenyl phenyl ether	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
4-Chloroaniline	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
4-Chlorophenyl phenyl ether	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
4-Nitroaniline	ND		23.6		ug/L		12/10/13 07:31	12/10/13 21:08	1
4-Nitrophenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 21:08	1
Acenaphthene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Acenaphthylene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Anthracene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Benzo[a]anthracene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Benzo[a]pyrene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Benzo[b]fluoranthene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Benzo[g,h,i]perylene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Benzo[k]fluoranthene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
bis (2-chloroisopropyl) ether	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Carbazole	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Chrysene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Dibenz(a,h)anthracene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Dibenzofuran	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Dimethyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Diethyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Di-n-butyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Di-n-octyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Fluorene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Fluoranthene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Hexachlorobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Hexachlorobutadiene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Hexachlorocyclopentadiene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Hexachloroethane	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Indeno[1,2,3-cd]pyrene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Isophorone	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Naphthalene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Nitrobenzene	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
N-Nitrosodi-n-propylamine	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Pentachlorophenol	ND		23.6		ug/L		12/10/13 07:31	12/10/13 21:08	1
Phenanthrene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Pyrene	ND		1.89		ug/L		12/10/13 07:31	12/10/13 21:08	1
Phenol	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-6-120413**

**Lab Sample ID: SWL0026-07**

Date Collected: 12/04/13 11:19

Matrix: Water

Date Received: 12/05/13 10:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cresols	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Bis(2-chloroethoxy)methane	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Bis(2-chloroethyl)ether	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Bis(2-ethylhexyl) phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
Butyl benzyl phthalate	ND		9.43		ug/L		12/10/13 07:31	12/10/13 21:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	62		27 - 120				12/10/13 07:31	12/10/13 21:08	1
2-Fluorophenol (Surr)	37		10 - 120				12/10/13 07:31	12/10/13 21:08	1
2-Fluorobiphenyl (Surr)	58		29 - 120				12/10/13 07:31	12/10/13 21:08	1
2,4,6-Tribromophenol (Surr)	75		10 - 120				12/10/13 07:31	12/10/13 21:08	1
Phenol-d5 (Surr)	23		10 - 120				12/10/13 07:31	12/10/13 21:08	1
Terphenyl-d14 (Surr)	51		13 - 120				12/10/13 07:31	12/10/13 21:08	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.245		mg/l		12/11/13 08:57	12/11/13 18:50	1.00
Heavy Oil Range Hydrocarbons	ND		0.408		mg/l		12/11/13 08:57	12/11/13 18:50	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-FBP	58.4		50 - 150				12/11/13 08:57	12/11/13 18:50	1.00
n-Triacontane-d62	79.3		50 - 150				12/11/13 08:57	12/11/13 18:50	1.00

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>0.0900</b>		0.00500		mg/L			12/11/13 14:05	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Acetylene (Surr)	83		62 - 124					12/11/13 14:05	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0028</b>		0.0010		mg/L		12/10/13 07:52	12/10/13 14:49	1
<b>Barium</b>	<b>0.11</b>		0.0010		mg/L		12/10/13 07:52	12/10/13 14:49	1
Cadmium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:49	1
Chromium	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:49	1
Copper	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:49	1
Lead	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:49	1
<b>Manganese</b>	<b>1.1</b>		0.020		mg/L		12/10/13 07:52	12/10/13 21:43	10
Selenium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:49	1
Silver	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:49	1
<b>Iron</b>	<b>1.1</b>		0.025		mg/L		12/10/13 07:52	12/10/13 14:49	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:26	1
<b>Barium</b>	<b>0.091</b>		0.0010		mg/L		12/09/13 09:59	12/10/13 01:26	1
Iron	ND		0.025		mg/L		12/09/13 09:59	12/10/13 01:26	1
Silver	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:26	1
<b>Arsenic</b>	<b>0.0018</b>		0.0010		mg/L		12/09/13 09:59	12/10/13 01:26	1
Copper	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 01:26	1

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-6-120413**

**Lab Sample ID: SWL0026-07**

Date Collected: 12/04/13 11:19

Matrix: Water

Date Received: 12/05/13 10:50

**Method: 200.8 - Metals (ICP/MS) - Dissolved (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:26	1
Selenium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:26	1
<b>Manganese</b>	<b>1.1</b>		0.020		mg/L		12/09/13 09:59	12/10/13 12:57	10
Chromium	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 01:26	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 18:19	12/09/13 22:10	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 15:11	12/09/13 20:50	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Nitrate-Nitrogen</b>	<b>0.200</b>		0.200		mg/l		12/05/13 12:29	12/05/13 16:43	1.00
<b>Sulfate</b>	<b>12.5</b>		0.500		mg/l		12/05/13 12:29	12/05/13 16:43	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Alkalinity</b>	<b>340</b>		4.00		mg/l		12/12/13 08:42	12/12/13 17:30	1.00

**Method: SM4500-PE - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	ND		0.0600		mg/l		12/12/13 08:43	12/12/13 16:55	1.00

**Client Sample ID: MW-7-120313**

**Lab Sample ID: SWL0026-08**

Date Collected: 12/03/13 11:59

Matrix: Water

Date Received: 12/05/13 10:50

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Chloromethane	ND		3.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Vinyl chloride	ND		0.200		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Bromomethane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Chloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Trichlorofluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,1-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Dichlorofluoromethane	ND		0.100		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Carbon disulfide	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Methylene chloride	ND		10.0		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Acetone	ND		25.0		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,1-Dichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
2,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Bromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Chloroform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-7-120313**

**Lab Sample ID: SWL0026-08**

**Date Collected: 12/03/13 11:59**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
2-Butanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
n-Hexane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,1-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Benzene	ND		0.200		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Trichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Dibromomethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Bromodichloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Toluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Tetrachloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Dibromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,3-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,2-Dibromoethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
2-Hexanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Ethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Chlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
m,p-Xylene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
o-Xylene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Styrene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Bromoform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Isopropylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
n-Propylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Bromobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
2-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
4-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
tert-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
sec-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
p-Isopropyltoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
n-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Hexachlorobutadiene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
Naphthalene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-7-120313**

**Lab Sample ID: SWL0026-08**

**Date Collected: 12/03/13 11:59**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	107		71.2 - 143				12/06/13 09:05	12/06/13 18:22	1.00
1,2-dichloroethane-d4	108		70 - 140				12/06/13 09:05	12/06/13 18:22	1.00
Toluene-d8	98.9		74.1 - 135				12/06/13 09:05	12/06/13 18:22	1.00
4-bromofluorobenzene	101		68.7 - 141				12/06/13 09:05	12/06/13 18:22	1.00

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		12/06/13 09:05	12/06/13 18:22	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	107		71.2 - 143				12/06/13 09:05	12/06/13 18:22	1.00
Toluene-d8	98.9		74.1 - 135				12/06/13 09:05	12/06/13 18:22	1.00
4-bromofluorobenzene	101		68.7 - 141				12/06/13 09:05	12/06/13 18:22	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
1,3-Dichlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
1,4-Dichlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
1,2-Dichlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
1-Methylnaphthalene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
2,4,5-Trichlorophenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
2,4,6-Trichlorophenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
2,4-Dichlorophenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
2,4-Dimethylphenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
2,4-Dinitrophenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
2,4-Dinitrotoluene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
2,6-Dinitrotoluene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
2-Chloronaphthalene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
2-Chlorophenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
2-Methylphenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
2-Methylnaphthalene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
2-Nitroaniline	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
2-Nitrophenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
3 & 4 Methylphenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
3,3'-Dichlorobenzidine	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
3-Nitroaniline	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
4,6-Dinitro-2-methylphenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
4-Chloro-3-methylphenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
4-Bromophenyl phenyl ether	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
4-Chloroaniline	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
4-Chlorophenyl phenyl ether	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
4-Nitroaniline	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
4-Nitrophenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Acenaphthene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
Acenaphthylene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
Anthracene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-7-120313**

**Lab Sample ID: SWL0026-08**

Date Collected: 12/03/13 11:59

Matrix: Water

Date Received: 12/05/13 10:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
Benzo[a]pyrene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
Benzo[b]fluoranthene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
Benzo[g,h,i]perylene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
Benzo[k]fluoranthene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
bis (2-chloroisopropyl) ether	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Carbazole	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Chrysene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
Dibenz(a,h)anthracene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
Dibenzofuran	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Dimethyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Diethyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Di-n-butyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Di-n-octyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Fluorene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
Fluoranthene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
Hexachlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Hexachlorobutadiene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Hexachlorocyclopentadiene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Hexachloroethane	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Indeno[1,2,3-cd]pyrene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
Isophorone	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Naphthalene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
Nitrobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
N-Nitrosodi-n-propylamine	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Pentachlorophenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Phenanthrene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
Pyrene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 13:44	1
Phenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Cresols	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Bis(2-chloroethoxy)methane	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Bis(2-chloroethyl)ether	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Bis(2-ethylhexyl) phthalate	ND *		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1
Butyl benzyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	70		27 - 120	12/10/13 13:26	12/11/13 13:44	1
2-Fluorophenol (Surr)	45		10 - 120	12/10/13 13:26	12/11/13 13:44	1
2-Fluorobiphenyl (Surr)	68		29 - 120	12/10/13 13:26	12/11/13 13:44	1
2,4,6-Tribromophenol (Surr)	91		10 - 120	12/10/13 13:26	12/11/13 13:44	1
Phenol-d5 (Surr)	29		10 - 120	12/10/13 13:26	12/11/13 13:44	1
Terphenyl-d14 (Surr)	78		13 - 120	12/10/13 13:26	12/11/13 13:44	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-DX**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.242		mg/l		12/11/13 08:57	12/11/13 19:13	1.00
Heavy Oil Range Hydrocarbons	ND		0.403		mg/l		12/11/13 08:57	12/11/13 19:13	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-7-120313**

**Lab Sample ID: SWL0026-08**

Date Collected: 12/03/13 11:59

Matrix: Water

Date Received: 12/05/13 10:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	62.5		50 - 150	12/11/13 08:57	12/11/13 19:13	1.00
n-Triacontane-d62	76.8		50 - 150	12/11/13 08:57	12/11/13 19:13	1.00

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.0870		0.00500		mg/L			12/11/13 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	82		62 - 124		12/11/13 14:17	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.017		0.0010		mg/L		12/10/13 07:52	12/10/13 14:52	1
Barium	0.11		0.0010		mg/L		12/10/13 07:52	12/10/13 14:52	1
Cadmium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:52	1
Chromium	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:52	1
Copper	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:52	1
Lead	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:52	1
Manganese	1.1		0.020		mg/L		12/10/13 07:52	12/10/13 21:46	10
Selenium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:52	1
Silver	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:52	1
Iron	1.0		0.025		mg/L		12/10/13 07:52	12/10/13 14:52	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:32	1
Barium	0.085		0.0010		mg/L		12/09/13 09:59	12/10/13 01:32	1
Iron	ND		0.025		mg/L		12/09/13 09:59	12/10/13 01:32	1
Silver	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:32	1
Arsenic	0.013		0.0010		mg/L		12/09/13 09:59	12/10/13 01:32	1
Copper	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 01:32	1
Lead	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:32	1
Selenium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:32	1
Manganese	1.0		0.020		mg/L		12/09/13 09:59	12/10/13 13:04	10
Chromium	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 01:32	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 18:19	12/09/13 22:13	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 15:11	12/09/13 20:53	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND	H3	0.200		mg/l		12/05/13 12:29	12/05/13 17:03	1.00
Sulfate	6.48		0.500		mg/l		12/05/13 12:29	12/05/13 17:03	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	330		4.00		mg/l		12/12/13 08:42	12/12/13 17:30	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-7-120313**

**Lab Sample ID: SWL0026-08**

Date Collected: 12/03/13 11:59

Matrix: Water

Date Received: 12/05/13 10:50

**Method: SM4500-PE - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.101		0.0600		mg/l		12/12/13 08:43	12/12/13 16:55	1.00

**Client Sample ID: MW-7-120413(11)**

**Lab Sample ID: SWL0026-09**

Date Collected: 12/04/13 08:51

Matrix: Water

Date Received: 12/05/13 10:50

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0087		0.0010		mg/L		12/06/13 18:29	12/09/13 17:29	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0072		0.0010		mg/L		12/09/13 10:28	12/09/13 18:54	1

**Client Sample ID: MW-8-120313**

**Lab Sample ID: SWL0026-10**

Date Collected: 12/03/13 09:28

Matrix: Water

Date Received: 12/05/13 10:50

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Chloromethane	ND		3.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Vinyl chloride	ND		0.200		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Bromomethane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Chloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Trichlorofluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,1-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Dichlorofluoromethane	ND		0.100		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Carbon disulfide	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Methylene chloride	ND		10.0		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Acetone	ND		25.0		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,1-Dichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
2,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Bromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Chloroform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Carbon tetrachloride	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
2-Butanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
n-Hexane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,1-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Benzene	ND		0.200		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Trichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Dibromomethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Bromodichloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-8-120313**

**Lab Sample ID: SWL0026-10**

**Date Collected: 12/03/13 09:28**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Toluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Tetrachloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Dibromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,3-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,2-Dibromoethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
2-Hexanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Ethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Chlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
m,p-Xylene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
o-Xylene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Styrene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Bromoform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Isopropylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
n-Propylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Bromobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
2-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
4-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
tert-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
sec-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
p-Isopropyltoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
n-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Hexachlorobutadiene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
Naphthalene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 18:46	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	105		71.2 - 143	12/06/13 09:05	12/06/13 18:46	1.00
1,2-dichloroethane-d4	107		70 - 140	12/06/13 09:05	12/06/13 18:46	1.00
Toluene-d8	95.0		74.1 - 135	12/06/13 09:05	12/06/13 18:46	1.00
4-bromofluorobenzene	99.8		68.7 - 141	12/06/13 09:05	12/06/13 18:46	1.00

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		12/06/13 09:05	12/06/13 18:46	1.00

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-8-120313**

**Lab Sample ID: SWL0026-10**

**Date Collected: 12/03/13 09:28**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	105		71.2 - 143	12/06/13 09:05	12/06/13 18:46	1.00
Toluene-d8	95.0		74.1 - 135	12/06/13 09:05	12/06/13 18:46	1.00
4-bromofluorobenzene	99.8		68.7 - 141	12/06/13 09:05	12/06/13 18:46	1.00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
1,3-Dichlorobenzene	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
1,4-Dichlorobenzene	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
1,2-Dichlorobenzene	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
1-Methylnaphthalene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
2,4,5-Trichlorophenol	ND		62.5		ug/L		12/10/13 07:31	12/10/13 21:32	1
2,4,6-Trichlorophenol	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
2,4-Dichlorophenol	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
2,4-Dimethylphenol	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
2,4-Dinitrophenol	ND		62.5		ug/L		12/10/13 07:31	12/10/13 21:32	1
2,4-Dinitrotoluene	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
2,6-Dinitrotoluene	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
2-Chloronaphthalene	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
2-Chlorophenol	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
2-Methylphenol	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
2-Methylnaphthalene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
2-Nitroaniline	ND		62.5		ug/L		12/10/13 07:31	12/10/13 21:32	1
2-Nitrophenol	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
3 & 4 Methylphenol	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
3,3'-Dichlorobenzidine	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
3-Nitroaniline	ND		62.5		ug/L		12/10/13 07:31	12/10/13 21:32	1
4,6-Dinitro-2-methylphenol	ND		62.5		ug/L		12/10/13 07:31	12/10/13 21:32	1
4-Chloro-3-methylphenol	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
4-Bromophenyl phenyl ether	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
4-Chloroaniline	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
4-Chlorophenyl phenyl ether	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
4-Nitroaniline	ND		62.5		ug/L		12/10/13 07:31	12/10/13 21:32	1
4-Nitrophenol	ND		62.5		ug/L		12/10/13 07:31	12/10/13 21:32	1
Acenaphthene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Acenaphthylene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Anthracene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Benzo[a]anthracene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Benzo[a]pyrene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Benzo[b]fluoranthene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Benzo[g,h,i]perylene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Benzo[k]fluoranthene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
bis (2-chloroisopropyl) ether	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Carbazole	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Chrysene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Dibenz(a,h)anthracene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Dibenzofuran	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Dimethyl phthalate	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Diethyl phthalate	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Di-n-butyl phthalate	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1

TestAmerica Spokane



# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-8-120313**

**Lab Sample ID: SWL0026-10**

Date Collected: 12/03/13 09:28

Matrix: Water

Date Received: 12/05/13 10:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Fluorene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Fluoranthene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Hexachlorobenzene	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Hexachlorobutadiene	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Hexachlorocyclopentadiene	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Hexachloroethane	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Indeno[1,2,3-cd]pyrene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Isophorone	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Naphthalene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Nitrobenzene	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
N-Nitrosodi-n-propylamine	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Pentachlorophenol	ND		62.5		ug/L		12/10/13 07:31	12/10/13 21:32	1
Phenanthrene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Pyrene	ND		5.00		ug/L		12/10/13 07:31	12/10/13 21:32	1
Phenol	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Cresols	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Bis(2-chloroethoxy)methane	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Bis(2-chloroethyl)ether	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Bis(2-ethylhexyl) phthalate	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Butyl benzyl phthalate	ND		25.0		ug/L		12/10/13 07:31	12/10/13 21:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	59		27 - 120				12/10/13 07:31	12/10/13 21:32	1
2-Fluorophenol (Surr)	52		10 - 120				12/10/13 07:31	12/10/13 21:32	1
2-Fluorobiphenyl (Surr)	55		29 - 120				12/10/13 07:31	12/10/13 21:32	1
2,4,6-Tribromophenol (Surr)	73		10 - 120				12/10/13 07:31	12/10/13 21:32	1
Phenol-d5 (Surr)	43		10 - 120				12/10/13 07:31	12/10/13 21:32	1
Terphenyl-d14 (Surr)	73		13 - 120				12/10/13 07:31	12/10/13 21:32	1

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.241		mg/l		12/11/13 08:57	12/11/13 19:35	1.00
Heavy Oil Range Hydrocarbons	ND		0.401		mg/l		12/11/13 08:57	12/11/13 19:35	1.00
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-FBP	53.8		50 - 150				12/11/13 08:57	12/11/13 19:35	1.00
n-Triacontane-d62	80.0		50 - 150				12/11/13 08:57	12/11/13 19:35	1.00

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	2.86		0.0500		mg/L			12/11/13 14:21	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Acetylene (Surr)	82		62 - 124					12/11/13 14:19	1

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012		0.0010		mg/L		12/10/13 07:52	12/10/13 14:55	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-8-120313**

**Lab Sample ID: SWL0026-10**

Date Collected: 12/03/13 09:28

Matrix: Water

Date Received: 12/05/13 10:50

**Method: 200.8 - Metals (ICP/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.11</b>		0.0010		mg/L		12/10/13 07:52	12/10/13 14:55	1
Cadmium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:55	1
Chromium	ND		0.020		mg/L		12/10/13 07:52	12/10/13 22:45	10
Copper	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:55	1
Lead	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:55	1
<b>Manganese</b>	<b>0.76</b>		0.020		mg/L		12/10/13 07:52	12/10/13 22:45	10
Selenium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:55	1
Silver	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:55	1
<b>Iron</b>	<b>15</b>		0.25		mg/L		12/10/13 07:52	12/10/13 22:45	10

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:36	1
<b>Barium</b>	<b>0.065</b>		0.0010		mg/L		12/09/13 09:59	12/10/13 01:36	1
<b>Iron</b>	<b>3.7</b>		0.025		mg/L		12/09/13 09:59	12/10/13 01:36	1
Silver	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:36	1
<b>Arsenic</b>	<b>0.0045</b>		0.0010		mg/L		12/09/13 09:59	12/10/13 01:36	1
Copper	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 01:36	1
Lead	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:36	1
Selenium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 01:36	1
<b>Manganese</b>	<b>0.73</b>		0.0020		mg/L		12/09/13 09:59	12/10/13 01:36	1
Chromium	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 01:36	1

**Method: 245.1 - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 18:19	12/09/13 22:15	1

**Method: 245.1 - Mercury (CVAA) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 15:11	12/09/13 21:07	1

**Method: EPA 300.0 - Anions by EPA Method 300.0**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND	H3	0.200		mg/l		12/05/13 12:29	12/05/13 17:22	1.00
<b>Sulfate</b>	<b>1.42</b>		0.500		mg/l		12/05/13 12:29	12/05/13 17:22	1.00

**Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Alkalinity</b>	<b>250</b>		4.00		mg/l		12/12/13 08:42	12/12/13 17:30	1.00

**Method: SM4500-PE - Conventional Chemistry Parameters by APHA/EPA Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Phosphorus</b>	<b>0.509</b>		0.0600		mg/l		12/12/13 08:43	12/12/13 16:55	1.00

**Client Sample ID: B-1-120413**

**Lab Sample ID: SWL0026-11**

Date Collected: 12/04/13 14:28

Matrix: Water

Date Received: 12/05/13 10:50

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: B-1-120413**

**Lab Sample ID: SWL0026-11**

**Date Collected: 12/04/13 14:28**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		3.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Vinyl chloride	ND		0.200		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Bromomethane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Chloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Trichlorofluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,1-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Dichlorofluoromethane	ND		0.100		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Carbon disulfide	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Methylene chloride	ND		10.0		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Acetone	ND		25.0		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,1-Dichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
2,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Bromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Chloroform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Carbon tetrachloride	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
2-Butanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
n-Hexane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,1-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Benzene	ND		0.200		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Trichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Dibromomethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Bromodichloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Toluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Tetrachloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Dibromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,3-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,2-Dibromoethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
2-Hexanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Ethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Chlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
m,p-Xylene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
o-Xylene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Styrene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Bromoform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Isopropylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
n-Propylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: B-1-120413**

**Lab Sample ID: SWL0026-11**

**Date Collected: 12/04/13 14:28**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
2-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
4-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
tert-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
sec-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
p-Isopropyltoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
n-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
Hexachlorobutadiene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
<b>Naphthalene</b>	<b>6.23</b>		2.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 19:09	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	110		71.2 - 143	12/06/13 09:05	12/06/13 19:09	1.00
1,2-dichloroethane-d4	107		70 - 140	12/06/13 09:05	12/06/13 19:09	1.00
Toluene-d8	95.9		74.1 - 135	12/06/13 09:05	12/06/13 19:09	1.00
4-bromofluorobenzene	103		68.7 - 141	12/06/13 09:05	12/06/13 19:09	1.00

**Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		12/06/13 09:05	12/06/13 19:09	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	110		71.2 - 143	12/06/13 09:05	12/06/13 19:09	1.00
Toluene-d8	95.9		74.1 - 135	12/06/13 09:05	12/06/13 19:09	1.00
4-bromofluorobenzene	103		68.7 - 141	12/06/13 09:05	12/06/13 19:09	1.00

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Hydrocarbons</b>	<b>1.91</b>		0.241		mg/l		12/11/13 08:57	12/11/13 20:43	1.00
<b>Heavy Oil Range Hydrocarbons</b>	<b>1.37</b>		0.402		mg/l		12/11/13 08:57	12/11/13 20:43	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	54.2		50 - 150	12/11/13 08:57	12/11/13 20:43	1.00
n-Triacontane-d62	70.9		50 - 150	12/11/13 08:57	12/11/13 20:43	1.00

**Method: RSK-175 - Dissolved Gases (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Methane</b>	<b>3.25</b>		0.100		mg/L			12/11/13 14:25	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Acetylene (Surr)	75		62 - 124		12/11/13 14:23	1

TestAmerica Spokane

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: OW-1-120413**

**Lab Sample ID: SWL0026-12**

**Date Collected: 12/04/13 13:37**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		12/06/13 18:29	12/09/13 17:36	1

**Method: 200.8 - Metals (ICP/MS) - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		12/09/13 10:28	12/09/13 19:00	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C

**Lab Sample ID: 13L0037-BLK1**

**Matrix: Water**

**Analysis Batch: 13L0037**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13L0037\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Chloromethane	ND		3.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Vinyl chloride	ND		0.200		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Bromomethane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Chloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Trichlorofluoromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,1-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Dichlorofluoromethane	ND		0.100		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Carbon disulfide	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Methylene chloride	ND		10.0		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Acetone	ND		25.0		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,1,2-Trichlorotrifluoroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,1-Dichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
2,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Bromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Chloroform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Carbon tetrachloride	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
2-Butanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
n-Hexane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,1-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Benzene	ND		0.200		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Trichloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Dibromomethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,2-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Bromodichloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Toluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Tetrachloroethene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Dibromochloromethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,3-Dichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,2-Dibromoethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
2-Hexanone	ND		10.0		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Ethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Chlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
m,p-Xylene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
o-Xylene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Styrene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Bromoform	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Isopropylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)

**Lab Sample ID: 13L0037-BLK1**

**Matrix: Water**

**Analysis Batch: 13L0037**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13L0037\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Propylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Bromobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
2-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
trans-1,4-Dichloro-2-butene	ND		0.100		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
4-Chlorotoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
tert-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
sec-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
p-Isopropyltoluene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
n-Butylbenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Hexachlorobutadiene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
Naphthalene	ND		2.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		12/06/13 09:05	12/06/13 11:23	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	107		71.2 - 143	12/06/13 09:05	12/06/13 11:23	1.00
1,2-dichloroethane-d4	98.7		70 - 140	12/06/13 09:05	12/06/13 11:23	1.00
Toluene-d8	95.3		74.1 - 135	12/06/13 09:05	12/06/13 11:23	1.00
4-bromofluorobenzene	104		68.7 - 141	12/06/13 09:05	12/06/13 11:23	1.00

**Lab Sample ID: 13L0037-BS1**

**Matrix: Water**

**Analysis Batch: 13L0037**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13L0037\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	7.55		ug/l		75.5	60 - 140
Chloromethane	10.0	8.69		ug/l		86.9	60 - 140
Vinyl chloride	10.0	9.38		ug/l		93.8	60 - 140
Bromomethane	10.0	9.39		ug/l		93.9	60 - 140
Chloroethane	10.0	9.58		ug/l		95.8	60 - 140
Trichlorofluoromethane	10.0	10.3		ug/l		103	60 - 140
1,1-Dichloroethene	10.0	9.76		ug/l		97.6	78.1 - 155
Dichlorofluoromethane	10.0	10.6		ug/l		106	60 - 140
Carbon disulfide	10.0	9.05		ug/l		90.5	60 - 140
Methylene chloride	10.0	8.42		ug/l		84.2	60 - 140
Acetone	50.0	46.0		ug/l		92.0	60 - 140
trans-1,2-Dichloroethene	10.0	9.62		ug/l		96.2	60 - 140
Methyl tert-butyl ether	10.0	10.7		ug/l		107	80.1 - 128
1,1,2-Trichlorotrifluoroethane	10.0	9.77		ug/l		97.7	60 - 140
1,1-Dichloroethane	10.0	10.7		ug/l		107	60 - 140

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)

**Lab Sample ID: 13L0037-BS1**

**Matrix: Water**

**Analysis Batch: 13L0037**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13L0037\_P**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
cis-1,2-Dichloroethene	10.0	10.6		ug/l		106	60 - 140
2,2-Dichloropropane	10.0	10.9		ug/l		109	60 - 140
Bromochloromethane	10.0	11.2		ug/l		112	60 - 140
Chloroform	10.0	11.0		ug/l		110	60 - 140
Carbon tetrachloride	10.0	10.8		ug/l		108	60 - 140
1,1,1-Trichloroethane	10.0	10.7		ug/l		107	60 - 140
2-Butanone	50.0	46.8		ug/l		93.6	60 - 140
n-Hexane	10.0	9.61		ug/l		96.1	60 - 140
1,1-Dichloropropene	10.0	10.5		ug/l		105	60 - 140
Benzene	10.0	10.5		ug/l		105	80 - 122
1,2-Dichloroethane (EDC)	10.0	10.7		ug/l		107	63.9 - 144
Trichloroethene	10.0	10.4		ug/l		104	74.8 - 123
Dibromomethane	10.0	10.4		ug/l		104	60 - 140
1,2-Dichloropropane	10.0	10.5		ug/l		105	60 - 140
Bromodichloromethane	10.0	10.9		ug/l		109	60 - 140
cis-1,3-Dichloropropene	10.0	10.6		ug/l		106	60 - 140
Toluene	10.0	9.82		ug/l		98.2	80 - 123
4-Methyl-2-pentanone	50.0	48.3		ug/l		96.6	60 - 140
trans-1,3-Dichloropropene	10.0	10.5		ug/l		105	60 - 140
Tetrachloroethene	10.0	9.27		ug/l		92.7	60 - 140
1,1,2-Trichloroethane	10.0	9.91		ug/l		99.1	60 - 140
Dibromochloromethane	10.0	9.40		ug/l		94.0	60 - 140
1,3-Dichloropropane	10.0	10.0		ug/l		100	60 - 140
1,2-Dibromoethane	10.0	9.14		ug/l		91.4	70 - 130
2-Hexanone	50.0	39.9		ug/l		79.8	60 - 140
Ethylbenzene	10.0	10.0		ug/l		100	80 - 120
Chlorobenzene	10.0	9.81		ug/l		98.1	79.2 - 125
1,1,1,2-Tetrachloroethane	10.0	9.94		ug/l		99.4	60 - 140
m,p-Xylene	10.0	10.3		ug/l		103	80 - 120
o-Xylene	10.0	10.5		ug/l		105	80 - 120
Styrene	10.0	10.1		ug/l		101	60 - 140
Bromoform	10.0	9.03		ug/l		90.3	60 - 140
Isopropylbenzene	10.0	10.2		ug/l		102	60 - 140
n-Propylbenzene	10.0	10.7		ug/l		107	60 - 140
1,1,2,2-Tetrachloroethane	10.0	10.3		ug/l		103	60 - 140
Bromobenzene	10.0	10.5		ug/l		105	60 - 140
1,3,5-Trimethylbenzene	10.0	10.6		ug/l		106	60 - 140
2-Chlorotoluene	10.0	10.8		ug/l		108	60 - 140
1,2,3-Trichloropropane	10.0	11.0		ug/l		110	60 - 140
trans-1,4-Dichloro-2-butene	10.0	11.1		ug/l		111	60 - 140
4-Chlorotoluene	10.0	11.0		ug/l		110	60 - 140
tert-Butylbenzene	10.0	9.87		ug/l		98.7	60 - 140
1,2,4-Trimethylbenzene	10.0	10.8		ug/l		108	60 - 140
sec-Butylbenzene	10.0	10.6		ug/l		106	60 - 140
p-Isopropyltoluene	10.0	10.7		ug/l		107	60 - 140
1,3-Dichlorobenzene	10.0	10.5		ug/l		105	60 - 140
1,4-Dichlorobenzene	10.0	10.3		ug/l		103	60 - 140
n-Butylbenzene	10.0	10.6		ug/l		106	60 - 140

TestAmerica Spokane



# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Method: EPA 8260C - Volatile Organic Compounds by EPA Method 8260C (Continued)

**Lab Sample ID: 13L0037-BS1**

**Matrix: Water**

**Analysis Batch: 13L0037**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13L0037\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.2		ug/l		102	60 - 140
1,2-Dibromo-3-chloropropane	10.0	10.4		ug/l		104	60 - 140
Hexachlorobutadiene	10.0	10.0		ug/l		100	60 - 140
1,2,4-Trichlorobenzene	10.0	8.50		ug/l		85.0	60 - 140
Naphthalene	10.0	8.41		ug/l		84.1	62.8 - 132
1,2,3-Trichlorobenzene	10.0	8.48		ug/l		84.8	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	101		71.2 - 143
1,2-dichloroethane-d4	103		70 - 140
Toluene-d8	97.5		74.1 - 135
4-bromofluorobenzene	103		68.7 - 141

**Lab Sample ID: 13L0037-MS1**

**Matrix: Water**

**Analysis Batch: 13L0037**

**Client Sample ID: Matrix Spike**

**Prep Type: Total**

**Prep Batch: 13L0037\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		10.0	11.9		ug/l		119	50 - 150
Methyl tert-butyl ether	ND		10.0	12.2		ug/l		122	50 - 150
Benzene	ND		10.0	12.2		ug/l		122	50 - 150
Trichloroethene	ND		10.0	12.4		ug/l		124	50 - 150
Toluene	ND		10.0	11.3		ug/l		113	50 - 150
Ethylbenzene	ND		10.0	11.6		ug/l		116	50 - 150
Chlorobenzene	ND		10.0	11.1		ug/l		111	50 - 150
m,p-Xylene	ND		10.0	11.8		ug/l		118	50 - 150
o-Xylene	ND		10.0	11.8		ug/l		118	50 - 150
Naphthalene	ND		10.0	9.54		ug/l		95.4	50 - 150

Surrogate	Matrix Spike %Recovery	Matrix Spike Qualifier	Limits
Dibromofluoromethane	102		71.2 - 143
1,2-dichloroethane-d4	104		70 - 140
Toluene-d8	95.7		74.1 - 135
4-bromofluorobenzene	104		68.7 - 141

## Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx

**Lab Sample ID: 13L0037-BLK1**

**Matrix: Water**

**Analysis Batch: 13L0037**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13L0037\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		100		ug/l		12/06/13 09:05	12/06/13 11:23	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	107		71.2 - 143	12/06/13 09:05	12/06/13 11:23	1.00
Toluene-d8	95.3		74.1 - 135	12/06/13 09:05	12/06/13 11:23	1.00

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Method: NWTPH-Gx - Gasoline Hydrocarbons by NWTPH-Gx (Continued)

**Lab Sample ID: 13L0037-BLK1**  
**Matrix: Water**  
**Analysis Batch: 13L0037**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13L0037\_P**

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-bromofluorobenzene	104		68.7 - 141	12/06/13 09:05	12/06/13 11:23	1.00

**Lab Sample ID: 13L0037-BS2**  
**Matrix: Water**  
**Analysis Batch: 13L0037**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13L0037\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	1000	1030		ug/l		103	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	100		71.2 - 143
Toluene-d8	98.1		74.1 - 135
4-bromofluorobenzene	106		68.7 - 141

**Lab Sample ID: 13L0037-MS2**  
**Matrix: Water**  
**Analysis Batch: 13L0037**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total**  
**Prep Batch: 13L0037\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	63.9		1000	1090		ug/l		102	55.6 - 126

Surrogate	Matrix Spike %Recovery	Matrix Spike Qualifier	Limits
Dibromofluoromethane	98.5		71.2 - 143
Toluene-d8	99.2		74.1 - 135
4-bromofluorobenzene	106		68.7 - 141

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

**Lab Sample ID: MB 490-127705/1-A**  
**Matrix: Water**  
**Analysis Batch: 127884**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 127705**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
1,3-Dichlorobenzene	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
1,4-Dichlorobenzene	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
1,2-Dichlorobenzene	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
1-Methylnaphthalene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
2,4,5-Trichlorophenol	ND		25.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
2,4,6-Trichlorophenol	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
2,4-Dichlorophenol	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
2,4-Dimethylphenol	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
2,4-Dinitrophenol	ND		25.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
2,4-Dinitrotoluene	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
2,6-Dinitrotoluene	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
2-Chloronaphthalene	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
2-Chlorophenol	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

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

**Lab Sample ID: MB 490-127705/1-A**

**Matrix: Water**

**Analysis Batch: 127884**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 127705**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Methylphenol	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
2-Methylnaphthalene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
2-Nitroaniline	ND		25.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
2-Nitrophenol	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
3 & 4 Methylphenol	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
3,3'-Dichlorobenzidine	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
3-Nitroaniline	ND		25.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
4,6-Dinitro-2-methylphenol	ND		25.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
4-Chloro-3-methylphenol	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
4-Bromophenyl phenyl ether	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
4-Chloroaniline	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
4-Chlorophenyl phenyl ether	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
4-Nitroaniline	ND		25.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
4-Nitrophenol	ND		25.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Acenaphthene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Acenaphthylene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Anthracene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Benzo[a]anthracene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Benzo[a]pyrene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Benzo[b]fluoranthene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Benzo[g,h,i]perylene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Benzo[k]fluoranthene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
bis (2-chloroisopropyl) ether	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Carbazole	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Chrysene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Dibenz(a,h)anthracene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Dibenzofuran	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Dimethyl phthalate	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Diethyl phthalate	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Di-n-butyl phthalate	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Di-n-octyl phthalate	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Fluorene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Fluoranthene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Hexachlorobenzene	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Hexachlorobutadiene	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Hexachlorocyclopentadiene	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Hexachloroethane	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Indeno[1,2,3-cd]pyrene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Isophorone	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Naphthalene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Nitrobenzene	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
N-Nitrosodi-n-propylamine	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Pentachlorophenol	ND		25.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Phenanthrene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Pyrene	ND		2.00		ug/L		12/10/13 07:31	12/10/13 17:34	1
Phenol	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

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

**Lab Sample ID: MB 490-127705/1-A**

**Matrix: Water**

**Analysis Batch: 127884**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 127705**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cresols	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Bis(2-chloroethoxy)methane	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Bis(2-chloroethyl)ether	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Bis(2-ethylhexyl) phthalate	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1
Butyl benzyl phthalate	ND		10.0		ug/L		12/10/13 07:31	12/10/13 17:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	58		27 - 120	12/10/13 07:31	12/10/13 17:34	1
2-Fluorophenol (Surr)	37		10 - 120	12/10/13 07:31	12/10/13 17:34	1
2-Fluorobiphenyl (Surr)	54		29 - 120	12/10/13 07:31	12/10/13 17:34	1
2,4,6-Tribromophenol (Surr)	70		10 - 120	12/10/13 07:31	12/10/13 17:34	1
Phenol-d5 (Surr)	23		10 - 120	12/10/13 07:31	12/10/13 17:34	1
Terphenyl-d14 (Surr)	72		13 - 120	12/10/13 07:31	12/10/13 17:34	1

**Lab Sample ID: LCS 490-127705/2-A**

**Matrix: Water**

**Analysis Batch: 127884**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 127705**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	32.23		ug/L		64	30 - 120
1,3-Dichlorobenzene	50.0	23.98		ug/L		48	32 - 120
1,4-Dichlorobenzene	50.0	25.02		ug/L		50	31 - 120
1,2-Dichlorobenzene	50.0	25.61		ug/L		51	32 - 120
1-Methylnaphthalene	50.0	37.67		ug/L		75	36 - 120
2,4,5-Trichlorophenol	50.0	44.49		ug/L		89	40 - 129
2,4,6-Trichlorophenol	50.0	47.32		ug/L		95	39 - 135
2,4-Dichlorophenol	50.0	43.92		ug/L		88	38 - 120
2,4-Dimethylphenol	50.0	39.65		ug/L		79	21 - 126
2,4-Dinitrophenol	100	90.80		ug/L		91	20 - 150
2,4-Dinitrotoluene	50.0	44.67		ug/L		89	46 - 132
2,6-Dinitrotoluene	50.0	45.19		ug/L		90	54 - 128
2-Chloronaphthalene	50.0	38.49		ug/L		77	39 - 120
2-Chlorophenol	50.0	40.47		ug/L		81	40 - 120
2-Methylphenol	50.0	35.84		ug/L		72	38 - 120
2-Methylnaphthalene	50.0	37.26		ug/L		75	31 - 120
2-Nitroaniline	50.0	44.33		ug/L		89	46 - 131
2-Nitrophenol	50.0	49.80		ug/L		100	32 - 120
3 & 4 Methylphenol	50.0	32.31		ug/L		65	33 - 120
3,3'-Dichlorobenzidine	50.0	47.61		ug/L		95	46 - 129
3-Nitroaniline	50.0	42.51		ug/L		85	54 - 121
4,6-Dinitro-2-methylphenol	100	98.08		ug/L		98	19 - 150
4-Chloro-3-methylphenol	50.0	41.87		ug/L		84	44 - 120
4-Bromophenyl phenyl ether	50.0	47.01		ug/L		94	47 - 127
4-Chloroaniline	50.0	39.50		ug/L		79	44 - 120
4-Chlorophenyl phenyl ether	50.0	42.43		ug/L		85	50 - 120
4-Nitroaniline	50.0	43.08		ug/L		86	55 - 123
4-Nitrophenol	100	29.99		ug/L		30	10 - 120
Acenaphthene	50.0	39.41		ug/L		79	46 - 120

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

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

**Lab Sample ID: LCS 490-127705/2-A**

**Matrix: Water**

**Analysis Batch: 127884**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 127705**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	50.0	42.24		ug/L		84	48 - 120
Anthracene	50.0	42.47		ug/L		85	58 - 130
Benzo[a]anthracene	50.0	44.41		ug/L		89	57 - 120
Benzo[a]pyrene	50.0	45.33		ug/L		91	57 - 124
Benzo[b]fluoranthene	50.0	47.99		ug/L		96	51 - 125
Benzo[g,h,i]perylene	50.0	45.63		ug/L		91	51 - 123
Benzo[k]fluoranthene	50.0	42.10		ug/L		84	51 - 120
bis (2-chloroisopropyl) ether	50.0	39.04		ug/L		78	44 - 120
Carbazole	50.0	41.48		ug/L		83	54 - 123
Chrysene	50.0	43.28		ug/L		87	55 - 120
Dibenz(a,h)anthracene	50.0	47.07		ug/L		94	50 - 125
Dibenzofuran	50.0	39.50		ug/L		79	50 - 120
Dimethyl phthalate	50.0	42.15		ug/L		84	53 - 127
Diethyl phthalate	50.0	42.61		ug/L		85	54 - 128
Di-n-butyl phthalate	50.0	48.19		ug/L		96	54 - 140
Di-n-octyl phthalate	50.0	48.15		ug/L		96	50 - 142
Fluorene	50.0	41.25		ug/L		83	52 - 120
Fluoranthene	50.0	44.95		ug/L		90	56 - 120
Hexachlorobenzene	50.0	44.22		ug/L		88	48 - 131
Hexachlorobutadiene	50.0	26.73		ug/L		53	28 - 120
Hexachlorocyclopentadiene	50.0	37.23		ug/L		74	17 - 120
Hexachloroethane	50.0	23.54		ug/L		47	30 - 120
Indeno[1,2,3-cd]pyrene	50.0	45.94		ug/L		92	54 - 125
Isophorone	50.0	43.08		ug/L		86	47 - 120
Naphthalene	50.0	33.28		ug/L		67	37 - 120
Nitrobenzene	50.0	40.75		ug/L		81	36 - 120
N-Nitrosodi-n-propylamine	50.0	39.65		ug/L		79	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	50.0	52.84		ug/L		106	58 - 149
Pentachlorophenol	100	96.47		ug/L		96	21 - 150
Phenanthrene	50.0	40.00		ug/L		80	56 - 120
Pyrene	50.0	44.72		ug/L		89	53 - 129
Phenol	50.0	16.45		ug/L		33	14 - 120
Bis(2-chloroethoxy)methane	50.0	42.77		ug/L		86	44 - 120
Bis(2-chloroethyl)ether	50.0	41.36		ug/L		83	47 - 120
Bis(2-ethylhexyl) phthalate	50.0	46.88		ug/L		94	47 - 138
Butyl benzyl phthalate	50.0	47.10		ug/L		94	51 - 146

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	81		27 - 120
2-Fluorophenol (Surr)	48		10 - 120
2-Fluorobiphenyl (Surr)	76		29 - 120
2,4,6-Tribromophenol (Surr)	100		10 - 120
Phenol-d5 (Surr)	30		10 - 120
Terphenyl-d14 (Surr)	86		13 - 120

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

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

**Lab Sample ID: MB 490-127857/1-A**

**Matrix: Water**

**Analysis Batch: 128007**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 127857**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
1,3-Dichlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
1,4-Dichlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
1,2-Dichlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
1-Methylnaphthalene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
2,4,5-Trichlorophenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
2,4,6-Trichlorophenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
2,4-Dichlorophenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
2,4-Dimethylphenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
2,4-Dinitrophenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
2,4-Dinitrotoluene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
2,6-Dinitrotoluene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
2-Chloronaphthalene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
2-Chlorophenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
2-Methylphenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
2-Methylnaphthalene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
2-Nitroaniline	ND		25.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
2-Nitrophenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
3 & 4 Methylphenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
3,3'-Dichlorobenzidine	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
3-Nitroaniline	ND		25.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
4,6-Dinitro-2-methylphenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
4-Chloro-3-methylphenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
4-Bromophenyl phenyl ether	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
4-Chloroaniline	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
4-Chlorophenyl phenyl ether	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
4-Nitroaniline	ND		25.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
4-Nitrophenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Acenaphthene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Acenaphthylene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Anthracene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Benzo[a]anthracene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Benzo[a]pyrene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Benzo[b]fluoranthene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Benzo[g,h,i]perylene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Benzo[k]fluoranthene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
bis (2-chloroisopropyl) ether	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Carbazole	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Chrysene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Dibenz(a,h)anthracene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Dibenzofuran	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Dimethyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Diethyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Di-n-butyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Di-n-octyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Fluorene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Fluoranthene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Hexachlorobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

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

**Lab Sample ID: MB 490-127857/1-A**

**Matrix: Water**

**Analysis Batch: 128007**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 127857**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Hexachlorobutadiene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Hexachlorocyclopentadiene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Hexachloroethane	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Indeno[1,2,3-cd]pyrene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Isophorone	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Naphthalene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Nitrobenzene	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
N-Nitrosodi-n-propylamine	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Pentachlorophenol	ND		25.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Phenanthrene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Pyrene	ND		2.00		ug/L		12/10/13 13:26	12/11/13 12:36	1
Phenol	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Cresols	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Bis(2-chloroethoxy)methane	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Bis(2-chloroethyl)ether	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Bis(2-ethylhexyl) phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1
Butyl benzyl phthalate	ND		10.0		ug/L		12/10/13 13:26	12/11/13 12:36	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5 (Surr)	69		27 - 120	12/10/13 13:26	12/11/13 12:36	1
2-Fluorophenol (Surr)	51		10 - 120	12/10/13 13:26	12/11/13 12:36	1
2-Fluorobiphenyl (Surr)	63		29 - 120	12/10/13 13:26	12/11/13 12:36	1
2,4,6-Tribromophenol (Surr)	88		10 - 120	12/10/13 13:26	12/11/13 12:36	1
Phenol-d5 (Surr)	32		10 - 120	12/10/13 13:26	12/11/13 12:36	1
Terphenyl-d14 (Surr)	83		13 - 120	12/10/13 13:26	12/11/13 12:36	1

**Lab Sample ID: LCS 490-127857/2-A**

**Matrix: Water**

**Analysis Batch: 128007**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 127857**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,2,4-Trichlorobenzene	40.0	22.86		ug/L		57	30 - 120
1,3-Dichlorobenzene	40.0	19.64		ug/L		49	32 - 120
1,4-Dichlorobenzene	40.0	20.61		ug/L		52	31 - 120
1,2-Dichlorobenzene	40.0	21.15		ug/L		53	32 - 120
1-Methylnaphthalene	40.0	23.82		ug/L		60	36 - 120
2,4,5-Trichlorophenol	40.0	34.78		ug/L		87	40 - 129
2,4,6-Trichlorophenol	40.0	36.52		ug/L		91	39 - 135
2,4-Dichlorophenol	40.0	32.86		ug/L		82	38 - 120
2,4-Dimethylphenol	40.0	34.09		ug/L		85	21 - 126
2,4-Dinitrophenol	80.0	64.21		ug/L		80	20 - 150
2,4-Dinitrotoluene	40.0	35.42		ug/L		89	46 - 132
2,6-Dinitrotoluene	40.0	33.67		ug/L		84	54 - 128
2-Chloronaphthalene	40.0	24.61		ug/L		62	39 - 120
2-Chlorophenol	40.0	31.04		ug/L		78	40 - 120
2-Methylphenol	40.0	30.25		ug/L		76	38 - 120

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

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

**Lab Sample ID: LCS 490-127857/2-A**

**Matrix: Water**

**Analysis Batch: 128007**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 127857**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	40.0	23.16		ug/L		58	31 - 120
2-Nitroaniline	40.0	32.56		ug/L		81	46 - 131
2-Nitrophenol	40.0	32.17		ug/L		80	32 - 120
3 & 4 Methylphenol	40.0	27.38		ug/L		68	33 - 120
3,3'-Dichlorobenzidine	40.0	37.91		ug/L		95	46 - 129
3-Nitroaniline	40.0	33.79		ug/L		84	54 - 121
4,6-Dinitro-2-methylphenol	80.0	70.72		ug/L		88	19 - 150
4-Chloro-3-methylphenol	40.0	32.64		ug/L		82	44 - 120
4-Bromophenyl phenyl ether	40.0	32.22		ug/L		81	47 - 127
4-Chloroaniline	40.0	32.11		ug/L		80	44 - 120
4-Chlorophenyl phenyl ether	40.0	28.90		ug/L		72	50 - 120
4-Nitroaniline	40.0	35.92		ug/L		90	55 - 123
4-Nitrophenol	80.0	28.68		ug/L		36	10 - 120
Acenaphthene	40.0	27.64		ug/L		69	46 - 120
Acenaphthylene	40.0	29.25		ug/L		73	48 - 120
Anthracene	40.0	33.77		ug/L		84	58 - 130
Benzo[a]anthracene	40.0	33.89		ug/L		85	57 - 120
Benzo[a]pyrene	40.0	33.26		ug/L		83	57 - 124
Benzo[b]fluoranthene	40.0	32.91		ug/L		82	51 - 125
Benzo[g,h,i]perylene	40.0	30.89		ug/L		77	51 - 123
Benzo[k]fluoranthene	40.0	35.23		ug/L		88	51 - 120
bis (2-chloroisopropyl) ether	40.0	26.74		ug/L		67	44 - 120
Carbazole	40.0	35.49		ug/L		89	54 - 123
Chrysene	40.0	37.54		ug/L		94	55 - 120
Dibenz(a,h)anthracene	40.0	32.18		ug/L		80	50 - 125
Dibenzofuran	40.0	29.22		ug/L		73	50 - 120
Dimethyl phthalate	40.0	33.17		ug/L		83	53 - 127
Diethyl phthalate	40.0	32.43		ug/L		81	54 - 128
Di-n-butyl phthalate	40.0	34.06		ug/L		85	54 - 140
Di-n-octyl phthalate	40.0	31.56		ug/L		79	50 - 142
Fluorene	40.0	30.45		ug/L		76	52 - 120
Fluoranthene	40.0	36.26		ug/L		91	56 - 120
Hexachlorobenzene	40.0	34.57		ug/L		86	48 - 131
Hexachlorobutadiene	40.0	18.38		ug/L		46	28 - 120
Hexachlorocyclopentadiene	40.0	19.64		ug/L		49	17 - 120
Hexachloroethane	40.0	17.67		ug/L		44	30 - 120
Indeno[1,2,3-cd]pyrene	40.0	30.62		ug/L		77	54 - 125
Isophorone	40.0	30.01		ug/L		75	47 - 120
Naphthalene	40.0	25.50		ug/L		64	37 - 120
Nitrobenzene	40.0	29.66		ug/L		74	36 - 120
N-Nitrosodi-n-propylamine	40.0	29.89		ug/L		75	51 - 120
n-Nitrosodiphenylamine(as diphenylamine)	40.0	39.79		ug/L		99	58 - 149
Pentachlorophenol	80.0	90.38		ug/L		113	21 - 150
Phenanthrene	40.0	33.34		ug/L		83	56 - 120
Pyrene	40.0	31.37		ug/L		78	53 - 129
Phenol	40.0	16.19		ug/L		40	14 - 120
Bis(2-chloroethoxy)methane	40.0	29.85		ug/L		75	44 - 120

TestAmerica Spokane



# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

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

**Lab Sample ID: LCS 490-127857/2-A**

**Matrix: Water**

**Analysis Batch: 128007**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 127857**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethyl)ether	40.0	30.49		ug/L		76	47 - 120
Bis(2-ethylhexyl) phthalate	40.0	109.6	E *	ug/L		274	47 - 138
Butyl benzyl phthalate	40.0	32.86		ug/L		82	51 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	77		27 - 120
2-Fluorophenol (Surr)	55		10 - 120
2-Fluorobiphenyl (Surr)	69		29 - 120
2,4,6-Tribromophenol (Surr)	100		10 - 120
Phenol-d5 (Surr)	37		10 - 120
Terphenyl-d14 (Surr)	89		13 - 120

## Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

**Lab Sample ID: 13L0055-BLK1**

**Matrix: Water**

**Analysis Batch: 13L0055**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13L0055\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.250		mg/l		12/11/13 08:57	12/11/13 15:25	1.00
Heavy Oil Range Hydrocarbons	ND		0.400		mg/l		12/11/13 08:57	12/11/13 15:25	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	66.5		50 - 150	12/11/13 08:57	12/11/13 15:25	1.00
n-Triacontane-d62	80.1		50 - 150	12/11/13 08:57	12/11/13 15:25	1.00

**Lab Sample ID: 13L0055-BS1**

**Matrix: Water**

**Analysis Batch: 13L0055**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13L0055\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Hydrocarbons	3.20	1.97		mg/l		61.6	54.5 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-FBP	64.5		50 - 150
n-Triacontane-d62	79.7		50 - 150

## Method: RSK-175 - Dissolved Gases (GC)

**Lab Sample ID: MB 490-128060/4**

**Matrix: Water**

**Analysis Batch: 128060**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		0.00500		mg/L			12/11/13 10:50	1

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Method: RSK-175 - Dissolved Gases (GC) (Continued)

**Lab Sample ID: MB 490-128060/4**

**Matrix: Water**

**Analysis Batch: 128060**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Acetylene (Surr)	96		62 - 124		12/11/13 10:50	1

**Lab Sample ID: LCS 490-128060/5**

**Matrix: Water**

**Analysis Batch: 128060**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Acetylene (Surr)	89		62 - 124

**Lab Sample ID: LCSD 490-128060/6**

**Matrix: Water**

**Analysis Batch: 128060**

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

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Acetylene (Surr)	84		62 - 124

**Lab Sample ID: 310-21049-K-2 MS**

**Matrix: Water**

**Analysis Batch: 128060**

**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

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Acetylene (Surr)	84		62 - 124

**Lab Sample ID: 310-21049-K-2 MSD**

**Matrix: Water**

**Analysis Batch: 128060**

**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

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Acetylene (Surr)	78		62 - 124

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Method: 200.8 - Metals (ICP/MS)

**Lab Sample ID: MB 250-22680/1-A**  
**Matrix: Water**  
**Analysis Batch: 22735**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 22680**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		12/06/13 18:29	12/09/13 17:12	1

**Lab Sample ID: LCS 250-22680/2-A**  
**Matrix: Water**  
**Analysis Batch: 22735**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 22680**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.106		mg/L		106	85 - 115

**Lab Sample ID: 250-15952-9 MS**  
**Matrix: Water**  
**Analysis Batch: 22735**

**Client Sample ID: SWL0026-09**  
**Prep Type: Total/NA**  
**Prep Batch: 22680**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0087		0.100	0.115		mg/L		106	70 - 130

**Lab Sample ID: 250-15967-A-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 22735**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 22680**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0028		0.100	0.111		mg/L		108	70 - 130

**Lab Sample ID: 250-15952-3 DU**  
**Matrix: Water**  
**Analysis Batch: 22735**

**Client Sample ID: SWL0026-03**  
**Prep Type: Total/NA**  
**Prep Batch: 22680**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0061		0.00566		mg/L		8	20

**Lab Sample ID: MB 250-22695/1-A**  
**Matrix: Water**  
**Analysis Batch: 22746**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 22695**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 00:16	1
Barium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 00:16	1
Iron	ND		0.025		mg/L		12/09/13 09:59	12/10/13 00:16	1
Silver	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 00:16	1
Arsenic	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 00:16	1
Copper	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 00:16	1
Lead	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 00:16	1
Selenium	ND		0.0010		mg/L		12/09/13 09:59	12/10/13 00:16	1
Manganese	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 00:16	1
Chromium	ND		0.0020		mg/L		12/09/13 09:59	12/10/13 00:16	1

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Method: 200.8 - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 250-22695/2-A**  
**Matrix: Water**  
**Analysis Batch: 22746**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 22695**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.100	0.0930		mg/L		93	85 - 115
Barium	0.100	0.0938		mg/L		94	85 - 115
Iron	2.00	2.09		mg/L		104	85 - 115
Silver	0.0500	0.0490		mg/L		98	85 - 115
Arsenic	0.100	0.103		mg/L		103	85 - 115
Copper	0.100	0.0984		mg/L		98	85 - 115
Lead	0.100	0.0912		mg/L		91	85 - 115
Selenium	0.100	0.102		mg/L		102	85 - 115
Manganese	0.100	0.108		mg/L		108	85 - 115
Chromium	0.100	0.108		mg/L		108	85 - 115

**Lab Sample ID: 250-15975-G-1-B DU**  
**Matrix: Water**  
**Analysis Batch: 22746**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 22695**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cadmium	ND		ND		mg/L		NC	20
Barium	0.0024		0.00246		mg/L		1	20
Iron	0.077		0.0750		mg/L		3	20
Silver	ND		ND		mg/L		NC	20
Arsenic	ND		ND		mg/L		NC	20
Copper	0.023		0.0224		mg/L		1	20
Lead	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Manganese	0.0025		0.00249		mg/L		1	20
Chromium	ND		ND		mg/L		NC	20

**Lab Sample ID: MB 250-22698/1-A**  
**Matrix: Water**  
**Analysis Batch: 22735**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 22698**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010		mg/L		12/09/13 10:28	12/09/13 18:40	1

**Lab Sample ID: LCS 250-22698/2-A**  
**Matrix: Water**  
**Analysis Batch: 22735**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 22698**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.105		mg/L		105	85 - 115

**Lab Sample ID: MB 250-22737/1-A**  
**Matrix: Water**  
**Analysis Batch: 22770**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 22737**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:25	1
Barium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:25	1
Iron	ND		0.025		mg/L		12/10/13 07:52	12/10/13 14:25	1

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Method: 200.8 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 250-22737/1-A**  
**Matrix: Water**  
**Analysis Batch: 22770**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 22737**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:25	1
Arsenic	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:25	1
Copper	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:25	1
Lead	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:25	1
Selenium	ND		0.0010		mg/L		12/10/13 07:52	12/10/13 14:25	1
Manganese	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:25	1
Chromium	ND		0.0020		mg/L		12/10/13 07:52	12/10/13 14:25	1

**Lab Sample ID: LCS 250-22737/2-A**  
**Matrix: Water**  
**Analysis Batch: 22770**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 22737**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.100	0.101		mg/L		101	85 - 115
Barium	0.100	0.105		mg/L		105	85 - 115
Iron	2.00	2.07		mg/L		104	85 - 115
Silver	0.0500	0.0507		mg/L		101	85 - 115
Arsenic	0.100	0.104		mg/L		104	85 - 115
Copper	0.100	0.105		mg/L		105	85 - 115
Lead	0.100	0.106		mg/L		106	85 - 115
Selenium	0.100	0.101		mg/L		101	85 - 115
Manganese	0.100	0.109		mg/L		109	85 - 115
Chromium	0.100	0.106		mg/L		106	85 - 115

**Lab Sample ID: 250-15991-B-2-B MS**  
**Matrix: Water**  
**Analysis Batch: 22780**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 22737**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	ND		0.100	0.0978		mg/L		93	70 - 130
Barium	0.023		0.100	0.126		mg/L		103	70 - 130
Iron	7.4		2.00	9.62		mg/L		113	70 - 130
Silver	ND		0.0500	0.0509		mg/L		94	70 - 130
Arsenic	0.021		0.100	0.133		mg/L		112	70 - 130
Copper	0.19		0.100	0.292		mg/L		100	70 - 130
Lead	0.010		0.100	0.107		mg/L		96	70 - 130
Selenium	ND		0.100	0.114		mg/L		111	70 - 130
Manganese	0.44		0.100	0.560	4	mg/L		115	70 - 130
Chromium	0.93		0.100	1.08	4	mg/L		143	70 - 130

**Lab Sample ID: 250-15952-10 DU**  
**Matrix: Water**  
**Analysis Batch: 22770**

**Client Sample ID: SWL0026-10**  
**Prep Type: Total/NA**  
**Prep Batch: 22737**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cadmium	ND		ND		mg/L		NC	20
Barium	0.11		0.114		mg/L		2	20
Silver	ND		ND		mg/L		NC	20
Arsenic	0.012		0.0118		mg/L		0.2	20

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Method: 200.8 - Metals (ICP/MS) (Continued)

**Lab Sample ID: 250-15952-10 DU**  
**Matrix: Water**  
**Analysis Batch: 22770**

**Client Sample ID: SWL0026-10**  
**Prep Type: Total/NA**  
**Prep Batch: 22737**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Copper	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20

**Lab Sample ID: 250-15952-10 DU**  
**Matrix: Water**  
**Analysis Batch: 22780**

**Client Sample ID: SWL0026-10**  
**Prep Type: Total/NA**  
**Prep Batch: 22737**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Iron	15		15.4		mg/L		0.8	20
Manganese	0.76		0.757		mg/L		0.01	20
Chromium	ND		ND		mg/L		NC	20

**Lab Sample ID: 250-15952-7 MS**  
**Matrix: Water**  
**Analysis Batch: 22746**

**Client Sample ID: SWL0026-07**  
**Prep Type: Dissolved**  
**Prep Batch: 22695**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Cadmium	ND		0.100	0.0974		mg/L		97	70 - 130
Barium	0.091		0.100	0.185		mg/L		95	70 - 130
Iron	ND		2.00	2.09		mg/L		104	70 - 130
Silver	ND		0.0500	0.0488		mg/L		98	70 - 130
Arsenic	0.0018		0.100	0.106		mg/L		104	70 - 130
Copper	ND		0.100	0.0928		mg/L		93	70 - 130
Lead	ND		0.100	0.0868		mg/L		87	70 - 130
Selenium	ND		0.100	0.0992		mg/L		99	70 - 130
Chromium	ND		0.100	0.108		mg/L		108	70 - 130

**Lab Sample ID: 250-15952-7 MS**  
**Matrix: Water**  
**Analysis Batch: 22770**

**Client Sample ID: SWL0026-07**  
**Prep Type: Dissolved**  
**Prep Batch: 22695**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Manganese	1.1		0.100	1.24	4	mg/L		120	70 - 130

**Lab Sample ID: 250-15952-9 MS**  
**Matrix: Water**  
**Analysis Batch: 22735**

**Client Sample ID: SWL0026-09**  
**Prep Type: Dissolved**  
**Prep Batch: 22698**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Arsenic	0.0072		0.100	0.116		mg/L		108	70 - 130

**Lab Sample ID: 250-15952-3 DU**  
**Matrix: Water**  
**Analysis Batch: 22735**

**Client Sample ID: SWL0026-03**  
**Prep Type: Dissolved**  
**Prep Batch: 22698**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	0.0040		0.00402		mg/L		1	20

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Method: 245.1 - Mercury (CVAA)

**Lab Sample ID: LCS 250-22722/12-A**

**Matrix: Water**

**Analysis Batch: 22736**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 22722**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00497		mg/L		99	85 - 115

**Lab Sample ID: MB 250-22733/1-A**

**Matrix: Water**

**Analysis Batch: 22736**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 22733**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 18:19	12/09/13 21:41	1

**Lab Sample ID: LCS 250-22733/2-A**

**Matrix: Water**

**Analysis Batch: 22736**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 22733**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00471		mg/L		94	85 - 115

**Lab Sample ID: 250-15952-5 MS**

**Matrix: Water**

**Analysis Batch: 22736**

**Client Sample ID: SWL0026-05**

**Prep Type: Total/NA**

**Prep Batch: 22733**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00500	0.00471		mg/L		94	75 - 125

**Lab Sample ID: 250-15952-5 MSD**

**Matrix: Water**

**Analysis Batch: 22736**

**Client Sample ID: SWL0026-05**

**Prep Type: Total/NA**

**Prep Batch: 22733**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00500	0.00472		mg/L		94	75 - 125	0	20

**Lab Sample ID: MB 250-22685/1-B**

**Matrix: Water**

**Analysis Batch: 22736**

**Client Sample ID: Method Blank**

**Prep Type: Dissolved**

**Prep Batch: 22722**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		12/09/13 15:11	12/09/13 20:32	1

**Lab Sample ID: 250-15952-8 MS**

**Matrix: Water**

**Analysis Batch: 22736**

**Client Sample ID: SWL0026-08**

**Prep Type: Dissolved**

**Prep Batch: 22722**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00500	0.00474		mg/L		95	75 - 125

**Lab Sample ID: 250-15952-8 MSD**

**Matrix: Water**

**Analysis Batch: 22736**

**Client Sample ID: SWL0026-08**

**Prep Type: Dissolved**

**Prep Batch: 22722**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00500	0.00460		mg/L		92	75 - 125	3	20

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Method: EPA 300.0 - Anions by EPA Method 300.0

**Lab Sample ID: 13L0029-BLK1**  
**Matrix: Water**  
**Analysis Batch: 13L0029**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13L0029\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		12/05/13 10:09	12/05/13 15:05	1.00
Sulfate	ND		0.500		mg/l		12/05/13 10:09	12/05/13 15:05	1.00

**Lab Sample ID: 13L0029-BS1**  
**Matrix: Water**  
**Analysis Batch: 13L0029**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13L0029\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	5.37		mg/l		107	90 - 110
Sulfate	12.5	13.0		mg/l		104	90 - 110

**Lab Sample ID: 13L0029-MS1**  
**Matrix: Water**  
**Analysis Batch: 13L0029**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total**  
**Prep Batch: 13L0029\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	0.780		5.00	6.02		mg/l		105	80 - 120
Sulfate	0.360		12.5	12.3		mg/l		95.4	80 - 120

**Lab Sample ID: 13L0029-MSD1**  
**Matrix: Water**  
**Analysis Batch: 13L0029**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13L0029\_P**

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate-Nitrogen	0.780		5.00	6.11		mg/l		107	80 - 120	1.48	12.1
Sulfate	0.360		12.5	12.4		mg/l		96.6	80 - 120	1.13	10

**Lab Sample ID: 13L0029-DUP1**  
**Matrix: Water**  
**Analysis Batch: 13L0029**

**Client Sample ID: Duplicate**  
**Prep Type: Total**  
**Prep Batch: 13L0029\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate-Nitrogen	0.780		0.810		mg/l		3.77	13.1
Sulfate	0.360		0.330		mg/l		8.70	15.7

## Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods

**Lab Sample ID: 13L0063-BLK1**  
**Matrix: Water**  
**Analysis Batch: 13L0063**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13L0063\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		4.00		mg/l		12/12/13 08:42	12/12/13 17:30	1.00

TestAmerica Spokane



# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Method: SM 2320B - Conventional Chemistry Parameters by APHA/EPA Methods (Continued)

**Lab Sample ID: 13L0063-BS1**  
**Matrix: Water**  
**Analysis Batch: 13L0063**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 13L0063\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Alkalinity	500	475		mg/l		95.0	90 - 110

**Lab Sample ID: 13L0063-DUP1**  
**Matrix: Water**  
**Analysis Batch: 13L0063**

**Client Sample ID: MW-1-120313**  
**Prep Type: Total**  
**Prep Batch: 13L0063\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Total Alkalinity	325		325		mg/l		0.00	10

## Method: SM4500-PE - Conventional Chemistry Parameters by APHA/EPA Methods

**Lab Sample ID: 13L0064-BLK1**  
**Matrix: Water**  
**Analysis Batch: 13L0064**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 13L0064\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	ND		0.0600		mg/l		12/12/13 08:43	12/12/13 16:55	1.00

**Lab Sample ID: 13L0064-DUP1**  
**Matrix: Water**  
**Analysis Batch: 13L0064**

**Client Sample ID: MW-1-120313**  
**Prep Type: Total**  
**Prep Batch: 13L0064\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Phosphorus	0.0341		ND		mg/l			20

# Lab Chronicle

Client: Geo Engineers - Spokane  
 Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-1-120313**

**Lab Sample ID: SWL0026-01**

**Date Collected: 12/03/13 10:48**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	13L0037_P	12/06/13 09:05	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	13L0037	12/06/13 16:03	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0037	12/06/13 16:03	CBW	TAL SPK
Total/NA	Prep	3510C			127857	12/10/13 13:26	LSR	TAL NSH
Total/NA	Analysis	8270C		1	128007	12/11/13 13:21	BES	TAL NSH
Total	Prep	EPA 3510/600 Series		0.992	13L0055_P	12/11/13 08:57	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0055	12/11/13 16:58	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	128060	12/11/13 13:53	MGH	TAL NSH
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Prep	245.1			22722	12/09/13 15:11	LQN	TAL PRT
Dissolved	Analysis	245.1		1	22736	12/09/13 20:38	LQN	TAL PRT
Total/NA	Prep	245.1			22733	12/09/13 18:19	LQN	TAL PRT
Total/NA	Analysis	245.1		1	22736	12/09/13 21:47	LQN	TAL PRT
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Prep	200.8			22695	12/09/13 09:59	KTN	TAL PRT
Dissolved	Analysis	200.8		1	22746	12/10/13 00:46	TNL	TAL PRT
Total/NA	Prep	200.8			22737	12/10/13 07:52	KTN	TAL PRT
Total/NA	Analysis	200.8		1	22770	12/10/13 14:32	AJH	TAL PRT
Total	Prep	Wet Chem		1.00	13L0063_P	12/12/13 08:42	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13L0063	12/12/13 17:30	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13L0064_P	12/12/13 08:43	JSP	TAL SPK
Total	Analysis	SM4500-PE		1.00	13L0064	12/12/13 16:55	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13L0029_P	12/05/13 12:29	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13L0029	12/05/13 15:24	CBW	TAL SPK

**Client Sample ID: MW-2-120313**

**Lab Sample ID: SWL0026-02**

**Date Collected: 12/03/13 14:19**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	13L0037_P	12/06/13 09:05	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	13L0037	12/06/13 16:26	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0037	12/06/13 16:26	CBW	TAL SPK
Total/NA	Prep	3510C			127705	12/10/13 07:31	RCH	TAL NSH
Total/NA	Analysis	8270C		1	127884	12/10/13 19:33	KJP	TAL NSH
Total	Prep	EPA 3510/600 Series		1.03	13L0055_P	12/11/13 08:57	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0055	12/11/13 17:21	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	128060	12/11/13 13:55	MGH	TAL NSH
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Prep	245.1			22722	12/09/13 15:11	LQN	TAL PRT
Dissolved	Analysis	245.1		1	22736	12/09/13 20:40	LQN	TAL PRT
Total/NA	Prep	245.1			22733	12/09/13 18:19	LQN	TAL PRT
Total/NA	Analysis	245.1		1	22736	12/09/13 21:49	LQN	TAL PRT

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-2-120313**

**Lab Sample ID: SWL0026-02**

**Date Collected: 12/03/13 14:19**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Prep	200.8			22695	12/09/13 09:59	KTN	TAL PRT
Dissolved	Analysis	200.8		1	22746	12/10/13 01:12	TNL	TAL PRT
Total/NA	Prep	200.8			22737	12/10/13 07:52	KTN	TAL PRT
Total/NA	Analysis	200.8		1	22770	12/10/13 14:35	AJH	TAL PRT
Total	Prep	Wet Chem		1.00	13L0063_P	12/12/13 08:42	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13L0063	12/12/13 17:30	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13L0029_P	12/05/13 12:29	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13L0029	12/05/13 12:47	CBW	TAL SPK
Total	Prep	Wet Chem		1.00	13L0064_P	12/12/13 08:43	JSP	TAL SPK
Total	Analysis	SM4500-PE		1.00	13L0064	12/12/13 16:55	JSP	TAL SPK

**Client Sample ID: MW-2-120413(16)**

**Lab Sample ID: SWL0026-03**

**Date Collected: 12/04/13 07:59**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			22680	12/06/13 18:29	TNL	TAL PRT
Total/NA	Analysis	200.8		1	22735	12/09/13 17:19	TNL	TAL PRT
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Prep	200.8			22698	12/09/13 10:28	KTN	TAL PRT
Dissolved	Analysis	200.8		1	22735	12/09/13 18:47	TNL	TAL PRT

**Client Sample ID: MW-3-120413**

**Lab Sample ID: SWL0026-04**

**Date Collected: 12/04/13 12:09**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	NWTPH-Gx		1.00	13L0037	12/06/13 16:49	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	13L0037_P	12/06/13 09:05	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0037	12/06/13 16:49	CBW	TAL SPK
Total/NA	Prep	3510C			127705	12/10/13 07:31	RCH	TAL NSH
Total/NA	Analysis	8270C		1	127884	12/10/13 19:57	KJP	TAL NSH
Total	Prep	EPA 3510/600 Series		0.994	13L0055_P	12/11/13 08:57	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0055	12/11/13 17:43	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	128060	12/11/13 13:57	MGH	TAL NSH
Total/NA	Analysis	RSK-175		20	128060	12/11/13 13:59	MGH	TAL NSH
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Prep	245.1			22722	12/09/13 15:11	LQN	TAL PRT
Dissolved	Analysis	245.1		1	22736	12/09/13 20:43	LQN	TAL PRT
Total/NA	Prep	245.1			22733	12/09/13 18:19	LQN	TAL PRT
Total/NA	Analysis	245.1		1	22736	12/09/13 21:52	LQN	TAL PRT
Dissolved	Analysis	200.8		1	22746	12/10/13 01:16	TNL	TAL PRT

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-3-120413**

**Lab Sample ID: SWL0026-04**

**Date Collected: 12/04/13 12:09**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Prep	200.8			22695	12/09/13 09:59	KTN	TAL PRT
Dissolved	Analysis	200.8		10	22770	12/10/13 12:47	AJH	TAL PRT
Total/NA	Analysis	200.8		1	22770	12/10/13 14:39	AJH	TAL PRT
Total/NA	Prep	200.8			22737	12/10/13 07:52	KTN	TAL PRT
Total/NA	Analysis	200.8		100	22779	12/10/13 21:25	TNL	TAL PRT
Total	Prep	Wet Chem		1.00	13L0063_P	12/12/13 08:42	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13L0063	12/12/13 17:30	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13L0029_P	12/05/13 12:29	CBW	TAL SPK
Total	Prep	Wet Chem		1.00	13L0064_P	12/12/13 08:43	JSP	TAL SPK
Total	Analysis	SM4500-PE		10.0	13L0064	12/12/13 16:55	JSP	TAL SPK
Total	Analysis	EPA 300.0		1.00	13L0029	12/05/13 15:44	CBW	TAL SPK

**Client Sample ID: MW-4-120413**

**Lab Sample ID: SWL0026-05**

**Date Collected: 12/04/13 09:34**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	NWTPH-Gx		1.00	13L0037	12/06/13 17:12	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	13L0037_P	12/06/13 09:05	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0037	12/06/13 17:12	CBW	TAL SPK
Total/NA	Prep	3510C			127705	12/10/13 07:31	RCH	TAL NSH
Total/NA	Analysis	8270C		1	127884	12/10/13 20:21	KJP	TAL NSH
Total	Prep	EPA 3510/600 Series		1.02	13L0055_P	12/11/13 08:57	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0055	12/11/13 18:06	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	128060	12/11/13 14:01	MGH	TAL NSH
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Prep	245.1			22722	12/09/13 15:11	LQN	TAL PRT
Dissolved	Analysis	245.1		1	22736	12/09/13 20:45	LQN	TAL PRT
Total/NA	Prep	245.1			22733	12/09/13 18:19	LQN	TAL PRT
Total/NA	Analysis	245.1		1	22736	12/09/13 21:54	LQN	TAL PRT
Dissolved	Prep	200.8			22695	12/09/13 09:59	KTN	TAL PRT
Dissolved	Analysis	200.8		1	22746	12/10/13 01:19	TNL	TAL PRT
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Analysis	200.8		10	22770	12/10/13 12:50	AJH	TAL PRT
Total/NA	Prep	200.8			22737	12/10/13 07:52	KTN	TAL PRT
Total/NA	Analysis	200.8		1	22770	12/10/13 14:42	AJH	TAL PRT
Total/NA	Analysis	200.8		10	22779	12/10/13 21:36	TNL	TAL PRT
Total	Prep	Wet Chem		1.00	13L0063_P	12/12/13 08:42	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13L0063	12/12/13 17:30	JSP	TAL SPK
Total	Analysis	EPA 300.0		1.00	13L0029	12/05/13 16:04	CBW	TAL SPK
Total	Prep	Wet Chem		1.00	13L0064_P	12/12/13 08:43	JSP	TAL SPK
Total	Analysis	SM4500-PE		1.00	13L0064	12/12/13 16:55	JSP	TAL SPK

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-4-120413**

**Lab Sample ID: SWL0026-05**

Date Collected: 12/04/13 09:34

Matrix: Water

Date Received: 12/05/13 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13L0029_P	12/05/13 12:29	CBW	TAL SPK

**Client Sample ID: MW-5-120413**

**Lab Sample ID: SWL0026-06**

Date Collected: 12/04/13 10:27

Matrix: Water

Date Received: 12/05/13 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	NWTPH-Gx		1.00	13L0037	12/06/13 17:36	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	13L0037_P	12/06/13 09:05	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0037	12/06/13 17:36	CBW	TAL SPK
Total/NA	Prep	3510C			127705	12/10/13 07:31	RCH	TAL NSH
Total/NA	Analysis	8270C		1	127884	12/10/13 20:45	KJP	TAL NSH
Total	Prep	EPA 3510/600 Series		1.02	13L0055_P	12/11/13 08:57	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0055	12/11/13 18:28	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	128060	12/11/13 14:03	MGH	TAL NSH
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Prep	245.1			22722	12/09/13 15:11	LQN	TAL PRT
Dissolved	Analysis	245.1		1	22736	12/09/13 20:48	LQN	TAL PRT
Total/NA	Prep	245.1			22733	12/09/13 18:19	LQN	TAL PRT
Total/NA	Analysis	245.1		1	22736	12/09/13 22:08	LQN	TAL PRT
Dissolved	Prep	200.8			22695	12/09/13 09:59	KTN	TAL PRT
Dissolved	Analysis	200.8		1	22746	12/10/13 01:22	TNL	TAL PRT
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Analysis	200.8		10	22770	12/10/13 12:54	AJH	TAL PRT
Total/NA	Prep	200.8			22737	12/10/13 07:52	KTN	TAL PRT
Total/NA	Analysis	200.8		1	22770	12/10/13 14:45	AJH	TAL PRT
Total/NA	Analysis	200.8		10	22779	12/10/13 21:40	TNL	TAL PRT
Total	Prep	Wet Chem		1.00	13L0063_P	12/12/13 08:42	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13L0063	12/12/13 17:30	JSP	TAL SPK
Total	Analysis	EPA 300.0		1.00	13L0029	12/05/13 16:23	CBW	TAL SPK
Total	Prep	Wet Chem		1.00	13L0064_P	12/12/13 08:43	JSP	TAL SPK
Total	Analysis	SM4500-PE		1.00	13L0064	12/12/13 16:55	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13L0029_P	12/05/13 12:29	CBW	TAL SPK

**Client Sample ID: MW-6-120413**

**Lab Sample ID: SWL0026-07**

Date Collected: 12/04/13 11:19

Matrix: Water

Date Received: 12/05/13 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	13L0037_P	12/06/13 09:05	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	13L0037	12/06/13 17:59	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0037	12/06/13 17:59	CBW	TAL SPK
Total/NA	Prep	3510C			127705	12/10/13 07:31	RCH	TAL NSH

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-6-120413**

**Lab Sample ID: SWL0026-07**

**Date Collected: 12/04/13 11:19**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C		1	127884	12/10/13 21:08	KJP	TAL NSH
Total	Prep	EPA 3510/600 Series		1.02	13L0055_P	12/11/13 08:57	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0055	12/11/13 18:50	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	128060	12/11/13 14:05	MGH	TAL NSH
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Prep	245.1			22722	12/09/13 15:11	LQN	TAL PRT
Dissolved	Analysis	245.1		1	22736	12/09/13 20:50	LQN	TAL PRT
Total/NA	Prep	245.1			22733	12/09/13 18:19	LQN	TAL PRT
Total/NA	Analysis	245.1		1	22736	12/09/13 22:10	LQN	TAL PRT
Dissolved	Prep	200.8			22695	12/09/13 09:59	KTN	TAL PRT
Dissolved	Analysis	200.8		1	22746	12/10/13 01:26	TNL	TAL PRT
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Analysis	200.8		10	22770	12/10/13 12:57	AJH	TAL PRT
Total/NA	Prep	200.8			22737	12/10/13 07:52	KTN	TAL PRT
Total/NA	Analysis	200.8		1	22770	12/10/13 14:49	AJH	TAL PRT
Total/NA	Analysis	200.8		10	22779	12/10/13 21:43	TNL	TAL PRT
Total	Prep	Wet Chem		1.00	13L0063_P	12/12/13 08:42	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13L0063	12/12/13 17:30	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13L0029_P	12/05/13 12:29	CBW	TAL SPK
Total	Prep	Wet Chem		1.00	13L0064_P	12/12/13 08:43	JSP	TAL SPK
Total	Analysis	SM4500-PE		1.00	13L0064	12/12/13 16:55	JSP	TAL SPK
Total	Analysis	EPA 300.0		1.00	13L0029	12/05/13 16:43	CBW	TAL SPK

**Client Sample ID: MW-7-120313**

**Lab Sample ID: SWL0026-08**

**Date Collected: 12/03/13 11:59**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	NWTPH-Gx		1.00	13L0037	12/06/13 18:22	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	13L0037_P	12/06/13 09:05	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0037	12/06/13 18:22	CBW	TAL SPK
Total/NA	Prep	3510C			127857	12/10/13 13:26	LSR	TAL NSH
Total/NA	Analysis	8270C		1	128007	12/11/13 13:44	BES	TAL NSH
Total	Prep	EPA 3510/600 Series		1.01	13L0055_P	12/11/13 08:57	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0055	12/11/13 19:13	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	128060	12/11/13 14:17	MGH	TAL NSH
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Prep	245.1			22722	12/09/13 15:11	LQN	TAL PRT
Dissolved	Analysis	245.1		1	22736	12/09/13 20:53	LQN	TAL PRT
Total/NA	Prep	245.1			22733	12/09/13 18:19	LQN	TAL PRT
Total/NA	Analysis	245.1		1	22736	12/09/13 22:13	LQN	TAL PRT
Dissolved	Analysis	200.8		1	22746	12/10/13 01:32	TNL	TAL PRT
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-7-120313**

**Lab Sample ID: SWL0026-08**

**Date Collected: 12/03/13 11:59**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			22695	12/09/13 09:59	KTN	TAL PRT
Dissolved	Analysis	200.8		10	22770	12/10/13 13:04	AJH	TAL PRT
Total/NA	Prep	200.8			22737	12/10/13 07:52	KTN	TAL PRT
Total/NA	Analysis	200.8		1	22770	12/10/13 14:52	AJH	TAL PRT
Total/NA	Analysis	200.8		10	22779	12/10/13 21:46	TNL	TAL PRT
Total	Prep	Wet Chem		1.00	13L0063_P	12/12/13 08:42	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13L0063	12/12/13 17:30	JSP	TAL SPK
Total	Analysis	EPA 300.0		1.00	13L0029	12/05/13 17:03	CBW	TAL SPK
Total	Prep	Wet Chem		1.00	13L0064_P	12/12/13 08:43	JSP	TAL SPK
Total	Analysis	SM4500-PE		1.00	13L0064	12/12/13 16:55	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13L0029_P	12/05/13 12:29	CBW	TAL SPK

**Client Sample ID: MW-7-120413(11)**

**Lab Sample ID: SWL0026-09**

**Date Collected: 12/04/13 08:51**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			22680	12/06/13 18:29	TNL	TAL PRT
Total/NA	Analysis	200.8		1	22735	12/09/13 17:29	TNL	TAL PRT
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Prep	200.8			22698	12/09/13 10:28	KTN	TAL PRT
Dissolved	Analysis	200.8		1	22735	12/09/13 18:54	TNL	TAL PRT

**Client Sample ID: MW-8-120313**

**Lab Sample ID: SWL0026-10**

**Date Collected: 12/03/13 09:28**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Analysis	NWTPH-Gx		1.00	13L0037	12/06/13 18:46	CBW	TAL SPK
Total	Prep	GC/MS Volatiles		1.00	13L0037_P	12/06/13 09:05	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0037	12/06/13 18:46	CBW	TAL SPK
Total/NA	Prep	3510C			127705	12/10/13 07:31	RCH	TAL NSH
Total/NA	Analysis	8270C		1	127884	12/10/13 21:32	KJP	TAL NSH
Total	Prep	EPA 3510/600 Series		1.00	13L0055_P	12/11/13 08:57	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0055	12/11/13 19:35	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	128060	12/11/13 14:19	MGH	TAL NSH
Total/NA	Analysis	RSK-175		10	128060	12/11/13 14:21	MGH	TAL NSH
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Prep	245.1			22722	12/09/13 15:11	LQN	TAL PRT
Dissolved	Analysis	245.1		1	22736	12/09/13 21:07	LQN	TAL PRT
Total/NA	Prep	245.1			22733	12/09/13 18:19	LQN	TAL PRT
Total/NA	Analysis	245.1		1	22736	12/09/13 22:15	LQN	TAL PRT
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT

TestAmerica Spokane

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

**Client Sample ID: MW-8-120313**

**Lab Sample ID: SWL0026-10**

**Date Collected: 12/03/13 09:28**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			22695	12/09/13 09:59	KTN	TAL PRT
Dissolved	Analysis	200.8		1	22746	12/10/13 01:36	TNL	TAL PRT
Total/NA	Analysis	200.8		1	22770	12/10/13 14:55	AJH	TAL PRT
Total/NA	Prep	200.8			22737	12/10/13 07:52	KTN	TAL PRT
Total/NA	Analysis	200.8		10	22780	12/10/13 22:45	TNL	TAL PRT
Total	Prep	Wet Chem		1.00	13L0063_P	12/12/13 08:42	JSP	TAL SPK
Total	Analysis	SM 2320B		1.00	13L0063	12/12/13 17:30	JSP	TAL SPK
Total	Analysis	EPA 300.0		1.00	13L0029	12/05/13 17:22	CBW	TAL SPK
Total	Prep	Wet Chem		1.00	13L0064_P	12/12/13 08:43	JSP	TAL SPK
Total	Analysis	SM4500-PE		1.00	13L0064	12/12/13 16:55	JSP	TAL SPK
Total	Prep	Wet Chem		1.00	13L0029_P	12/05/13 12:29	CBW	TAL SPK

**Client Sample ID: B-1-120413**

**Lab Sample ID: SWL0026-11**

**Date Collected: 12/04/13 14:28**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	13L0037_P	12/06/13 09:05	CBW	TAL SPK
Total	Analysis	NWTPH-Gx		1.00	13L0037	12/06/13 19:09	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0037	12/06/13 19:09	CBW	TAL SPK
Total	Prep	EPA 3510/600 Series		1.01	13L0055_P	12/11/13 08:57	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0055	12/11/13 20:43	MRS	TAL SPK
Total/NA	Analysis	RSK-175		1	128060	12/11/13 14:23	MGH	TAL NSH
Total/NA	Analysis	RSK-175		20	128060	12/11/13 14:25	MGH	TAL NSH

**Client Sample ID: OW-1-120413**

**Lab Sample ID: SWL0026-12**

**Date Collected: 12/04/13 13:37**

**Matrix: Water**

**Date Received: 12/05/13 10:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			22680	12/06/13 18:29	TNL	TAL PRT
Total/NA	Analysis	200.8		1	22735	12/09/13 17:36	TNL	TAL PRT
Dissolved	Filtration	Filtration			22685	12/06/13 20:25	TNL	TAL PRT
Dissolved	Prep	200.8			22698	12/09/13 10:28	KTN	TAL PRT
Dissolved	Analysis	200.8		1	22735	12/09/13 19:00	TNL	TAL PRT

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177  
 TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200  
 TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



# Certification Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Laboratory: TestAmerica Spokane

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14

## Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-15
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-14
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-13 *
Florida	NELAP	4	E87358	06-30-14
Illinois	NELAP	5	200010	12-09-14
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
Louisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-13 *
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13 *
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-13 *
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-14
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-14
Virginia	NELAP	3	460152	06-14-14
Washington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-15

## Laboratory: TestAmerica Portland

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

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

# Certification Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

## Laboratory: TestAmerica Portland (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14



# Method Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0026

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by EPA Method 8260C		TAL SPK
NWTPH-Gx	Gasoline Hydrocarbons by NWTPH-Gx		TAL SPK
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
RSK-175	Dissolved Gases (GC)	RSK	TAL NSH
200.8	Metals (ICP/MS)	EPA	TAL PRT
245.1	Mercury (CVAA)	EPA	TAL PRT
EPA 300.0	Anions by EPA Method 300.0		TAL SPK
SM 2320B	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK
SM4500-PE	Conventional Chemistry Parameters by APHA/EPA Methods		TAL SPK

#### Protocol References:

EPA = US Environmental Protection Agency

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

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

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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 11922 E. First Ave., Spokane WA 99206-5302  
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047  
 509-924-9200 FAX 924-9290  
 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

12/13/2013

## CHAIN OF CUSTODY REPORT

Work Order #: SW100210

CLIENT: <u>GE ENGINEERS INC</u>			INVOICE TO: <u>Same as</u>										<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.				
REPORT TO: <u>D. LAUDER</u> ADDRESS: <u>dlauder@geengineers.com</u>			P.O. NUMBER:														
PHONE: <u>5093633125</u> FAX:			PRESERVATIVE														
PROJECT NAME: <u>CASHMERE FORMER MIL</u>			PROJECT NUMBER: <u>18593-001-02</u>														
SAMPLED BY: <u>ERH</u>			REQUESTED ANALYSES														
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		NWPH-SK B260 VOLS RSK-175*	NWPH-D x B260 SVOCS RCRA Metals + Cu, Fe, Mn	Alkalinity Sulfate	Nitrate	Total Phosph.	Total Arsenic	Dissolved Arsenic					MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1 MW-1-120313	12/3/13	10490	✓✓✓	✓✓	✓✓	✓✓	✓	✓						W	12		-01
2 MW-2-120313	12/3/13	1419	✓✓✓	✓	✓✓	✓✓								W	14		-02
3 MW-2-120413 (16)	12/4/13	0759					✓	✓						W	2		-03
4 MW-3-120413	12/4/13	1209	✓✓✓	✓	✓✓	✓✓								W	12		-04
5 MW-4-120413	12/4/13	0934	✓✓✓	✓	✓✓	✓✓								W	12		-05
6 MW-5-120413	12/4/13	1027	✓✓✓	✓	✓✓	✓✓								W	12		-06
7 MW-6-120413	12/4/13	1119	✓✓✓	✓	✓✓	✓✓								W	12		-07
8 MW-7-120313	12/3/13	1159	✓✓✓	✓	✓✓	✓✓								W	14		-08
9 MW-7-120313 (11)	12/4/13	0851					✓	✓						W	2		-09
10 MW-8-120313	12/3/13	0928	✓✓✓	✓	✓✓	✓✓								W	12		-10
RELEASED BY: <u>ELIYA TOGIAN</u>	FIRM: <u>GEI</u>	DATE: <u>12/4/2013</u>	TIME: <u>1532</u>	RECEIVED BY: <u>Josha Baldwin</u>	FIRM:	DATE: <u>12-4-13</u>	TIME: <u>3:34</u>										
RELEASED BY:	FIRM:	DATE:	TIME:	RECEIVED BY: <u>Cat Stapleton</u>	FIRM: <u>TestAmerica</u>	DATE: <u>12-5-13</u>	TIME: <u>10:00</u>										
ADDITIONAL REMARKS: <u>* RCRA Metals includes ALSO Cu, Fe, and Mn; * RSK-175 for Methane</u>													TEMP: <u>0.8</u>	PAGE 1 OF 1			

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5755 8<sup>th</sup> Street East, Tacoma, WA 98424-1317  
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 9405 SW Nimbus Ave., Beaverton, OR 97008-7145  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047  
 509-924-9200 FAX 924-9290  
 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #: SW10026

CLIENT: <u>GEOENGINEERS</u>			INVOICE TO: <u>same as</u>				<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <1 STD.			
REPORT TO: <u>D. LAUDER</u> ADDRESS: <u>dlauder@geoengineers.com</u>			P.O. NUMBER:							
PHONE: <u>509 363 3725 FAX:</u>			PRESERVATIVE				OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.			
PROJECT NAME: <u>CHRISTINE FARMER MILL</u>			REQUESTED ANALYSES							
PROJECT NUMBER: <u>18593-001-02</u>			CLIENT SAMPLE IDENTIFICATION      SAMPLING DATE/TIME <u>B-1-120413</u> <u>12/4/13</u> <u>1428</u> <u>OW-1-120413</u> <u>12/4/13</u> <u>1337</u>				MATRIX (W, S, O)      # OF CONT.      LOCATION/ COMMENTS      TA WO ID <u>W</u> <u>6</u> <u>-11</u> <u>W</u> <u>2</u> <u>-12</u>			
SAMPLED BY: <u>ERH</u>							NMT/PAH/ B260/VOCS      NUTPH-      DMU/ CHLORIN      DISSOLVED ARSENIC ✓      ✓ <u>(NO)</u> ✓      ✓			
RELEASED BY: <u>EMMA TIGAN</u> FIRM: <u>GEI</u> DATE: <u>12/4/2013</u> TIME: <u>1532</u>			RECEIVED BY: <u>Sorsha Baldwin</u> FIRM: <u>TestAmerica</u> DATE: <u>12-4-13</u> TIME: <u>3:34</u>				RECEIVED BY: <u>Cal Stapleton</u> FIRM: <u>TestAmerica</u> DATE: <u>12-5-13</u> TIME: <u>10:00</u>			
PRINT NAME: <u>EMMA TIGAN</u> FIRM: <u>GEI</u> DATE:      TIME:			PRINT NAME: <u>Cal Stapleton</u> FIRM: <u>TestAmerica</u> DATE:      TIME:				ADDITIONAL REMARKS: TEMP: <u>08</u> PAGE <u>22</u> OF <u>22</u>			

**TestAmerica Spokane  
Sample Receipt Form**

Work Order #: <u>SWL0020</u>		Client: <u>GeoEngineers</u>		Project: <u>Cashmere</u>	
Date/Time Received: <u>12/13/13 10:50</u>			By: <u>CS</u>		
Samples Delivered By: <input checked="" type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input type="checkbox"/> Client <input type="checkbox"/> Other:					
List Air Bill Number(s) or Attach a photocopy of the Air Bill:					
Receipt Phase	Yes	No	NA	Comments	
Were samples received in a cooler:	<input checked="" type="checkbox"/>				
Custody Seals are present and intact:			<input checked="" type="checkbox"/>		
Are CoC documents present:	<input checked="" type="checkbox"/>				
Necessary signatures:	<input checked="" type="checkbox"/>				
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:					
Temperature: <u>D-8</u> °C Thermometer (Circle one Serial # <u>122208348</u> Keyring IR   Serial # 111874910 IR Gun 2) (acceptance criteria 0-6					
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:					
Log-In Phase	Yes	No	NA	Comments	
Date/Time: <u>12/13/13 10:50</u> By: <u>CS, RP</u>					
Are sample labels affixed and completed for each container	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		No labels for 1/2 of the vna vials - able to distinguish by the way they were packed. <u>10</u>	
Samples containers were received intact:		<input checked="" type="checkbox"/>		<u>see below</u>	
Do sample IDs match the CoC	<input checked="" type="checkbox"/>				
Appropriate sample containers were received for tests requested	<input checked="" type="checkbox"/>				
Are sample volumes adequate for tests requested	<input checked="" type="checkbox"/>				
Appropriate preservatives were used for the tests requested	<input checked="" type="checkbox"/>				
pH of inorganic samples checked and is within method specification	<input checked="" type="checkbox"/>				
Are VOC samples free of bubbles >6mm (1/4" diameter)	<input checked="" type="checkbox"/>				
Are dissolved parameters field filtered		<input checked="" type="checkbox"/>		<u>Lab filter</u>	
Do any samples need to be filtered or preserved by the lab	<input checked="" type="checkbox"/>				
Does this project require quick turnaround analysis	<input checked="" type="checkbox"/>				
Are there any short hold time tests (see chart below)	<input checked="" type="checkbox"/>			<u>NO3</u>	
Are any samples within 2 days of or past expiration	<input checked="" type="checkbox"/>				
Was the CoC scanned	<input checked="" type="checkbox"/>				
Were there Non-conformance issues at login	<input checked="" type="checkbox"/>				
If yes, was a CAR generated # <u>1400</u>	<input checked="" type="checkbox"/>				

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

SWL0020-01 - 1 vna vial broken  
- 04 - 125ml HCl amber broken lid  
no sample loss.  
- 07 - 2 vna vials broken  
- 10 - 11 amber - no lid, loss  
of 50% of sample 12/13/2013

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Spokane  
11922 East 1st. Avenue  
Spokane, WA 99206  
Tel: (509)924-9200

TestAmerica Job ID: SWL0121  
Client Project/Site: 18593-001-02  
Client Project Description: Cashmere Mill

For:  
Geo Engineers - Spokane  
523 East Second Ave.  
Spokane, WA 99202

Attn: Dave Lauder



Authorized for release by:  
1/3/2014 8:11:50 AM

Randee Decker, Project Manager  
(509)924-9200  
[Randee.Decker@testamericainc.com](mailto:Randee.Decker@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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

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

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# Sample Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0121

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWL0121-01	MW-9-122013	Water	12/20/13 13:30	12/23/13 08:45

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# Definitions/Glossary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0121

## Qualifiers

### Fuels

Qualifier	Qualifier Description
Z6	Surrogate recovery was below acceptance limits.
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.

## Glossary

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

# Client Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0121

**Client Sample ID: MW-9-122013**

**Lab Sample ID: SWL0121-01**

**Date Collected: 12/20/13 13:30**

**Matrix: Water**

**Date Received: 12/23/13 08:45**

**Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		90.0		ug/l		12/23/13 09:36	12/23/13 16:19	1.00
Benzene	ND		0.200		ug/l		12/23/13 09:36	12/23/13 16:19	1.00
Toluene	ND		0.500		ug/l		12/23/13 09:36	12/23/13 16:19	1.00
Ethylbenzene	ND		0.500		ug/l		12/23/13 09:36	12/23/13 16:19	1.00
m,p-Xylene	ND		0.500		ug/l		12/23/13 09:36	12/23/13 16:19	1.00
o-Xylene	ND		0.500		ug/l		12/23/13 09:36	12/23/13 16:19	1.00
Xylenes (total)	ND		1.50		ug/l		12/23/13 09:36	12/23/13 16:19	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	102		71.2 - 143	12/23/13 09:36	12/23/13 16:19	1.00
1,2-dichloroethane-d4	96.5		70 - 140	12/23/13 09:36	12/23/13 16:19	1.00
Toluene-d8	101		74.1 - 135	12/23/13 09:36	12/23/13 16:19	1.00
4-bromofluorobenzene	108		68.7 - 141	12/23/13 09:36	12/23/13 16:19	1.00

**Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.238		mg/l		12/26/13 09:24	12/27/13 02:25	1.00
Heavy Oil Range Hydrocarbons	ND	C	0.397		mg/l		12/26/13 09:24	12/27/13 02:25	1.00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-FBP	49.8	Z6	50 - 150	12/26/13 09:24	12/27/13 02:25	1.00
n-Triacontane-d62	72.7		50 - 150	12/26/13 09:24	12/27/13 02:25	1.00

**Method: 200.8 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010		mg/L		12/31/13 11:50	01/02/14 14:57	1
Barium	0.087		0.0010		mg/L		12/31/13 11:50	01/02/14 14:57	1
Silver	ND		0.0010		mg/L		12/31/13 11:50	01/02/14 14:57	1
Arsenic	0.0034		0.0010		mg/L		12/31/13 11:50	01/02/14 14:57	1
Lead	ND		0.0010		mg/L		12/31/13 11:50	01/02/14 14:57	1
Selenium	ND		0.0010		mg/L		12/31/13 11:50	01/02/14 14:57	1
Chromium	ND		0.0020		mg/L		12/31/13 11:50	01/02/14 14:57	1

**Method: EPA 245.1 - Total Metals by EPA 200 Series Methods**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.333		ug/l		01/02/14 09:00	01/02/14 13:51	1.00

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0121

## Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

**Lab Sample ID: 13L0119-BLK1**

**Matrix: Water**

**Analysis Batch: 13L0119**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13L0119\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Hydrocarbons	ND		90.0		ug/l		12/23/13 09:36	12/23/13 12:09	1.00
Methyl tert-butyl ether	ND		0.500		ug/l		12/23/13 09:36	12/23/13 12:09	1.00
Benzene	ND		0.200		ug/l		12/23/13 09:36	12/23/13 12:09	1.00
Toluene	ND		0.500		ug/l		12/23/13 09:36	12/23/13 12:09	1.00
Ethylbenzene	ND		0.500		ug/l		12/23/13 09:36	12/23/13 12:09	1.00
m,p-Xylene	ND		0.500		ug/l		12/23/13 09:36	12/23/13 12:09	1.00
o-Xylene	ND		0.500		ug/l		12/23/13 09:36	12/23/13 12:09	1.00
Naphthalene	ND		2.00		ug/l		12/23/13 09:36	12/23/13 12:09	1.00
1,2-Dichloroethane (EDC)	ND		0.500		ug/l		12/23/13 09:36	12/23/13 12:09	1.00
1,2-Dibromoethane	ND		1.00		ug/l		12/23/13 09:36	12/23/13 12:09	1.00
Xylenes (total)	ND		1.50		ug/l		12/23/13 09:36	12/23/13 12:09	1.00
Hexane	ND		1.00		ug/l		12/23/13 09:36	12/23/13 12:09	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	100		71.2 - 143	12/23/13 09:36	12/23/13 12:09	1.00
1,2-dichloroethane-d4	99.6		70 - 140	12/23/13 09:36	12/23/13 12:09	1.00
Toluene-d8	100		74.1 - 135	12/23/13 09:36	12/23/13 12:09	1.00
4-bromofluorobenzene	106		68.7 - 141	12/23/13 09:36	12/23/13 12:09	1.00

**Lab Sample ID: 13L0119-BS1**

**Matrix: Water**

**Analysis Batch: 13L0119**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13L0119\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	10.0	10.8		ug/l		108	80 - 128
Benzene	10.0	10.8		ug/l		108	80 - 122
Toluene	10.0	9.64		ug/l		96.4	80 - 123
Ethylbenzene	10.0	9.93		ug/l		99.3	80 - 120
m,p-Xylene	10.0	10.1		ug/l		101	80 - 120
o-Xylene	10.0	10.5		ug/l		105	80 - 120
Naphthalene	10.0	8.52		ug/l		85.2	62.8 - 132
1,2-Dichloroethane (EDC)	10.0	10.6		ug/l		106	63.9 - 144
1,2-Dibromoethane	10.0	9.19		ug/l		91.9	70 - 130
Xylenes (total)	20.0	20.6		ug/l		103	80 - 120
Hexane	10.0	10.5		ug/l		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	102		71.2 - 143
1,2-dichloroethane-d4	104		70 - 140
Toluene-d8	95.6		74.1 - 135
4-bromofluorobenzene	106		68.7 - 141

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0121

## Method: EPA 8260C - NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C

(Continued)

**Lab Sample ID: 13L0119-BS2**

**Matrix: Water**

**Analysis Batch: 13L0119**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13L0119\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Hydrocarbons	1000	1050		ug/l		105	80 - 120
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
Dibromofluoromethane	99.6		71.2 - 143				
1,2-dichloroethane-d4	97.5		70 - 140				
Toluene-d8	98.8		74.1 - 135				
4-bromofluorobenzene	104		68.7 - 141				

## Method: NWTPH-Dx - Semivolatile Petroleum Products by NWTPH-Dx

**Lab Sample ID: 13L0128-BLK1**

**Matrix: Water**

**Analysis Batch: 13L0128**

**Client Sample ID: Method Blank**

**Prep Type: Total**

**Prep Batch: 13L0128\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Hydrocarbons	ND		0.240		mg/l		12/26/13 09:24	12/26/13 17:07	1.00
Heavy Oil Range Hydrocarbons	ND		0.400		mg/l		12/26/13 09:24	12/26/13 17:07	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Blank Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-FBP	56.2		50 - 150				12/26/13 09:24	12/26/13 17:07	1.00
n-Triacontane-d62	80.1		50 - 150				12/26/13 09:24	12/26/13 17:07	1.00

**Lab Sample ID: 13L0128-BS1**

**Matrix: Water**

**Analysis Batch: 13L0128**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total**

**Prep Batch: 13L0128\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Hydrocarbons	3.20	1.88		mg/l		58.7	54.5 - 136
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
2-FBP	55.5		50 - 150				
n-Triacontane-d62	72.8		50 - 150				

## Method: 200.8 - Metals (ICP/MS)

**Lab Sample ID: MB 250-23258/1-A**

**Matrix: Water**

**Analysis Batch: 23310**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 23258**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0010		mg/L		12/31/13 11:50	01/02/14 14:50	1
Barium	ND		0.0010		mg/L		12/31/13 11:50	01/02/14 14:50	1
Silver	ND		0.0010		mg/L		12/31/13 11:50	01/02/14 14:50	1
Arsenic	ND		0.0010		mg/L		12/31/13 11:50	01/02/14 14:50	1
Lead	ND		0.0010		mg/L		12/31/13 11:50	01/02/14 14:50	1

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0121

## Method: 200.8 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 250-23258/1-A**

**Matrix: Water**

**Analysis Batch: 23310**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 23258**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.0010		mg/L		12/31/13 11:50	01/02/14 14:50	1
Chromium	ND		0.0020		mg/L		12/31/13 11:50	01/02/14 14:50	1

**Lab Sample ID: LCS 250-23258/2-A**

**Matrix: Water**

**Analysis Batch: 23310**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 23258**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.100	0.0997		mg/L		100	85 - 115
Barium	0.100	0.0954		mg/L		95	85 - 115
Silver	0.0500	0.0499		mg/L		100	85 - 115
Arsenic	0.100	0.0971		mg/L		97	85 - 115
Lead	0.100	0.105		mg/L		105	85 - 115
Selenium	0.100	0.0928		mg/L		93	85 - 115
Chromium	0.100	0.102		mg/L		102	85 - 115

**Lab Sample ID: 250-16333-D-1-B MS**

**Matrix: Water**

**Analysis Batch: 23310**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 23258**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	ND		0.100	0.0953		mg/L		95	70 - 130
Barium	0.0049		0.100	0.108		mg/L		103	70 - 130
Silver	ND		0.0500	0.0487		mg/L		97	70 - 130
Arsenic	0.0090		0.100	0.105		mg/L		96	70 - 130
Lead	ND		0.100	0.103		mg/L		103	70 - 130
Selenium	ND		0.100	0.0958		mg/L		96	70 - 130
Chromium	ND		0.100	0.102		mg/L		102	70 - 130

**Lab Sample ID: 250-16332-A-1-B DU**

**Matrix: Water**

**Analysis Batch: 23310**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 23258**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	ND		ND		mg/L		NC	20
Barium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20
Arsenic	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Selenium	0.0044		0.00451		mg/L		2	20
Chromium	ND		ND		mg/L		NC	20

TestAmerica Spokane

# QC Sample Results

Client: Geo Engineers - Spokane  
 Project/Site: 18593-001-02

TestAmerica Job ID: SWL0121

## Method: EPA 245.1 - Total Metals by EPA 200 Series Methods

**Lab Sample ID: 14A0005-BLK1**  
**Matrix: Water**  
**Analysis Batch: 14A0005**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 14A0005\_P**

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200		ug/l		01/02/14 09:00	01/02/14 13:49	1.00

**Lab Sample ID: 14A0005-BS1**  
**Matrix: Water**  
**Analysis Batch: 14A0005**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 14A0005\_P**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.00	2.05		ug/l		102	85 - 115

**Lab Sample ID: 14A0005-DUP1**  
**Matrix: Water**  
**Analysis Batch: 14A0005**

**Client Sample ID: MW-9-122013**  
**Prep Type: Total**  
**Prep Batch: 14A0005\_P**

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Mercury	ND		ND		ug/l			17.1

# Lab Chronicle

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0121

**Client Sample ID: MW-9-122013**

**Lab Sample ID: SWL0121-01**

**Date Collected: 12/20/13 13:30**

**Matrix: Water**

**Date Received: 12/23/13 08:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	GC/MS Volatiles		1.00	13L0119_P	12/23/13 09:36	CBW	TAL SPK
Total	Analysis	EPA 8260C		1.00	13L0119	12/23/13 16:19	CBW	TAL SPK
Total	Prep	EPA 3510/600 Series		0.993	13L0128_P	12/26/13 09:24	MS	TAL SPK
Total	Analysis	NWTPH-Dx		1.00	13L0128	12/27/13 02:25	MRS	TAL SPK
Total/NA	Prep	200.8			23258	12/31/13 11:50	TNL	TAL PRT
Total/NA	Analysis	200.8		1	23310	01/02/14 14:57	AJH	TAL PRT
Total	Prep	EPA 200 Series		1.67	14A0005_P	01/02/14 09:00	JSP	TAL SPK
Total	Analysis	EPA 245.1		1.00	14A0005	01/02/14 13:51	ZZZ	TAL SPK

**Laboratory References:**

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



# Certification Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0121

## Laboratory: TestAmerica Spokane

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14

## Laboratory: TestAmerica Portland

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-012	12-26-13 *
California	State Program	9	2597	09-30-15
Oregon	NELAP	10	OR100021	01-09-14
USDA	Federal		P330-11-00092	02-17-14
Washington	State Program	10	C586	06-23-14

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

# Method Summary

Client: Geo Engineers - Spokane  
Project/Site: 18593-001-02

TestAmerica Job ID: SWL0121

Method	Method Description	Protocol	Laboratory
EPA 8260C	NWTPH-Gx and Volatile Organic Compounds by EPA Method 8260C		TAL SPK
NWTPH-Dx	Semivolatile Petroleum Products by NWTPH-Dx		TAL SPK
200.8	Metals (ICP/MS)	EPA	TAL PRT
EPA 245.1	Total Metals by EPA 200 Series Methods		TAL SPK

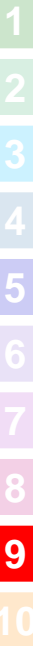
**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

TAL PRT = TestAmerica Portland, 9405 SW Nimbus Ave., Beaverton, OR 97008, TEL (503)906-9200

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8<sup>th</sup> Street East, Tacoma, WA 98424-1317  
 11922 E. First Ave., Spokane WA 99206-5302  
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047  
 509-924-9200 FAX 924-9290  
 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #: SW1010

CLIENT: <u>GeoEngineers</u>		INVOICE TO: <u>Dave Lauder</u>		<b>TURNAROUND REQUEST</b> in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Specify: * Turnaround Requests less than standard may incur Rush Charges.							
REPORT TO: <u>Dave Lauder</u> ADDRESS: <u>523 E 2nd Ave Spokane WA</u>		P.O. NUMBER:									
PHONE: <u>509 363 3125</u> FAX:		PRESERVATIVE									
PROJECT NAME: <u>Cashmere</u>		REQUESTED ANALYSES									
PROJECT NUMBER: <u>14532-002-01</u>											
SAMPLED BY: <u>SAH</u>											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	<u>CHLORIDES</u>	<u>PERM &amp; NITRATES</u>	<u>DX</u>				MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
<u>MW 9-12 2013</u>	<u>12/20/13 1330</u>	<u>X</u>	<u>X</u>	<u>X</u>				<u>W</u>	<u>4</u>		
2											
3											
4											
5											
6											
7											
8											
9											
10											
RELEASED BY: <u>A for m</u>	FIRM: <u>GET</u>	DATE: <u>12/20/13</u>	TIME: <u>1345</u>	RECEIVED BY: <u>[Signature]</u>	FIRM: <u>GET</u>	DATE: <u>12/20</u>	TIME: <u>1345</u>				
PRINT NAME: <u>S Latner</u>				PRINT NAME: <u>Sedrich Sugalski</u>							
RELEASED BY: <u>[Signature]</u>	FIRM: <u>GET</u>	DATE: <u>12/23/13</u>	TIME: <u>0845</u>	RECEIVED BY: <u>[Signature]</u>	FIRM: <u>TestAmerica</u>	DATE: <u>12-23-13</u>	TIME: <u>8:45</u>				
PRINT NAME: <u>Sedrich Sugalski</u>				PRINT NAME: <u>[Signature]</u>							
ADDITIONAL REMARKS:								TEMP: <u>3.4</u>	PAGE	OF	

Page 13 of 14

1/3/2014



**TestAmerica Spokane  
Sample Receipt Form**

Work Order # <u>SNL0121</u>	Client: <u>GeoEngineers</u>	Project: <u>Dashmere</u>		
Date/Time Received: <u>10/23/13 8:45</u>		By: <u>CS</u>		
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> Other:				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	<input checked="" type="checkbox"/>			
Custody Seals are present and intact:			<input checked="" type="checkbox"/>	
Are CoC documents present:	<input checked="" type="checkbox"/>			
Necessary signatures:	<input checked="" type="checkbox"/>			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:				
Temperature: <u>3.4</u> °C Thermometer (Circle one Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:				
Log-In Phase	Yes	No	NA	Comments
Date/Time: <u>10/23/13 9:31</u> By: <u>CS</u>				
Are sample labels affixed and completed for each container	<input checked="" type="checkbox"/>			
Samples containers were received intact:	<input checked="" type="checkbox"/>			
Do sample IDs match the CoC	<input checked="" type="checkbox"/>			
Appropriate sample containers were received for tests requested	<input checked="" type="checkbox"/>			
Are sample volumes adequate for tests requested	<input checked="" type="checkbox"/>			
Appropriate preservatives were used for the tests requested	<input checked="" type="checkbox"/>			
pH of inorganic samples checked and is within method specification	<input checked="" type="checkbox"/>			
Are VOC samples free of bubbles >6mm (1/4" diameter)			<input checked="" type="checkbox"/>	
Are dissolved parameters field filtered			<input checked="" type="checkbox"/>	
Do any samples need to be filtered or preserved by the lab			<input checked="" type="checkbox"/>	
Does this project require quick turnaround analysis			<input checked="" type="checkbox"/>	
Are there any short hold time tests (see chart below)		<input checked="" type="checkbox"/>		
Are any samples within 2 days of or past expiration		<input checked="" type="checkbox"/>		
Was the CoC scanned	<input checked="" type="checkbox"/>			
Were there Non-conformance issues at login		<input checked="" type="checkbox"/>		
If yes, was a CAR generated #			<input checked="" type="checkbox"/>	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012





One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

Geo Engineers  
523 East 2Nd Avenue  
Spokane, WA 99202

Work Order: **W3L0064**  
Reported: 17-Dec-13 11:21

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received
MW-2-120313	W3L0064-01	Ground Water	03-Dec-13 14:09	ERH	04-Dec-2013
MW-7-120313	W3L0064-02	Ground Water	03-Dec-13 11:59	ERH	04-Dec-2013

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. Non-Detects are reported at the MDL.

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.



One Government Gulch - PO Box 929

Kellogg ID 83837-0929

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Geo Engineers  
523 East 2Nd Avenue  
Spokane, WA 99202

Work Order: **W3L0064**  
Reported: 17-Dec-13 11:21

Client Sample ID: **MW-2-120313**

SVL Sample ID: **W3L0064-01 (Ground Water)**

Sample Report Page 1 of 1

Sampled: 03-Dec-13 14:09  
Received: 04-Dec-13  
Sampled By: ERH

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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**Metals (Total Recoverable--reportable as Total per 40 CFR 136)**

EPA 200.8	Arsenic	0.0047	mg/L	0.0030	0.0004	2.5	W349190	KWH	12/17/13 09:21	
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**Metal Speciation Methods**

Subramanian	Arsenic(III)	0.0044	mg/L	0.0030	0.0007		W349195	KWH	12/17/13 10:43	
Subramanian	Arsenic(V)	< 0.0030	mg/L	0.0030	0.0007		N/A		12/17/13 10:43	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

**John Kern**  
Laboratory Director



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Work Order: **W3L0064**  
Reported: 17-Dec-13 11:21

Client Sample ID: **MW-7-120313**

SVL Sample ID: **W3L0064-02 (Ground Water)**

Sample Report Page 1 of 1

Sampled: 03-Dec-13 11:59  
Received: 04-Dec-13  
Sampled By: ERH

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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**Metals (Total Recoverable--reportable as Total per 40 CFR 136)**

EPA 200.8	Arsenic	0.0153	mg/L	0.0030	0.0004	2.5	W349190	KWH	12/17/13 09:23	
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**Metal Speciation Methods**

Subramanian	Arsenic(III)	0.0135	mg/L	0.0030	0.0007		W349195	KWH	12/17/13 10:43	
Subramanian	Arsenic(V)	< 0.0030	mg/L	0.0030	0.0007		N/A		12/17/13 10:43	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

**John Kern**  
Laboratory Director



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Work Order: **W3L0064**  
Reported: 17-Dec-13 11:21

**Quality Control - BLANK Data**

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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**Metals (Total Recoverable--reportable as Total per 40 CFR 136)**

EPA 200.8	Arsenic	mg/L	<0.0030	0.0004	0.0030	W349190	17-Dec-13	
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**Metal Speciation Methods**

Subramanian	Arsenic(III)	mg/L	<0.0030	0.0007	0.0030	W349195	17-Dec-13	
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**Quality Control - LABORATORY CONTROL SAMPLE Data**

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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**Metals (Total Recoverable--reportable as Total per 40 CFR 136)**

EPA 200.8	Arsenic	mg/L	0.0267	0.0250	107	85 - 115	W349190	17-Dec-13	
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**Metal Speciation Methods**

Subramanian	Arsenic(III)	mg/L	0.0254	0.0250	102	80 - 120	W349195	17-Dec-13	
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**Quality Control - MATRIX SPIKE Data**

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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**Metals (Total Recoverable--reportable as Total per 40 CFR 136)**

EPA 200.8	Arsenic	mg/L	0.0275	<0.0030	0.0250	104	70 - 130	W349190	17-Dec-13	
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**Metal Speciation Methods**

Subramanian	Arsenic(III)	mg/L	0.0345	0.0044	0.0250	120	70 - 130	W349195	17-Dec-13	
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**Quality Control - MATRIX SPIKE DUPLICATE Data**

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	%R	RPD	RPD Limit	Batch ID	Analyzed	Notes
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**Metals (Total Recoverable--reportable as Total per 40 CFR 136)**

EPA 200.8	Arsenic	mg/L	0.0284	0.0275	0.0250	107	3.3	20	W349190	17-Dec-13	
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**Metal Speciation Methods**

Subramanian	Arsenic(III)	mg/L	0.0328	0.0345	0.0250	113	5.1	20	W349195	17-Dec-13	
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Spokane, WA 99202

Work Order: **W3L0064**  
Reported: 17-Dec-13 11:21

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### Notes and Definitions

LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
R > 4S	% recovery not applicable, sample concentration more than four times greater than spike level
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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